POSISIES VAN STASIES WAT IN DIE MAANDELIKSE VERSLAE VERSKYN.
POSITIONS OF STATIONS APPEARING IN THE MONTHLY REPORTS.

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Alle Termometers is in Stevensonse Skerms, 4vt. bo die grond, blootgestel.
All Thermometers exposed in Stevenson Screens, 4ft. above ground.

Die boonste rand van alle reënmeters is 4 vt. bo die grond.
All rims of raingauges are 4ft. above ground.

KAAP = CAPE	Hoogte: Height:	Breedtegr: Latitude :	Lengtegr: Longtitude:		Hoogte: Height:	Breedtegr: Latitude:	Lengtegr: Longtitude
Aliwal Noord	4,367	30°42'	26°43'	Kuruman	4,282	27°28'	23°26'
Beaufort Wes	2,783	32°19'	22°38'	Mafeking	4,172	25°52'	25°39'
Cape L'Agulhas	62	34°50'	20°01'	Matroosberg	3,158	33°26'	19°49'
Cape Town	55	33°55'	18°32'	Mosselbaai	377	34°11'	22°05'
Cala	3,900	31°31'	27°41'	Okiep	3,060	29°36'	17°52'
Carnarvon	4,089	30°58'	22°08'	Oudtshoorn	1,100	33°35'	22°13'
Ceres	1,497	33°22'	19°19'	Port Elizabeth	190	33°59'	25°37'
Cradock	2,860	32°10'	25°38'	Port Nolloth	24	29°16'	16°52'
Clanwilliam	245	32°10'	18°54'	Port St. Johns	153	31°38'	29°35'
Deepwells	1,704	33°58'	23°10'	Postmasburg	4,345	28°18'	23°00'
East London	147	33°01'	27°54'	Prieska	3,080	29°39'	22°45'
Goodhouse	665	28°56'	18°13'	Queenstown	3,533	31°54'	26°52'
Graaff Reinet	2,460	32°16'	24°32'	Rietpoort	1,400	30°55'	18°00'
Grahamstown	1,820	33°18'	26°32'	Somerset Oos	2,483	32°44'	25°35'
Gt. Drakenstein	480	33°52'	19°01'	Sutherland	4,785	32°25'	20°42'
Hopetown	3,604	29°37'	24°05'	Uitenhage	358	33°47'	25°24'
Idutywa	2,740	32°06'	28°18'	Umtata	2,235	31°35'	28°46'
Kenhardt	2,647	29°21'	21°09'	Upington	2,640	28°27'	21°15'
Kimberley	3,626	28°48'	24°46'	Van Wyksvlei	3,150	30°21'	21°49'
Kingwilliamstown	1,230	32°52'	27°23'	Victoria Wes	4,164	31°24'	23°07'
Klaver	199	31°47'	18°37'	Vryburg	4,080	26°56'	24°39'
Kokstad	4,339	30°33'	29°26'	Willowmore	2,719	33°17'	23°30'
Grootfontein	4,144	31°27'	24°58'				
NATAL:							
Dundee	4,114	28°11'	30°15'	Maritzburg	2,243	29°35'	30°22'
Durban Aero	45	29°51'	31°02'	Otobotini	354	27°25'	32°06'
Empangeni	210	28°46'	31°55'	Port Shepstone	50	30°45'	30°27'
Eshowe	1,740	28°53'	31°27'	Stanger	400	29°19'	31°17'
Estcourt	3,875	29°00'	29°53'	Vryheid	3,917	27°47'	30°46'
Ladysmith	3,079	28°33'	29°47'	Weenen	2,773	28°51'	30°05'
TRANSVAAL:							
Barberton	2,796	25°47'	31°03'	Nylstroom	3,798	24°42'	28°25'
Belfast	6,135	25°41'	30°02'	Pietersburg	4,244	23°56'	29°29'
Ermelo	5,770	26°31'	29°59'	Piet Retief	4,134	27°00'	30°48'
Germiston	5,499	26°14'	28°08'	Pilgrims Rest	4,213	24°54'	30°44'
Heidelberg	5,054	26°30'	28°22'	Potchefstroom	4,429	26°44'	27°05'
Klerksdorp	4,267	26°52'	26°40'	Pretoria	4,491	25°45'	28°14'
Komatipoort	483	25°26'	31°56'	Rustenburg	3,879	25°40'	27°14'
Kopje Alleen	3,526	24°51'	28°41'	Standerton	5,013	26°57'	29°15'
Louis Trichardt	3,145	23°03'	29°54'	Vaal-Hartz	3,810	27°55'	24°51'
Messina	1,800	22°20'	30°03'	Wakkerstroom	5,834	27°21'	30°08'
Middelburg	4,746	25°46'	29°28'	Zeerust	3,910	25°31'	26°05'
O.V.S. : O.F.S.:							
Bethulie	4,268	30°30'	25°58'	Kroonstad	4,423	27°39'	27°15'
Bloemfontein	4,678	29°08'	26°11'	Ladybrand	5,840	29°10'	27°26'
Fauresmith	4,535	29°46'	25°19'	Lindley	5,000	27°53'	27°55'
Harrismith	5,346	28°16'	29°07'	Wepener	4,719	29°44'	27°02'
BASOETOLAND : BASUTOLAND:							
Butha Buthe	5,800	28°44'	28°13'	Mohaleshoek	5,050	30°09'	27°29'
Mafeteng	5,300	29°49'	27°14'	Mokhotlong	7,250	29°20'	29°07'
Maseru	5,168	29°19'	27°29'	Qachasnek	6,500	30°07'	28°42'
BETSJOEANALAND : BECHUANALAND:							
Dikgatlong	3,000	23°27'	27°15'	Mahalapye	3,296	23°04'	26°48'
Gaberones	3,304	24°40'	25°55'				
SWASIELAND : SWAZILAND:							
Mbabane	3,816	26°19'	31°09'	Stegi	2,143	26°28'	31°58'

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MAANDELIKSE WEERVERSLAG

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Deel XXI JANUARIE 1940 No. 1

ALGEMEEN:

Gemiddelde temperature onder normaal oor die Transvaal en aangrensende distrikte van die Vrystaat en Betsjoeanaland. Neerslag was teleurstellend heelwat onder normaal oor die Unie as geheel. 'n Buitengewone sneeuval het voorgekom op die 22ste in die suidoostelike Kaapse berge. Lokale donderbuie het dikwels voorgekom.

LUGDRUK:

Die distribusie van die gemiddelde lugdruk word op Kaart I aangedui. Die gemiddelde druk was bo normaal oor die hele Unie, met die grootste positiewe afwykings in die westelike binneland van die Kaapprovinsie en in die westelike en noordelike Transvaal.

TEMPERATUUR:

Kaart II gee die afwykings van die gemiddelde maandelikse temperature vanaf die normale aan. Ons merk op dat die gemiddelde temperatuur bo normaal was oor die grootste deel van die Kaapprovinsie, die westelike Vrystaat, die kusstreek van Natal en die noordelike grensdistrikte van die Transvaal; oor die res van die Unie was die temperature onder normaal.

Die algemene gemiddelde temperatuur vir die Unie as 'n geheel (soos bereken uit gegewens van 'n aantal uitgekose stasies) was 72.7°F, of 0.1° bo normaal. Apart beskou, het die Transvaal en Natal gemiddelde temperature aangetoon wat onderskeidelik 0.6° en 0.1° onder normaal was, terwyl die gemiddelde vir die Kaapprovinsie 0.5° bo normaal was. Oor die Vrystaat het die gemiddelde temperatuur net die normaal bereik.

Die gemiddelde maksima, of dag temperature, was onder normaal oor die kusstreek van die westelike Kaapprovinsie, oor beperkte streke van die binneland van die Kaaprpovinsie, oor Betsjoeanaland en aangrensende dele van die Vrystaat en Transvaal en oor die binneland van Natal en die oostelike Transvaal. Oor die res van die Unie was die gemiddelde maksima bo normaal. Die grootste positiewe afwykings (2 tot 4°F) het langs die kusstreek van die suidelike en suidoostelike Kaapprovinsie voorgekom.

Die gemiddelde minima, of nag temperature, was onder normaal hoofsaaklik oor die drie noordelike provinsies en oor sommige van die noordelike en oostelike distrikte van die Kaapprovinsie.

Die algemene gemiddelde maksimum vir die Unie as 'n geheel was 85.3°F, of 0.5°F bo normaal, en die gemiddelde minimum, 60.1°F, of 0.3°F onder normaal.

Die warmste tydperk van hierdie maand was naasteby (1) die 6de, (2) die 10de tot 14de en (3) die 22ste.

National Oceanic and Atmospheric Administration

Environmental Data Rescue Program

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Lason, Inc.
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Beltsville, MD
December 20, 2000

Hier volg nou van die hoogste temperature wat in elke provinsie gemeet was: 112° te Goodhouse (K.P.) op die 13de; 111° te Komatipoort (Tvl.) op die 22ste;99° te Otobotini (Natal) op die 10de, en 101° te Kroonstad (O.V.S.) op die 14de.

Die laagste temperature het op die 1ste, en vanaf die 21ste tot 24ste voorgekom. Die volgende was sommige van die laagste minima wat in elke provinsie geregistreer is :- 36.6° te Grootfontein (K.P.) op die 23ste; 42° te Belfast (Tvl.) op die 1ste; 51° te Dundee en Vryheid (Natal) op die 23ste, en 39° te Fouresmith (O.V.S) op die 23ste.

NEERSLAG:

Die distribusie van die neerslag, uitgedruk as persentasie van die normaal, word naasteby aangedui op Kaart III. Die neerslag was bo normaal oor die westelike binneland van die Kaapprovinsie insluitende westelike Betsjoenaland, oor die suidelike kusstreek en 'n klein area in die oostelike binneland, oor noordelike Natal en suidelike Swaziland. Reënval oor die res van die Unie was heelwat onder normaal. Streke in die nabyheid van Clanwilliam, Klaver, Worcester, Prince Albert Road en Steytlerville het heeltemaal geen reën ontvang nie.

Word die reënval gegewens in Tabel II (vir elke provinsie apart) saamgevat, dan vind ons dat die Kaapprovinsie, die Vrystaat, Natal en die Transvaal tekorte aantoon wat onderskeidelik 14%, 48%, 33% en 44% van hulle gemiddelde normale neerslag bedra. Die winter en somerreënstreke van die Kaapprovinsie het onderskeidelik tekorte van 24% en 22% aangedui, terwyl die streek met reën in alle seisoene (suidelike Kaapse kusstreek) 'n surplus van 26% gehad het. Vir die Unie as 'n geheel was daar 'n tekort van 31%.

Donderbui toestande het oor die TRANSVAAL en NATAL geheers vanaf die 3de tot 10de, en vanaf die 14de tot 20ste;behalwe vir 'n paar donderstorms op die 25ste en 26ste in Natal, het mooi weer geheers tot op die 28ste, waarna hierdie twee provinsies algemene reëns tot op die end van die maand ondervind het; enkele swaar buie was van gedeeltes van Natal gerapporteer. In die VRYSTAAT het daar tot op die 13de net enkele afgesonderde donderbuie uitgesak; ongestadige weer, egter met ontoereikende neerslag het plaasgevind vanaf die 14de tot 19de en op die 24ste,25ste,26ste en 29ste. Dieselfde kan gesê word vir die somerreënstreek van die KAAPPROVINSIE,met egter hierdie verskil, dat die westelike binneland en sommige distrikte in die oostelike Kaapprovinsie meer as hulle normale neerslag ontvang het. Goeie reëns het oor die streek met reën in alle seisoene geval (suidelike kusstreek) op die 6de, 13de, 14de. 20ste en 21ste en weer vanaf die 27ste tot 29ste. Die winterreënstreek het 'n bietjie reën ontvang op 4 geleenthede, nl. op die 9de, 19de, 20ste en 28ste.

HAEL:

Oor die algemeen was hael skynbaar beperk tot Natal en afgesonderde dele van die Kaapprovinsie, en was net op een geleentheid uit die noordoostelike Transvaal gerapporteer. In Natal het kwaai haelstorms voorgekom te Newcastle op die 5de,te Mid Illovo op die 26ste en te Nottingham Road op die 10de. Uit die Kaapprovinsie is haelstorms gerapporteer te Cradock op die 25ste, in die distrik van Oudtshoorn op die 27ste asook te Balfour op die 29ste (sien ook aantekenings van waarnemers)

SNEEU:

Sneeu wat maar baie selde in Januarie voorkom, het op die 22ste op die

Winterberge in die omgewing van Queenstown asook in die nabyheid van Balfour (K.P.) ge val.

DROOGTE:

As gevolg van die algemene tekort aan reën, heers daar, volgens rapporte, droogte in baie distrikte van al vier die provinsies. Die droogte het die noordoostelike, sentrale en westelike dele van Transvaal, die oostelike Vrystaat en 'n groot deel van die suidoostelike binneland van die Kaapprovinsie, die westelike en suidwestelike kusstreke, die meeste getref.

DIE SEISOEN NEERSLAG:

Die seisoen neerslag vanaf die 1ste Julie 1939, gegee as 'n persentasie van die normaal word naasteby aangedui op Kaart IV. Die Kaapprovinsie, die Vrystaat, Natal en die Transvaal het surplusse van respektiewelik 10%, 4%, 12% en 18% van die normale reënval vir hierdie periode gehad. Die somerreënstreek en die streek met reën in alle seisoene het surplusse van respektiewelike 13% en 25% gehad, terwyl die winterreënstreek 'n tekort van 12% aangetoon het. Vir die Unie as geheel was daar 'n surplus van 13%

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U N I O N O F S O U T H A F R I C A

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

Vol XXI JANUARY 1940 No 1

GENERAL:

Mean temperatures below normal over the Transvaal and bordering districts of the Free State and Bechuanaland. Precipitation disappointing - well below normal over the Union as a whole. An unusual fall of snow occurred on the 22nd on the mountains of the southeastern Cape. Frequent local thunderstorms.

PRESSURE:

The distribution of mean atmospheric pressure is shown on Chart I. Mean pressure was above normal over the whole Union with the largest departures in the western interior Cape Province and the western and northern Transvaal.

TEMPERATURE:

The departures of the mean monthly temperatures from the normal, are shown on Chart II. It will be noticed that the mean temperature was above normal over the greater portion of the Cape Province, the western Free State, the coastal belt of Natal and over the northern borders of the Transvaal; over the remainder of the Union temperatures were subnormal.

The general mean temperature for the Union as a whole (as computed from the data of a number of selected stations) was 72.7°F, or 0.1° above normal. The Trans-

vaal and Natal considered separately, showed mean temperatures below the normal by 0.6° and 0.1° respectively, whilst for the Cape Province the mean temperature was 0.5° above normal; the mean temperature for the Free State showed no deviation from the normal.

The mean maxima, or day-temperatures, were below normal over the coastal belt of the western Cape Province, over limited areas of the interior Cape Province, over Bechuanaland and neighbouring portions of the Free State and Transvaal and over the interior of Natal and the eastern Transvaal. Over the remainder of the Union the mean maxima were above normal. The largest positive departures (2°-4°) occurred over the coastal belts of the southern and the southeastern Cape Province.

The mean minima, or night-temperatures, were subnormal mainly over the three northern provinces and over some of the northern and eastern districts of the Cape Province.

The general mean maximum for the Union as a whole was 85.3°F or 0.5° above, and the mean minimum 60.1°F, or 0.3° below the normal.

The warmest periods of the months fell on or about the 6th, the 10th to the 14th and the 22nd. The following are some of the highest temperatures registered in each of the provinces: 113° at Goodhouse(C.P.) on the 13th; 111° at Komatipoort(Tvl.) on the 22nd; 99° at Otobotini (Natal) on the 10th, and 101° at Kroonstad (O.F.S.) on the 14th.

The lowest temperatures occurred on the 1st and from the 21st to the 24th. The following are some of the lowest minima registered in each of the provinces: 36.6° at Grootfontein (C.P.) on the 23rd; 42° at Belfast (Tvl.) on the 1st; 51° at Dundee and Vryheid (Natal) on the 23rd and 39° at Fauresmith (O.F.S.) on the 23rd.

PRECIPITATION:

The distribution of precipitation expressed as a percentage of the normal is roughly shown on Chart III. The precipitation was above normal over the western interior Cape Province including western Bechuanaland, the southern coastal zone, a small area of the interior eastern Cape Province, northern Natal and southern Swaziland. Over the remainder of the Union the rainfall was well below normal. Areas in the neighbourhood of Clanwilliam, Klaver, Worcester, Prince Albert Road and Steytlerville received no rain at all.

Combining the rainfall data in Table II for each province separately, we find that the Cape Province, Free State, Natal and Transvaal showed deficits amounting respectively to 14%, 48%, 23% and 44% of their mean normal precipitation. The winter rainfall zone and the summer rainfall zone of the Cape showed deficits of 24% and 22% respectively, whilst the "all-seasons" rainfall zone showed a surplus of 26%. The mean precipitation of the Union as a whole was deficient by 31%.

Thunder conditions prevailed over the TRANSVAAL and NATAL from the 3rd to the 10th and from the 14th to the 20th. Except for thunderstorms on the 25th and 26th in Natal fine weather prevailed up to the 28th, after which general rains fell.

Some heavy downpours were reported from parts of Natal. Up to the 13th only very occasional thunderstorms occurred in the FREE STATE; unsettled weather with rather disappointing precipitation occurred from the 14th to the 19th, and on the 24th, 25th, 28th and 29th. The same may be said for the summer rainfall area of the Cape Province, with however this difference that the western interior and some of the districts in the eastern interior received more than their fair share of rain. Good rains fell over the "all seasons" rainfall area on the 6th, 13th, 14th, 20th, 21st and from

the 27th to the 29th. The winter rainfall area had rain on 4 occasions, viz. the 9th, 19th, 20th and the 28th.

HAIL:

On the whole, hail seems to have been limited to Natal and isolated areas of the Cape Province, and was only reported on one occasion from the northeastern Transvaal. In Natal severe hailstorms occurred at Newcastle on the 5th, at Mid Illovo on the 25th and at Nottingham Road on the 10th. In the Cape Province severe hailstorms causing damage, were reported from Cradock on the 25th, from the district of Oudtshoorn on the 27th and from Balfour on the 29th. (See observers' notes).

SNOW:

A very unusual occurrence during January; fell on the 22nd on the Winterberg Mountains in the vicinity of Queenstown, and in the neighbourhood of Balfour (C.P.).

DROUGHT:

Owing to an almost general shortage of precipitation, drought conditions were reported to exist in many districts of all four provinces. In this respect, the northeastern, central and western parts of Transvaal, the eastern Free State, and a large portion of the southeastern interior Cape Province and western and southwestern coastal belts of the Cape Province, were the worst off.

THE SEASONAL PRECIPITATION:

The seasonal precipitation since 1st July 1939, expressed as a percentage of the normal is roughly shown on Chart IV. The Cape Province, Free State, Natal and Transvaal showed surplusses amounting respectively to 10%, 4%, 12% and 18% of their normal rainfall for the same period. The summer rainfall zone, and the "all seasons" rainfall zone had surplusses of 13% and 25% respectively, whilst the winter rainfall zone showed a deficit of 12%. For the Union as a whole there was a surplus of 13%.

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AANTEKENINGE VAN WAARNEMERS VIR JANUARIE 1940.
OBSERVERS' NOTES FOR JANUARY 1940

KRUGERSDORP (CORONATION PARK). This is the driest January on record here since 1935 and the hottest on record since 1933. The mean average temperature was 68.5° against an average of 67.4° for the past 30 years. Rainfall was 2.48" on 11 days against an average of 5.52" on 15 days for the past 37 years. Walter W. Webster.

EVERARD ST. (ERMELO): Hot, dry spell after downpour on December 26th caused vegetation to wither, but at the moment everything in the garden is lovely. Rainfall was 4.73" on 14 days. R.N. Marilliar.

"PRETORIA FARM"(PIETERSBURG): Conditions very droughty during whole month; morning temperatures considerably below normal owing to the number of cloudy mornings, sun only appearing after midday; afternoons hot. Total rainfall was 0.81" on 7 days. R. Bendoll.

LOSKOP (IRRIGATION WORKS): Temperatures varied between 97.2°F and 55.5°F; rain fell on 13 days totalling 2.19"; very little wind and moderately warm. The Resident Engineer.

POTCHEFSTROOM: Very hot and dry with a moderate westerly by southerly breeze. 0.29" on 2 days. The Health Inspector.

POTCHEFSTROOM:- Die uitstaande kenmerke van die maand was die aantal dae met hoë temperature waaronder plante baie swaar gekry het. Die 2.29" reën op 7 dae kon nie veel doen nie daar dit in bietjies geval het. Die 0.81" op die 29ste het die oeste gered.
J.J. du Toit.

PALAPYE: There has been a severe drought during the month, with a daily moderate north-easterly wind. Light rain fell on the 16th, 19th and 20th. Heavy drizzles on the 30th and 31st. Total rainfall was 1.81" on 5 days.
D.R. Owen.

ARMOEDSVLAKTE(VRYBURG):- Vir die eerste 16 dae was die maksimum temperatuur oor 90°. Vir 10 van die 16 dae was dit oor 95° en dit het die absolute maksimum van 98° op die 9de bereik. Reënval vir die maand was 3.00" op 12 dae.
R.J.J. Briel.

MESSINA:- January appeared to be a very dry and hot month,but we were fortunate to have 2.06" of rain during the night of the 30th, which brought the temperature down considerably - the maximum temperature on the 31st being 77.23°F. 2.40" fell on 3 days.
J.J. Rheeder.

UPINGTON:- Hoogste maksimum vir hierdie somer 106.2° aangeteken op die 13de. Swaar neerslag van 2.24" op die 17de. Mooi reëns dwarsdeur die distrik op die 27ste. Behalwe vir 'n paar warm dae was dit oor die algemeen koel. Totale reënval was 2.72" op 3 dae.
S. Malan.

KIMBERLEY(AERO):- Rain chiefly from thunderstorms. Development of thunder conditions was frequently evident by noon. High temperatures, low humidity and thunder conditions usually developed at 3 p.m. Wind usually light in the evening. 1.84" fell on 9 days.
J. C. Gwayde. Met.Asst.

WEPENER:- A very hot and dry month with only 0.85" rain on 11 days - the driest January for over 25 years. Good rains would be very welcome as this has been the second dry month in succession this summer. Very low pressure was recorded on the 21st, 25.089" and 25.058" at 3 p.m. The period of low pressure being from 3 p.m. on the 20th to 3 p.m. on the 21st, after which pressure rose sharply.
W.Kemm. F. R. Met. Soc.

ESTCOURT:- Very dry and hot with occasional showers, insufficient to supply the demands made by growing plants. Total rainfall was 4.86" on 12 days.
Oliver West.

CRADOCK:- Very warm during the month. The wind has been very changeable. Good rainfall of 4.13" on 6 days. Heavy hailstorm on the 25th.Lot of damage done to lands and stock; farmers suffered heavy losses.
M.Z. van Heerden.

QUEENSTOWN:- Very hot days during early part of month. Rain fell on 11 days totalling 3.59", the heaviest fall of 1.09" was on the night of the 29th. During the storm lightning struck the power station and the town was without supply for about half an hour.An exceptionally cold spell experienced round about the 22nd. Dry snow was reported from the Winterberg.
The Curator.

PORT SHEPSTONE:- The weather during month has been very sultry and dry. A considerable amount of haze prevalent. 1.12" of rain fell on 11 days.
H.W. Mantle.

MARALAPYE:- Terribly hot and dry. Veld burning up, trees withering. 0.73" on 4 days.
Miss M. Giles.

NOTTINGHAM ROAD:- Steady rains wanted. On 10th hail fell biggest ever remembered.4.84" on 17 days.
Miss E. Smythe.

MATROOSBERG AERO:- Sigbaarheid merkbaar verminder deur veldbrande, anderséins maar droog en enige besondere warm dae. 0.18" op 1 dag.
S.J.P. Bosua.

KOPJE ALLEEN:- Though the January rainfall 3.69" on 11 days was 0.76" below normal, the cumulative rainfall since 1st October 16.68" on 44 days was 1.94" and 4 days above the average. On the 16th 1.70" was registered at the house-gauge and 2.10" at the lands-gauge. This was accompanied by one of the severest thunderstorms experienced here for years. J. Lyall Soutter, F.R.Met.Soc.

MOSSELBAY(AERO):- Barometer very low on the 20th. High southwesterly wind in afternoon at 15.00, followed by rain. Thunderstorm with lightning on the 27th at 18.00 approaching from west - rain - no hail. Total rainfall 2.11" on 9 days. J.A. Meyer. Met. Asst.

MODDERPOORT(LADYBRAND):- A dry month, the rainfall being considerably below average. During the first half of the month the continuance of the drought was having very marked effects on vegetation, everything being parched and dry. Welcome rains fell between the 14th and 17th, which considerably improved the vegetation. More rain is needed. 1.94" fell on 9 days. Maximum temperatures above average. John W. Eddolls.

UMBOGINTWINI(KYNOCH FACTORY):- In general the month was windy, exceedingly hot and very dry. 1.32" fell on 13 days. The Manager.

WALVIS BAY:- Afternoons were mainly clear except during a cloudy spell during the last week of the month. Pressure was lower than usual during latter three weeks of the month. Thunderstorm occurred to the south of Walvis Bay at 11 p.m. on the 31st. 0.04" on 1 day. J.J. Taljaard.

RUSTENBURG(INDUSTRIESKOOL):- Oor die algemeen was die maand baie warm. Die bietjie reën wat geval het was gepaard met swaar weer. 1.71" op 7 dae. S.J.B. Haasbroek.

HARTEBEESTPOORT(EXPERIMENT STATION):- Hot and dry. Drought conditions prevailed. Crops and tobacco retarded in growth, while maize was definitely injured. 2.22" on 8 days. A.M. du Toit.

ZEERUST:- 1.40" of rain fell on 10 days. Drought still severe in some parts of the district. The Gaoler.

KROONSTAD(GRAANSTASIE):- Die reënval vir die maand was baie onder normaal. Die droogte op hierdie kritieke stadium van die mielies het heelwat skade veroorsaak. 1.58" is aangeteken op 8 dae. D.J. van den Berg.

FAURESMITH(VELD RESERWE):- Die maand is gekenmerk deur 'n paar baie warm dae en ook 'n paar warm nagte. Oor die algemeen was die nagte koel. Die wind was matig. 1.72" reën is aangeteken op 6 dae. A.J. v.d. Walt.

SEODIN(KURUMAN):- Eerste helfte van die maand was baie droog en warm; reën bring tydige uitkoms. Nag van 13de warmste en benoudste. 2.36" is aangeteken op 10 dae. D.A. Schoonees.

PRIESKA:- This month was very hot and dry. Some parts of the district had good rains, although we had only 0.81" on 8 days at the station. The highest temperature was 107.0° on the 12th, while the lowest was 51.4° on the 22nd. S.K. Visser.

BADPLAATS:- Oor die algemeen lekker dae, met die uitsondering van 'n paar warm dae. 6.45" reën is aangeteken by die polisie-stasie. Veld en vee in goeie kondisie. I. van Rooyen.

MIDDELBURG(TVL):- This has been a particularly dry month. 2.83" of rain on 11 days. V.P. Rose.

BENONI:- The month of January has been dry and sultry, although on many days there were good indications of rain. Only 2.33" fell on 9 days.

BENONI:- Unless good rains are recorded shortly, mealie crops in the district will be a failure. C.R. Begley.

ANDRIESFONTEIN(HANOVER):- The month has been very hot and dry. Hot northwesterly wind blowing. 0.47" of rain on 4 days. H. v.d. Merwe.

DOHNE(STUTTERHEIM):- *Die weer was droog en baie warm met dreigende donderstorms, maar nie met reën nie, behalwe op die 29ste.* 3.82" is aangeteken op 7 dae. J.J. Krüger.

HILL CREST:- Exceptionally hot for long periods during the month. Rainfall well below average. 2.10" on 15 days. V.S. Parker.

IMONT(MID-ILLOVO):- Although rain fell on fourteeen days, this district has suffered a short drought, (1.40" instead of over 5.00") adversely effecting the maize crop, more especially in the deeper valleys. A thunderstorm on the 26th did not reach this station but nearly 3.00" fell about nine miles westward; hail causing considerably damage to poultry. 1.40" on 13 days. Lt. Col. J.W. Montgomery C.M.G. D.S.O

NEWCASTLE:- Frequent thunderstorms during month. Total rainfall 4.70" on 10 days. Heavy hail on the 5th. Not much damage at station, but neighbouring farmers suffered heavy losses. Sister M. Scholastica.

MOHEMBO(B.P.):- Days and nights uncomfortably hot. Thunderstorms commencing between 6 p.m. and 6.30 PM in some instances accompanied by high velocity winds. Trees were uprooted or branches broken off. 10.06" on 11 days. K.A. Lowry.

"HEATHERGLEN"(GRAHAMSTOWN):- Drought now severe. Cattle falling off in condition River almost dry - maize burnt up. 1.14" on 8 days. T.W. Gleaves.

PARADYS:- Rainfall fairly well distributed; a few oppressive days; occasional strong winds of short duration. 4.20" on 10 days. J. Loubser.

GEORGE:- It was very dry up to the 20th of the month with only 0.62" of rain but from the 20th to the 29th 2.39" fell. Total rainfall for month 3.01" on 12 days. The Government Forester.

OUDTSHOORN:- Strong gale on the 27th shortly after 4 p.m., followed by a duststorm. A number of trees were uprooted; cloud-burst and hail in the district and heavy damage done. 0.72" on 3 days. The Mother Superior.

SLENT:- Mostly typical January weather - dry with southerly winds increasing in force in afternoon, followed by calm during night; though on three occasions rain threatened and was accompanied by a cooling of the atmosphere. 0.04" on 1 day. R.W. Short.

PADDOCK:- A dry month for this time of the year. From the 10th to the 28th only one fall of 0.10" was recorded on the 15th. On the 29th when rain fell the strain of the dry spell was relieved. 2.87" on 9 days. I.F. Harrison.

SANDFLATS(MT. CURRIE):- Hot and dry spells have been experienced between rains, notably from the 8th to 18th, during which period heavy falls occurred, which, although not of much use to the veld, rendered the lands boggy. Lighter rains later have been more beneficial to the veld, and have not allowed the lands to dry out. 4.07" of rain on 11 days. Maximum temperature above normal. H. B. Corderoy.

LOVEDALE:- The first 3 weeks very dry and only at the end of the month did real rain come. The rainfall was 2.24" on 8 days. Temperatures very high. C. Pilson.

BALFOUR:- A month of drought, excessive heat, cold with snow on the mountains on the 22 nd and a heavy downpour of rain accompanied by small hail in the afternoon of the 29th

2.70" on 7 days. E.W. Hulse.

MARSH MOOR(MOLTENO): This has been a very disappointing month with regard to rain. Isolated storms have fallen in the neighbourhood. Weather has worked up very promisingly but on every occasion its all gone over with just a light shower. Veld conditions very dry. 1.04" on 9 days. F. S. Pope.

GROOTFONTEIN LANDBOUKOLLEGE: Gedurende die tweede helfte van die maand was temperature oor die algemeen laer; kanse vir reën het verbeter, alhoewel die neerslag maar baie swak was en nie veel gehelp het nie. 1.14" op 10 dae. W. v.d. Merwe.

SEBATA(VRYBURG): Die veld is baie sleg, die vee se kondiesie is baie swak. Die boere in die omgewing het byna niks geploeg nie en die gesaaides is besig om te verdroog. Op 6 dae is 1.96" aangeteken. C.J. de Lange.

UITKYK(KROONSTAD): Die reënval was baie min maar oor die algemeen sag. Die gesaaides kry baie swaar onder die droogte. Reënval 1.75" op 4 dae. B. Marais.

SLANGFONTEIN(JAGERSFONTEIN): Toestand word hoe kritiek. Veld kaal en droog. Reënval 0.66" op 2 dae. A.B. du Toit

ROOSSENEKAL(MIDDELBURG TVL.): Swakste neerslag in 30 jaar vir Januarie. Reënval 1.65" op 9 dae. J.N. v.d. Westhuizen.

HEATHFIELD(THABA'NCHU): A record low rainfall for January according to my records. Rainfall 1.51" on 7 days. F. Nicholson.

STERKFONTEIN(WATERBERG): Very hot and dry, much damage to maize crops. Rainfall 3.86" on 6 days. F.L. Ravenswaay

ELBA(BLOEMFONTEIN): Owing to the dry hot weather the advanced maize crops are practically a failure. Rainfall 0.77" on 8 days R.F. Duminy.

ZANDRIVIER(WATERBERG). Very hot and dry month, crops have suffered a lot, but are improving due to rain on 30th. Rainfall 1.79" on 5 days. R.M. Armstrong

SKOONHEID(WINTERSBURG): Die mielie oes is 'n totale mislukking in die nabyheid van Virginia weens droogte Reënval 0.44" op 1 dag H.J. de Necker.

SHOTTERNIL(FAURESMITH): A month of terrific heat; unless rain falls almost immediately much of mealie crop will be ruined. Rainfall 1.93" on 9 days. S.C. Holland.

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TABEL I - TEMPERATUUR EN BEWOLKTHEID - JANUARIE 1940.
TABLE I - TEMPERATURE AND CLOUDINESS - JANUARY 1940.

Resultate van waarnemings om 0830 S.A. Standaard Tyd.
Results of observations at 0830 S. A. Standard Time.

STASIE STATION	LUG TEMPERATUUR IN °F : AIR TEMPS. IN °F.								AANTAL DAE: NO. DAYS						BEWOLKTHEID: CLOUDINESS				
	Gem. Mean Max.	Gem. Mean Min.	Gem. Mean	Vers. Diff Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Onder: Min. Below: 37	32	27	Max. Bo Max. Ab. 90	95	100	Gem. Mean	Aantal dae: No. d 0-1	2-5	6-9	10
KAAPPROVINSIE: CAPE PROVINCE:																			
ALIWAL NOORD	86.8	-	-	-	96.0	13	-	-	0	0	0	11	2	-	2	21	7	3	0
BEAUFORT WES	90.1	61.1	75.6	+0.7	101.1	6	47.3	22	0	0	0	18	8	1	2	19	6	4	2
BRITSTOWN	92.0	60.9	76.5	-0.2	101.0	13	41.5	23	0	0	0	15	8	2	2	17	8	1	1
KAAP L'AGULHAS	76.3	64.3	70.3	+1.9	80.0	28	57.0	22	0	0	0	0	0	0	4	6	15	8	1
CALA	82.0	56.4	69.2	+0.3	97.0	6	43.0	23	0	0	0	7	1	0	5	10	7	9	3
CARNARVON	90.2	59.5	74.9	+0.3	99.2	13	44.4	22	0	0	0	20	6	0	3	11	5	5	5
CERES	86.0	56.1	71.1	-1.0	95.0	12	46.0	22	0	0	0	11	2	0	2	20	5	6	0
CRADOCK	87.4	58.1	72.8	+0.7	100.0	14	47.0	23	0	0	0	13	4	2	4	8	13	10	0
CLANWILLIAM	98.4	62.6	80.5	+2.0	105.0	5	50.0	22	0	0	0	28	25	18	2	19	7	5	0
DEEPWALLS	73.9	58.6	66.3	+0.8	86.7	27	52.0	23	0	0	0	0	0	0	5	10	7	6	3
OOS LONDEN	79.8	64.5	72.2	+2.0	84.0	19	56.0	30	0	0	0	0	0	0	5	6	12	10	3
GOODHOUSE	103.6	71.1	87.4	+0.1	112.0	13	59.0	22	0	0	0	31	28	26	1	25	5	1	0
GRAAFF-REINET	90.5	60.6	75.6	+0.2	105.6	6	47.3	23	0	0	0	18	6	2	4	15	3	10	3
GRAHAMSTOWN	81.9	56.3	69.1	+1.5	99.2	28	46.5	23	0	0	0	3	3	0	4	9	9	11	2
GT. DRAKENSTEIN	85.7	60.3	73.0	-0.1	98.0	12	50.2	23	0	0	0	10	2	0	2	17	11	3	0
GROOTFONTEIN(KP)	85.6	52.9	69.3	-1.7	97.2	13	36.6	23	1	0	0	8	3	0	4	15	3	10	3
HOPETOWN	92.9	63.2	78.1	+0.1	102.0	6	50.0	22	0	0	0	25	13	3	3	14	12	5	0
IDUTYWA	79.6	57.8	68.7	+1.5	97.0	28	45.0	22	0	0	0	3	2	0	5	11	5	4	11
KENHARDT	96.3	66.8	81.6	±0.0	106.0	12	55.0	22	0	0	0	28	21	8	1	21	9	1	0
KIMBERLEY AERO	92.2	63.5	77.9	+1.5	103.2	13	51.4	22	0	0	0	22	16	4	3	16	7	7	1
KING W'STOWN	84.4	61.5	73.0	+0.9	104.0	28	50.0	23	0	0	0	5	3	1	6	4	11	10	6
KLAVER	88.2	60.7	74.5	-1.1	97.5	5	56.9	23	0	0	0	14	7	0	3	17	5	8	1
KOKSTAD	79.3	55.2	67.3	+0.4	91.8	7	43.2	23	0	0	0	2	0	0	5	9	10	7	5
KURUMAN(SEODIN)	87.8	59.7	73.8	-1.0	98.0	2	51.0	22	0	0	0	16	4	0	8	0	3	27	1
MATROOSBERG AERO	83.2	52.9	68.1	+0.9	94.2	27	42.6	22	0	0	0	3	0	0	2	20	8	3	0
MAFEKING	87.2	61.2	74.2	-0.5	95.6	11	51.0	23	0	0	0	13	3	0	4	4	15	12	0
MOSSELBAAI	78.9	65.7	72.3	+2.8	85.0	31	54.0	22	0	0	0	0	0	0	5	6	13	9	3
O'OKIEP	87.7	59.6	73.7	+0.3	98.0	5	48.0	8	0	0	0	11	6	0	1	22	6	3	0
OUDTSHOORN	89.8	59.2	74.5	+0.4	104.0	27	50.0	22	0	0	0	18	8	1	2	22	4	5	0
PORT ELIZABETH	78.9	62.0	70.5	+0.4	92.5	28	48.2	23	0	0	0	1	0	0	5	10	9	10	2
PORT NOLLOTH	66.3	53.9	60.1	+0.1	72.0	22	49.0	23	0	0	0	0	0	0	6	8	7	4	12
PORT ST. JOHNS	77.4	67.4	72.4	-0.3	85.0	3	60.0	23	0	0	0	0	0	0	7	2	10	13	6
POSTMASBURG	89.4	64.5	77.0	+0.8	100.2	12	51.0	22	0	0	0	17	7	1	3	13	10	6	2
PRIESKA	96.4	65.4	80.9	-0.3	107.0	12	51.4	22	0	0	0	27	21	10	3	19	4	5	3
QUEENSTOWN	84.2	57.6	71.9	-0.1	100.0	3	44.0	23	0	0	0	10	4	1	5	7	10	5	8
RIETPOORT	85.0	58.5	71.8	-0.5	98.0	31	51.0	22	0	0	0	7	1	0	3	15	7	5	4
SOMERSET OOS	88.0	59.8	73.9	+3.4	101.2	27	45.4	23	0	0	0	15	3	2	4	13	9	6	3
SUTHERLAND	82.5	51.4	67.0	-0.3	90.0	13	42.0	21	0	0	0	2	0	0	2	19	9	3	0
UITENHAGE	86.8	60.7	73.8	+2.0	102.0	28	45.6	22	0	0	0	8	2	1	3	17	5	8	1
UMTATA	82.7	59.4	71.1	+0.4	95.0	3	48.0	23	0	0	0	5	1	0	6	3	4	5	10
UPINGTON	95.2	65.7	80.5	-2.0	106.2	13	54.2	22	0	0	0	25	16	8	2	23	4	3	1
VAN WYKSVLEI	94.2	63.1	78.7	+0.3	105.0	13	49.6	22	0	0	0	24	16	6	3	13	10	6	2
VICTORIA WES	88.6	59.0	73.8	+2.3	99.0	13	45.0	22	0	0	0	17	5	0	2	21	2	5	0
VRYBURG	89.8	60.5	75.2	-1.2	98.0	9	48.4	23	0	0	0	15	11	0	4	13	7	10	1
WILLOWMORE	88.0	55.1	71.6	+0.2	100.0	27	44.0	21	0	0	0	14	4	1	2	12	11	3	0
WINGFIELD AERO	79.9	60.4	70.2	+1.9	91.9	13	46.7	22	0	0	0	2	0	0	3	18	6	7	0
O.V.S. : O.F.S.																			
BETHULIE	88.8	56.4	73.6	+0.3	98.0	6	45.0	22	0	0	0	15	5	0	3	9	14	8	0
BLOEMFONTEIN	86.9	58.1	72.5	-1.4	95.4	13	45.4	22	0	0	0	11	1	0	3	16	7	6	2
FAURESMITH	87.3	57.9	72.6	+0.6	96.7	13	39.0	23	0	0	0	10	3	0	3	13	11	6	1
KROONSTAD	88.5	57.9	73.2	+0.3	101.0	14	48.0	1	0	0	0	15	1	0	3	11	13	7	0
LADYBRAND	83.0	53.6	68.3	-0.6	92.0	14	45.0	23	0	0	0	3	0	0	3	16	6	4	5
LINDLEY	88.9	56.1	68.3	-1.2	90.0	13	48.0	22	0	0	0	3	0	0	2	19	9	3	0

TABEL I - TEMPERATUUR EN BEWOLKTHEID - JANUARIE 1940 (VERVOLG).
TABLE I - TEMPERATURE AND CLOUDINESS - JANUARY 1940 (CONTD).

STASIE STATION	LUG TEMPERATURE IN °F : AIR TEMPS. IN °F								AANTAL DAE: NO. DAYS						BEWOLKTHEID: CLOUDINESS					
	Gem. Mean Max.	Gem. Mean Min.	Gem. Mean	Vers. Diff. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Onder: Below 37	32	27	Max. Bo 90	95	Ab. 100	Gem. Mean	Aantal dae: No. days 0	1	2-5	6	9	10
O.V.S. : O.F.S.																					
WEPENER	87.1	58.5	72.8	+1.7	95.4	13	40.0	23	0	0	0	12	1	0	3		15	9	6	1
TRANSVAAL																					
BARBERTON	82.8	63.9	73.4	-0.1	95.0	21	55.2	24	0	0	0	3	1	0	7		5	4	11	11
BELFAST	72.3	50.3	61.7	-0.8	79.0	4	42.0	1	0	0	0	0	0	0	5		10	6	6	9
ERMELO	78.2	52.7	65.5	-0.6	88.0	9	46.0	22	0	0	0	0	0	0	5		11	6	7	7
GERMISTON AERO	79.9	57.6	68.8	-1.7	87.6	10	52.9	23	0	0	0	0	0	0	4		13	8	6	4
HEIDELBERG	81.9	55.0	68.5	-1.2	88.0	10	45.0	1	0	0	0	0	0	0	4		11	7	8	5
KLERKSDORP	85.6	58.8	72.2	-1.2	93.5	10	47.0	2	0	0	0	8	0	0	4		15	3	8	2
KOMATIPOORT	93.3	65.5	79.3	-1.8	111.0	22	52.0	23	0	0	0	20	12	3	5		2	10	14	0
KORSTE ALLEEN	86.3	59.3	72.8	-1.6	94.0	8	50.1	23	0	0	0	9	0	0	4		6	8	11	2
LOUIS TRICHARDT	78.5	53.5	66.5	-2.9	90.0	21	48.0	24	0	0	0	1	0	0	5		12	7	4	3
PRETORIA	92.1	71.1	81.6	+1.9	104.0	27	61.5	24	0	0	0	22	10	4	5		8	6	12	5
MIDDELBURG	81.6	55.2	68.4	-1.3	88.0	8	47.0	24	0	0	0	0	0	0	3		7	5	13	4
POTCHEFSTROOM	85.3	57.8	71.6	-1.7	94.0	8	51.0	24	0	0	0	6	0	0	3		18	10	3	3
PIETERSBURG	81.9	58.2	70.1	-1.4	90.2	4	45.2	24	0	0	0	1	0	0	5		13	3	10	5
PIET RETIEF	79.6	57.7	68.7	+0.1	92.0	9	49.0	24	0	0	0	2	0	0	7		3	4	14	10
PELGRIMSRUS	78.2	57.4	67.8	-0.5	88.9	21	46.0	24	0	0	0	0	0	0	6		7	7	10	7
POTCHEFSTROOM	86.8	58.6	72.7	-0.3	95.5	2	49.0	1	0	0	0	11	3	0	4		9	10	11	0
PRETORIA	82.3	59.4	70.4	-0.8	89.0	8	50.4	24	0	0	0	0	0	0	5		8	10	10	3
STANDERTON	83.5	55.8	69.2	-0.5	89.8	14	47.4	1	0	0	0	0	0	0	5		6	10	11	3
VAALHARTZ	89.1	60.0	74.6	-0.6	98.8	13	49.4	9	0	0	0	15	6	0	4		10	10	8	2
WAKKERSTROOM	78.1	52.1	65.1	+0.8	85.0	14	44.2	24	0	0	0	0	0	0	3		7	7	9	5
ZEERUST	90.4	60.3	75.4	+0.4	101.0	9	52.0	23	0	0	0	19	8	1	4		9	11	6	4
NATAL																					
DUNDEE	82.0	58.5	70.3	-0.1	93.8	7	51.0	23	0	0	0	3	0	0	6		4	11	8	8
DURBAN AERO	81.3	68.5	74.9	+0.5	85.5	14	57.2	24	0	0	0	0	0	0	6		5	8	9	8
KAPANCHT	83.1	67.8	77.0	+0.9	96.5	30	62.5	24	0	0	0	14	2	0	5		4	14	6	6
PINETOWN	80.9	63.3	72.1	+0.0	91.1	14	56.2	22	0	0	0	3	0	0	5		8	5	7	6
ESTCOURT	81.1	58.2	69.7	-1.3	92.0	10	52.0	27	0	0	0	2	0	0	6		1	6	5	8
LADYSMITH	84.3	61.0	72.7	-1.9	95.1	7	53.0	23	0	0	0	4	2	0	5		3	12	5	7
PIETERMARITZBURG	81.0	61.3	71.6	±0.0	91.4	14	54.0	22	0	0	0	4	0	0	5		3	12	5	6
PORT SHEPSTONE	80.4	66.2	74.3	+0.8	87.0	19	57.0	23	0	0	0	0	0	0	6		8	5	12	6
STOBOTINI	89.3	59.3	79.3	+0.4	99.0	10	58.0	24	0	0	0	17	6	0	7		0	10	11	7
STANGER	85.1	67.1	76.1	+1.1	96.0	29	60.0	22	0	0	0	7	3	0	4		11	8	5	7
VRYHEID	80.7	59.4	70.1	-0.9	92.0	10	51.0	23	0	0	0	1	0	0	5		4	16	4	7
WESTEN	86.9	60.6	73.8	-1.5	97.0	10	55.0	23	0	0	0	14	2	0	-		-	-	-	-
BASOETOLAND BASUTOLAND																					
LASERU	84.7	57.6	71.2	+1.6	93.0	13	48.0	22	0	0	0	7	0	0	2		14	13	3	1
MAPHUTSE	80.0	55.5	67.8	-	93.0	6	40.0	28	0	0	0	2	0	0	3		11	15	4	1
MOHALESHOEK	77.9	52.2	65.1	-	84.2	7	41.0	22	0	0	0	0	0	0	4		7	14	9	1
BECHUANALAND : BECHUANALAND																					
MAFEKING	93.9	66.4	78.7	+0.0	102.0	5	51.0	24	0	0	0	27	10	5	4		10	9	3	4
GABERONES	91.1	63.9	77.5	+0.7	100.0	11	57.0	25	0	0	0	22	10	2	4		4	10	5	5
FRANCISTOWN	92.8	65.3	79.1	+1.3	101.0	9	55.0	24	0	0	0	24	12	3	4		11	11	6	3
SWASIELAND : SWAZILAND																					
LOBAMBA	76.8	58.9	67.9	-0.7	89.0	21	49.0	23	0	0	0	0	0	0	5		5	12	5	9

TABEL II : NEERSLAG IN DUIME : JANUARIE 1940.
TABLE II : PRECIPITATION IN INCHES: JANUARY 1940.

STASIE STATION	JAN. 1940.	NORM.	VERSK. DIFF.	%	MAX. HVD. AMT. IN 24U.	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	VANAF - FROM 1.7.1939 % VAN NORM.: OF NORMAL
KAAPPROVINSIE - SOMERREENSTREEK:												
CAPE PROVINCE - SUMMER RAINFALL AREA:												
ALIWAL NOORD	1.35	2.92	-1.57	46	0.50	14	7	5	0	0	0	68
BEAUFORT WES	0.33	0.98	-0.65	34	0.15	28	6	2	0	0	0	88
BRITSTOWN	1.17	1.03	+0.14	113	0.62	29	4	4	0	0	0	164
CALA	2.83	3.42	-0.59	83	1.06	16	8	8	0	0	0	81
CARNARVON	1.14	0.91	+0.23	125	0.87	28	4	4	0	0	0	193
CRADOCK	4.13	1.84	+2.29	224	2.92	26	6	4	1	1	0	150
FRASERBURG	0.69	0.67	-0.08	88	0.40	18	3	3	0	0	0	119
GOODHOUSE	0.04	0.07	-0.03	57	0.02	27	3	0	0	0	0	210
GRAAFF REINET	0.78	1.01	-0.23	77	0.30	17	5	4	3	1	0	171
GRAHAMSTOWN	0.73	2.51	-1.78	29	0.57	20	4	3	0	0	0	88
GRIQUATOWN	1.53	1.69	-0.16	91	1.00	28	5	5	0	0	0	122
GROOTFONTEIN	1.14	1.58	-0.44	72	0.69	29	10	7	0	0	0	146
HANOVER	0.64	1.56	-0.92	41	0.38	29	3	3	0	0	0	133
HOPE TOWN	0.34	1.68	-1.34	20	0.26	17	2	2	0	0	0	155
IDUTYWA	4.39	3.35	+1.04	131	2.92	29	9	9	0	0	0	97
KENHARDT	0.63	0.55	+0.08	115	0.33	27	3	3	0	0	0	198
KIMBERLEY	1.54	2.39	-0.85	65	0.62	29	14	10	9	0	0	92
KINGWILLIAMSTOWN	1.78	2.46	-0.68	72	1.01	29	6	5	0	0	0	96
KOKSTAD	2.47	4.94	-2.47	50	0.65	16	11	9	7	1	0	85
KURUMAN	2.36	2.69	-0.33	88	0.71	30	10	7	4	0	0	151
MATJESFONTEIN	0.64	0.31	+0.33	206	0.64	28	1	1	0	0	0	-
MAFEKING	2.61	3.62	-1.01	72	0.58	17	11	10	0	0	0	128
OOS LONDEN	1.93	2.97	-1.04	65	0.96	7	4	4	1	0	0	76
PHILIPSTOWN	1.11	1.54	-0.43	72	0.75	29	4	3	2	0	0	135
PORT ST.JOHNS	3.60	5.05	-1.45	71	1.13	10	11	10	0	0	0	108
POSTMASBURG	0.86	1.64	-0.78	52	0.38	17	5	5	5	0	0	130
PRIESKA	0.81	1.15	-0.34	70	0.32	27	8	7	0	0	0	130
QUEENSTOWN	3.59	3.22	+0.37	112	1.09	30	11	8	10	0	0	99
SOMERSET OOS	1.28	2.70	-1.42	47	0.60	21	7	6	1	0	0	116
STEYNSBURG	0.88	1.97	-1.09	45	0.41	28	3	3	0	0	0	106
UMTATA	2.88	3.58	-0.70	80	0.55	8	11	10	0	0	0	97
UPINGTON	2.72	0.79	+1.93	344	2.24	17	3	2	6	1	0	293
VAN WYKSVLEI	1.04	0.54	+0.50	193	0.83	28	4	3	4	0	0	268
VICTORIA WES	0.51	1.05	-0.54	49	0.38	29	3	2	0	0	0	128
VRYBURG	3.43	3.78	-0.35	91	0.99	19	10	10	0	0	0	123
KAAPPROVINSIE : WINTERREENSTREEK												
CAPE PROVINCE : WINTER RAINFALL AREA:												
CALEDON	0.30	0.86	-0.56	35	0.17	21	4	2	0	0	0	90
CALVINIA	0.79	0.31	+0.48	255	0.77	29	2	1	1	0	0	178
CERES	0.86	0.97	-0.11	89	0.85	21	2	1	0	0	0	73
CLANWILLIAM	0.00	0.19	-0.19	0	0.00	0	0	0	0	0	0	92
CARIES	0.07	0.12	-0.05	58	0.07	20	1	1	0	0	0	150
GROOT DRAKENSTEIN	0.14	1.02	-0.88	14	0.09	20	2	2	0	0	0	84
KAAPSTAD (ROYAL OBS)	0.16	0.66	-0.50	24	0.13	20	3	1	0	0	0	76
KAAP'L' AGULHAS	0.49	0.75	-0.26	65	0.15	20	6	5	0	0	0	84
D'OLIEP	0.16	0.17	-0.02	88	0.09	27	2	2	0	0	0	173
PIQUETBERG	0.87	0.56	+0.31	156	0.87	20	1	1	0	0	0	50
PORT NOLLOTH	0.04	0.06	-0.02	66	0.04	21	1	1	0	0	0	121
RIETPOORT	0.11	0.03	+0.08	367	0.09	20	2	1	0	0	0	169
SUTHERLAND	0.85	0.48	+0.37	177	0.46	18	4	4	0	0	0	126
WORCESTER	0.00	0.04	-0.04	0	0.00	0	0	0	0	0	0	74
CLANWI	0.00	0.06	-0.06	0	0.00	0	0	0	0	0	0	125

TABEL II : NEERSLAG IN DUIME : JANUARIE 1940. (VERVOLG)
TABLE II : PRECIPITATION IN INCHES: JANUARY 1940. (CONTD.)

STASIE STATION	JAN. 1940	NORM.	VERSK. DIFF.	%	MAX. HVD. AMT. IN 24U.	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH. K	H. ▲	S. ✱	VANAF -- FROM 1.7.1939 % VAN NORM. : OF NORMAL
STREEK MET REEN DWARSDEUR DIE JAAR: ALL-SEASONS RAINFALL AREA:												
DEEPWALLS	6.63	4.40	+2.23	151	1.72	21	11	11	1	0	0	112
GEORGE	3.28	2.97	+0.31	111	0.94	21	9	7	2	0	0	130
MOSSELBAAI	1.69	1.10	+0.59	154	0.77	21	9	5	2	0	0	118
OUDTSHOORN	0.81	0.21	+0.60	386	0.38	27	3	3	0	0	0	124
PORT ELIZABETH	1.79	1.17	+0.62	153	1.09	21	8	7	1	0	0	116
SWELLENDAM	1.40	2.24	-0.84	63	0.82	28	3	3	0	0	0	98
SYDNEY'S HOPE	1.38	1.96	-0.58	70	0.81	20	4	4	0	0	0	163
UITENHAGE	0.80	1.17	-0.37	68	0.45	22	6	4	0	0	0	162
UNIONDALE	2.21	0.68	+1.53	325	0.89	27	5	5	1	0	0	149
TRANSVAAL:												
ALASKA (L.TRICHARDT)	3.66	5.36	-1.71	68	1.45	30	7	6	1	0	0	118
BARBERTON	5.17	5.70	-0.53	91	1.71	18	14	13	8	0	0	117
BELFAST	2.93	5.41	-2.48	54	0.91	15	10	10	11	0	0	134
BETHAL	5.07	4.96	+0.11	102	1.17	14	12	10	1	1	0	121
BLOEMHOF	2.79	3.22	-0.43	87	1.08	30	10	9	0	0	0	145
ELIM HOSPITAAL	1.97	6.66	-4.69	30	1.30	31	5	5	0	0	0	93
ERMELO	2.84	4.97	-2.13	57	0.90	14	11	11	0	0	0	-
HAENERTSBURG	1.05	8.15	-7.10	13	0.40	29	4	4	0	0	0	113
HEIDELBERG	4.34	4.64	-0.30	94	1.24	19	14	12	0	0	0	140
JOHANNESBURG OBS.	2.12	5.46	-3.34	39	0.53	15	11	9	1	0	0	113
JOUBERT PARK	3.16	6.17	-3.01	51	1.01	15	10	10	2	0	0	108
KLERKSDORP	2.69	4.24	-1.55	64	1.01	16	8	7	3	0	0	128
KOMATIPOORT	0.30	4.83	-4.53	6	0.18	11	2	2	1	0	0	100
KOPJE ALLEEN	3.69	3.80	-0.11	97	1.70	16	11	10	0	0	0	140
LICHTENBURG	3.16	4.54	-1.38	70	1.03	6	9	9	2	0	0	110
MESSINA	2.40	3.28	-0.88	73	2.06	31	3	3	0	0	0	129
MIDDELBURG	2.83	5.20	-2.37	54	1.06	20	11	8	8	1	0	127
NYLSTROOM	4.11	5.09	-0.98	81	1.66	31	8	8	0	0	0	130
PIETERSBURG	2.34	3.88	-1.54	60	0.64	18	9	6	1	0	0	160
PIET RETIEF	3.42	5.95	-2.53	58	1.42	16	9	9	0	0	0	-
PELGRIMSRUS	5.33	7.81	-2.48	68	2.36	30	13	7	6	2	0	124
POTCHEFSTROOM	2.29	4.24	-1.95	54	0.81	29	7	7	0	0	0	93
PRETORIA	1.63	5.22	-3.59	31	0.36	31	12	8	12	0	0	116
ROOIBERG	4.66	4.88	-0.22	96	1.14	30	11	9	2	0	0	127
RUSTENBURG	1.33	4.91	-3.58	27	0.37	30	9	7	0	0	0	128
STANDERTON	3.29	4.81	-1.52	68	0.90	6	14	12	11	2	0	109
VILLA NORA	2.16	3.57	-1.41	61	1.26	18	3	3	0	0	0	139
WAKKERSTROOM	2.18	5.17	-2.99	42	1.13	14	10	7	5	0	0	88
WOODBUSH	5.40	14.88	-9.48	36	1.00	30	18	14	5	0	0	111
ZWARTKOP	1.51	4.18	-2.67	36	0.38	19	10	9	0	0	0	93
O.V.S. : O.F.S.												
BETHULIE	0.70	2.60	-1.90	27	0.27	29	8	4	0	0	0	87
BLOEMFONTEIN	0.85	3.55	-2.70	24	0.36	29	7	7	5	0	0	115
BOSHOF	2.17	2.87	-0.70	76	0.55	17	9	8	0	0	0	108
FAURESMITH	1.72	2.16	-0.44	80	0.47	25	6	6	1	0	0	101
KROONSTAD	1.68	3.91	-2.23	43	0.51	3	7	5	0	0	0	108
LADYBRAND	1.59	4.32	-2.73	37	0.34	14	10	10	7	0	0	110
LINDLEY	3.68	4.17	-0.49	88	1.03	14	8	8	0	0	0	112
VREDE	3.67	4.68	-1.01	78	0.75	4	12	12	0	0	0	104
WINBURG	2.11	3.77	-1.66	56	0.85	30	7	6	11	0	0	110
WEPENER	0.85	4.51	-3.66	19	0.30	29	11	5	7	0	0	88

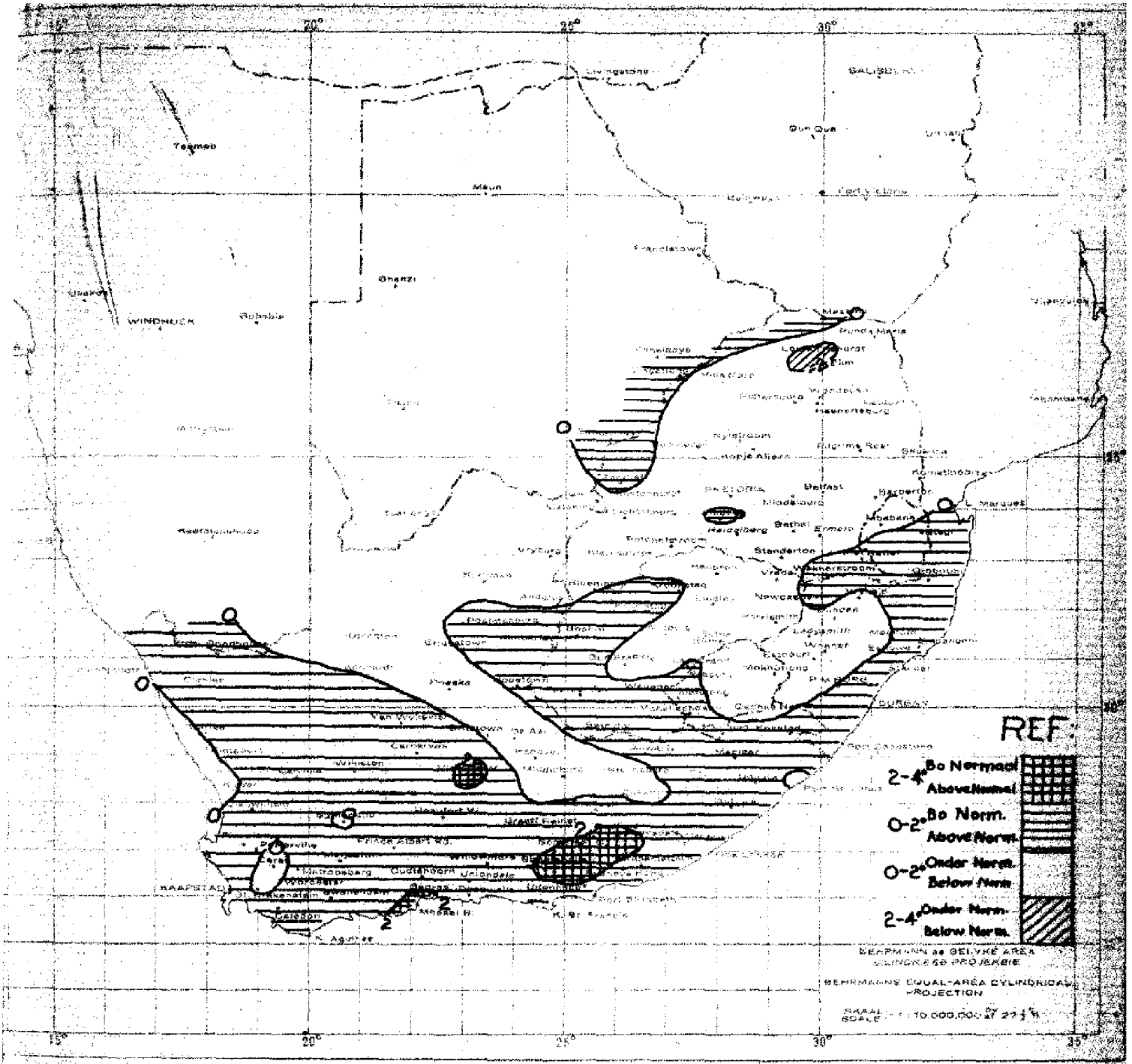
TABEL II - NEERSLAG IN DUIME : JANUARIE 1940.
TABLE II - PRECIPITATION IN INCHES : JANUARY 1940.

STASIE STATION	JAN. 1940	NORM.	VERSK. DIFF.	%	MAX. HVE AMT. IN 24U	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	VANAF - FROM 1.7.1939 % VAN NORM: OF NORM.
									K	▲	✱	
NATAL:												
DUNDEE	2.18	5.43	-3.25	40	0.65	14	12	11	0	0	0	114
DURBAN	2.39	4.59	-2.20	52	1.14	30	7	7	0	0	0	122
EMPANGENI	4.60	5.15	-0.65	87	2.84	30	11	10	0	0	0	112
ESHOWE	6.55	7.51	-0.96	87	2.25	30	12	11	4	0	0	103
ESTCOURT	4.86	5.37	-0.51	90	1.11	7	12	11	6	1	0	102
LADYSMITH	2.70	5.29	-2.59	51	0.72	27	8	8	5	0	0	114
MELMOTH	3.01	4.60	-1.59	65	1.17	30	8	6	0	0	0	120
OTOBOTINI	2.27	2.81	-0.54	81	0.60	29	10	9	0	0	0	128
PIETERMARITZBURG	3.19	5.56	-2.37	57	0.62	17	19	15	11	0	0	106
PORT SHEPSTONE	1.12	4.61	-3.49	24	0.68	30	7	6	2	0	0	101
STANGER	6.75	5.16	+1.59	131	1.12	22	20	16	1	0	0	93
UBOMBO	3.50	5.49	-1.99	64	1.50	15	9	9	0	0	0	93
VRYHEID	6.99	6.10	+0.89	114	1.38	8	13	11	3	1	0	129
WEENEN	5.65	5.08	+0.57	111	2.61	27	8	8	4	0	0	121
BETSJOEANALAND : BECHUANALAND												
MAHALAPYE	1.61	4.16	-2.55	39	0.73	19	4	4	0	0	0	-
OTKATLONG	2.06	3.58	-1.52	57	0.60	30	5	4	0	0	0	116
GABERONES	3.24	3.52	-0.28	92	0.87	17	9	8	6	0	0	99
BASUTOLAND : BASUTOLAND:												
BUTHA BUTHE	3.88	5.81	-1.93	67	0.85	14	12	11	2	0	0	97
MAFETENG	1.51	4.90	-3.39	31	0.68	21	9	6	0	0	0	95
MOHALESHOEK	2.29	4.20	-1.91	55	0.45	19	8	8	0	0	0	99
MOKHOTLONG	4.31	3.03	+1.28	143	0.93	18	11	11	0	0	0	-
QACHASNEK	4.24	6.07	-1.83	70	1.14	7	14	13	5	0	0	107
SWASIELAND : SWAZILAND												
MBABANE	8.27	9.86	-1.59	84	1.75	8	16	16	0	0	0	131
STEGI	6.96	5.29	+1.67	132	1.85	20	7	7	0	0	0	-

CHART I KAART I

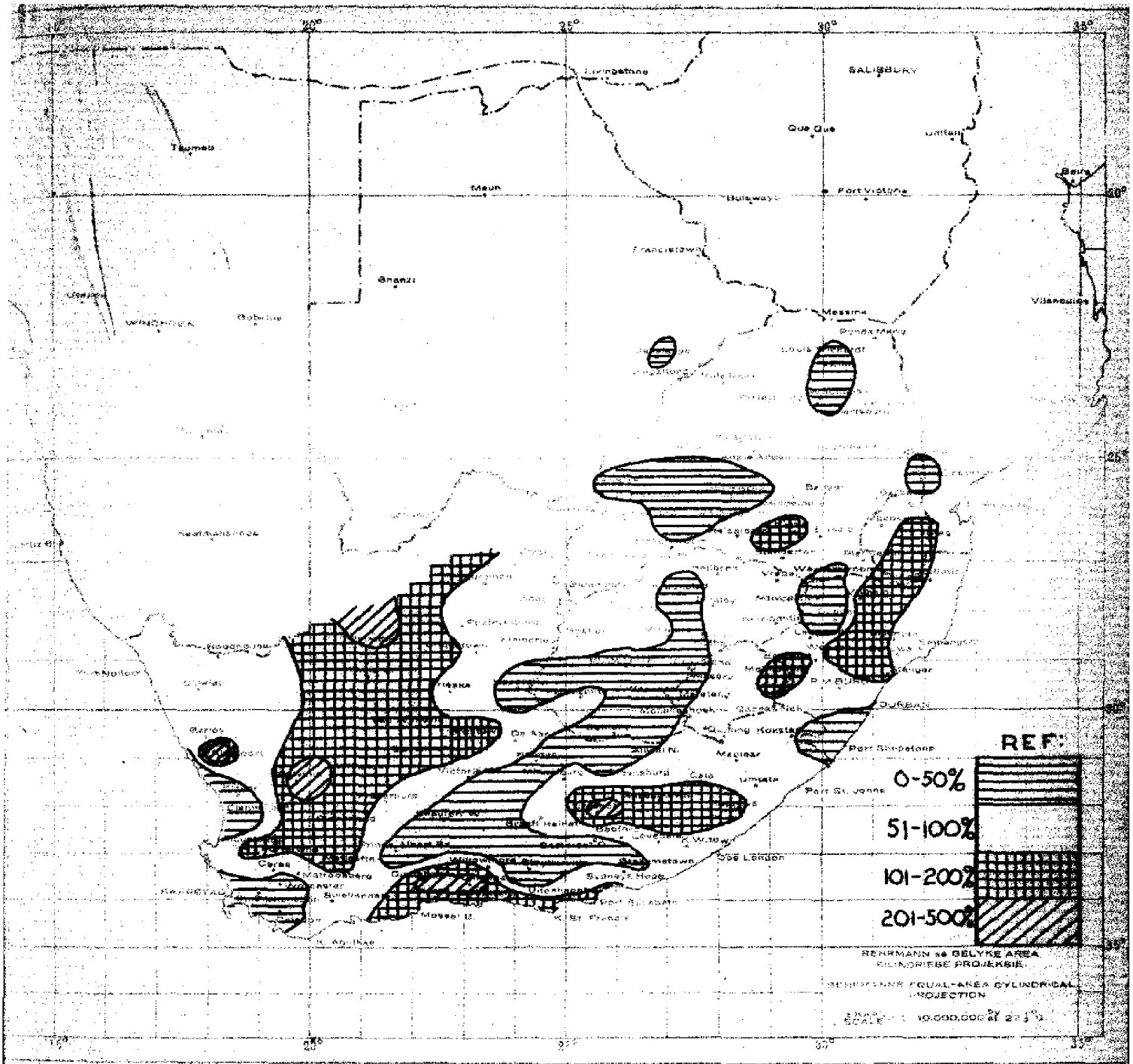
January 1940: Mean Atmospheric Pressure (at M.S.L.) at 8·30 am. The broken lines represent approximately the departure from the normal.

Januarie 1940: Gemiddelde Lugdruk (by Seespieël) om 8·30 v.m. Die gebroke lyne dui naasteby die afwyking van die normaal aan.



KAART II CHART II

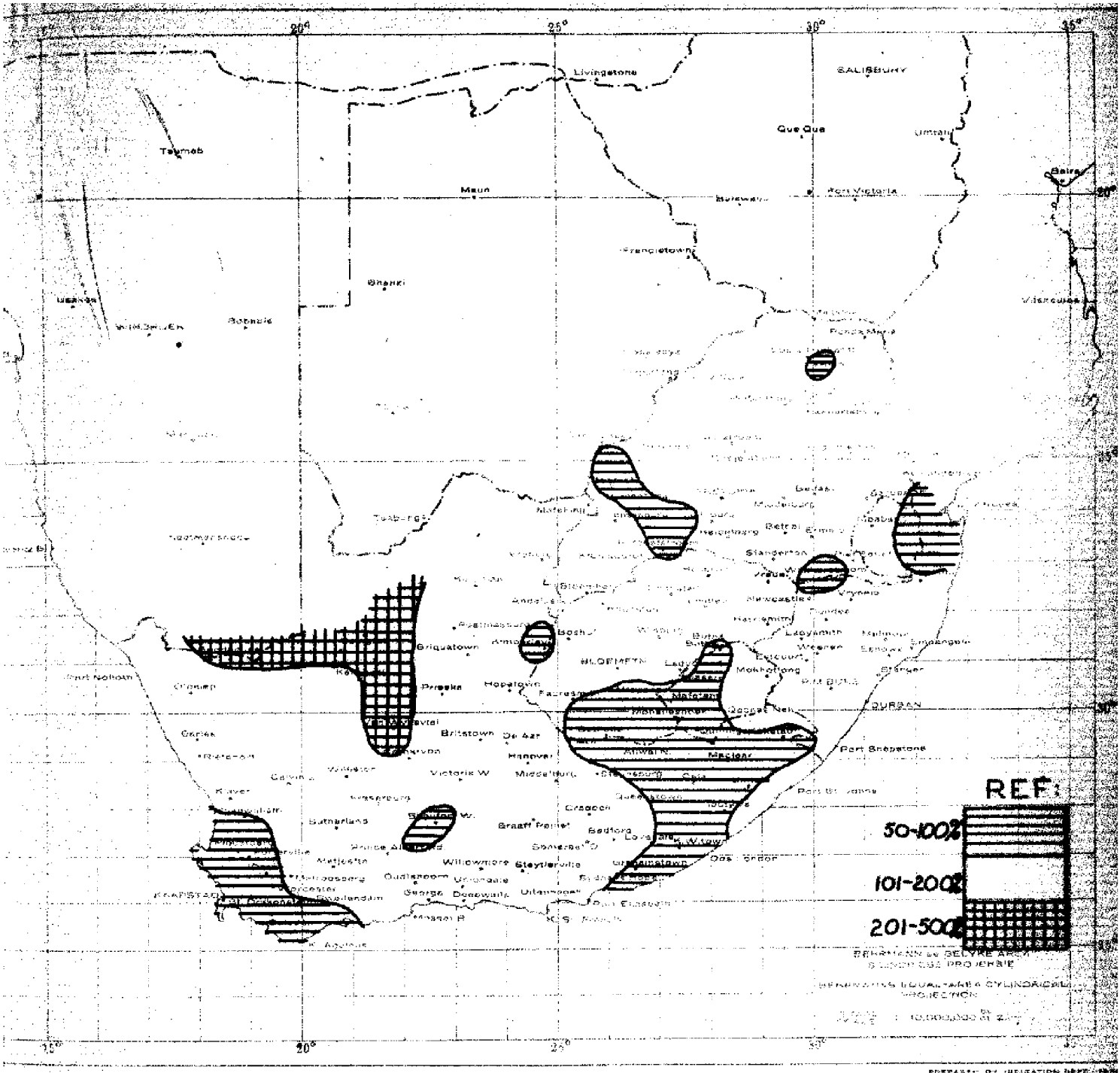
Januarie 1940: Gemiddelde Temperatuur, afwyking van die Normaal in °F.
January 1940: Mean Temperature, departure from the Normal in °F.



KAART III CHART III

Januarie 1940: Neerslag aangegee as persentasie van die Normaal.

January 1940: Precipitation shown as percentage of the Normal.



KAART IV CHART IV

Seisoen-Neerslag: 1ste Julie 1939 tot 31ste Januarie 1940, aangegee as persentasie van die normaal.

Seasonal-Precipitation: 1st July 1939 to 31st January 1940, shown as percentage of the normal.

U N I O N O F S O U T H A F R I C A

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

Vol. XXI FEBRUARY 1940 No. 2

MAIN FEAUTURE:

In general warm to hot; dry except over the western and southern half of the Cape Province where heavy rains occurred - fairly frequent hailstorms.

PRESSURE:

The distribution of mean pressure is shown on Chart I. The mean pressure was mainly above normal except over the coastal belt of the Cape Province.

TEMPERATURE:

Chart II shows the mean temperature departures from the normal. Temperatures were slightly below normal over the northwestern Transvaal and over a limited area in the neighbourhood of Tillowmore and Graaff Reinet. Over the remainder of the Union they were above normal. Positive departures of 2°-4° occurred along the southern coastal zone of the Cape Province, in the Transkei, the interior of Natal and over the southern Free State and bordering districts of the Cape.

The general mean temperature for the Union as a whole was 72.7°F, or 1.5° above normal. The Cape Province, Transvaal, Free State and Natal, considered as units, showed positive departures of 1.7°, 0.6°, 1.7° and 2.0° respectively.

The mean maxima, or day-temperatures, were above normal over almost the whole of the Union. The exceptions were, a portion of the central Cape Province, Bechuanaland and the northeastern Transvaal.

The mean minima, or night-temperatures, were, with the exception of limited areas over the Transvaal, above normal. Positive departures of 2°-4° occurred over almost the whole of the Cape Province.

For the Union as a whole the mean maximum was 84.3°F, or 1.2° above normal, and the mean minimum 61.0°F, or 1.7° above normal.

The highest temperatures were registered on the 1st, 2nd, 9th, 13th and 14th and from the 17th to the 22nd. The following are some of the highest temperatures recorded in each of the provinces:- 113°F at Clanwilliam (C.P.) on the 20th; 98°F at Zeerust (Tvl) on the 18th, 97° at both Otobotini and Weenen (Natal) on the 17th and 9th respectively, and 94° at Bethulie (O.F.S.) on the 14th.

The lowest minimum temperatures occurred from the 10th to the 13th, on the 19th and 25th. The following are some of the lowest minima registered in each province:- 37.7°F at Grootfontein (C.P.) on the 11th; 39.2° at Wakkerstroom (Tvl) on the 25th; 51.2° at Vryheid (Natal) on the 19th and 38.8° at Bloemfontein (O.F.S.) on the 11th.

PRECIPITATION:

The distribution of precipitation expressed as a percentage of the normal, is roughly shown on Chart III. A deficiency of rainfall was almost general over the Transvaal, Natal, Free State, Bechuanaland and over the Central Cape Province (northern borders). Over the remaining parts of the Cape Province the precipitation was well above normal; heavy downpours were experienced over the southwestern and southern Cape. More than four times the normal rainfall was registered at Prince Albert Road, Ceres, Cape Agulhas and Port Nolloth. Precipitation was also above normal over small areas in the southern Free State and western Transvaal.

Considering the provinces separately, the Cape Province showed a surplus of 63% whilst the Free State, Natal and Transvaal showed deficits amounting respectively to 24%, 57% and 34% of their mean normal precipitation. The "summer", the "all-seasons" and the "winter" rainfall zones of the Cape Province showed surplusses of 33% 130% and 284% respectively. Over the Union as a whole there was a deficit of 6%.

The fine weather of the 1st was followed by unsettled conditions over almost the whole Union up to the 10th. Subsequently a short spell of fair weather was experienced. From the 14th to the 18th, numerous showers and thunderstorms were daily reported from the Cape Province; the three northern provinces, the three northern provinces, however, were less fortunate: long spells of bright, sunny weather were only interrupted by storms on the 17th and 18th over limited areas in the eastern Transvaal and Natal. With the exception of further convectional showers from the 22nd to the 26th over the central and western parts, fine weather prevailed in Transvaal to the end of the month. On the other hand, the Free State, Natal and Cape Province experienced rather unsettled weather from the 20th, with heavy downpours on the 27th, 28th and 29th over the southern and southwestern areas of the latter province. A notable feature of the month was the frequent occurrence of fogs along the west and southwest coasts of the Cape.

HAIL:

Hailstorms occurred over the southern and eastern interior of the Cape Province on the 15th, 16th and 29th. Destructive storms causing considerable damage were reported from Sandflats (Mount Currie) From Natal hailstorms were reported on the 21st and 23rd, and extensive damage was done at Ladysmith and in the district of Paulpietersburg. In the Transvaal a very severe hailstorm passed over Mansfield (Zoutpansberg) on the 18th, whilst on the 25th, Benoni was visited by a severe storm, causing damage to gardens and crops.

THE CUMULATIVE PRECIPITATION:

The cumulative precipitation since 1st January 1940 was above normal over the greater portion of the Cape Province and over a limited area of the western Transvaal in the vicinity of Lichtenburg and Mafeking.

For this period the Cape Province showed a surplus of 28%, while the Free State, Natal and Transvaal showed deficits amounting respectively to 39%, 40% and 37% of the normal. Considering the different rainfall zones of the Cape, the "summer", the "all-seasons" and the "winter" zones showed surplusses of 9%, 81% and 129% respectively. For the Union as a whole there was a deficit of 18%.

THE SEASONAL PRECIPITATION:

The seasonal precipitation since 1st July 1939, expressed as a percentage of the normal is roughly shown on Chart IV.

For this period the Cape Province, Natal and Transvaal showed surplusses of 18%,1% and 9% respectively, while the Free State had a deficit of 1%. The precipitation over the "winter" rainfall zone of the Cape Province was normal while the "summer" and "all-seasons" zones showed surplusses of 16% and 36% respectively. For the Union as a whole there was a surplus of 9% of the mean normal rainfall for this period.

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D I E U N I E V A N S U I D A F R I K A

DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR

Deel XXI FEBRUARIE 1940 No. 2

HOOFTREKKE:

Oor die algemeen warm tot baie warm; droog behalwe oor die westelike en suidelike helfte van die Kaapprovinsie waar swaar reëns uitgesak het. Taamlik baie haelstorms.

LUGDRUK:

Die distribusie van die gemiddelde lugdruk word op Kaart I aangedui. Oor die algemeen was die lugdruk bo normaal; oor die Kaapse kusstreek egter, was dit onder normaal.

TEMPERATUUR:

Op Kaart II word die distribusie van gemiddelde temperature aangegee. Temperature was ietwat onder normaal oor die noordwestelike Transvaal en oor 'n beperkte streek in die nabyheid van Willowmore en Graaff Reinet (K.P.) Oor die res van die Unie was die gemiddelde temperature bo normaal. Positiewe afwykings van 2° tot 4° het voorgekom (1) langs die suidelike Kaapse kus, (2) in die Transkei, (3) in die binneland van Natal en (4) oor die suidelike Vrystaat en aangrensende distrikte van die Kaapprovinsie.

Die algemene gemiddelde temperatuur vir die Unie as geheel, was 72.7°F, of 1.5° bo normaal. Die Kaapprovinsie, Transvaal, Vrystaat en Natal, as eenhede beskou, het positiewe afwykings van onderskeidelik 1.7°, 0.6°, 1.7° en 2.0° aangetoon.

Die gemiddelde maksima, of dag-temperature, was bo normaal oor bykans die hele Unie. Uitsonderings bevat 'n deel van die sentrale Kaapprovinsie, Betsjoesnaland en die noordoostelike Transvaal.

Die gemiddelde minima, of nag-temperature was ook bo normaal, behalwe oor beperkte streke in die Transvaal. Positiewe afwykings van 2° tot 4°F het byna oor die hele Kaapprovinsie voorgekom.

Vir die Unie as geheel was die gemiddelde maksimum 84.3°F, of 1.2° bo normaal, en die gemiddelde minimum 61.0°F, of 1.7° bo normaal.

Die hoogste temperature was gemeet naasteby op die 1ste, 2de, 9de, 13de, 14de

en vanaf die 17de tot 22ste,en hier volg nou sommige van die hoogste waardes,(een vir elke provinsie); 113° te Clanwilliam (K.P.) op die 20ste, 98° te Zeerust (Tvl.)op die 18de;97° te beide Otobotini en Weenen (Natal) op die 17de en 9de respektiewelik, en 94° te Bethulie (O.V.S.) op die 14de.

Die laagste minimum temperature het voorgekom vanaf die 10de tot 13de en op die 19de en 25ste. Die volgende is sommige van die laagste minima wat in die verskillende provinsies gemeet was: 37 7° te Grootfontein (K.P.) op die 11de; 39 2° te Wakkerstroom (Tvl.) op die 25ste; 51 2° te Vryheid (Natal) op die 19de,en 38.8° te Bloemfontein (O.V.S) op die 11de.

NEERSLAG

Die distribusie van die neerslag, aangegee as 'n persentasie van die normaal, word globaal aangedui op Kaart III. Hieruit blyk dit duidelik dat die Transvaal,Natal, die Vrystaat, Betsjoeanaland en 'n deel van die sentrale Kaapprovinsie (noordelike grensgebied) 'n algemene tekort aan reënval gehad het. Oor die res van die Kaapprovinsie was die neerslag aansienlik bo normaal, swaar buie het oor die suidwestelike en die suidelike Kaap uitgesak en te Prince Albert Weg, Ceres, Kaap Agulhas en Port Nolloth was meer as viermaal die normale reënval gemeet. Die neerslag was ook bo normaal oor klein streke in die suidelike Vrystaat en die westelike Transvaal.

Word die provinsies apart as eenhede beskou, dan toon die Kaap 'n surplus van 63%, terwyl die Vrystaat, Natal en Transvaal tekorte aantoon wat onderskeidelik 24%,57% en 34% van hulle gemiddelde normale reenval bedra. Van die Kaapprovinsie se drie reënstreke het die somerstreek 'n surplus van 33%, die streek met reën in alle seisoene (suidelike kusstreek) 'n surplus van 130%, en die winterreënstreek 'n surplus van 284% gehad. Oor die Unie as 'n geheel was daar 'n tekort van 6%.

Op die 1ste van die maand het mooi weer geheers, opgevolg deur ongestadige weer oor byna die hele Unie vanaf die 2de tot 10de. Hierop het 'n paar dae mooi weer gevolg. Vanaf die 14de tot 18de is daar daagliks buie en donderstorms gerapporteer van die Kaapprovinsie, die drie noordelike provinsies, egter, was minder bevoorreg. mooi sonnige weer was net op die 17de en 18de onderbreek deur donderbuie en dan alleen in Natal en oostelike Transvaal. Behalwe vir 'n paar buie in die westelike en sentrale Transvaal op die 22ste en 26ste, het hierdie provinsie tot die end van die maand mooi weer gehad. Aan die anderkant het die Vrystaat, Natal en die Kaapprovinsie ongestadige weer ondervind vanaf die 20ste met swaar buie op die 27ste, 28ste en 29ste in die suidelike en suidwestelike dele van laasgenoemde provinsie. 'n Buitengewone kenmerk van die maand was die baie newel of mis wat langs die wes en suidwes kuste van die Kaapprovinsie voorgekom het.

HAEL:

Haelstorms het in die suidelike en oostelike binneland van die Kaapprovinsie voorgekom op die 15de, 16de en 29ste. In die nabyheid van Mount Currie het hulle baie skade veroorsaak. Vanuit Natal is haelstorms gerapporteer op die 21ste en 23ste, en aansienlike skade is te Ladysmith en in die distrik van Paulpietersburg veroorsaak. In die Transvaal, by Mansfield (Zoutpansberg) het daar 'n besonder kwaai storm verbygetrek op die 18de, terwyl Benoni 'n dergelyke ondervinding gehad het op die 25ste toe o.a. tuine en oes te beskadig is.

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf 1 Januarie 1940 was bo normaal oor die grootste gedeelte van die Kaapprovinsie en oor 'n beperkte streek in die westelike Transvaal in die omgewing van Lichtenburg en Mafeking. Vir hierdie tydperk was die neerslag vir die

Kaapprovinsie, as eenheid beskou, bo normaal met 28% van sy normale neerslag vir dieselfde periode, terwyl die Vrystaat, Natal en Transvaal tekorte van onderskeidelik 39%,40% en 37% aangetoon het. Die verskillende reënstreke van die Kaapprovinsie het elkeen 'n surplus gehad, soos volg:- somerreënstreek 9%; streek met reën in alle seisoene,81%; winterreënstreek, 129%. Vir die Unie as 'n geheel was daar 'n tekort van 18%.

DIE SEISOEN-NEERSLAG:

Die seisoen-neerslag vanaf 1 Julie 1939,uitgedruk as 'n persentasie van die normaal, word naasteby aangegee op Kaart IV. Vir hierdie periode het die Kaapprovinsie, Natal en Transvaal surplusse van respektiewelik 18%, 1% en 9% aangetoon,en die Vrystaat 'n klein tekort van 1% van sy normale neerslag. Oor die winterreënstreek het die neerslag net die normaal bereik, terwyl die somerreënstreek en die streek met reën in alle seisoene, surplusse van onderskeidelik 16% en 36% getoon het. Vir die Unie as 'n geheel was daar vir hierdie periode 'n surplus van 9%.

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OBSERVERS' NOTES FOR FEBRUARY 1940.

AANTEKENINGE VAN WAARNEMERS VIR FEBRUARIE 1940.

PRIESKA: This month was very hot; the highest temperature being 106.4°F on the 24th. We had 1.40" of rain on 5 days. S.K. Visser.

"CHAMPAGNE"(LYDENBURG): A very trying, dry and warm month. During the past 29 years this has been the third driest February. The years 1912 and 1922 being drier, when 0.84" and 1.22" of rain were recorded respectively. Rain is urgently required. We had 1.47" on 6 days. E.C. Boyce.

ELTCOURT: Consistently very hot; high relative humudity for the month. Occasional short thunderstorms towards end of the month. 4.37" on 9 days. The Officer in Charge.

SANDFLATS(MOUNT CURRIE): Mainly hot and muggy.Temperature rather above average for month. Thunder conditions generally operating and where storms occurred lightning very severe. Very heavy rains and destructive hailstorms. A cyclone on the 16th caused a certain amount of damage in its course. Wind usually light to moderate and variable. 6.29" of rain on 12 days H.B. Corderoy.

DRAKENSBERG GARDEN HOTEL(UNDERBERG): Sunny mornings. Thunderstorms or showers every afternoon. Slight winds. Occasional hailstorms. 0.68" on 3 days. S. Gage.

HLATIKULU(SWAZILAND): Rainfall for month has been very low in comparison with last year; difference being 12.72". Grass is still green and crops fair, yet if we do not get rain within the next few days, conditions will be serious. 1.70" on 10 days.
The Assistant Commissioner.

WILLOWMORE: Days generally fair. A few very hot days with several very cold days at end of month. Total amount of rain 3.55" on 12 days. H. Kemp.

QUEENSTOWN: A month of splendid rains. Rain fell on 11 days totalling 4.93"; the heaviest February rainfall since February 1932. The heaviest fall, 1.95" on the 28th and 29th accompanied by thunder and lightning. Hail was reported from the district, and considerable damage by floods was done. The Curator.

KURUMAN: 'n Warm maand, benoud en baie bewolkte lug. Bewolk gedurende namiddae met los reënbuie in verte. 1.16" op 9 dae. D.A. Schoonees.

MOUNT EDGECOMBE: The total rainfall for the month was 2.25" which fell on 7 days, a fall of 1.08" being recorded after a heavy thundershower on the 29th. The days were uniformly warm, and the prevailing winds during the month were mostly from a northeasterly direction. The Director. S.A.Sugar Association.

MODDERPOORT: Fairly good rains fell at the beginning of the month, and again towards the end of the month, while period in between was dry with hot days. The average maximum temperature for the month was above average. There were violent thunderstorms on the 28th and 29th, the worst experienced in this district for many years. 4.63" of rain fell on 10 days. J. W. Biddols.

CARNARVON: Die lugdruk was deurgaans laag vir Februarie, en die temperatuur oordags hoog maar vroeg saans het dit gewoonlik koel geword. 1.31" op 6 dae. J.S.van Wyk.

LOSKOP IRRIGATION WORKS: Temperature varied between 94.4°F and 60.6°F. Rain fell on 8 days totalling 2.41". Hot days and very little wind. The Resident Engineer.

VELD RESERWE,FAURESMITH: Die maand was warm en droog. Wind matig. Goeie reën laaste twee dae van die maand. 1.40" is aangeteken op 6 dae. A.J. v.d. Walt.

RIETVLEI(ERMELO): Uitsonderlike warm dae, alhoewel maksimum nooit hoog was nie. 3.25" is aangeteken op 10 dae. N.C. Steenkamp.

HILLARY(DURBAN): The highest mean maximum ever recorded at this station. The two previous highest were 83.9° and 83.0° in 1931 and 1937 respectively, both in the month of February. Records commenced in September 1907. Had it not been for the severe thunder storm late on the last day of the month, the rainfall (up to date 1.32") would have been the lowest ever recorded in February here. 3.39" of rain fell on 10 days. H.A. Thorpe.

UPINGTON: Eerste helfte van die maand oor die algemeen koel, terwyl laaste helfte warm en drukkend. Heel party donderstorms gedurende die maand maar min reën. 0.84" is aangeteken op 6 dae. S. Malan.

PADDOCK(NATAL): A dry month with many hot days although many mornings found dew. 2.77" on 10 days. I.F. Harrison.

PORTERVILLE: Very hot and dry weather with southwesterly winds in the afternoon. Total amount of rain. 1.16" on 2 days. W.W. Louw.

DIKGATLONG(BECHUANALAND): February has been a very dry month. Rain fell on 3 days and 1.54" were recorded. Grass plentiful but too dry for the winter. P. Jousse.

BALFOUR(CAPE): Mainly very hot but good growing weather on the whole. 4.62" on 12 days. E.W. Hulse.

KOPJE ALLEEN(NYLSTROOM): The rainfall for February 1.42" on 8 days was 1.77" below the average of 27 years. Between the 5th and the 11th there was a little rain every day, but the total for the 7 days was just under one inch. The mean maximum temperature was 1.9°F above normal while the mean minimum was 0.9°F below normal. J. Lyall Soutter. F.R.M.S.

DORNE PROEFPLAAS(STUTTERHEIM): Warm dae, droë weer, soms stowwerig en winderig. Oor die algemeen sagte reën. 6.24" is aangeteken op 10 dae. J.J.K. Krüger.

ISMONT(MID-ILLOVO): Rainfall below average and drought conditions prevailed in various parts of the districts. Stock in fair condition. 3.08" of rain fell on 8 days.
Lt.-Col. J.W.J. Montgomery.C.M.G;D.S.O.

ARMOEDSVLAKTE(VRYBURG): Die maand Februarie was droog en warm. Weiding was droog maar nog voldoende in hoeveelheid. Die totale reënval vir die maand was 1.65" op 8 dae. Op die 29ste Februarie het die eerste goeie reëns geval sedert Januarie 1940.
Die Verantwoordelike Beampte.

HERMITAGE(PORT ELIZABETH): Hot with many overcast nights and mornings. One good rain in the beginning of the month, then many light soft showers. 2.12" on 13 days.E.Dixie.

POTCHEFSTROOM: The precipitation and change in the general weather conditions from the 25th of this month brought a welcome relief to plantgrowth and saved a certain percentage of crops from total destruction by drought. Temperature kept very high and the severe heat and lack of moisture in the atmosphere made conditions unbearable for plantgrowth. It was very noticeable (and on uncommon feature) that the precipitation, practically on all occasions were accompanied by heavy and sometimes severe thunderstorms causing damage in some parts of the district. 3.88" of rain fell on 9 days. B.Saayman.

RUSTENBURG INDUSTRIESKOOL: Oor die algemeen sagte reën en die temperature oor die algemeen hoog. Die neerslag was onder normaal. 1.93" is aangeteken op 7 dae.
S.J.B. Haasbroek.

BENONI: The weather during the month has been moderate, good showers of 2.82" fell on 9 days. A severe hailstorm on the 25th did serious damage to gardens and crops in the district.
The Medical officer of Health.

PORT ELIZABETH: Spells of warm muggy weather, with morning fog.Rainfall well above normal. 2.27" on 12 days.
The Meteorological Officer.

KIMBERLEY AERO: Winds mainly northerly. Clouds and rain a little above average Precipitation mainly light,showers well spaced. Thunder conditions frequent after midday. A half hour tornado did structural damage at 16.50 on 20th. 3.21" of rain on 11 days.
J.G. Gwayde.

REEDSDELL: Very severe thunderstorms but not much rain. Temperature rather higher than normal and exceptionally heavy dews overnight. 3.28" of rain on 13 days.
J.A. Mortlock.

HARTEBEESPOORT PROEFSTASIE(BRITS): Drought conditions prevailed. Crops especially maize suffered intensely. A dry atmosphere, intense heat, cloudless skies and absence of wind were the leading features of the month. 1.18" of rain fell on 6 days. A.M.du Toit.

PAULPIETERSBURG: Warm, dry month. Rainfall not quite half average for February. A thunderstorm on the 17th was accompanied by terrific strong wind from south. Several hailstorms crossed the district and did much damage to crops. 2.44" of rain fell on 7 days.
Dr. N. Lipscombe.

PRETORIA FARM(PIETERSBURG): Very hot and dry. Cloudy early mornings. 1.05" of rain on 3 days.
Capt. J.B. Noel.

LADYSMITH(NATAL): Op die 23ste en 24ste het dit op verskeie plekke in die distrik gehael, sodat baie van die gesaaides verniel is. 2.50" is aangeteken op 8 dae.
E. C. Viljoen.

KLAVERFONTEIN(BETHULIE): Droog en warm. Hitte bo normaal. Kleinvee gesond en kondisie goed. Veld kaal en droog. Reënval 0.79" op 4 dae.
J.A. Griesel.

MANSFIELD(SOUTPANSBERG): Storm on 16th from W.S.W. with tremendous hail which did a lot of damage to crops etc. Very dry, grass turning brown, and need rain badly. 1.60" of rain on 4 days. J.E. Gibson.

WEPENER: Although 3.15" of rain fell on 9 days, the month was very dry and hot. Thunderstorms accompanied all precipitation. W.T.E. Kemm. F. R. Met. Soc.

MOSSEL BAY: More than average amount of rainfall. Exceptionally heavy downpours on 14th at 2030 and on 16th with thunderstorm at 1410. Barometer very low on 9th. Invariably low-clouds in early morning - Stratocumulus or Stratus clearing at ± 0900. 7.05" of rain on 14 days. J.A. Meyer.

WALVIS BAY: Slight intermittent drizzle from Nimbostratus on the 2nd. The 2nd and 4th were characterised by exceptionally high afternoon temperatures. The rest of the month was characterised by predominent southwesterly winds during the afternoons. S.S.W. sandstorms seem to be returning after a relative absence during December and January. Some severe sandstorms occurred on the 20th, 21st and 22nd. Fog also made a reappearance and occurred on 4 days on land and at sea on about 7 days. 0.01" fell on 1 day. J.J. Taljaard.

ATHOLE(NATAL) Warm dae, min reën. 3.09" op 9 dae. Min wind gewaai en baie sonskyn dae. A.H. du Plessis.

BADPLAATS(CAROLINA): Oor die algemeen was weersomstandighede gedurende die maand taamlik ewerediq. Sonskyn en reën met matige winde. Veld nog in goeie kondisie, alhoewel die gesaaides maar droog is. 3.26" op 4 dae. I. M. van Rooyen.

UMBOGINTWINI(KYNOCH FACTORY): In general the month was hot and dry, with the lowest rainfall ever recorded at this station for January. 1.22" on 6 days. The Manager.

CHESTER: A very hot month. Veld dry, but stock and crops still in fair condition. 1.57" of rain fell on 3 days. H.H. Wolff.

WOOLHOPE(KOMGHA): Maize crops promising. Heavy rain fell onevening of 28th and 29th; rain fell heavily but intermittently. Rainfall 8.18" on 10 days. T. Wright.

RONGPOORT(NATAL): A dry month on the whole. Grass and crops withering until close on the end of the month; unable to plough for planting winter fodder. Rainfall 3.01" on 9 days. J.H. Bartholomeas.

EZELSFONTEIN(DE AAR): Reën val in buie. Soms baie smal strepe. Veld strepe baie mooi en op ander plekke baie droog. Vee oor die algemeen mooi. Reënval 1.80" op 5 dae. W.Marais.

VAN RYNSDORP: Weens te kort aan water sal oes (lusern en druiwe) swakker wees as verlede jaar. Reënval 0.28" op 2 dae. D.J. Geldenhuys.

HOLPAN(SCHWEIZER RENECKE): A dry and hot month. Rain is badly needed. Veld is short and scarce for this time of the year. Rainfall 2.50" on 6 days. W.H. Hambly.

ILLAWARRA(WATERBERG): A disasterous month, crops burnt up and a failure. Rainfall 0.71" on 2 days. J.A. Manson.

KILLELENI(WATERBERG): A 40% decrease in the estimated crop yield is tabled and even should copious rains now be forthcoming the positions will not be improved as regards the yield, though a better quality might be expected. Rainfall 1.24" on 7 days. C.L.S. Driver.

SEDATA(VRYBURG): Dit is 'n treurige jaar vir gesaaides en die boere in die omgewing sal niks wen nie. Die vee is in 'n goeie kondisie. Reënval 2.16" op 7 dae. C.F. de Lange.

AVONLEA(EXCELSIOR): Weertoestand baie swak, warm dae, dor en droog. Reënval 1.20" op 4 dae. S.J. Gouws. Jnr.

BRANDWACHT(SENEKAL): Veld very poor and mealies shrivelling up. Rainfall 1.63" on 7 days. V. Fichardt.

VOORUITSIG(HOOPSTAD): Mielie-oes 'n groot mislukking; groot skade deur droogte. Byna oral kan skade gereken word op 50%. Reënval 2.12" op 4 dae. H. Buigen.

MADRID(PILGRIMS REST): The month has been very dry and hot.Veld and crops are being burned white by sun and heat. Rainfall 1.74" on 7 days. J. Hurley.

CHAWNER(LOUIS TRICHARDT): Crops are drying up for need of rain. Rains are now too late to help some mealies. Rainfall 2.14" on 6 days. (Rev) E. King.

BLAAUWILDEBEESPUT(LICHTENBURG): Heat really terrific every day,temperature from 90° to 96°. Nights however cool. Crops holding out well but estimate only 60% of last year. Rainfall 3.19" on 5 days. C. Hull.

STERKFONTEIN(WATERBERG): Crops not very promising. Heat so intense that a little rain does not help at all. Rainfall 1.62" on 4 days. T.P. van Ravenswaay.

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TABLE I - TEMPERATURE AND CLOUDINESS - FEBRUARY 1940.
TABEL I - TEMPERATUUR EN BEWOLKTHEID - FEBRUARIE 1940.

Results of observations at 0830 S. A. Standard Time.

Resultate van waarnemings om 0830 S. A. Standaard Tyd.

STATION STASIE	AIR TEMPS. IN °F : LUG TEMPERATURE IN °F.								NO. DAYS: AANTAL DAE						CLOUDINESS: BEWOLKTHEID				
	Mean Gem. Max.	Mean Gem. Min.	Mean Gem.	Diff Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Below: Max. Ab. Min. Onder: Max. Bo						Mean Gem.	No. days: Aantal d			
									37	32	27	90	95	100		0-1	2-5	6-9	10
CAPE PROVINCE: KAAPPROVINSIE:																			
CALVINIA NORTH	85.6	58.6	72.1	+2.1	94.0	14	45.0	11	0	0	0	9	0	0	3	17	5	7	0
BEAUFORT WEST	87.2	63.1	75.2	+0.4	101.0	13	57.4	17	0	0	0	13	7	1	5	10	5	9	5
WITSTOWN	90.5	61.9	76.2	+1.2	99.0	26	46.5	11	0	0	0	17	10	0	3	18	6	1	4
CAPE L'AGULHAS	74.7	65.2	70.0	+1.8	79.0	45	56.0	10	0	0	0	0	0	0	6	4	9	10	6
CALA	82.0	60.7	71.4	+2.6	92.5	21	48.0	11	0	0	0	10	0	0	5	8	7	8	6
CARNARVON	89.3	61.0	75.2	+1.8	99.4	26	45.6	11	0	0	0	15	6	0	3	11	10	8	0
CERES	85.8	59.1	72.5	+0.4	99.4	1	48.0	11	0	0	0	7	3	0	3	17	4	5	3
CRADOCK	86.2	60.5	73.4	+1.0	99.0	14	48.0	11	0	0	0	13	7	0	5	7	7	15	0
CLANWILLIAM	96.7	63.7	80.2	+2.6	113.0	20	55.5	10	0	0	0	24	20	11	2	19	4	2	4
DEPWALLS	75.1	60.9	68.0	+2.1	89.5	2	51.9	10	0	0	0	0	0	0	6	7	8	3	11
EAST LONDON	78.1	65.9	72.0	+1.5	81.7	26	61.0	19	0	0	0	0	0	0	7	4	6	11	8
GRAAFF REINET	86.9	63.0	75.0	-0.2	102.6	21	44.3	11	0	0	0	11	7	3	6	9	4	8	8
G. DRAKENSTEIN	85.7	62.0	73.9	+2.8	99.2	1	51.3	11	0	0	0	7	4	0	3	16	6	4	3
GRAHAMSTOWN	82.5	60.5	71.5	±0.0	99.6	8	50.0	12	0	0	0	8	5	0	6	8	5	5	11
HAGGTFONTEIN	83.5	56.5	70.0	+0.2	94.2	13	37.7	11	0	0	0	6	0	0	5	9	3	13	4
HOPETOWN	91.1	64.5	77.8	+2.1	99.0	27	48.0	11	0	0	0	19	10	0	4	8	12	9	0
IDUTYWA	81.4	62.1	71.8	+4.3	94.0	8	50.0	11	0	0	0	4	0	0	5	8	7	3	11
JEPPHARDT	94.8	68.6	81.7	+1.8	103.0	20	56.0	11	0	0	0	22	16	10	2	16	9	3	1
KIMBERLEY AERO	90.1	64.2	77.2	+3.2	97.8	14	48.5	11	0	0	0	19	4	0	4	11	8	10	0
KINGWILLIAMSTOWN	85.3	64.0	74.7	+1.9	101.0	21	52.0	11	0	0	0	9	6	1	6	7	7	3	12
KLAVER	89.0	62.8	75.9	+0.2	108.4	1	54.0	11	0	0	0	12	7	3	5	13	3	6	7
KOKSTAD	80.2	55.7	68.0	+1.6	90.3	3	49.9	14	0	0	0	1	0	0	4	7	4	6	8
KURUMAN (SEODIN)	86.0	60.9	73.5	+0.4	91.0	14	49.0	11	0	0	0	9	0	0	4	5	15	5	4
LAPHOOSBERG	82.2	58.1	70.2	+2.7	94.7	20	45.7	11	0	0	0	5	0	0	4	14	6	2	7
LAFEKING	84.6	61.5	73.1	+0.1	91.8	17	53.6	11	0	0	0	2	0	0	4	2	15	12	0
MOSSEL BAY	77.7	67.5	72.6	+2.9	84.0	28	59.0	10	0	0	0	0	0	0	7	3	7	5	14
MOKIEP	85.5	61.5	73.5	+0.3	98.0	20	51.9	9	0	0	0	11	6	0	3	19	3	2	5
MULTSHOOP	88.3	63.0	75.7	+2.5	99.0	12	52.0	11	0	0	0	16	7	0	3	16	6	7	0
PORT ELIZABETH	80.6	64.6	72.6	+3.5	98.1	24	53.7	12	0	0	0	1	1	0	7	6	4	11	8
PORT NOLLOTH	67.3	57.0	62.2	+1.8	72.0	6	53.0	19	0	0	0	0	0	0	8	4	2	3	20
PORT ST. JOHNS	78.4	69.5	74.0	+0.7	82.0	7	63.0	11	0	0	0	0	0	0	6	3	12	7	7
PRIESKA	88.0	60.7	74.4	+2.5	95.0	25	44.0	11	0	0	0	15	2	0	2	13	7	4	0
QUEENSTOWN	95.9	66.9	81.4	+2.1	106.4	24	54.6	12	0	0	0	22	15	13	4	6	2	10	3
RIETPOORT	86.1	61.3	73.7	+2.1	97.0	13	52.0	12	0	0	0	14	6	0	5	9	5	11	4
SOMERSET EAST	87.0	60.9	74.0	+1.5	106.0	1	50.0	11	0	0	0	9	6	3	2	21	1	5	2
SUTHERLAND	85.1	61.0	73.1	+2.3	102.8	21	47.0	11	0	0	0	11	7	2	6	6	6	5	12
UITENHAGE	81.1	53.9	67.5	+0.7	92.0	2	39.0	11	0	0	0	2	0	0	3	14	8	6	1
UMTATA	88.4	65.0	76.7	+3.9	102.5	8	52.8	12	0	0	0	10	5	2	6	7	1	10	4
UPINGTON	87.1	63.4	75.3	+4.2	100.0	21	49.0	12	0	0	0	12	5	1	5	7	6	4	7
VAN WYKSVLEI	93.3	68.1	80.7	+0.2	102.6	20	58.4	11	0	0	0	20	15	5	3	13	9	6	1
VICTORIA WEST	92.5	64.6	78.6	+2.3	101.3	13	47.6	11	0	0	0	18	14	3	3	10	14	5	0
VRYBURG	86.9	60.9	73.9	-	97.0	26	47.0	11	0	0	0	13	4	0	4	12	6	11	0
WILLOWMORE	89.4	61.8	75.6	+1.3	96.0	17	47.6	11	0	0	0	13	2	0	4	10	10	8	1
WINGFIELD	83.9	56.3	70.1	-1.1	97.0	21	41.0	10	0	0	0	11	4	0	4	7	10	12	0
	80.2	61.0	70.6	+1.7	95.0	20	50.0	12	0	0	0	2	1	0	4	13	5	3	8
O.F.S. : O.V.S.																			
BETHULIE	87.1	59.7	73.4	+1.4	94.0	13	42.0	11	0	0	0	11	0	0	4	8	9	12	0
BLOEMFONTEIN	85.9	59.5	72.7	+1.3	93.7	14	38.8	11	0	0	0	5	0	0	3	11	11	7	0
BRANDFORT	87.0	59.1	73.1	+2.9	93.6	27	39.9	11	0	0	0	11	0	0	3	14	7	5	3
BROODSTAD	84.8	58.2	71.8	+0.7	90.5	16	46.0	11	0	0	0	1	0	0	3	10	13	3	3
CLARENS	83.0	58.1	69.6	+2.5	76.0	12	44.0	12	0	0	0	0	0	0	3	17	4	7	1
FINDLEY	82.0	57.1	69.6	+0.4	87.0	17	44.0	13	0	0	0	0	0	0	4	6	15	7	1
FREDRIK	84.7	60.1	72.4	+2.5	93.5	14	49.6	11	0	0	0	4	0	0	4	13	7	7	2

TABLE I - TEMPERATURE AND CLOUDINESS - FEBRUARY 1940. (CONTD).
TABEL I - TEMPERATUUR EN BEWOLKTHEID - FEBRUARIE 1940.(VERVOLG)

STATION STASIE	AIR TEMPS. IN °F : LUG TEMPERATURE IN °F							NO.DAYS: AANTAL DAE						CLOUDINESS; BEWOLKTHEID				
	Mean Gem. Max.	Mean Gem. Min.	Mean Gem.	Diff Ver. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Below: Min. Onder: 37	32	27	Max. Ab. Max. Bo: 90	95	100	Mean Gem.	No. days: Aant. dae: 0-1	2-5	6-9	10
TRANSVAAL:																			
BARBERTON	83.6	64.6	74.1	+0.5	89.0	13	60.0	12	0	0	0	0	0	0	6	2	7	16	4
BELFAST	72.4	50.9	61.7	+0.3	80.0	17	45.0	17	0	0	0	0	0	0	4	11	5	6	7
BETHEL	77.4	52.7	65.1	+0.4	82.0	9	47.0	14	0	0	0	0	0	0	5	10	5	10	4
GERMISTON	79.1	58.1	68.6	+1.9	86.9	17	51.1	11	0	0	0	0	0	0	4	14	5	7	3
HEIDELBERG	82.3	55.3	68.8	+0.9	88.9	17	45.8	11	0	0	0	0	0	0	3	14	8	5	2
KLERKSDORP	85.5	59.6	72.6	+0.2	92.6	22	47.2	11	0	0	0	6	0	0	2	17	9	2	1
KOPJE ALLEEN	87.3	60.3	73.8	+0.3	94.7	17	55.0	20	0	0	0	7	0	0	4	14	6	7	2
LOUIS TRICHARDT	80.6	62.2	71.4	+0.1	90.0	17	56.0	21	0	0	0	1	0	0	8	0	5	9	15
MESSINA	88.2	70.4	79.3	±0.0	93.3	29	64.3	12	0	0	0	13	0	0	6	2	14	8	5
MIDDELBURG	82.2	54.8	68.5	+0.3	88.0	17	49.0	22	0	0	0	0	0	0	5	8	6	15	0
NYLSTROOM	85.2	58.4	71.8	±0.0	92.0	17	52.0	17	0	0	0	3	0	0	2	14	10	3	2
PIETERSBURG	80.9	57.8	69.4	-0.2	85.8	17	53.2	21	0	0	0	0	0	0	5	6	8	13	2
PIET RETIEF	79.6	56.4	68.0	+0.2	87.0	18	46.6	19	0	0	0	0	0	0	6	4	8	10	7
PILGRIMS REST	77.3	56.5	66.9	-0.6	84.9	17	50.4	14	0	0	0	0	0	0	5	9	4	10	6
POTCHEFSTROOM	84.8	59.2	72.0	+1.0	91.0	17	46.0	11	0	0	0	3	0	0	3	12	11	6	0
PRETORIA	82.0	59.4	70.7	+0.8	88.7	17	55.2	20	0	0	0	0	0	0	4	10	7	12	0
RUSTENBURG	88.6	62.1	75.4	+2.1	94.0	19	54.0	11	0	0	0	11	0	0	6	2	8	17	2
STANDERTON	82.8	55.6	69.2	+1.1	89.8	21	48.2	14	0	0	0	0	0	0	4	7	11	10	1
VAALHARTZ	82.4	58.3	70.4	-1.9	95.0	25	42.2	11	0	0	0	12	1	0	4	9	10	8	0
WATERSTROOM	79.0	50.3	64.7	+1.6	85.9	21	39.2	25	0	0	0	0	0	0	4	12	8	6	3
ZEERUST	89.3	60.8	75.1	+1.9	98.0	18	54.0	11	0	0	0	14	4	0	4	9	10	8	2
NATAL:																			
DUNDEE	83.5	58.1	70.8	+1.7	90.8	17	53.0	13	0	0	0	2	0	0	4	13	6	8	2
DURBAN AERO	82.4	68.8	75.6	-0.2	85.2	9	62.6	13	0	0	0	0	0	0	4	14	5	6	4
EMPANGENI	88.3	70.1	79.2	+2.9	96.5	10	62.0	12	0	0	0	14	1	0	4	12	10	2	5
ESTCOURT	84.2	59.5	71.9	+2.0	92.0	21	54.0	2	0	0	0	3	0	0	5	8	8	10	3
LADYSMITH	86.9	63.1	75.0	+1.5	94.0	16	56.0	14	0	0	0	9	0	0	4	11	8	7	3
PIETERMARITZBURG	86.1	63.7	74.9	+3.2	96.6	9	53.4	19	0	0	0	9	1	0	4	12	5	6	3
UTOTOTINI	91.9	69.5	80.7	+1.6	97.0	17	63.0	20	0	0	0	21	9	0	0	1	12	13	3
PORT SHEPSTONE	80.9	70.1	75.5	+1.7	85.0	4	64.5	13	0	0	0	0	0	0	4	10	6	5	5
MELMOTH	86.3	63.1	74.7	+3.0	93.1	9	56.5	12	0	0	0	10	0	0	4	10	8	9	2
WINKEID	84.2	60.1	72.2	+2.2	91.6	17	51.2	19	0	0	0	6	0	0	3	13	9	4	5
WILLEM	89.7	61.8	75.8	+2.3	97.0	9	53.0	19	0	0	0	19	4	0	0	0	0	0	0
BASUTOLAND : BASOETOLAND:																			
BUTHA BUTHE	80.6	55.3	68.0	+0.5	87.0	16	44.0	11	0	0	0	0	0	0	4	9	8	9	3
MASERU	82.7	59.0	70.9	+2.4	91.0	14	45.0	11	0	0	0	1	0	0	3	13	12	3	1
QACHASNEK	76.9	53.6	65.3	+3.0	85.8	3	41.8	11	0	0	0	0	0	0	3	14	6	9	0
TEYATEYANENG	82.6	56.4	69.5	+2.7	90.0	2	42.0	11	0	0	0	1	0	0	2	20	6	3	0
BECHUANALAND : BETSJOEANALAND:																			
DIKGATLONG	90.6	63.3	77.0	-0.5	101.0	18	57.0	21	0	0	0	13	5	1	5	8	8	5	5
GABERONES	90.7	64.1	77.4	+1.9	99.0	19	59.0	21	0	0	0	19	8	0	5	2	17	6	4
MAHALAPYE	88.0	64.2	76.1	-0.1	99.0	18	56.0	21	0	0	0	9	2	0	5	9	2	9	4
SWAZILAND : SWASIELAND:																			
MBABANE	77.5	58.6	68.1	+2.1	85.0	9	53.0	13	0	0	0	0	0	0	5	7	8	9	5
STEGI	81.0	62.4	71.7	+0.2	85.0	29	55.0	19	0	0	0	0	0	0	6	5	9	8	7

TABLE II - PRECIPITATION IN INCHES - FEBRUARY 1940.
TABEL II - [illegible] IN DUIMS - FEBRUARIE 1940.

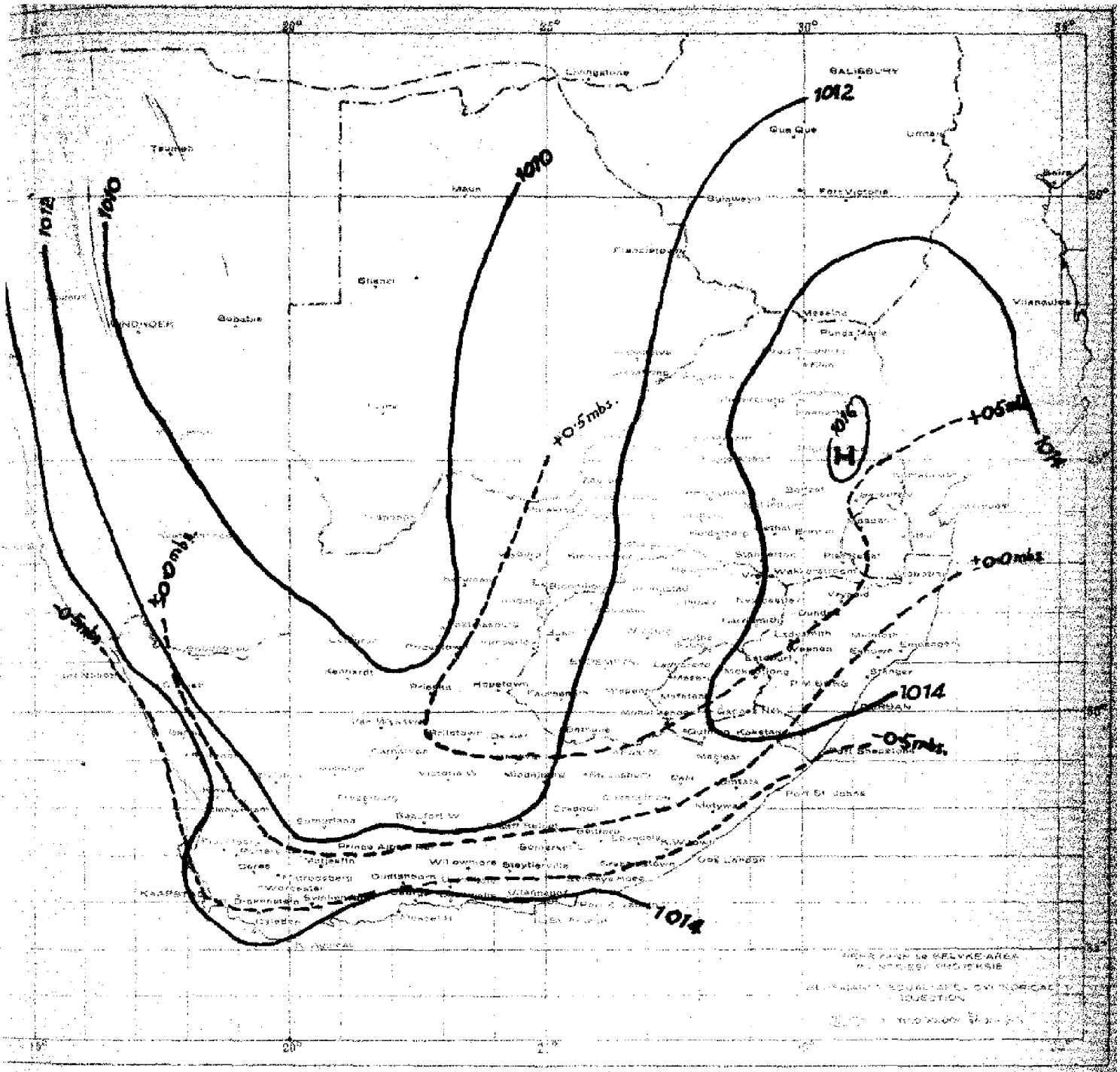
STATION STASIE	FEB. 1940	NORM.	DIFF. VERS.	%	MAX. IN 24 H.	DATE DAT.	NO. OF DAYS: AANTAL DAE 0.01" or more	0.04" or more	TH.	H.	S.	CUMULATIVE RAINFALL FROM 1.1.1940	% OF NORM.	VALUE 1.7.1939	% VAN NORM.
CAPE PROVINCE:: SUMMER RAINFALL AREA: KAAPPROVINSIE : SOMMERREËNSTREEK :															
ALIWAL NORTH	4.37	3.13	+1.24	140	2.09	4	10	8	4	0	0	95		84	
BEAUFORT WEST	3.53	1.28	+2.25	276	1.54	16	3	7	0	0	0	171		136	
BRITSTOWN	1.27	1.72	-0.45	74	0.62	28	5	5	0	0	0	89		135	
CALA	5.29	2.96	+2.33	179	1.85	28	11	11	0	0	0	127		97	
CARNARVON	1.31	1.25	+0.06	105	0.89	3	6	6	0	0	0	114		173	
CRADOCK	3.38	2.09	+1.29	162	1.33	4	9	5	1	0	0	131		154	
EAST LONDON	5.50	3.15	+2.35	175	2.11	26	9	8	1	0	0	123		90	
FRASERBURG	2.13	1.00	+1.13	213	0.95	8	5	4	0	0	0	153		140	
GRAAFF REINET	4.51	1.74	+2.77	259	1.58	4	11	9	3	0	0	132		139	
GRAHAMSTOWN	4.60	2.64	+1.96	174	1.26	29	15	11	0	0	0	103		133	
GRIQUATOWN	1.68	2.02	-0.34	83	0.82	28	6	6	0	0	0	37		112	
GROOTFONTEIN	2.36	1.35	+1.01	155	1.12	28	11	9	1	1	0	117		148	
HANOVER	1.55	1.97	-0.42	79	0.52	16	5	5	0	0	0	62		119	
HOPETOWN	0.96	1.76	-0.80	55	0.26	10	6	6	6	0	0	38		131	
IDUTYWA	5.13	2.02	+3.11	254	1.70	28	13	10	1	0	0	177		114	
KENHARDT	0.49	1.12	-0.63	44	0.27	29	3	3	0	0	0	67		145	
KIMBERLEY	1.54	2.51	-0.97	61	0.77	29	11	6	10	2	0	65		84	
KINGWILLIAMSTOWN	5.31	3.03	+2.28	175	1.15	28	12	12	0	0	0	129		110	
KOKSTAD	8.31	4.28	+4.03	194	3.05	22	16	14	4	1	0	117		105	
KURUMAN	1.15	2.84	-1.69	41	0.65	10	9	4	1	1	0	63		120	
MATJESFONTEIN	1.58	0.39	+1.19	405	0.70	3	4	4	0	0	0	304		87	
MACLEAR	4.82	4.88	-0.06	99	1.30	28	10	10	3	0	0	-		-	
PHILIPSTOWN	1.65	2.00	-0.35	83	0.30	4	9	9	2	0	0	78		122	
PORT ST. JOHNS	5.69	6.26	+0.43	108	1.65	17	10	9	1	0	0	90		108	
PRIESKA	1.40	1.49	-0.09	94	1.10	28	5	4	4	0	0	84		120	
PRINCE ALBERT RD.	2.91	0.42	+2.49	695	1.15	3	4	4	0	0	0	378		197	
QUEENSTOWN	4.93	3.61	+1.32	137	1.87	29	11	9	9	0	0	125		105	
SOMERSET EAST	5.67	2.97	+2.70	191	1.24	4	15	15	4	0	0	122		130	
STEYNSBURG	1.43	2.13	-0.70	67	0.79	28	4	4	0	0	0	56		97	
STEYTLERVILLE	2.42	1.07	+1.35	226	0.90	2	7	7	0	0	0	131		140	
UMTATA	3.29	3.38	-0.09	97	0.90	5	11	8	1	0	0	89		99	
UPINGTON	1.04	1.13	-0.09	92	0.31	28	6	6	7	0	0	196		236	
VAN WYKSVLEI	0.62	1.17	-0.55	55	0.26	14	4	4	2	0	0	-		-	
VICTORIA WEST	1.14	1.66	-0.52	69	0.71	4	6	4	0	0	0	81		112	
VRYBURG	1.80	3.44	-1.64	52	0.62	9	9	9	1	1	0	72		105	
MAFEKING	4.82	3.16	+1.66	153	1.09	5	11	11	8	0	0	110		133	
CAPE PROVINCE : WINTER RAINFALL AREA: KAAPPROVINSIE : WINTERREËNSTREEK :															
ATLANTIS	3.92	0.81	+3.11	484	1.11	9	11	9	0	0	0	253		113	
CAPE D'AGULHAS	7.06	0.62	+6.44	1400	4.96	16	9	7	1	0	0	500		140	
CAPE TOWN ROYAL OBS	1.71	0.80	+1.11	288	0.36	8	4	4	0	0	0	140		82	
[illegible]	5.80	0.77	+5.39	466	3.19	10	9	8	0	0	0	242		84	
[illegible]	3.64	0.85	+3.09	388	0.34	9	8	8	0	0	0	146		101	
[illegible]	2.00	0.74	+1.26	270	1.10	8	6	5	0	0	0	128		91	
[illegible]	0.56	0.24	+0.32	150	0.25	8	8	6	0	0	0	110		147	
[illegible]	0.49	0.63	+0.86	145	0.16	9	8	5	0	0	0	101		172	
[illegible]	1.84	0.49	+0.35	274	0.97	9	8	8	0	0	0	213		89	
[illegible]	2.29	0.05	+0.24	380	0.14	3	8	8	0	0	0	200		100	
[illegible]	3.28	3.26	+0.02	138	0.12	9	4	4	0	0	0	136		132	
[illegible]	1.20	0.76	+0.44	164	0.36	26	5	4	0	0	0	153		93	

TABLE II - PRECIPITATION IN INCHES - FEBRUARY 1940 (CONTD).
TABEL II - NEERSLAG IN DUIME - FEBRUARIE 1940 (VERVOLG).

STATION / STASIE	FEB. 1940	NORM.	DIFF. VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO.OF DAYS: AANTAL DAE 0.01" or more	0.04" of meer	TH. H. S.	CUMULATIVE RAINFA. FROM 1.1.1940 % OF NORM.	VANAF 1.7.39. % VAN NOR
ALL-SEASONS RAINFALL AREA: / STREEK MET REEN DWARSDEUR DIE JAAR:											
DEEPWALLS	7.64	3.89	+3.75	196	2.64	17	13	13	5 0 0	172	121
GEORGE	8.91	3.37	+5.54	265	3.34	27	16	14	0 0 0	192	149
MOSSEL BAY	4.60	1.40	+3.20	328	1.75	16	14	11	0 0 0	252	142
OUDTSHOORN	2.32	0.47	+1.85	494	0.89	17	6	6	2 0 0	460	155
PORT ELIZABETH	2.47	1.29	+1.18	192	0.97	3	9	9	0 0 0	173	133
STELLENBAM	7.90	.272	+5.18	290	2.28	16	12	11	0 0 0	188	121
SYDNEY'S HOPE	1.86	1.94	-0.08	96	0.46	17	11	11	0 0 0	83	134
UITENHAGE	2.93	1.66	+1.27	177	1.15	4	10	7	0 0 0	132	148
UNIONDALE	2.17	1.01	+1.16	215	0.80	23	10	9	4 0 0	260	186
TRANSVAAL:											
BARBERTON	1.30	4.21	-2.91	31	0.44	17	9	7	4 0 0	65	101
BELFAST	4.29	4.00	+0.29	107	1.26	10	8	8	8 0 0	77	121
BETHAL	2.77	3.74	-0.97	74	0.84	23	7	6	0 0 0	90	113
BLOEMHOF	2.22	3.23	-1.01	69	1.70	9	7	6	0 0 0	78	126
ELIM HOSPITAL	3.18	5.79	-2.61	55	0.75	9	11	11	2 0 0	41	84
HEIDELBERG	2.98	4.40	-1.42	68	0.68	10	10	7	0 0 0	81	124
JOHANNESBURG	2.70	4.25	-1.55	64	0.82	10	12	10	3 0 0	80	104
JOUBERT PARK	3.38	4.90	-1.52	69	0.81	10	9	8	3 0 0	89	100
KLERKSDORP	1.14	3.11	-1.97	37	0.33	8	9	8	8 0 0	45	100
KOPJE ALLEEN	1.42	3.29	-1.87	43	0.80	11	8	8	9 0 0	72	127
LICHTENBURG	6.12	3.47	+2.65	176	1.60	27	8	8	2 0 0	116	139
LOUIS TRICHARDT	2.78	4.98	-2.17	56	1.30	8	8	8	1 0 0	54	100
MESSINA	1.11	2.34	-1.23	47	0.98	11	8	3	0 0 0	63	113
MIDDELBURG	1.49	4.09	-2.60	36	0.48	25	9	7	7 1 0	47	111
NYLSTROOM	0.94	3.63	-2.69	26	0.80	1	5	5	0 0 0	56	110
PIETERSBURG	2.57	3.13	-0.56	82	0.78	8	5	5	5 1 0	70	143
PIET RETIEF	1.22	4.77	-3.55	26	0.36	18	6	6	0 0 0	-	-
PILGRIMS REST	3.53	7.09	-3.56	50	1.24	7	12	9	4 0 0	60	101
POTCHEFSTROOM	3.88	3.70	+0.18	105	1.54	5	9	8	8 0 0	78	96
PRETORIA	1.77	4.64	-2.87	38	0.72	23	8	6	0 0 0	35	101
ROODEBERG	3.31	3.33	-0.02	99	1.36	6	5	4	0 0 0	97	122
RUSTENBURG	2.23	3.98	-1.75	56	0.77	23	6	6	0 0 0	40	113
STANDERTON	2.94	4.56	-1.62	65	0.91	23	9	7	6 0 0	66	101
VILLA NORA	0.12	2.37	-2.25	5	0.12	19	1	1	0 0 0	38	113
WAKKERSTROOM	5.31	4.44	+0.87	120	1.90	23	8	7	2 2 0	78	94
WOODBUSH	10.45	11.35	-0.90	92	6.00	6	16	15	3 0 0	60	106
ZEERUST	2.26	3.78	-1.52	60	0.75	22	8	8	0 0 0	47	96
O.F.S. : O.V.S.:											
BETHULIE	2.39	2.86	-0.47	84	1.21	4	15	8	0 0 0	57	71
BLOEMFONTEIN	3.54	3.13	+0.41	113	0.92	22	12	10	9 0 0	66	115
BOSHOF	1.04	2.61	-1.57	40	0.33	6	8	7	0 0 0	59	94
FAURESMITH	1.40	1.27	+0.13	110	0.45	28	6	5	2 0 0	91	102
HARRISMITH	2.44	3.44	-1.00	71	0.82	23	6	5	3 0 0	-	-
KROONSTAD	2.10	3.05	-0.95	69	0.75	25	11	8	0 0 0	64	102
LADYBRAND	3.51	3.74	-0.23	94	1.95	6	11	9	9 0 0	63	110
LINDLEY	1.34	3.58	-2.24	37	0.70	12	7	7	0 0 0	65	99
WINBURG	2.14	3.30	-1.16	65	0.98	5	5	4	12 0 0	60	100
ZASTRON	3.15	3.40	-0.25	93	0.60	23	9	9	13 1 0	51	99

TABLE II - PRECIPITATION IN INCHES - FEBRUARY 1940 (CONTD)
TABEL II - REËRSLAG IN DUIME - FEBRUARIE 1940 (VERVOLG)

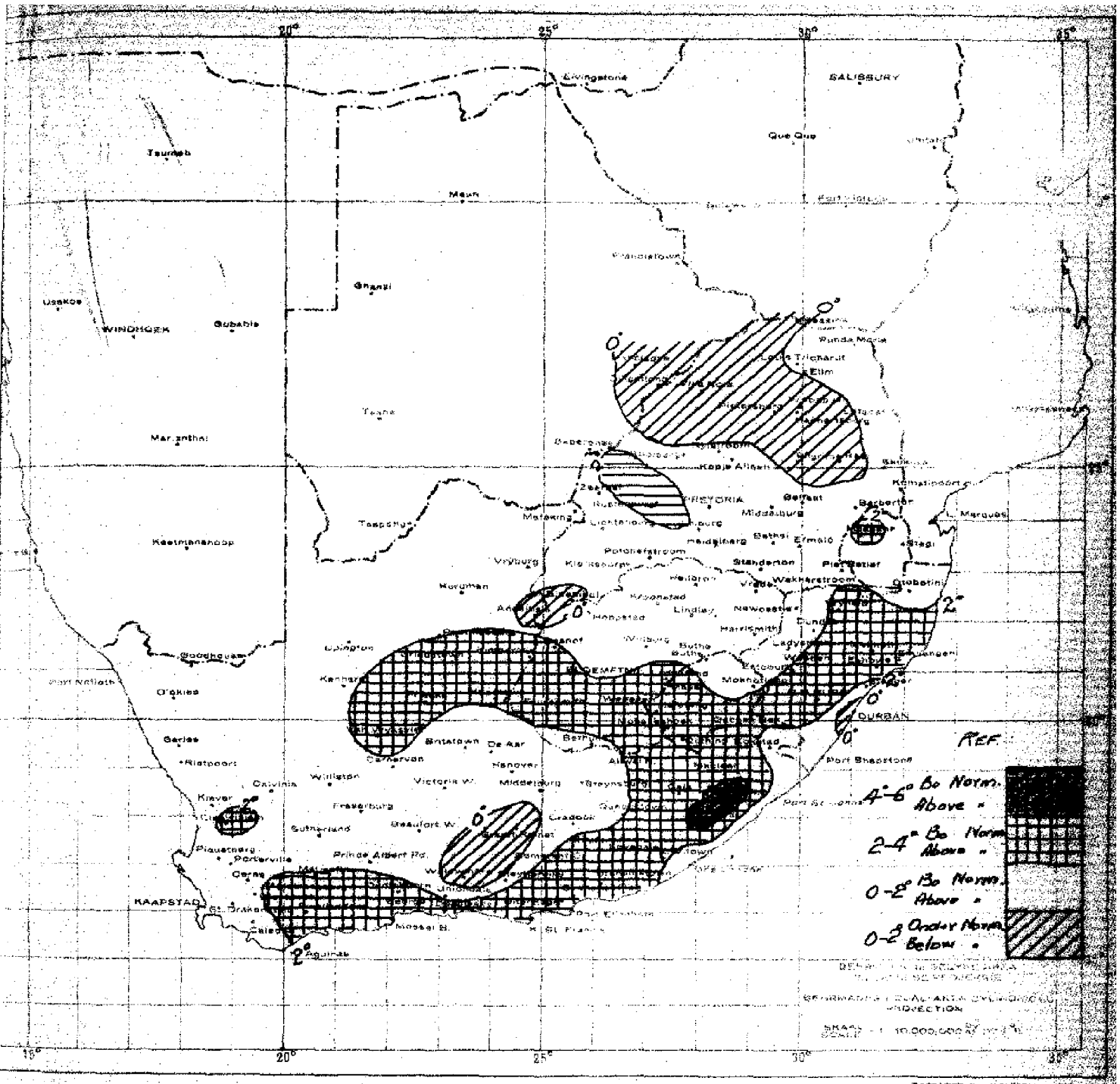
STATION STASIE	FEB. 1940	NORM.	DIFF. VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO.OF DAYS: AANTAL DAE 0.01" or more	0.04" of meer	TH. H. S. K ▲ ✱	CUMULATIVE RAINFALL FROM 1.1.1940 % OF NORM.	VANAF 1.7.1939 % VAN NORM.
NATAL:											
DUNDEE	4.01	4.82	-0.81	83	1.60	23	9	8	4 0 0	60	108
DURBAN	1.97	5.27	-3.30	37	1.06	10	5	4	0 0 0	44	107
EMPANGENI	1.06	4.52	-3.46	23	0.51	17	6	5	0 0 0	58	98
ESTCOURT	4.31	4.38	-0.07	98	1.31	29	9	8	0 0 0	94	101
LADYSMITH	2.50	4.71	-2.21	53	0.74	29	8	7	9 0 0	52	101
MELMOTH	0.79	4.22	-3.43	19	0.27	1	8	4	3 0 0	43	102
OTOBOTINI	0.84	3.41	-2.57	25	0.71	7	4	3	1 0 0	50	106
PIETERMARITZBURG	2.87	4.91	-2.04	59	0.85	6	10	8	3 0 0	58	98
PORT SHEPSTONE	2.17	4.59	-2.42	47	1.06	18	7	6	0 0 0	36	90
STANGER	0.81	4.19	-3.38	19	0.22	10	7	6	1 0 0	81	103
UBOMBO	0.69	4.68	-3.99	15	0.29	10	4	4	0 0 0	42	79
VRYHEID	1.15	4.59	-3.44	25	0.70	17	7	5	0 0 0	76	111
WEENEN	1.77	3.89	-2.12	46	0.94	22	5	4	3 0 0	74	104
BECHUANALAND : BETSJOEANALAND:											
MAHALAPYE	0.71	2.32	-1.61	31	0.21	2	6	5	1 0 0	36	89
DIKGATLONG	1.34	2.01	-0.67	67	0.88	10	3	2	0 0 0	61	104
GABERONES	0.24	2.79	-2.55	9	0.12	4	3	2	4 0 0	55	81
BASUTOLAND : BASOETOLAND:											
MAFETENG	2.92	4.36	-1.44	-	0.70	6	12	10	0 0 0	-	-
BUTHA BUTHE	2.94	4.05	-1.11	73	0.75	10	10	9	0 0 0	69	98
MOHALESHOEK	3.23	3.81	-0.58	85	0.85	9	10	10	0 0 0	69	96
QACHASNEK	5.64	5.85	-0.21	96	1.04	4	17	16	16 1 0	83	94
MOKHOTLONG	2.49	3.21	-0.72	78	0.35	5	14	13	0 0 0	109	92
SWAZILAND : SWASIELAND											
MBABANE	2.17	7.64	-5.47	28	0.40	18	10	9	0 0 0	60	112
STEGI	3.60	4.80	-1.20	75	2.44	10	5	5	0 0 0	105	-



KAART I CHART I

Februarie 1940: Gemiddelde Lugdruk (by Seespieël) om 8·30 v.m. Die gebroke lyne dui naasteby die afwyking van die normaal aan.

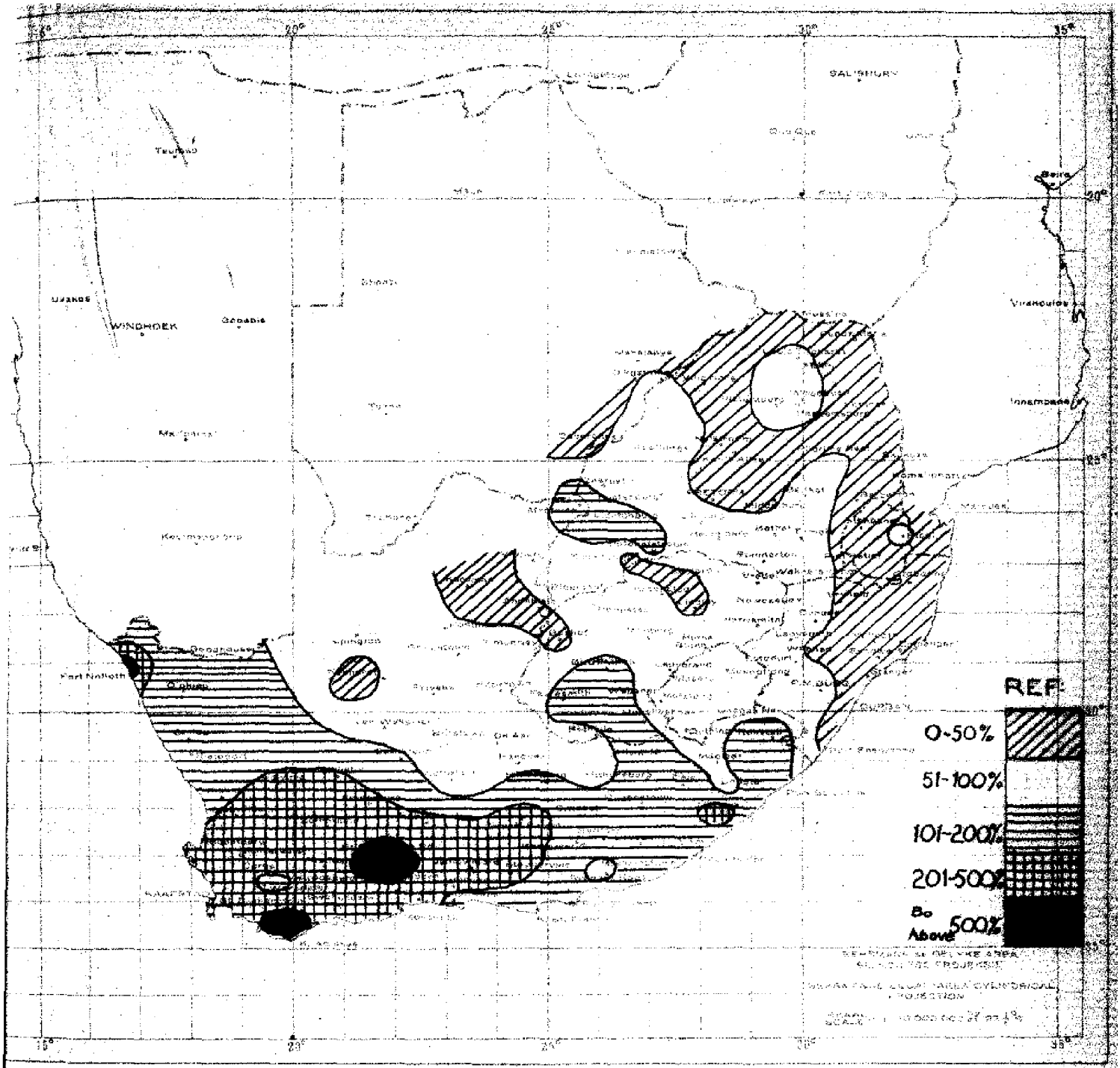
February 1940: Mean Atmospheric Pressure (at M.S.L.) at 6·30 a.m. The broken lines represent approximately the departure from the normal.



KAART II CHART II

Februarie 1940: Gemiddelde Temperatuur-afwyking van die Normaal in °F.

February 1940: Mean Temperature departures from the normal in °F.



KAART III CHART III

Februarie 1940: Neerslag aangegee as persentasie van die Normaal.

February 1940: Precipitation shown as a percentage of the Normal.

KAART IV CHART IV

…en Neerslag: 1° Julie 1939 tot 29 Feb. 1940, aangedui as persentasie van die Normaal.

…onal Precipitation: 1st July 1939 to 29 Febr. 1940, shown as a percentage of the Normal.

UNION OF SOUTH AFRICA

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

Vol XXI MARCH 1940 No. 3

GENERAL FEATURES:

Precipitation above normal roughly over the Cape Province, Bechuanaland and the western Free State and Transvaal and mainly below normal over remainder of Union; frequent thunderstorms and a few light hailstorms. Mean temperatures above normal over eastern Union and below over western Union.

PRESSURE:

The distribution of mean atmospheric pressure reduced to M.S.L. is shown on Chart I. The summer low pressure over the western interior is still very much in evidence. On the whole mean pressures were almost normal, the largest departures being less than one millibar.

TEMPERATURE:

The departures of the mean monthly temperatures from the normal are shown on Chart II. Over almost the whole Cape Province and over the greater portion of the Free State, the mean temperatures were below normal. Exceptions occurred over the eastern Cape districts and small areas in the neighbourhood of Postmasburg, Mossel Bay and Somerset East. Over the rest of the Union the temperatures were above normal. The largest positive departures (2°-3°) occurred over the coastal regions of Natal and over the northern Transvaal, whilst the largest negative departures (2° 3.4°) were confined to the western and southwestern Cape Province.

The Union as a whole showed a mean temperature of 68.7°F or 0.2° above normal. Considering the provinces separately, the Cape and Free State showed temperatures below the normal by 0.7° and 0.3° respectively, whilst those of the Transvaal and Natal were above the normal by 1.3° and 1.5° respectively.

The mean maxima, or day-temperatures, showed a similar distribution. The positive or the negative departures, however, seldom exceeded 3°F.

The mean minima, or night-temperatures, were below normal mainly over the central, western, southwestern and southern Cape Province, and above normal over the remainder of the Union. Positive departures of 2° 3° were quite common in the Transvaal.

Treating the Union as a whole the mean maximum was 79.6°F, or 0.4° below normal, and the mean minimum 57.7°F, or 0.8° above normal.

The dates corresponding with the warmest periods of this month were:- 1st to 3rd, 6th to 11th, the 28th and the 30th. The following are some of the highest temperatures registered in the different provinces:- 109° at Clanwilliam (C.P.) on the 11th; 108° at Zaaruat (Tvl.) on the 28th; 106° at Empangeni (Natal) on the 6th and 89° at Mar[illegible] on the 1st.

The lowest minimum temperatures occurred on the 8th, 12th, between the 25th to 27th and again on the 29th. The following are some of the lowest temperatures registered in each province: 42° at Wakkerstroom (Tvl.) on the 12th; 49° at Estcourt (Natal)on the 27th; 39° at Harrismith (O.F.S.) on the 29th and 34.8° at Grootfontein (C.P.) on the 8 th.

PRECIPITATION:

The distribution of precipitation expressed as a percentage of the normal is roughly shown on Chart III. Precipitation was above normal over almost the whole of the Cape Province. The exceptions here are the eastern districts of Kaffraria, the western Cape and limited areas in the vicinity of Prince Albert,Fraserburg, Beaufort West and Worcester. Over the northern provinces, precipitation was above normal over the northeastern Natal, western Transvaal, western Free State and Swaziland and some parts of the eastern and northeastern Transvaal around Barberton, Woodbush and Louis Trichardt. Over the remainder of the three northern provinces the rainfall was below normal, some areas in the neighbourhood of Vrede, Standerton, Ermelo and Ladysmith (Natal) having received less than half their normal precipitation.

By combining the data in Table II each province,with a view to find "provincial figures, the Cape, Free State, Natal and Transvaal showed surplusses amounting respectively to 34%, 24%, 1% and 9% of their normal precipitation. The different rainfall zones of the Cape, viz., the "summer-", "all seasons" and "winter rainfall" zones showed surplusses of 33%, 34% and 58% respectively. For the Union as a whole there was a surplus of 18%.

Although, normally thunderstorm activity is on the decrease at this time of the year, isolated thunderstorms occurred almost daily over the Transvaal from the 1st to the 7th. In the Free State unsettled weather commenced on the 3rd and continued until the 6th with rather heavy downpours on the 5th. The Natal weather for this period was fair, interrupted only by light showers on the 1st, 2nd and 3rd over the northern areas, whilst thunderstorms over the Cape Province were limited to the southeastern districts with more general showers over the western, southwestern and southern areas on the 2nd and 6th.

With the exception of a few isolated showers over the eastern Transvaal,the weather remained fine op to the 10th.Unsettled weather over almost the whole Union commenced again on the 11th and continued until the 22nd. Heavy showers were reported from Transvaal on the 15th and 16th and from Bechuanaland, the central and eastern Cape Province on the 17th, 18th and 19th, whilst the Free State had good, soaking rains on the 19th and 20 th. Fine weather now set in and was only interrupted by local drizzles on the 23rd and 24 th over Natal and the eastern Transvaal. The eastern Free State had isolated showers on the 26th. The west coast experienced convectional showers on the 26th and 29th; on the latter date showers extended to the central and eastern Cape Province and on the 30th and 31st also to the Free State and Natal.

HAIL:

Hailstorms occurred on the 3rd,6th and 30th in the southeastern Cape and on the 13th in the central districts of the Cape Province. Hail was also reported from the southeastern Free State on the 3rd and 6th, and from the northern districts of Natal on the 15th. From all these provinces no damage was reported.

THE CUMULATIVE PRECIPITATION:

The cumulative precipitation since the 1st January 1940 was above normal roughly over the whole of the Cape Province, and with but few exceptions below normal over

the rest of the Union.

Treating the provinces separately, the Free State, Natal and Transvaal had deficits amounting respectively to 16%, 25% and 23%, whilst the Cape Province received a surplus of 29%. The Cape "summer", "all-seasons" and "winter" zones, showed surplusses of 16%, 64% and 100% respectively. For the Union as a whole there was a deficit of 7%.

THE SEASONAL PRECIPITATION:

The Seasonal precipitation since the 1st July 1939 expressed as a percentage of the normal is roughly shown on Chart IV. For this period the Cape Province, Free State, Natal and Transvaal showed surplusses amounting respectively to [illegible], [illegible], [illegible] and 10% of their mean normal precipitation.

The Cape "summer" and "all-seasons" rainfall zones showed surplusses of 19% and 36% respectively whilst the "winter" zone had a small deficit of [illegible]. The Union as a whole received a surplus of 10%.

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D I E U N I E V A N S U I D - A F R I K A

DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR.

Deel [illegible] MAART [illegible] No. [illegible]

HOOFKENMERKE:

Neerslag bo normaal nagsteby oor die Kaapprovinsie, Betsjoeanaland en [illegible] westelike Vrystaat en Transvaal, en hoofsaaklik onder normaal oor die res van die Unie [illegible] waar ligte hoelbuie en baie donderweer. Gemiddelde temperature bo normaal oor die oostelike Unie en onder normaal oor die westelike helfte van die Unie.

LUGDRUK.

Die distribusie van gemiddelde lugdruk reduseer na seespieël, word op Kaart I aangedui. Die somer luagdruk oor die westelike binnelund is nog steeds 'n uitstaande kenmerk. Oor die algemeen was die gemiddelde druk byna normaal; die afwykings was oral minder as een millibar.

TEMPERATUUR:

Die afwykings van die gemiddelde maandelikse temperature van [illegible] die normale word op Kaart II aangedui. Gemiddelde temperature was onder normaal oor byna die hele Kaapprovinsie en oor die grootste deel van die Vrystaat. Uitsonderings kom voor in die oostelike distrikte van die Kaapprovinsie en in klein streke in die nabyheid van Postmasburg, Mosselbaai en Somerset Oos.

Oor die res van die Unie was die temperature bo normaal.

Die grootste positiewe afwykings (2° tot 3°F) het langs die kusstreke van Natal en oor die noordelike Transvaal voorgekom, terwyl die grootste negatiewe afwykings (2 tot 3.4°F) beperk was tot die westelike en suidwestelike Kaapprovinsie.

Die Unie as 'n geheel het 'n algemene gemiddelde temperatuur van 68.7°F aangedui, d.w.s. 0.2° bo normaal. Word die provinsies apart beskou dan het die Kaap en die Vrystaat gemiddelde temperature gehad wat onderskeidelik 0.7° en 0.3° onder normaal was, terwyl die vir die Transvaal en Natal onderskeidelik 1.3° en 1.5° bo normaal was. Die gemiddelde maksima, of dag-temperature het 'n gelykaardige distribusie getoon. Die positiewe of negatiewe afwykings van die normale, egter, het hoogs selde 3°F oorskry.

Die gemiddelde minima, of nag-temperature was hoofsaaklik onder normaal oor die sentrale, westelike, suidwestelike en suidelike Kaapprovinsie, en bo normaal oor die res van die Unie. Positiewe afwykings van 2 tot 3°F het taamlik algemeen voorgekom in die Transvaal.

Word die Unie as 'n geheel geneem, dan was sy gemiddelde maksimum 79.3°F, of 0.4° onder normaal en die gemiddelde minimum 57.7°F, of 0.8° bo normaal.

Die datums wat ooreenstem met die warmste periodes in hierdie maand was: 1 ste tot 3de, 6de tot 11de, die 28ste en 30ste. Volgende is sommige van die hoogste temperature wat in elke provinsie geregistreer is: 109° te Clanwilliam K.P. op die 11de; 100° te Zeerust (Tvl.) op die 28ste; 106° te Empangeni (Natal) op die 6de en 89° te Harrismith (O.V.S.) op die 1ste.

Die laagste minima temperature het op die 8ste, 12de, vanaf die 25ste tot 27 ste en op die 29ste voorgekom. Hier volg nou die laagste temperature in elke provinsie gemeet:- 42° te Wakkerstroom (Tvl.) op die 12de; 49° te Estcourt (Natal) op die 27ste; 39° te Harrismith (O.V.S.) op die 29ste en 34.8° te Grootfontein (K.P.) op die 8ste.

NEERSLAG:

Die distribusie van die neerslag, uitgedruk as 'n persentasie van die normaal, word naasteby aangetoon op Kaart III. Die neerslag was bo normaal oor bykans die hele Kaapprovinsie; uitsonderings is as volg:- reënval onder normaal oor die oostelike distrikte van Kaffraria, oor die westelike Kaap en oor klein streke in die buurte van Prins Albert, Fraserburg, Beaufort Wes en Worcester. Oor die 3 noordelike provinsies was die neerslag bo normaal in die westelike Transvaal, die westelike Vrystaat, die noordoostelike Natal en Swasiland, en oor dele van die oostelike en noordoostelike Transvaal om en by Barberton, Woodbush en Louis Trichardt. Oor die res van die noordelike provinsie was die neerslag onder normaal; sekere streke in die nabyheid van Vrede, Standerton, Ermelo en Ladysmith het selfs minder as helfte van hulle normale neerslag ontvang.

Deur die gegewens in Tabel II saam te vat en sodoende vir elke provinsie 'n "provinsiële" persentasie te bereken, vind ons dat die Kaapprovinsie, die Vrystaat, Natal en die Transvaal surpluse aantoon wat onderskeidelik 34%, 24%, 1% en 9% van hulle gemiddelde normale neerslag beteken. Die verskillende reënstreke van die Kaapprovinsie, nl:- die somerreënstreek, die streek met reën in alle seisoene, en die winterreënstreek apart beskou, het surpluse van respektiewelik 33%, 34% en 58% gehad. Vir die Unie as 'n geheel was daar 'n surplus van 18%.

Hoewel onweerstoestande hierdie tyd van die jaar aan die afneem is, het afgesonderde donderbuie byna daagliks oor die Transvaal voorgekom vanaf die 1ste tot 7de; in die Vrystaat het ongestadige weer, met swaar buie op die 5de, begin op die 3de en tot die 9de aangehou.

In Natal het die weer tydens hierdie periode taamlik mooi gebly behalwe vir 'n paar ligte buie in die noordelike gedeeltes op die 1ste, 2de en 3de, en oor die Kaapprovinsie het daar 'n paar donderbuie uitgesak in die suidoostelike distrikte, terwyl meer algemene reën in die suidwestelike en suidelike dele geval het op die 2de en die 6de.

Behalwe vir 'n paar afgesonderde buie in die oostelike Transvaal, het dit vanaf die 7de tot 10de hoofsaaklik mooi weer geheers.

Ongestadige weer met weer op die 11de, bykans oor die hele Unie begin, en tot die 22ste aangehou. Swaar buie het oor die Transvaal uitgesak op die 15de en 16de, en in Betsjoeanaland, die sentrale en oostelike Kaapprovinsie op die 17de, 18de en 19de, terwyl die Vrystaat sowie deurdringende reën op die 19de en 20ste gehad het. Hierop het hoofsaaklik mooi weer gevolg, wat onderbreek was deur lokale motreën op die 23ste en 24ste in Natal en die oostelike Transvaal, deur enkele buie in die oostelike Vrystaat op die 26ste, en deur konveksie langs die weskus op die 28ste en 29ste; op laasgenoemde datum het die buie uitgebrei tot die sentrale en oostelike Kaapprovinsie en op die 30ste en 31ste ook tot die Vrystaat en Natal.

HAEL:

Haelstorms het voorgekom op die 3de, 6de en 30ste in die suidoostelike Kaapprovinsie en op die 13de in die sentrale distrikte van dieselfde provinsie. Hael was ook gerapporteer van die suidoostelike Vrystaat op die 3de en 6de en van die noordelike distrikte van Natal op die 15de. Volgens berigte is daar nêrens skade aangerig nie.

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf 1 Januarie 1940 was bo normaal naasteby oor die hele Kaapprovinsie, en, met min uitsonderings, onder normaal oor die res van die Unie. Word die provinsies apart beskou dan dui die Vrystaat, Natal en die Transvaal tekorte aan wat onderskeidelik 16%, 26% en 23% van hulle gemiddelde normale neerslag beteken, terwyl die Kaapprovinsie 'n surplus van 29% toon. Die Kaapse somerreënstreek, die streek met reën in alle seisoene, en die winterreënstreek het surplusse van respektiewelik 14%, 44% en 10% gehad en vir die Unie as 'n geheel was daar 'n tekort van 7%.

DIE SEISOENS NEERSLAG vanaf 1 Julie 1939 uitgedruk as 'n persentasie van die normaal word naasteby aangedui op Kaart IV. Vir hierdie periode het die Kaapprovinsie, Vrystaat, Natal en die Transvaal, as eenhede beskou, surplusse getoon wat onderskeidelik 20%, 4%, 1% en 13% van hulle gemiddelde normale neerslag vir dieselfde periode beteken het. Die Kaapse somerreënstreek en streek met reën in alle seisoene (suid kus) het surplusse van onderskeidelik 19% en 36% gehad, terwyl daar vir die winterreënstreek 'n klein tekort van 1% was. Die Unie as 'n geheel het 'n surplus van 10% getoon.

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AANTEKENINGE VAN WAARNEMERS VIR MAART 1940.
OBSERVERS' NOTES FOR MARCH 1940.

KRUGERSDORP (CORONATION PARK): The month March has been an average month regarding temperatures and fairly dry. 3.42" of rain fell on 9 days against an average of 4.01" on 12 days for the past 37 years. B. Wieperink.

EMMELO: The month of March was fairly hot and dry. Rainfall much below average for this month. 1.31" were recorded on 12 days. R. Marillier.

POTCHEFSTROOM: Owing to well distributed rains during this month, general weather conditions improved considerably. Temperatures dropped, and cool weather set in from the beginning of the month. 3.25" were recorded on 12 days. B.D. Saayman.

HARTEBEESPOORT PROEFSTASIE (BRITS): Drought conditions prevailed during the first half of the month, whilst during the second half, crops suffered on account of excessive rains and drowning of fields of tobacco took place. 4.65" fell on 11 days. W.M. du Toit.

CHAMPAGNE(LYDENBURG): A very trying, warm, humid month - especially in the early part. On 18 days 5.22" fell. E.C. Boyce.

PORT SHEPSTONE: The weather up to the 15th was very sultry, after which welcome rains fell and temperatures dropped. There has been considerable haze during the month. 2.59" fell on 11 days. H.W. Mantle.

KROONSTAD: In Maart het hierdie deel goeie reëns gekry, alhoewel die reën in baie gevalle te laat was om die mielie-oes te red. 3.04" op 14 dae. D.J. van den Berg.

CAPE HERMES(PORT ST. JOHNS): Good soaking rains. 3.74" on 14 days. Fog was experienced here on the 21st and also plenty of haze, especially in the evenings. G.L. Robinson.

LOSKOP IRRIGATION WORKS: Temperatures varied between 94.2°F and 58.8°F. The days were hot and little wind was experienced. Rain fell on 12 days, totalling 2.56". The Resident Engineer.

DIKGATLONG(BECHUANALAND): March has been a very good month. Rainfall 4.66" on 11 days. Grass in abundance and veld good. Paul Jousse.

MODDERPOORT(LADYBRAND): Good rains fell during the first week, and also in the middle and towards the end of the month. Minimum thermometer fell considerably on the 23rd and remained low for nearly a week, in fact on one or two mornings there were very faint signs of ground frost. It appears as though winter may set in early; 4.08" of rain on 13 days. John W. Eddolls.

SLENT(PAARL): Generally, the month was cool with morning mists and dew. A fair amount of rain was measured. A few days were really hot; 1.25" on 6 days. R.W. Short.

MANSFIELD(ZOUTPANSBERG): Cloudy days but no rain. Country very dry and the grass brown. Mealies and crops languishing for rain. 0.63" on 7 days. J.E. Gibson.

KOPJE ALLEEN(NYLSTROOM): The rainfall for March, 3.45" on 10 days was only 0.14" above the average, but fairly well distributed throughout the month. Both day and night tempe-

ratures were above the average, the maximum being 1.3°F, and minimum 1.7°F above normal. There was 15 less bright sunshine during the month. Lyall Soutter. F.R.M.S.

VAN WYKSVLEI: The weather for the month was mild and everything normal, except for an unusual red appearance in the sky from a southern direction on the evening of the 24th. On 8 days 2.69" is recorded. Mrs. E.S.L.Dawson.

CRADOCK: Moderate weather during the month with heavy rains; 4.85" on 8 days. M. van Heerden.

AMOEDSVLAKTE(VRYBURG): Dit was oor die algemeen koel hierdie maand. Die reënval was goed en 4.25" is aangeteken op 14 dae. Die weiding is goed en verbeter steeds.
Die Verantwoordelike Beampte.

MESSINA: High minimum temperatures throughout the month have made the nights sultry - otherwise the month is an average one: 2.49" of rain on 4 days. The Mine Secretary.

QUEENSTOWN: Good rains fell on 9 days totalling 3.99". Gale on the night of the 8th, with a velocity at times over 40 miles per hour and considerable damage to trees. Exceptionally heavy rains were reported from the district. The Curator.

BENONI: The total rainfall for the month was 2.76" and fell on 10 days, as against 2.74" in the same month of the previous year. On the average the weather has been mild to cool, somewhat cloudy with low sunshine, and prevailing winds from north to northeasterly. C. R. Begley.

WEPENER: Precipitation registering 6.67" on 14 days was welcome and has produced good growth of grass which was badly needed after the dry summer. Thunder conditions prevailed throughout the month with some slight hail on the 3rd and 6th. W.T.E. Kemm.
F.R.M.S.

GOEDVILLE(LOUIS TRICHARDT): Very little wind, mainly hot with sudden falls of temperatures after rain. 10.11" of rain were recorded on 17 days. The Medical Superintendent.

DOENE(STUTTERHEIM): Die algemene weersomstandighede vir die maand was aangenaam, gekenmerk deur baie reën. Die reën was oor die algemeen sag en aanhoudend, en die grond nat en koel. 4.83" is aangeteken op 11 dae. Mis was 'n algemene verskynsel gedurende die reën-dae, met die ondergang van die son. J.H.K. Krüger.

HLATIKULU(SWAZILAND): Rainfall for the month was 4.95" on 15 days. We had several hailstorms in the district. Crops are not too good on account of the drought but stock still in good condition. The Assistant Commissioner.

SANDFLATS(MOUNT CURRIE): Precipitation for this month has not been so heavy, but some parts on the flats are still very wet, though drying on hills and mountains. Temperature still rather high. Daytime usually cloudy. Winds variable light to moderate, but high at times. The lightning accompanying storms generally rather bad. 2.01" of rain were recorded on 8 days. Hewson B. Corderoy.

MOUNT EDGECOMBE: The rainfall for the month viz. 1.64" on 11 days, is very much below average which over the past 53 years is 4.93". Temperatures were well above normal, and the month was warmest and driest March on record. The relative humidity was about normal while the total hours of sunshine were below normal. The prevailing winds were from the north and northeast, with only spells from the south and southwest. The month as a whole was very windy. The Director. S.A. Sugar Association.

WALVISBAAI: Geen meetbare reën het geval nie; slegs op die 18de het daar enkele druppels uit lae altocumulus geval. Op die 17de en 16de was hier 'n aanhoudende noordelike stroming met betrokke mag en fyn motreën oor die woestyn en oor die see uit laag drywende misbanke. Toe die misbanke op die aand van die 17de opklaar was daar 'n plaat altocumulus op 7500 voet wat baie buitengewoon was, aangesien die vorige laagste altocumulus altyd hoër as 12000 voet was en nog nooit is lae wolke hoër as 4000 voet opgemerk nie. J.J. Taljaard en R. Kleyweg.

EMERALD DALE: The rainfall for the month, 4.65" on 17 days was well distributed over the country. Crops good and country looking fine. Max Anderson.

HERMITAGE: Changeable with very hot days. The hottest, on the 17th, brought nearly 4" of soft soaking rain over a period of 3 days. 4.37" of rain were recorded on 6 days. E. Dixie.

PAULPIETERSBURG: The month was rather warm with rainfall well below normal. Springs very low for this time of the year. 3.61" of rain were recorded on 12 days. Dr. N. Lipscombe.

RIETLAAGTE(HARRISMITH): Vooruitsigte is duister. Vee swak, mielies swak, weiveld swak. Geen groenvoer sover gesaai nie. M.P. de Jager

RIETHOEK(ROUXVILLE): Rains were not general. Farmers sowing winter feed and wheat on large scale. J. N.Botha.

VLAKSPRUIT(STANDERTON): Mielie-oes 70% onder verlede jaar. Wurms en droogte die oorsaak. Op 4 dae is 0.58" gemeet. B.J. van Zyl.

VEERENKRAAL(STEYTLERVILLE): Steady soaking rain. Veld grazing has not been so good for this time of season for years. Rainfall 1.90" on 8 days. J Campbell.

WOODLANDS(KINGWILLIAMSTOWN) Condition of sheep falling owing to excessive rains. Veld very long. Feature of this month - fog most mornings and sometimes in afternoons as well. Rainfall 5.90" on 16 days. S. P. Laudrey.

BELLVILLE(BARKLY EAST): Soaking rains fell during March; no frost; veld and lands looking well which means good prospects for winter. Rainfall 6.09" on 13 days. S. Vorster.

EBENHAEZER(DE AAR): Provided winter does not set in very early, veld will be excellent, especially Karroo bush, which is very healthy thus far. Rainfall 4.79" on 8 days. D. Marais.

WOOLHOPE(KOMGHA): Country in grand order - grass and water plentiful. Stock of all kinds in good order and healthy. Maize crops only medium as top grub is prevalent in this area.Rainfall 4.41" on 12 days. T. Wright.

KLIPDRIFT(LICHTENBURG): Die maand het mooi reëns gehad. Oor die algemeen is die droogte gebreek; vee en veld is mooi. Reënval 7.06" op 9 dae. P.J.W. Schutte.

ELANDSFONTEIN(POTCHEFSTROOM): Dit is maar droog vir die tyd van die jaar. Ons sal swaar kry in die winter as Mei nog nie reën kry nie. Reënval 3.76" op 11 dae. P.J. Davidtz.

PAFFONTEIN(THABA'NCHU): Mealies have partly recovered the effects of drought but will only be one-third of a crop. Rainfall 3.54" on 6 days. J. Rabbitas.

MOOIHOEK(LINDLEY): Hot and dry, consequently the maize crop has suffered very much and is about 50% below normal. Rainfall 1.97" on 14 days. Geo. Hattingh.

VELTEVREDEN(THABA'NCHU): Although we have registered 3.40" this month,we have been suffering from a drought, grass short and has not seeded, and in order to plough we have had to irrigate the lands. Rainfall 3.40" on 9 days. M. A. Smith.

PANDALOO(WATERBERG): Nut and maize crops will be very small owing to drought. Not a blade of green grass to be seen anywhere on this farm. Rainfall 4.55" on 6 days.
E. E. Biccard.

GROOTPOORT(ZEERUST): Met die begin van die maand was toestand swak. Sedert die reën het vooruitsigte begin beter word. Reënval 4.81" op 4 dae. Die Waarnemer.

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TABEL I - TEMPERATUUR EN BEWOLKTHEID - MAART 1940.
TABLE I - TEMPERATURE AND CLOUDINESS - MARCH 1940.

Resultate van waarnemings om 0830 S.A. Standaard Tyd.
Results of observations at 0830 S.A. Standard Time.

STASIE STATION	LUG TEMPERATURE IN °F : AIR TEMPS. IN °F.								AANTAL DAE: NO. DAYS						BEWOLKTHEID: CLOUDINESS				
	Gem. Mean Max.	Gem. Mean Min.	Gem. Mean	Vers Diff Norm	Abs. Max	Dat.	Abs. Min.	Dat.	Min. Onder: Min. Below: 37	32	27	Max. Bo Max. Ab. 90	95	100	Gem. Mean	Aantal dae: No. days 0-1	2-5	6-9	10
KAAPPROVINSIE: CAPE PROVINCE:																			
ALEXANDRIA	77.8	53.6	65.7	-0.6	86.0	3	41.0	27	0	0	0	0	0	0	2	19	7	5	0
BEAUFORT WES	82.0	57.4	69.7	-0.9	98.0	2	43.2	8	0	0	0	7	3	0	4	14	8	2	7
BRITSTOWN	82.4	55.9	69.2	-1.4	97.0	15	41.6	11	0	0	0	7	1	0	2	22	4	1	4
CALA	78.2	56.5	67.4	+1.6	87.5	2	49.0	8	0	0	0	0	0	0	5	13	4	3	11
CARNARVON	82.4	54.8	68.6	-0.8	93.7	10	41.6	8	0	0	0	1	0	0	2	21	5	3	1
CERES	78.0	53.2	65.6	-3.3	94.4	1	45.0	8	0	0	0	3	0	0	3	15	6	9	1
CRADOCK	81.0	55.2	68.1	-0.9	94.0	3	41.0	8	0	0	0	5	0	0	5	6	12	13	0
DANWILLIAM	91.3	58.0	74.7	-0.1	109.0	11	50.0	7	0	0	0	18	12	7	2	18	9	2	2
DEEPWALLS	71.4	55.3	63.4	-1.1	90.5	1	46.2	7	0	0	0	1	0	0	5	12	6	3	10
GRAAFF REINET	83.5	58.1	70.8	-0.4	101.0	2	47.0	25	0	0	0	10	3	1	4	14	4	8	5
GRAHAMSTOWN	78.1	55.1	66.6	-0.1	93.6	17	42.0	8	0	0	0	4	0	0	4	13	6	9	3
H. DRAKENSTEIN	79.7	56.1	67.9	-3.2	94.4	10	49.0	7	0	0	0	5	0	0	4	17	4	7	3
HOOTFONTEIN	77.3	51.1	64.2	-1.4	86.9	2	34.8	8	1	0	0	0	0	0	4	12	7	8	4
HOPETOWN	83.6	59.5	71.6	-0.8	94.0	2	48.0	23	0	0	0	6	0	0	3	13	10	8	0
IDUTYWA	76.1	58.2	67.2	+1.5	92.0	29	48.0	8	0	0	0	1	0	0	6	6	7	7	10
KENHARDT	87.5	60.5	74.0	-1.7	99.0	12	50.0	27	0	0	0	14	3	0	2	19	9	1	2
K. AGULHAS	71.0	60.2	65.6	-0.6	77.0	1	54.0	4	0	0	0	0	0	0	5	6	11	11	3
KIMBERLEY AERO	82.6	58.7	70.7	+0.0	90.5	2	47.5	24	0	0	0	3	0	0	3	16	4	7	4
KING'MSTOWN	79.5	59.0	69.3	-1.0	98.0	29	47.0	8	0	0	0	4	2	0	5	11	4	7	9
KLAVER	83.6	58.1	70.9	-3.4	102.4	10	50.6	7	0	0	0	10	3	2	4	15	2	7	7
KOKSTAD	76.5	54.0	65.3	+1.4	85.6	6	44.9	27	0	0	0	0	0	0	4	13	5	11	2
KURUMAN (SEODIN)	80.2	56.1	68.2	-0.9	89.0	5	44.0	28	0	0	0	0	0	0	4	9	13	1	6
LAINGSBURG	75.9	50.7	63.3	-1.0	91.5	2	40.3	7	0	0	0	3	0	0	3	19	4	4	4
LICHTENBURG	79.4	59.0	69.2	-1.0	85.3	28	50.5	24	0	0	0	0	0	0	5	2	16	13	0
MOSSELBAAI	74.4	61.5	68.0	+0.6	97.3	17	53.0	7	0	0	0	1	1	0	5	9	4	12	6
MOKIEP	81.3	56.2	68.8	-2.4	95.2	10	39.0	22	0	0	0	8	1	0	2	20	5	6	0
MOS LONDEN	74.0	62.5	68.3	-0.8	82.0	11	51.0	8	0	0	0	0	0	0	5	7	8	8	8
MOUDTSHOORN	82.9	56.2	69.6	-0.5	104.5	2	46.0	8	0	0	0	6	4	1	2	20	3	8	0
PORT ELIZABETH	74.7	60.1	67.4	+0.0	88.2	13	49.5	25	0	0	0	0	0	0	4	14	4	9	4
PORT NOLLOTH	64.2	52.6	58.4	-1.4	69.0	25	46.0	27	0	0	0	0	0	0	5	13	3	3	12
PORT ST. JOHNS	75.0	66.9	71.0	-0.6	80.0	11	61.0	4	0	0	0	0	0	0	6	3	13	7	8
POSTMASBURG	81.6	60.2	70.9	+0.6	89.0	10	50.9	24	0	0	0	0	0	0	3	16	9	3	3
PRIESKA	86.5	60.3	73.4	-1.2	97.2	2	48.8	28	0	0	0	14	3	0	3	22	1	3	5
QUEENSTOWN	79.7	56.2	68.0	-0.1	91.0	2	43.0	8	0	0	0	2	0	0	6	6	6	14	5
RIETPOORT	81.6	56.0	68.8	-2.1	102.0	10	46.5	8	0	0	0	6	2	1	3	13	9	8	1
SOMERSET OOS	80.4	57.3	68.9	+1.0	97.8	11	42.8	8	0	0	0	7	2	0	4	13	4	7	6
STEYNHAGE	81.5	58.8	70.2	-0.1	102.5	17	51.0	10	0	0	0	4	2	1	5	11	6	8	5
TSOMATA	82.6	59.5	71.1	+2.1	96.0	29	50.0	8	0	0	0	5	1	0	6	9	0	7	8
UPINGTON	87.2	62.2	74.7	-2.2	99.3	2	53.2	28	0	0	0	13	5	0	3	15	11	2	3
VAN WYKSVLEI	85.3	57.6	71.5	-0.3	97.6	2	45.2	8	0	0	0	12	2	0	3	17	6	8	0
VICTORIA WES	79.6	53.8	66.7	+0.2	91.0	2	42.0	8	0	0	0	2	0	0	3	18	4	9	0
VRYBURG	81.9	57.6	69.8	-0.9	88.4	10	44.6	28	0	0	0	0	0	0	4	14	4	7	6
WILLOWMORE	78.9	51.3	65.1	-2.3	97.0	3	44.0	4	0	0	0	5	1	0	3	7	12	6	0
WINGFIELD AERO	75.6	55.8	65.7	-0.5	91.6	10	43.8	13	0	0	0	2	0	0	4	15	5	10	1
O.V.S. : O.F.S.																			
BETHULIE	78.7	54.8	66.8	-1.1	87.0	2	45.0	8	0	0	0	0	0	0	4	8	14	9	0
BLOEMFONTEIN	77.0	54.4	65.7	-1.8	84.4	3	40.8	27	0	0	0	0	0	0	4	13	5	11	2
FAURESMITH	78.4	54.9	66.7	-0.2	86.0	3	44.2	23	0	0	0	0	0	0	3	13	12	3	3
HARRISMITH	78.9	51.4	65.2	+2.1	89.0	1	39.0	29	0	0	0	0	0	0	6	5	9	17	0
KROONSTAD	77.9	55.8	66.9	-1.0	84.0	1	46.5	24	0	0	0	0	0	0	5	7	9	6	0
LADYBRAND	76.7	51.7	64.2	+0.1	81.0	4	44.0	28	0	0	0	0	0	0	3	17	2	3	5
LINDLEY	76.4	54.2	65.3	-0.9	83.0	2	41.0	23	0	0	0	0	0	0	5	6	15	4	0
[illegible]	78.2	53.9	66.1	+0.3	85.2	2	41.0	28	0	0	0	0	0	0	4	13	5	10	3

TABEL I - TEMPERATUUR EN BEWOLKTHEID - MAART 1940 (VERVOLG).
TABLE I - TEMPERATURE AND CLOUDINESS - MARCH 1940 (CONTD).

STASIE STATION	LUG TEMPERATURE IN °F : AIR TEMPS. IN °F.								AANTAL DAE:NO.DAYS						BEWOLKTHEID:CLOUDINESS				
	Gem. Mean Max.	Gem. Mean Min.	Gem. Mean	Vers. Diff. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min.Onder:Max.Bo Min.Below:Max.Ab. 37	32	27	90	95	100	Gem. Mean	Aantal dae:No.dy 0-1	2-5	6-9	10
TRANSVAAL:																			
BARBERTON	82.3	64.9	73.6	+1.7	91.9	15	60.8	26	0	0	0	2	0	0	7	4	5	16	6
BELFAST	70.0	51.1	60.6	+1.4	76.5	7	43.0	12	0	0	0	0	0	0	6	5	7	5	14
EMELO	76.4	52.6	64.5	+1.7	86.0	7	45.0	28	0	0	0	0	0	0	6	4	8	9	10
GERMISTON	75.4	56.8	66.1	+1.3	82.1	7	48.0	24	0	0	0	0	0	0	7	4	5	15	7
HEIDELBERG	79.5	54.4	67.0	+1.9	85.3	7	46.0	29	0	0	0	0	0	0	7	4	9	6	12
KLERKSDORP	79.5	57.0	68.3	-0.9	86.3	10	45.7	24	0	0	0	0	0	0	4	10	9	8	4
KOPJE ALLEEN	84.2	60.1	72.2	+1.6	89.4	3	53.1	30	0	0	0	0	0	0	5	7	8	11	1
LOUIS TRICHARDT	79.6	62.9	71.3	+2.3	88.0	6	55.0	27	0	0	0	0	0	0	8	1	2	13	15
MESSINA	89.1	70.1	79.6	+2.1	98.3	7	63.5	27	0	0	0	15	3	0	6	7	6	13	5
MIDDELBURG	77.7	54.6	66.2	+0.5	84.0	7	47.0	30	0	0	0	0	0	0	7	2	7	19	3
NYLSTROOM	83.2	58.7	71.0	+1.7	88.0	3	53.0	12	0	0	0	0	0	0	5	12	7	1	11
PIETERSBURG	79.1	57.9	68.5	+0.1	84.8	30	47.8	12	0	0	0	0	0	0	7	3	7	11	10
PIET RETIEF	78.1	56.9	67.5	+1.5	88.0	8	47.0	21	0	0	0	0	0	0	6	7	5	7	12
PELGRIMS RUS	76.6	58.1	67.4	+1.6	85.1	30	50.0	11	0	0	0	0	0	0	6	5	11	7	8
POTCHEFSTROOM	78.8	57.6	68.2	+0.3	86.0	30	46.0	24	0	0	0	0	0	0	5	7	7	14	3
PRETORIA	78.1	58.5	68.3	+1.1	82.4	8	51.0	27	0	0	0	0	0	0	7	4	5	18	4
RUSTENBURG	84.2	62.0	73.1	+2.7	90.0	8	54.0	26	0	0	0	1	0	0	8	1	4	16	10
STANDERTON	78.4	54.8	66.6	+1.6	85.6	30	44.4	29	0	0	0	0	0	0	6	3	10	13	5
VAALHARTZ	81.8	57.1	69.5	+0.3	88.8	10	44.6	27	0	0	0	0	0	0	4	12	8	7	4
WAKKERSTROOM	75.0	50.7	62.9	+2.1	88.9	8	42.0	12	0	0	0	0	0	0	5	9	5	3	14
ZEERUST	82.8	58.3	70.6	+0.7	100.0	28	50.0	24	0	0	0	3	0	1	6	5	7	8	10
NATAL:																			
DUNDEE	78.8	57.9	68.3	+1.5	89.8	6	51.2	9	0	0	0	0	0	0	5	8	5	13	5
DURBAN AERO	81.8	68.5	75.2	+1.4	90.2	6	62.0	26	0	0	0	1	0	0	6	8	6	10	7
EMPANGENI	84.3	69.2	76.8	+2.1	106.0	6	62.0	25	0	0	0	7	2	1	5	8	10	6	7
ESHOWE	82.5	64.7	73.6	+2.7	101.0	6	57.8	26	0	0	0	2	1	1	5	10	2	8	11
ESTCOURT	79.0	58.0	68.5	+0.8	89.5	6	49.0	27	0	0	0	0	0	0	7	3	5	12	1
LADYSMITH	81.5	60.4	71.0	+0.6	92.0	6	52.0	26	0	0	0	3	0	0	6	5	7	9	10
PIETERMARITZBURG	82.3	61.4	71.4	+2.1	96.2	6	53.2	25	0	0	0	5	1	0	5	12	5	9	5
OTOBOTINI	89.1	70.5	79.8	+2.2	102.0	7	64.0	26	0	0	0	13	3	3	7	3	5	14	9
PORT SHEPSTONE	79.1	67.9	73.5	+1.3	54.0	1	60.0	25	0	0	0	0	0	0	5	8	9	9	5
MALMOTH	81.6	62.5	72.1	+2.0	99.9	6	55.2	25	0	0	0	3	3	0	5	7	8	11	5
VRYHEID	79.3	58.9	69.1	+1.3	91.5	30	52.2	25	0	0	0	1	0	0	6	9	5	6	11
WEENEN	83.9	59.5	71.7	+0.3	97.0	6	53.0	30	0	0	0	6	1	0	0	0	0	0	31
BASOETOLAND:BASUTOLAND																			
BUTHA BUTHE	76.5	52.2	64.4	+0.1	82.0	5	40.0	28	0	0	0	0	0	0	5	13	6	4	8
MASERU	75.8	54.6	65.2	-0.5	82.0	2	45.0	24	0	0	0	0	0	0	3	15	8	6	2
QACHASNEK	71.0	51.3	61.2	+0.4	79.0	29	43.6	29	0	0	0	0	0	0	3	16	2	10	4
QUTHING	75.5	52.5	64.0	+0.9	84.0	3	43.0	24	0	0	0	0	0	0	3	15	7	9	5
BETSJOEANALAND:BECHUANALAND:																			
DIKGATLONG	87.6	63.9	75.8	+1.2	96.0	1	51.0	27	0	0	0	16	3	0	6	6	9	6	11
GABERONES	85.2	62.0	73.6	+1.2	95.0	7	54.0	25	0	0	0	7	1	0	6	1	16	4	10
MAHALAPYE	84.9	63.8	74.4	+0.9	96.0	4	55.0	27	0	0	0	5	1	0	7	13	2	7	9
SWAZILAND:SWAZILAND:																			
MBABANE	75.5	59.7	67.6	+1.6	87.0	6	50.0	25	0	0	0	0	0	0	6	4	9	6	12
PIGGI	79.7	62.0	70.9	+1.0	93.0	7	55.0	25	0	0	0	2	0	0	5	7	9	13	2

TABEL II : NEERSLAG IN DUIME : MAART 1940
TABLE II : PRECIPITATION IN INCHES : MARCH 1940

STASIE STATION	MAART 1940	NORM.	VERSK. DIFF.	%	MAX. HVD. AMT. IN 24H.	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" of more	TH.	H. ▲	S. ✱	VERSAMELDE NEERSLAG VANAF 1.1.1940 VAN NORM. %	FROM 1.7.193 OF NORM. %
KAAPPROVINSIE : SOMERREENVALSTREEK:													
CAPE PROVINCE : SUMMER RAINFALL AREA:													
ALIWAL NOORD	5.99	3.46	+2.53	173	1.25	20	15	13	3	0	0	123	102
BEAUFORT WES	1.36	1.75	-0.39	78	0.91	17	5	3	0	0	0	130	122
BRITSTOWN	2.49	2.46	+0.03	101	1.00	18	6	5	0	0	0	[illegible]	125
CALA	4.12	4.00	+0.12	103	1.82	20	[illegible]	[illegible]	0	0	0	1	98
CARNARVON	3.12	1.54	+1.58	202	1.13	[illegible]	[illegible]	7	0	0	0	[illegible]1	180
CRADOCK	4.85	2.34	+2.51	207	1.93	19	8	6	0	0	0	[illegible]	164
FRASERBURG	1.06	1.12	-0.06	95	0.60	17	4	2	0	0	0	[illegible]	133
GRAAFF REINET	3.09	2.41	+0.68	128	1.10	19	6	5	1	0	0	182	176
GRAHAMSTOWN	5.37	3.31	+2.06	162	2.30	19	12	8	0	0	0	[illegible]	109
GROOTFONTEIN	4.86	2.96	+1.90	164	2.10	19	7	6	2	1	0	[illegible]	162
HANOVER	6.69	2.45	+4.24	273	2.87	18	7	7	0	0	0	146	156
HOPE TOWN	3.29	2.58	+0.71	128	1.40	20	6	6	1	0	0	[illegible]6	130
IDUTYWA	3.70	3.56	+0.14	104	0.89	30	14	12	0	0	0	148	112
KENHARDT	2.08	1.21	+0.87	172	1.32	18	[illegible]	4	0	0	0	111	152
KIMBERLEY	3.77	3.05	+0.72	124	1.78	4	11	8	6	0	0	86	93
KINGWILLIAMSTOWN	3.96	3.36	+0.60	118	1.22	6	12	10	0	0	0	125	111
KOKSTAD	2.88	3.91	-1.03	74	1.14	22	9	7	3	0	0	104	102
KURUMAN	7.66	3.24	+4.42	237	3.25	20	14	11	1	0	0	127	148
MATJESFONTEIN	1.02	0.65	+0.37	157	0.63	20	3	3	0	0	0	240	98
MACLEAR	3.97	4.87	-0.90	81	0.85	19	12	12	1	0	0	73	75
MAFEKING	8.95	3.16	+5.79	284	4.54	20	14	13	0	0	0	[illegible]5	158
NELSPOORT	1.84	1.91	-0.07	96	0.62	19	6	6	0	0	0	-	-
OOS LONDEN	3.38	3.78	-0.40	89	1.67	6	13	9	2	0	0	109	90
PHILIPSTOWN	4.11	2.77	+1.34	148	1.88	19	7	6	3	0	0	109	129
PORT ST. JOHNS	3.74	5.98	-2.24	62	0.95	21	11	11	0	0	0	80	101
POSTMASBURG	6.57	2.83	+3.74	232	3.17	18	8	7	0	0	0	-	-
PRIESKA	2.17	2.08	+0.09	104	1.31	18	8	6	2	0	0	93	115
PRINS ALBERT WEG	0.00	0.62	-0.62	0	0.00	0	0	0	0	0	0	210	168
QUEENSTOWN	3.99	3.47	+0.52	115	1.82	21	9	9	0	0	0	122	109
SOMERSET OOS	4.55	3.27	+1.28	139	1.49	18	8	8	2	0	0	129	131
STEYNSBURG	3.87	2.69	+1.18	144	1.37	19	6	6	0	0	0	91	108
STEYTLERVILLE	1.62	1.53	+0.09	106	1.00	18	2	2	0	0	0	120	142
UMTATA	3.25	3.85	-0.60	84	0.52	3	14	9	0	0	0	87	95
UPINGTON	0.69	1.94	-1.25	36	0.43	11	3	2	4	0	0	115	166
VAN WYKSVLEI	2.69	1.55	+1.14	174	0.98	17	8	6	4	0	0	134	190
VICTORIA WES	2.12	1.22	+0.90	174	0.71	14	8	7	0	0	0	109	129
VRYBURG	4.54	3.41	+1.13	133	1.10	16	14	11	0	0	0	92	111
KAAPPROVINSIE : WINTERREENSTREEK :													
CAPE PROVINCE : WINTER RAINFALL AREA:													
CALVINIA	0.91	0.76	+0.15	120	0.46	17	3	3	0	0	0	136	160
CERES	1.59	0.99	+0.60	161	0.92	6	4	4	0	0	0	213	87
CLANWILLIAM	0.16	0.25	-0.09	64	0.16	6	1	1	0	0	0	116	99
GARIES	0.32	0.17	+0.15	188	0.20	10	2	2	0	0	0	-	-
GROOT DRAKENSTEIN	2.94	1.08	+1.86	272	1.54	5	10	9	0	0	0	179	101
KAAPSTAD	1.09	0.85	+0.24	128	0.46	5	10	6	0	0	0	140	88
KAAP L'AGULHAS	1.75	1.21	+0.54	145	0.78	6	11	9	0	0	0	360	148
KLAVER	0.29	0.29	0.00	100	0.21	7	4	1	0	0	0	110	125
O'OKIEP	0.10	0.42	-0.32	24	0.05	6	4	1	0	0	0	79	155
PIQUETBERG	1.51	0.54	+0.97	280	0.70	2	3	3	0	0	0	234	69
PORT NOLLOTH	0.00	0.16	-0.16	0	0.00	0	0	0	0	0	0	122	124
RIETPOORT	0.11	0.78	-0.67	14	0.09	2	2	1	0	0	0	47	132
WORCESTER	0.04	0.23	-0.19	17	0.04	17	1	1	0	0	0	125	83

TABEL II : NEERSLAG IN DUIME : MAART 1940 (VERVOLG)
TABEL II : PRECIPITATION IN INCHES : MARCH 1940 (CONTD.)

STASIE STATION	MAART 1940	NORM.	VERSK. DIFF.	%	MAX. HVD. AMT. IN 24H.	DAT. DATE	AANTAL DAE/NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	VERSAMELDE NEERSLAG VANAF 1.1.1940 % VAN NOR.	FROM 1.7.193 % OF NORM.
STREEK MET REEN DWARSDEUR DIE JAAR:													
ALL-SEASONS RAINFALL AREA:													
DEEPWALLS	3.77	4.08	-0.31	92	0.86	6	13	12	0	0	0	146	121
GEORGE	3.52	3.54	-0.02	99	1.33	7	13	12	0	0	0	159	143
MOSSELBAAI	2.51	1.47	+1.04	171	0.93	6	9	9	6	0	0	222	146
OUDTSHOORN	1.78	0.98	+0.80	182	0.73	6	6	6	0	0	0	296	159
PORT ELIZABETH	3.35	1.90	+1.45	176	1.12	19	7	7	0	0	0	175	129
SWELLENDAM	3.16	3.13	+0.03	101	0.91	6	13	10	0	0	0	154	119
SYDNEY'S HOPE	6.09	2.51	+3.58	242	2.12	17	12	12	0	0	0	145	167
UITENHAGE	3.16	2.39	+0.77	132	0.86	20	9	7	0	0	0	132	144
UNIONDALE	1.94	1.42	+0.52	137	0.92	17	8	7	0	0	0	203	155
TRANSVAAL:													
BARBERTON	5.43	3.94	+1.49	138	1.10	22	11	11	6	0	0	86	107
BELFAST	3.91	4.02	-0.11	98	1.46	9	11	11	6	0	0	118	147
BETHAL	2.41	3.42	-1.01	71	0.69	8	7	6	0	0	0	85	108
BLOEMHOF	4.77	3.30	+1.47	145	2.06	14	7	7	0	0	0	100	130
ELIM HOSPITAAL	9.41	5.30	+4.11	178	2.30	22	9	9	0	0	0	82	101
ERMELO	1.45	3.34	-1.89	43	0.98	22	3	3	0	0	0	70	-
HAENERTSBURG	3.10	6.01	-2.91	52	1.40	18	4	4	0	0	0	46	96
HEIDELBERG	2.83	3.63	-0.80	78	0.99	18	10	10	0	0	0	80	119
JOHANNESBURG OBS.	4.02	3.83	+0.19	105	1.61	20	10	10	0	0	0	65	104
JOUBERT PARK	4.39	4.32	+0.07	102	1.37	16	9	9	1	0	0	78	101
KLERKSDORP	4.65	3.08	+1.57	151	2.56	19	11	9	2	0	0	73	115
KOPJE ALLEEN	3.45	3.49	-0.04	99	1.09	5	10	7	7	0	0	81	118
LICHTENBURG	6.11	3.73	+2.38	164	1.27	17	9	9	0	0	0	131	130
LOUIS TRICHARDT	5.48	3.99	+1.49	138	1.37	23	12	3	0	0	0	76	105
MESSINA	0.49	1.42	-0.93	34	0.18	25	4	4	0	0	0	57	104
MIDDELBURG	3.92	3.44	+0.48	114	0.97	16	12	9	2	0	0	65	112
NYLSTROOM	5.51	3.43	+2.08	161	1.88	16	10	8	0	0	0	87	118
PIETERSBURG	2.26	2.80	-0.54	81	1.04	24	13	9	0	0	0	73	136
PIET RETIEF	3.48	4.21	-0.73	83	1.75	15	9	9	0	0	0	54	-
PILGRIMS REST	4.66	6.26	-1.60	74	0.68	15	20	18	7	0	0	64	100
POTCHEFSTROOM	3.25	3.20	+0.05	102	0.71	21	12	10	0	0	0	85	97
PRETORIA	3.08	3.87	-0.79	80	0.87	16	11	7	8	0	0	47	98
ROODEBERG	4.73	3.07	+1.66	154	1.83	16	10	9	0	0	0	113	127
RUSTENBURG	5.83	3.82	+2.01	152	1.40	16	8	8	0	0	0	76	119
STANDERTON	1.36	3.48	-2.12	39	0.61	1	12	8	0	0	0	59	93
VILLA NORA	1.67	2.87	-1.20	58	1.67	25	1	1	0	0	0	45	105
WAKKERSTROOM	3.46	3.52	-0.06	98	1.55	15	9	8	0	0	0	83	94
WOODBUSH	11.21	10.87	+0.34	103	1.97	17	22	19	6	0	0	73	106
ZEERUST	5.69	3.43	+2.26	166	2.36	16	8	8	0	0	0	83	99
O.V.S. O.F.S.:													
BETHULIE	4.44	3.08	+1.36	144	1.34	20	8	7	0	0	0	88	86
BLOEMFONTEIN	3.82	3.50	+0.32	109	1.04	20	11	7	4	0	0	81	114
BOSHOF	5.70	3.54	+2.16	161	1.65	20	7	7	0	0	0	99	109
FAURESMITH	5.77	2.48	+3.29	233	2.13	19	7	7	0	0	0	150	128
HARRISMITH	1.10	2.59	-1.49	43	0.32	27	12	9	0	0	0	66	-
KROONSTAD	3.13	3.29	-0.16	95	0.49	13	16	11	0	0	0	77	101
LADYBRAND	3.65	3.97	-0.32	92	0.81	3	12	12	1	0	0	73	107
LINDLEY	2.30	3.12	-0.82	74	0.52	11	10	9	0	0	0	67	95
VREDE	0.69	3.32	-2.63	21	0.47	26	2	2	0	0	0	82	99
WINBURG	6.67	4.15	+2.52	161	1.87	3	14	12	8	2	0	88	103
WINBURG	4.31	3.46	+0.85	125	1.86	3	8	8	7	0	0	81	105

TABEL II : NEERSLAG IN DUIME : MAART 1940 (VERVOLG)
TABLE II : PRECIPITATION IN INCHES : MARCH 1940 (CONTD.)

STASIE STATION	MAART 1940	NORM.	VERSK. DIFF.	%	MAX. HVD. AMT. IN 24H	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	VERSAMELDE NEERSLAG VANAF 1.1.1940 % VAN NORM.	FROM 1.7.1939 % OF NORM.
NATAL:													
DUNDEE	1.87	4.10	-2.23	46	0.63	31	8	8	0	0	0	56	100
DURBAN	2.91	6.03	-3.12	48	1.09	23	8	8	0	0	0	46	98
EMPANGENI	11.33	5.78	+5.55	196	3.45	15	14	11	0	0	0	116	114
ESHOWE	6.65	7.50	-0.85	89	1.55	21	14	11	0	0	0	-	-
ESTCOURT	2.64	3.93	-1.29	67	0.87	1	11	8	4	0	0	86	96
LADYSMITH	2.03	4.22	-2.19	48	0.93	22	11	9	4	0	0	51	93
MELMOTH	3.21	4.30	-1.09	75	0.77	18	13	10	5	0	0	53	98
OTOBOTINI	10.65	4.68	+5.97	228	2.48	26	11	10	3	0	0	126	138
PIETERMARITZBURG	4.60	5.30	-0.70	87	1.70	23	13	13	0	0	0	68	96
PORT SHEPSTONE	2.59	5.87	-3.28	44	1.14	22	11	8	3	0	0	39	82
STANGER	4.47	5.40	-0.93	83	1.28	15	15	11	0	0	0	82	100
UBOMBO	10.97	4.49	+6.48	244	2.65	17	11	11	0	0	0	103	103
VRYHEID	3.34	4.16	-0.82	80	0.94	22	12	9	2	1	0	77	107
WEENEN	2.40	3.08	-0.68	78	1.30	22	6	6	3	0	0	82	101
BETSJOEANALAND : BECHUANALAND:													
MAHALAPYE	4.29	2.51	+1.78	171	1.41	8	10	9	0	0	0	74	97
DIKGATLONG	4.66	2.83	+1.83	165	1.88	16	11	9	0	0	0	96	118
GABERONES	4.08	3.27	+0.81	125	1.42	16	10	10	0	0	0	79	89
BASOETOLAND : BASUTOLAND:													
BUTHA BUTHE	3.22	4.59	-1.37	70	0.92	22	8	8	0	0	0	70	90
MAFETENG	4.60	4.50	+0.10	102	1.09	6	12	12	0	0	0	66	91
MOHALESHOEK	4.81	4.45	+0.36	108	1.69	11	11	10	0	0	0	83	99
MOKHOTLONG	2.24	2.52	-0.28	89	0.51	5	12	10	0	0	0	103	91
QACHASNEK:	3.57	4.81	-1.24	74	1.60	3	11	10	6	1	0	80	100
SWASIELAND : SWAZILAND:													
MBABANE	10.58	7.85	+2.73	135	4.40	15	18	18	0	0	0	83	115
STEGI	10.52	4.65	+5.87	226	3.30	18	12	12	0	0	0	143	-

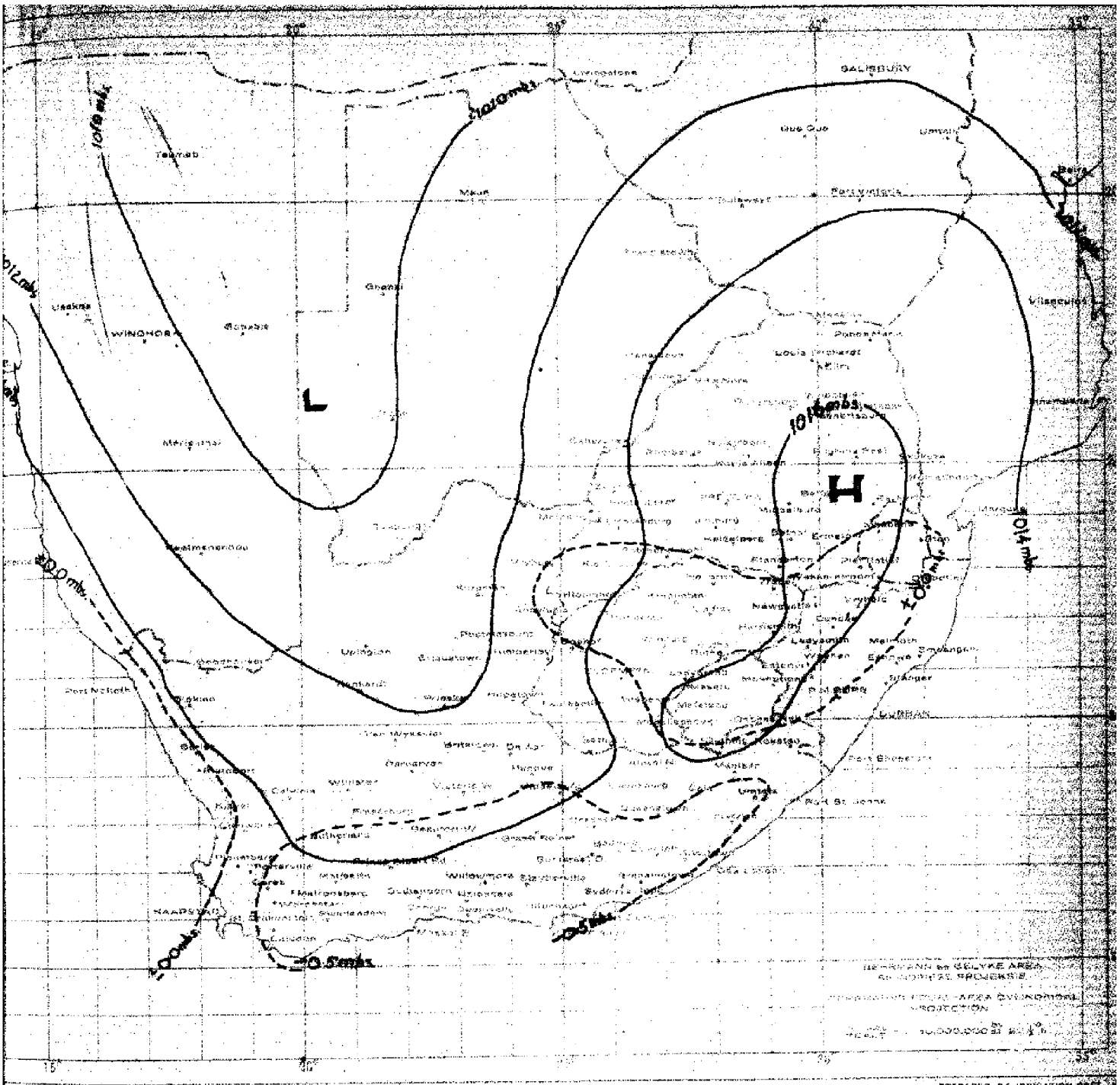


CHART 1 KAART 1

March 1940: Mean Atmospheric pressure (at M.S.L.) at 8·30am. The broken lines represent the departure from the normal pressure for March.

Maart 1940: Gemiddelde Lugdruk (by Seespieël) om 8·30 v.m. Die gebroke lyne dui die afwyking van die normaal vir Maart aan.

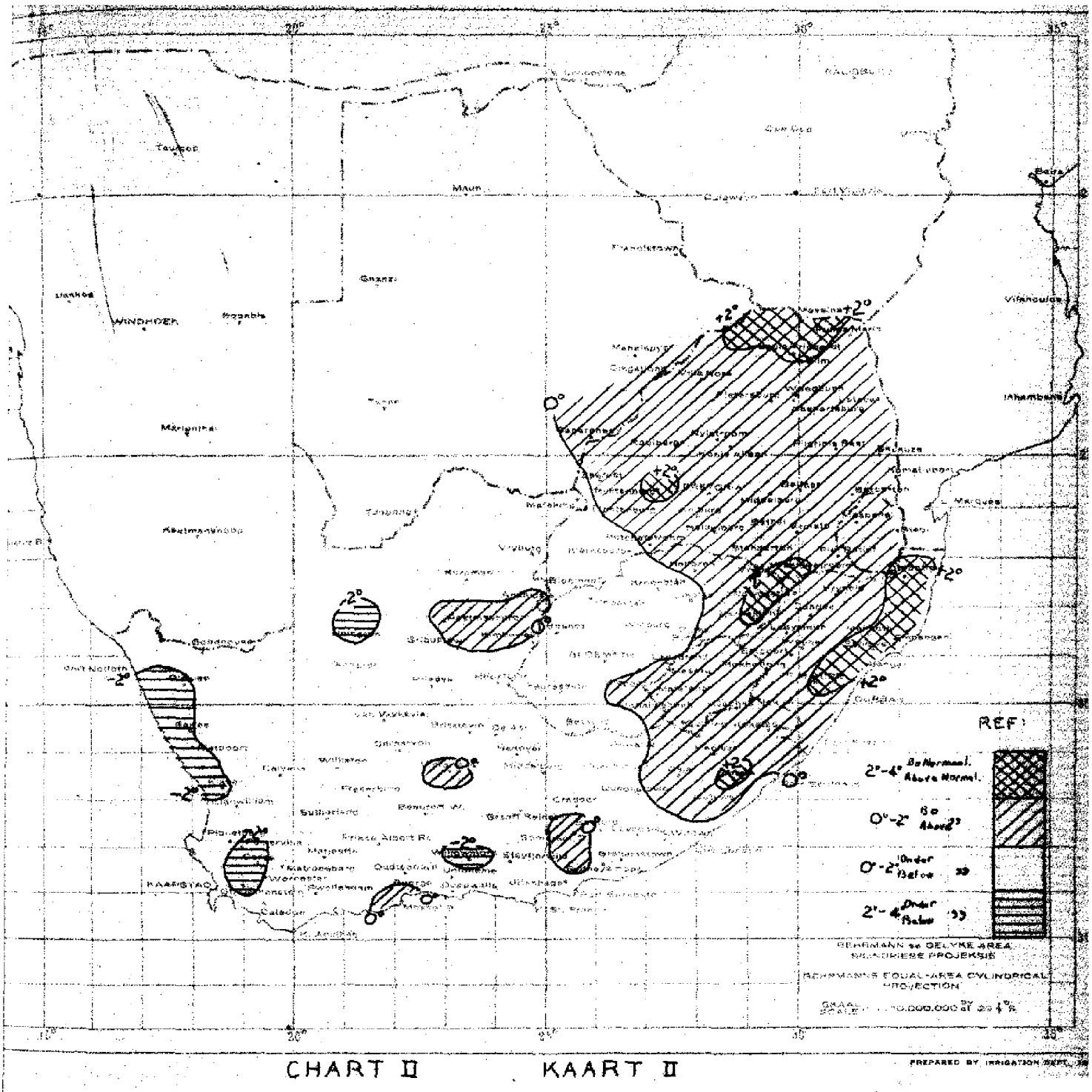
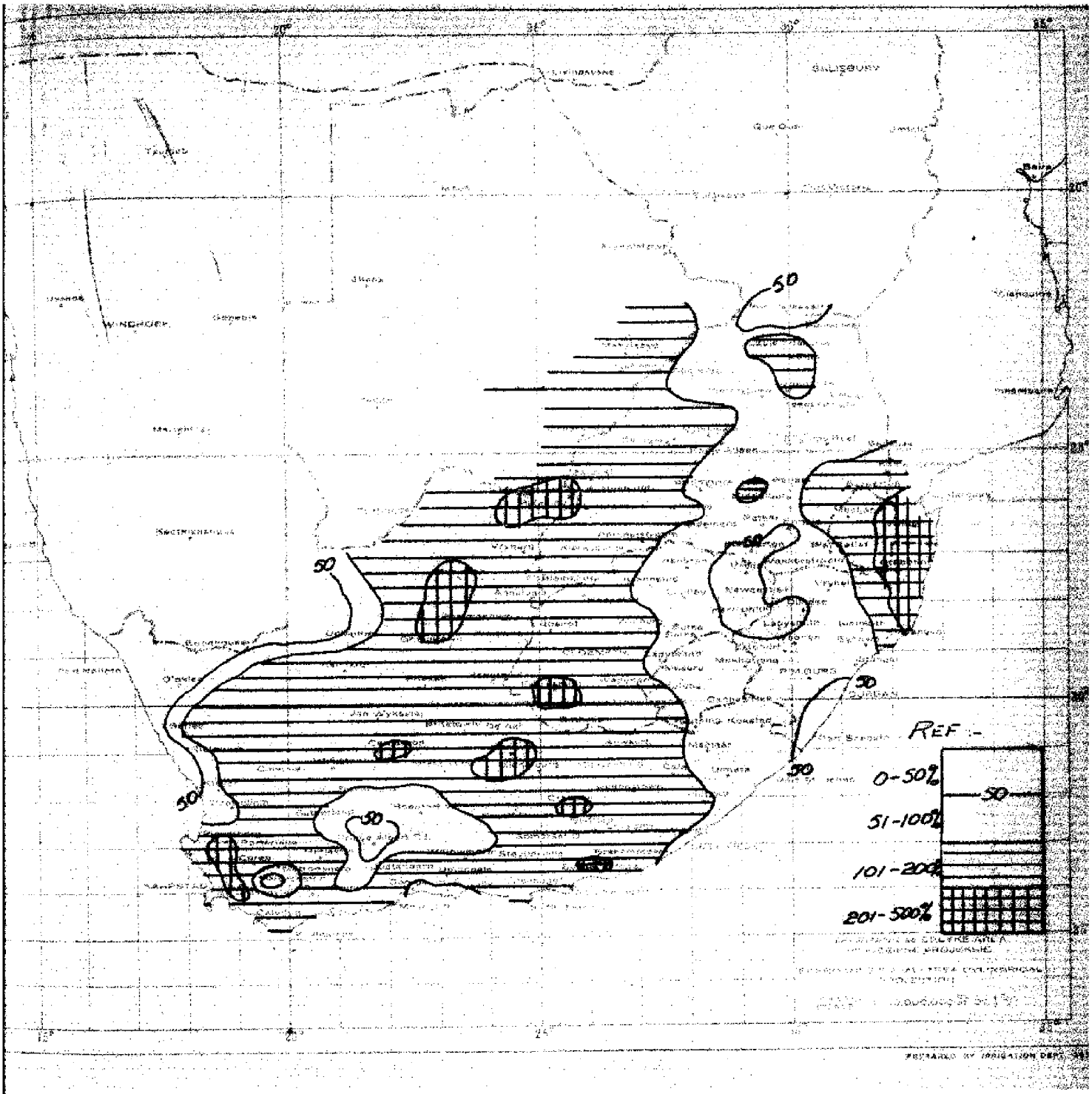


CHART II KAART II

March 1940 : Mean Temperature departures from the Normal in °F.

Maart 1940 : Gemiddelde Temperatuur afwykings van die Normaal in °F.



KAART III — CHART III

March 1940: Precipitation shown as a percentage of the Normal.

Maart 1940: Neerslag aangegee as 'n persentasie van die Normaal.

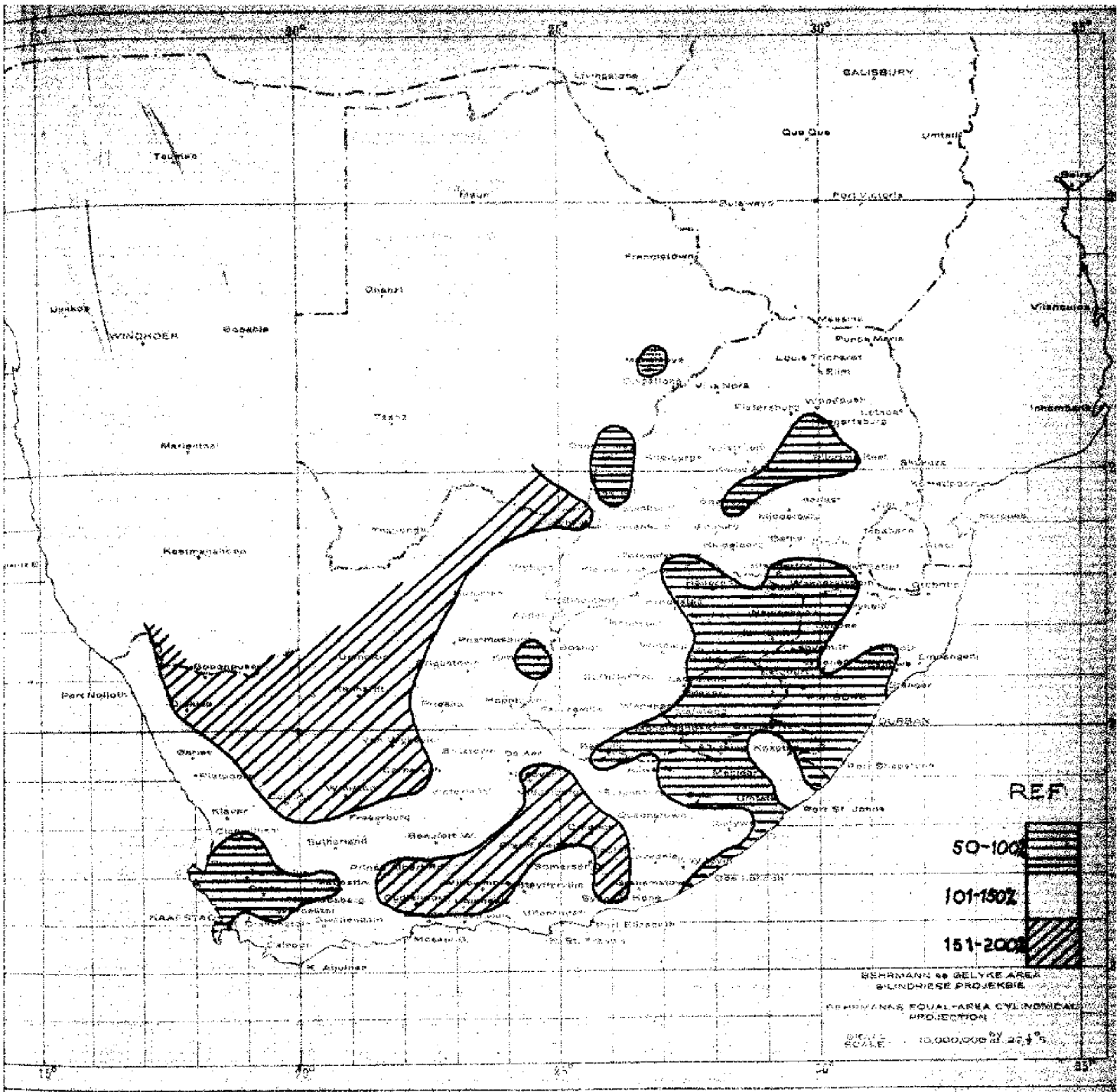


CHART IV KAART IV

Seasonal Precipitation: 1st July 1939 to 31st March 1940, shown as a percentage of the Normal.

Seisoen Neerslag: 1 Julie 1939 tot 31 Maart 1940, aangegee as 'n persentasie van die Normaal.

D I E U N I E V A N S U I D - A F R I K A

DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR.

Deel XXI APRIL 1940 No. 4

HOOFKENMERKE:

Oor die algemeen was die temperature onder normaal; die eerste ligte ryp van hierdie jaar het aan die begin van die maand voorgekom. Neerslag heelwat bo normaal oor die Transvaal, Vrystaat en die winterreënstreek van die Kaap - origens algemeen onder normaal; kwaai stormwinde op die 29ste langs die kuststreke van die Kaap; afgesonderde haelstorms wat somtyds aansienlike skade veroorsaak het.

LUGDRUK:

Die gemiddelde lugdruk vir April word aangegee op Kaart I. Die gemiddelde lugdruk was ietwat onder normaal oor Natal, die Vrystaat en die oostelike en sentrale Kaapprovinsie maar bo normaal oor die res van die Unie. Die grootste positiewe afwyking naamlik 1.9 mb. het langs die weskus te Port Nolloth voorgekom.

TEMPERATUUR:

Die afwykings van die gemiddelde maandelikse temperatuur vanaf die normaal, word aangegee op Kaart II. Die gemiddelde temperature was bo normaal oor die Hoëveld van die Transvaal, oor die noordelike en oostelike gedeeltes van hierdie provinsie asook oor Swaziland en die grootste gedeelte van Natal. Oor die res van die Unie, was die gemiddelde temperature heelwat bo normaal; negatiewe afwykings van 2 tot 4° het voorgekom oor die westelike Vrystaat en oor die hele binneland van die Kaapprovinsie.

Vir die Unie as geheel was die gemiddelde temperatuur 62.5°F, of 1.2° onder normaal. Vir die Kaapprovinsie, Transvaal, Vrystaat en Natal, as eenhede beskou, was die temperature onderskeidelik 2.1°, 0.1°, 1.9° en 0.1° onder normaal.

Die gemiddelde maksima of dagtemperature, het dieselfde distribusie getoon as die gemiddelde temperature; die grootste negatiewe afwykings (4-6°F) het voorgekom in die omgewing van Aliwal Noord, Bethulie, Middelburg (KP.), Ceres, Matroosberg en O'okiep.

Die gemiddelde minima of nagtemperature was onder normaal veral oor die Kaap, Vrystaat en suidelike Natal. Met uitsondering van die sentrale en westelike Transvaal was die temperature in hierdie provinsie bo normaal. Negatiewe afwykings van 2°-4°F was algemeen oor die noordelike en westelike distrikte van die Kaapprovinsie.

Word die Unie nou as geheel beskou, dan was die gemiddelde maksimum 74.9°F of 1.5° onder normaal en die gemiddelde minimum 50.1°, of 0.9° onder normaal.

Die hoogste temperature was gemeet naasteby op die 1ste en 2de, vanaf die 10de tot die 13de en op die 16de, 17de en 29ste. Die volgende is sommige van die hoogste temperature wat in elk van die provinsies geregistreer is: 102°F te Clanwilliam (KP.) op die 10de, 98° te Komatipoort (Tvl.) op die 17de; 99° te Stanger (Natal) op die 29ste [illegible] op die 1ste.

Die laagste minimum temperature het voorgekom op die 3de, 4de, 7de, 8ste en 30ste. Die volgende is sommige van die laagste temperature wat in die verskillende provinsies gemeet is: 30°F te Sutherland (KP.) op die 3de; 29° te Ermelo (Tvl) op die 7de; 39° te Dundee (Natal) op die 8ste en 28.1° te Bloemfontein (O.V.S.) op die 30ste.

RYP:

Gedurende die eerste 10 dae van hierdie maand het die eerste ryp van die jaar voorgekom; dit was naasteby beperk tot die sentrale Kaapprovinsie, die Vrystaat en die hoëveld van die Transvaal. Oor die algemeen beskou, skyn dit nie of die ryp baie kwaai was nie en landboukundige waarnemers het geen skade rapporteer nie. (Sien ook notas van waarnemers asook minimum temperature in Tabel I.)

NEERSLAG

Die distribusie van die neerslag, aangegee as 'n persentasie van die normaal word naasteby aangedui op Kaart III. Hieruit blyk dat die westelike, suidwestelike en beperkte gedeeltes van die oostelike Kaapprovinsie, die Vrystaat en die grootste gedeelte van die Transvaal, 'n algemene surplus aan reënval gehad het. Oor die res van die Unie was die neerslag heelwat onder normaal. Streke in die omgewing van Steytlerville, Prins Albert Weg, Kenhardt en Port Nolloth het geen reen gekry nie; hierby kan ook melding gemaak word van 'n taamlike droë streek in die westelike Transvaal in die nabyheid van Lichtenburg en Klerksdorp waar minder as 50% van die normale neerslag gemeet is. Daarenteen het streke in die omgewing van Mahalapye, Pietersburg, Rooiberg (nw. Tvl.), Barberton, Lindley, Mafeking, Matroosberg, Kaapstad en Rietpoort (Namakwaland) meer as twee maal die normale reënval ontvang.

Word die reënval data van Tabel II vir elke provinsie apart saamgevat dan word gevind dat die Kaapprovinsie en Natal tekorte wat onderskeidelik 17% en 27% van die normale waardes bedra, aangetoon het, terwyl die Vrystaat en die Transvaal surplusse onderskeidelik van 15% en 29% gehad het. Van die Kaapprovinsie se drie reënstreke, het die "somerreënstreek" en "streek met reën in alle seisoene" tekorte van 34% en 33% aangetoon, daarenteen het die "winterreënstreek" 'n surplus van 47% gehad. Vir die Unie as geheel was daar 'n tekort van 2%.

In teenstelling met die gunstige weer wat teen die einde van verlede maand oor Transvaal geheers het, het algemene donderstorms opnuut oor hierdie provinsie op die 1ste uitgesak, terwyl afgesonderde buie oor die res van die Unie nog steeds aangehou het. Met uitsondering van beperkte gedeeltes in die suidoostelike en noordwestelike Transvaal was geen neerslag op die 3de en 4de rapporteer nie Algemene ongestadige weer het op die 5de voorgekom; stormwinde het langs die suidkus van die Kaapprovinsie gewoed; motreëns het oor al die provinsies uitgebrei en het tot op die 6de aangehou oor die suidelike Kaap, Natal en oor die sentrale en westelike gedeeltes van die Transvaal. Vir die tydperk vanaf die 7de tot die 14de is geen neerslag gemeet nie. Donderstorms het egter weer voorgekom oor die suidoostelike distrikte van die Kaapprovinsie en ook oor Natal op die 15de; soortgelyke buie het oor die Transvaal en Natal vanaf die 16de tot die 18de uitgesak. Hierna was 'n periode van gunstige weer tot die 21ste ondervind. Vanaf die 21ste tot die 24ste het die Kaapprovinsie en Vrystaat egter weer ongestadige weer gehad, wat na Natal en die Transvaal op die 23ste en 25ste uitgesprei het. Die algemene mooi weer wat van die 25ste tot die 27ste geheers het, was opgevolg deur reën en stormagtige weer op die 28ste oor die hele Unie. Orkane het langs die suidelike en suidoostelike kuskstreke op die 29ste gewaai, terwyl stofstorms oor die binneland voorgekom het.

HAEL:

Dit skyn of hael beperk was tot 'n paar distrikte nl. Wepener (O.V.S.) op die 1ste en 16de, Barkly Oos (KP.) op die 16de, Armoedsvlakte (Vryburg KP.) op die 17de, Modderpoort (Ladybrand O.V.S.) op die 28ste en Brits (Tvl.) op die 25ste. In laasgenoemde instansie was aansienlike skade aan tabaklanderye aangerig.

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf die 1ste Januarie 1940, was bo normaal oor die grootste gedeelte van die Kaapprovinsie en oor 'n klein streek in oostelike Natal en Swaziland.

Vir hierdie tydperk het die Vrystaat, Natal en Transvaal tekorte getoon wat onderskeidelik 10%, 26% en 19% van die normale bedra het, terwyl die Kaapprovinsie 'n surplus van 20% gehad het. Word die Kaapprovinsie in sy verskillende reënvalstreke verdeel, dan vind ons dat die "streek met reën in alle seisoene" die "somerreënstreek" en die "winterreënstreek" surplusse van onderskeidelik 40%, 8% en 80% aangetoon het. Die Unie as geheel het 'n tekort van 6% gehad.

DIE SEISOEN NEERSLAG

Die seisoen neerslag vanaf 1ste Julie 1939, aangedui as 'n persentasie van die normaal, word naasteby aangegee op Kaart IV. Vir hierdie periode het die Kaapprovinsie, Vrystaat en Transvaal surplusse van 17%, 5% en 10% respektiewelik aangetoon, terwyl Natal 'n tekort van 1% gehad het. Die verskillende reënvalstreke van die Kaapprovinsie nl. die "somerreënstreek", "streek met reën in alle seisoene" en die "winterreënstreek het surplusse van onderskeidelik 13%, 31% en 12% gehad. Die Unie as geheel het 'n surplus van 10% getoon.

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U N I O N O F S O U T H A F R I C A

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

Vol XXI APRIL 1940 No. 4

MAIN FEATURES:

Temperatures on the whole subnormal; first light frost of this year occurred in the beginning of this month; precipitation well above normal over the Transvaal, Free State and the winter rainfall zone of the Cape Province - otherwise mainly below normal; terrific gales on the 29th along Cape coast; isolated hailstorms, sometimes cau-

sing considerable damage.

PRESSURE:

The mean atmospheric pressure for April is shown on Chart I. Mean pressure was slightly below normal over Natal, the Free State and the eastern and central Cape Province, and above normal over the rest of the Union. The largest positive departure, viz. 1.9 mb., occurred on the west coast at Port Nolloth.

TEMPERATURE:

The departures of the mean monthly temperatures from the normal are shown on Chart II. The mean temperatures were above normal over the Highveld of the Transvaal, over the northern and eastern portion of this province as well as over Swaziland and the greater portion of Natal. Over the remainder of the Union the mean temperatures were well below normal; negative departures of 2 to 4° occurred over the western Free State and over the entire interior Cape Province.

For the Union as a whole the general mean temperature was 62.5°F, or 1.2 below normal. The Cape Province, Transvaal, Free State and Natal, considered as units, showed temperatures below normal by 2.1°, 0.1°, 1.9° and 0.1° respectively.

The mean maxima or day temperatures showed the same distribution as the mean temperatures, the largest negative departures (4.6°F) occurring in the neighbourhood of Aliwal North, Bethulie, Middelburg (C.P.), Ceres, Matroosberg and Olokiep.

The mean minima or night-temperatures were below normal mainly over the Cape, Free State and southern Natal. With the exception of the central and western Transvaal, the temperatures were above normal in this province. Negative departures of 2.4° were common over the northern and western districts of the Cape Province.

Considering the Union as a whole, the mean maximum was 74.9°F, or 1.5° below normal, and the mean minimum 50.1°, or 0.9° below normal.

The warmest days of the month occurred on the 1st and 2nd, from the 10th to the 13th and on the 16th, 17th and 29th. The following are some of the highest temperatures recorded in each of the provinces: 102°F at Clanwilliam (C.P.) on the 10th; 98° at Komatipoort (Tvl.) on the 17th; 99° at Stanger (Natal) on the 29th and 81.5° at Kroonstad (O.F.S.) on the 1st.

The lowest minimum temperatures occurred on or about the 3rd, 4th, 7th, 8th and 30th. The following are some of lowest temperatures reached in each province: 30°F at Sutherland (C.P.) on the 3rd; 29° at Ermelo (Tvl.) on the 7th; 39° at Dundee (Natal) on the 8th; 28.1° at Bloemfontein (O.F.S.) on the 30th.

FROST:

The first frosts of this year occurred during the first 10 days of this month, and were mainly confined to the central Cape Province, the Free State and the Transvaal Highveld. On the whole the frost does not seem to have been at all severe, and no damage was reported by agriculturists. (See also observers' notes and minimum temperatures in Table I.)

PRECIPITATION:

The distribution of precipitation expressed as a percentage of the normal is roughly shown on Chart III. The western, southwestern and limited areas of the eastern Cape Province, the Free State and the greater portion of the Transvaal had a surplus of

precipitation. The rainfall over the rest of the Union was well below normal. Areas in the vicinity of Steytlerville, Prince Albert Road, Kenhardt and Port Nolloth received no rain at all and a comparitively dry area in the western Transvaal around Lichtenburg and Klerksdorp with less than 50% of the normal must also be mentioned. On the other hand local areas in the neighbourhood of Mahalapye, Pietersburg, Rooiberg (nw. Tvl.) Barberton, Lindley, Mafeking, Matroosberg, Cape Town and Rietpoort (Namaqualand) received more than twice their normal rainfall.

Combining the rainfall data contained in Table II for each province separately, we find that the Cape Province and Natal showed deficits amounting respectively to 17% and 27% of their mean normal precipitation, whilst the Free State and Transvaal had surplusses of 15% and 29% respectively. The "summer" and "all seasons" rainfall zones of the Cape showed deficits of 34% and 33% respectively, whilst the Cape winter rainfall zone had a surplus of 47%. The Union as a whole showed a small deficit of 2%.

In contrast to the prevailing fine weather over Transvaal towards the end of the last month, general thunderstorms started afresh over this province on the 1st, whilst isolated showers continued over the remaining provinces. With the exception of local areas in the southeastern and northwestern Transvaal, no rains were reported on the 3rd and 4th. General unsettled weather conditions were experienced on the 5th; winds reaching gale force along the south coasts of the Cape, with drizzles spreading over all the provinces and continuing over the southern Cape, Natal and the central and western portions of Transvaal on the 6th. The period 7th to 14th is characterised by the complete absence of precipitation. Thundershowers again occurred over the southeastern districts of the Cape Province and also over Natal on the 15th spreading to Natal and Transvaal from the 16th to 18th. After this followed a period of fine weather up to the 21st. Unsettled conditions with light showers again prevailed from the 21st to the 24th over the Cape Province and Free State and spread to Natal and the Transvaal on the 23rd and 25th. From the 25th to 27th mainly fine weather prevailed, but on the 28th general rainy and boisterous weather set in over the whole Union. Terrific gales blew along the southern and southeastern coastal zones on the 29th, whilst duststorms occurred over the interior.

HAIL:

Hail seems to have been confined to a few districts viz. Wepener(O.F.S.) on the 1st and 16th, Barkly East (C.P.) on the 16th, Armoedsvlakte (Vryburg C.P.) on the 17th and Brits (Tvl.) on the 25th, as well at Modderpoort (Ladybrand) on the 28th. In the latter instance extensive damage was caused to tobacco crops.

THE CUMULATIVE PRECIPITATION:

The cumulative precipitation since the 1st January 1940 was above normal over the greater portion of the Cape Province and over a small area in eastern Natal and Swaziland.

For this period the Free State, Natal and Transvaal showed deficits amounting respectively to 10%, 26% and 19% of the normal, whilst the Cape Province had a surplus of 20%. Dividing the Cape Province into its different rainfall zones we find that the "summer", "all seasons" and "winter" rainfall zones showed surplusses of 8%, 40% and 80% respectively. The Union as a whole had a deficit of 6%.

THE SEASONAL PRECIPITATION:

The seasonal precipitation since 1st July 1939, expressed as a percentage of the normal, is roughly shown on Chart IV.

For this period the Cape Province, Free State and Transvaal showed surplusses of 17%, 5% and 10% respectively, whilst Natal had a small deficit of 1%. The rainfall zones of the Cape Province, viz, the "summer", "all seasons" and "winter" zones, showed surplusses of 13%, 31% and 12% respectively. The Union as a whole had a surplus of 10%.

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AANTEKENINGE VAN WAARNEMERS VIR APRIL 1940.

OBSERVERS' NOTES FOR APRIL 1940.

ARMOEDSVLAKTE(VRYBURG): Oor die algemeen was dit koel hierdie maand met die uitsondering van 'n paar koue nagte. Reënval taamlik goed 2.27" op 9 dae. Hael en reën het voorgekom op die 17de. Die Verantwoordelike Amptenaar.

POTCHEFSTROOM: The leading feature this month was the gradual and steady drop in temperatures. On the 7th and 8th frost was registered after which the temperatures became normal and steady again. The nights became cool and sometimes very cold, while the days were hot. The precipitation, although not very high, was well distributed, and 0.87" were recorded on 5 days. B. D. Saayman.

HARTEBEESPOORT(PROEFSTASIE BRITS): Conditions were congenial throughout this month except for a severe hailstorm on the 25th at 7.40 to 7.50 p.m., when tobacco and crops were totally destroyed. 1.48" of rain were recorded on 6 days. W. M. du Toit.

BENONI: The month has been generally overcast, with heavy rain, clouds on many days. Rain fell on 8 days, totalling 0.75". There has been a change of weather tto winter climate; slight frost noticed on the 7th. C. R. Begley.

KOPJE ALLEEN(NYLSTROOM): Despite the fact that the lowest day and night temperatures were recorded during the first half of the month, the second half of April was warmer than the first. Rainfall amounted to 1.78" on 11 days, which is 0.59" above the average of 28 years. J. Lyall Soutter. F.R.M.S.

LOSKOP IRRIGATION WORKS: Temperatures varied between 88.6°F and 49.3°F. 1.24" of rain fell on 11 days. Rainfall was below normal, and the usual ploughing rain did not occur. The Resident Engineer.

PRETORIA FARM(PIETERSBURG): Temperatures at the end of the month rather higher than than usual, otherwise conditions were normal. 2.32" of rain were recorded on 6 days. R. Bendall.

ATHOLE(ERMELO): Oor die algemeen was die maand besonder winderig met warm sonskyn oor dag. Bewolkte lug is dikwels waargeneem en 2.35" reën is aangeteken op 11 dae. A. H. du Plessis.

PORT SHEPSTONE: The weather during this month has been fine, with low temperatures but occasional warm northwesterly winds. 1.46" of rain fell on 7 days. The Lightkeeper.

BADPLAATS(CAROLINA): Die maand was oor die algemeen gunstig, alhoewel die nagte nou koud word. Gevalle van koors minder as verlede jaar. Veld groen en vee goeie kondisie. 1.16" duim reën is aangeteken op 5 dae. I. M. van Rooyen.

KIMBERLEY AERO: The rainfall for the month was much below average. First light frosts experienced. Winds mainly light northerly, falling in evening. 0.65" of rain on 7 days. J.G. Gwayda. Met. Asst.

LADYBRAND: Oor die algemeen 'n heerlike maand met koel nagte en sonnige dae. Ryp is baie selde waargeneem, en 1.67" reën is aangeteken op 7 dae. Die Goewermentsbosbouer.

MODDERPOORT(LADYBRAND): The first few days were stormy; a short cold spell following. For the remainder of the month the weather was unsettled. There were heavy thunderstorms with hail during the early hours of the 28th and the 29th. An outstanding feature of the month is that the vegetation is still quite green for this time of the year. 3.16" of rain fell on 9 days John. W. Fadis.

NEWCASTLE(CONVENT): There was a short spell of winter weather at the beginning of the month, thick mists towards the middle of the month, usually lifting about 9 a.m. On the 29th and 30th strong northerly winds blew all day. 1.01" of rain fell on 3 days. Sister M Scholastica.

SOMERGEWAS STASIE(KROONSTAD) Die temperature gedurende die maand was normaal met n neerslag van 1.72" op 8 dae wat die saadgewasse baie beinvloed het. D.J van den Berg.

UMBOGINTWINI(KYNOCH FACTORY): In general, the month was dry, comparatively calm and warm. The highest temperatures for many years were recorded on the 29th. 1.55" of rain were recorded on 6 days. The Manager.

MOUNT EDGECOMBE(DURBAN): The rainfall for the month, 1.87" on 8 days, was below the average of 2.64" over the past 53 years. The mean temperatures were above normal. With the exception of a strong hot northwesterly wind, which prevailed on the 29th, the winds were generally either northeasterly or southwesterly. The Director. S.A. Sugar Association.

RIETPOORT(NAMAQUALAND): During the greater part of the month, the weather was unusually warm for this season. Welcome rains fell. 0.92" fell on 3 days. B.D.H. Hudson.

DOHNE PROEFPLAAS(STUTTERHEIM): Algemeen aangenaam met sterk wind aan einde van die maand. Veld wys dat herfs ingetree het. 0.74" reën is aangeteken op 4 dae. J.H.K. Krüger.

MATROOSBERG: Die laaste drie dae van die maand het gepaard gegaan met sterk winde en afwisselende reën en motreënbuie. Sneeu was later effens sigbaar op die hoër bergtoppe. Rukwinde was ook waargeneem op die 12de. 1.42" reën is aangeteken op 6 dae. Weerkundige Assistente.

HERMITAGE(ADDO): Mild, calm and sunny days with chilly nights and heavy dews. Strong, dusty gale from W.N.W. at the end of the month. 0.52" of rain fell on 5 days. E. Dixie.

MOSSELBAY: Considerable drop of temperatures compared with previous months. Barometer very low on the 29th. High westerly winds, force 7, on the 30th. 1.62" of rain were recorded on 9 days. S. J. Wahl.

WILLOWMORE: Die weer was oor die algemeen gunstig die laaste paar dae was dit egter koud en winderig. K. Bezuidenhout.

WALVISBAAI: Beide die hoogste maksimum en laagste minimum van die afgelope ses maande het gedurende April voorgekom, nl. 96.8°F op die 11de en 44.5°F op die 30ste. Die tydperk vanaf die 4de tot die 14de was buitengewoon warm, en die permanente stratus en mis van hierdie kus was amper heeltemal afwesig. 'n Fyn motreëntjie het gedurende die nag van die 24ste geval. 'n Donderstorm vanuit die noorde het ± ses myl oos vanhier verbygetrek om 8 n.m. van die 4de. Na 'n tydjie van mistige en bewolkte weer gedurende die laaste week van die maand, het die druk gestyg en sy hoogste waarde van die afgelope ses maande op die 30ste bereik, terwyl die vogtige lug deur 'n koue suidelike lugstroom verplaas is. 0.01" reën is aangeteken op 1 dag. J.J. Taljaard.

OUDTSHOORN: A severe duststorm and gale on the 28th, the night and the whole of the 29th caused a certain amount of damage. The electricity supply of the town, telephonic and telegraphic communications were also interrupted. 0.55" of rain fell on 3 days.
The Mother Superior.

SANDFLATS(MOUNT CURRIE): It has been very dry during this month notwithstanding a nice rain on the 1st and again on the night of the 24th. Some light frosts were observed on 3 mornings in the 2nd week of the month, but did no harm. Daytime temperatures were warm, with occasional cold snaps due to cold winds. Cloudy days with light to moderate winds. Winds variable, but mainly southerly. Northwesterly gale on the 29th. 1.06" of rain fell on 7 days. Hewson B. Corderoy.

REEDSDELL(BARKLY EAST): On the whole, very nice weather throughout the month, with the exception of a few very windy days and a few cold nights. 2.69" of rain fell on 5 days.
J.A. Mortlock.

KRUGERSDORP(CORONATION PARK): April has been slightly cooler and wetter then usual, but otherwise an average month. The mean average was 1.6°F below normal. 1.78" of rain fell on 9 days against an average of 1.58" on 6 days for the past 37 years. H.B. Wieperink.

SEKUKUNILAND(LYDENBURG): Gemiddelde klimaat, met soms dreigende weer, alhoewel die reënval onder normaal was. 1.35" reën is aangeteken op 6 dae. C.J. van Heerden.

WEPENER: Rainfall for the month was disappointing, only 1.57" fell on 8 days - the product of thunderstorms. Good rains are needed. Although a cold spell was experienced during the first week of the month with slight frost on one night, the days were warm and the night temperatures mild. A depression on the last two days of the month produced two unpleasant days, and a considerable drop in the day and night temperatures.
W.T.E. Kemm. F.R.M.S.

CHAWNER(LOUIS TRICHARDT): Crops are almost a failure; rains were too late. Very hot, 90° in shade at noon. Rainfall 1.09" on 5 days. E. King.

KLIPDRIF (LICHTENBURG): Dit het min gereën en taamlik skerp ryp het voorgekom wat ook skade aan gesaaides gedoen het. Reënval 1.13" op 4 dae. P.J.W. Schutte.

ELANDSFONTEIN(POTCHEFSTROOM): Hierdie jaar gaan die boere en vee swaar kry. Gras is min weëns gebrek aan laat reëns. Reënval 0.68" op 3 dae. P.J. Davidtz.

WILLOWMORE(POTGIETERSRUST): Crops sown during November and early December will give maximum yield. Rainfall 0.96" on 3 days. Chas. Deby

DIE MEUL(LAINGSBURG): Op 29 April het 'n stormwind omstreeks 3 v.m. begin waai en geleidelik toegeneem totdat dit om 12 uur die middag niks minder as 'n orkaan was nie. Op hierdie plaas is twee huise vernietig wat omtrent 60 jaar staan. Windpompe en bome is feitlik alles beskadig. Die bewigste van die storm het omtrent 12 uur geduur - van 12 v.m.

tot 12.30 n.m. en toe bedaar. Reënval 0.03 op 1 dag. J.J. Victor.

MIDDLETON(GREYTOWN): Baie droog. Gras in dele van distrik uitgedor. Wintervoer swak. Water skaars in dele. Reënval 0.67" op 5 dae. O.L. Nel.

PROSPECT(VREDE): A dry month. Live stock in condition one would wist at the beginning of Winter. The hay crop is light and mealie lands have less feeding value then usual. Rainfall 1.43" on 6 days. Thomas Pitcairn.

NDAMBA(ST. MARKS): Lightning struck on fence with two strains of barbed wire about half a mile from station. 300 yards of wire were melted. Rainfall 2.64" on 6 days. J. Casselo.

KLAVERFONTEIN(BETHULIE): Baie aangename weer. Min gevalle van bloutong onder vee, en geen perdesiekte. 'n Bietjie swaar ryp wat laat groente beskadig het. Reënval 1.11" op 4 dae. J.A. Griesel.

SASSUN(ELLIOT): No frost yet. Grass still green and green feeding very advanced. All stock in good condition. Prospects for winter excellent. Rainfall 0.64" on 2 days. C.S. McGregor.

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TABEL I - TEMPERATUUR EN BEWOLKTHEID - APRIL 1940.

TABLE I - TEMPERATURE AND CLOUDINESS - APRIL 1940.

Resultate van waarnemings om 0830 S. A. Standaard Tyd.
Results of observations at 0830 S. A. Standard Time.

STASIE STATION	AIR TEMPS. IN °F : LUG TEMPERATURE IN °F.								NO. DAYS: AANTAL DAE						CLOUDINESS BEWOLKTHEID				
	Mean Gem. Max.	Mean Gem. Min.	Mean Gem.	Diff Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Below: Min. Onder: 37	32	27	Max. 90	Max. 95	Ab. Bo. 100	Mean Gem.	No. days: Aant. d: 0-1	2-5	6-9	10
KAAPPROVINSIE CAPE PROVINCE																			
ALIWAL NOORD	70.4	43.8	57.1	-2.5	78.0	13	36.0	7	4	0	0	0	0	0	3	11	14	5	0
BEAUFORT WES	75.2	49.4	62.3	-1.5	89.2	11	37.9	18	0	0	0	0	0	0	4	14	5	9	2
BRITSTOWN	77.0	44.7	60.9	-1.2	82.0	11	35.0	8	2	0	0	0	0	0	1	23	5	0	2
CAPE L'AGULHAS	66.4	56.0	61.2	-1.9	73.0	23	37.0	15	1	0	0	0	0	0	5	6	8	12	4
CALA	71.5	49.0	60.3	-1.5	80.5	13	39.5	4	0	0	0	0	0	0	5	10	7	8	6
CARNARVON	72.3	45.5	58.9	-3.3	81.0	11	34.9	7	1	0	0	0	0	0	3	15	6	6	3
CERES	71.8	43.4	57.6	-4.8	89.0	10	33.0	19	3	0	0	0	0	0	5	9	8	9	4
CRADOCK	74.3	47.0	60.7	-2.1	86.0	12	39.0	4	0	0	0	0	0	0	4	7	11	12	0
CLANWILLIAM	84.5	51.8	68.2	-0.9	102.0	10	43.0	18	0	0	0	10	5	3	4	12	10	3	5
DEEPWALLS	67.6	52.4	60.0	-2.5	90.9	12	41.1	6	0	0	0	1	0	0	5	6	13	3	8
EAST LONDON	73.3	58.6	66.0	-0.4	80.0	28	50.5	4	0	0	0	0	0	0	5	8	8	12	2
GOODHOUSE	88.0	57.7	72.9	-3.6	100.0	12	48.0	8	0	0	0	17	6	1	1	23	4	3	0
GRAAFF REINET	76.7	52.0	64.4	-2.3	91.0	11	41.9	10	0	0	0	1	0	0	4	10	8	12	0
GRAHAMSTOWN	72.7	49.4	61.1	-1.5	87.4	12	38.0	4	0	0	0	0	0	0	3	17	6	6	1
GT. DRAKENSTEIN	74.6	49.3	62.0	-2.8	95.0	10	41.0	19	0	0	0	1	1	0	4	10	11	6	3
GROOTFONTEIN	68.7	41.8	55.3	-3.9	77.6	11	31.8	7	8	1	0	0	0	0	5	9	8	13	0
HOPETOWN	75.0	49.1	62.1	-1.6	82.0	13	37.0	7	2	0	0	0	0	0	2	15	9	6	0
IDUTYWA	71.4	52.6	62.0	-1.7	84.0	13	42.0	4	0	0	0	0	0	0	5	9	6	11	4
KENHARDT	79.6	50.6	65.1	-3.4	88.0	13	40.0	30	0	0	0	0	0	0	2	18	5	6	1
KIMBERLEY AERO	76.2	49.0	62.6	-1.8	83.4	16	34.0	7	2	0	0	0	0	0	2	19	6	5	0
KING'MSTOWN	75.7	52.8	64.8	-2.0	90.0	11	42.0	4	0	0	0	1	0	0	5	11	7	5	7
KLAVER	79.8	54.2	67.0	-2.2	98.2	10	45.7	15	0	0	0	7	2	0	4	14	6	4	6
KOKSTAD	70.7	45.6	58.2	-1.1	79.5	16	36.3	7	2	0	0	0	0	0	5	12	5	8	5
KURUMAN (SEODIN)	73.9	46.4	60.2	-3.0	81.0	1	35.0	7	3	0	0	0	0	0	4	12	8	7	3
MATROOSBERG	68.6	44.6	56.6	-3.3	84.6	11	36.3	3	1	0	0	0	0	0	4	12	10	7	1
MAFEKING	75.5	51.0	63.3	-1.0	83.6	2	33.0	8	1	0	0	0	0	0	3	7	16	7	0
MOSSELBAAI	70.3	57.1	63.7	-1.7	76.0	11	47.0	6	0	0	0	0	0	0	7	5	5	9	11
O'OKIEP	74.0	51.9	63.0	-4.0	88.8	11	37.5	6	0	0	0	0	0	0	2	20	3	4	3
OUDTSHOORN	77.4	48.4	62.9	-1.1	95.0	12	41.0	8	0	0	0	2	2	0	3	11	14	5	0
PORT ELIZABETH	72.4	54.5	63.5	-0.4	89.0	23	41.9	4	0	0	0	0	0	0	4	16	3	7	4
PORT NOLLOTH	65.8	48.8	57.3	-1.9	87.0	3	43.0	18	0	0	0	0	0	0	4	15	5	2	8
PORT ST. JOHNS	75.3	63.9	69.6	-0.3	87.0	29	56.0	7	0	0	0	0	0	0	6	1	12	15	2
POSTMASBURG	73.6	52.2	62.9	-1.4	80.6	1	38.2	30	0	0	0	0	0	0	2	17	6	7	0
PRIESKA	78.1	48.3	63.2	-3.4	86.0	14	37.4	7	0	0	0	0	0	0	3	19	3	7	1
QUEENSTOWN	73.0	47.5	60.3	-2.2	83.0	12	37.0	8	1	0	0	0	0	0	6	6	10	7	7
RIETPOORT	78.6	51.3	65.0	-1.2	96.0	10	41.1	7	0	0	0	7	2	0	3	16	6	7	1
SOMERSET OOS	76.0	50.5	63.3	-1.0	91.2	12	40.5	4	0	0	0	1	0	0	4	11	8	8	3
SUTHERLAND	68.4	37.0	52.7	-3.3	79.0	12	30.0	3	21	7	0	0	0	0	4	9	12	8	1
UITENHAGE	78.5	53.0	65.8	-0.7	93.2	11	44.4	18	0	0	0	3	0	0	3	15	6	1	5
UMTATA	76.9	51.2	64.1	-1.0	88.0	12	42.0	4	0	0	0	0	0	0	5	7	8	4	7
UPINGTON	80.3	53.0	66.7	-2.8	90.7	5	41.5	7	0	0	0	1	0	0	2	16	9	5	0
VAN WYKSVLEI	76.3	47.2	61.8	-2.8	89.0	10	38.4	7	0	0	0	0	0	0	4	11	10	9	0
VICTORIA WES	73.4	42.3	57.9	-2.7	81.0	12	34.0	18	5	0	0	0	0	0	3	11	11	8	0
VRYBURG	76.1	48.2	62.2	-1.9	86.6	1	35.4	7	2	0	0	0	0	0	3	18	3	9	0
WINGFIELD	70.2	52.2	61.2	-1.6	93.7	10	40.6	19	0	0	0	1	0	0	6	7	5	12	8
O.V.S. : O.F.S.																			
BETHULIE	71.3	45.3	58.3	-2.9	79.0	13	33.0	7	3	0	0	0	0	0	5	7	10	13	0
BLOEMFONTEIN	71.1	44.2	57.7	-2.9	77.8	16	28.1	30	6	2	0	0	0	0	4	14	3	10	3
FAURESMITH	71.3	43.3	57.3	-2.3	80.0	14	30.0	7	5	2	0	0	0	0	3	17	5	5	3
KROONSTAD	74.9	44.8	59.9	-1.1	81.5	1	30.0	7	3	1	0	0	0	0	3	14	9	5	2
LADYBRAND	70.6	43.8	57.2	-1.6	78.0	1	31.0	7	4	2	0	0	0	0	4	17	3	3	7
LINDLEY	72.6	44.6	58.6	-1.4	80.0	3	31.0	7	2	0	0	0	0	0	4	3	19	8	0
WEPENER	71.1	43.9	57.6	-0.9	77.0	16	30.0	7	8	1	0	0	0	0	4	10	9	6	5

TABEL I - TEMPERATUUR EN BEWOLKTHEID - APRIL 1940(VERVOLG).
TABLE I - TEMPERATURE AND CLOUDINESS - APRIL 1940(CONTD).

STASIE STATION	LUG TEMPERATURE IN °F : AIR TEMP								AANTAL DAE:NO.DAYS						BEWOLKTHEID:CLOUDINESS				
	Gem. Mean Max.	Gem. Mean Min.	Gem. Mean	Versk. Diff. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Onder: Min. Below: 37	32	27	Max Bo Max. Ab. 90	95	100	Gem. Mean	No. days: Aant. dae 0-1	2-5	6-9	10
TRANSVAAL:																			
BARBERTON	79.1	59.1	69.1	+0.6	88.6	16	49.0	8	0	0	0	0	0	0	5	7	10	11	2
BELFAST	67.5	42.4	55.0	+0.7	73.0	25	32.0	7	8	1	0	0	0	0	4	10	10	5	5
ERMELO	74.1	45.4	59.8	+1.3	86.0	2	29.0	7	3	1	0	0	0	0	4	13	6	5	5
GERMISTON AERO	71.3	50.0	60.7	+0.2	78.8	2	32.8	7	1	0	0	0	0	0	5	10	7	8	5
HEIDELBERG	75.1	44.3	59.7	+0.3	80.9	17	29.5	7	3	1	0	0	0	0	4	8	13	4	5
KLERKSDORP	75.8	47.1	61.5	-1.7	82.3	1	32.8	7	2	0	0	0	0	0	2	23	4	3	0
KOMATIPOORT	87.4	58.1	72.8	-1.9	98.0	17	46.0	8	0	0	0	10	4	0	4	9	7	9	0
KOPJE ALLEEN	79.0	51.4	65.2	-0.4	86.6	25	39.3	8	0	0	0	0	0	0	4	13	13	6	4
L. TRICHARDT	77.5	55.2	66.4	+0.7	90.0	30	47.0	13	0	0	0	2	0	0	6	3	13	3	11
MESSINA	85.5	63.3	74.4	+0.6	95.3	29	50.0	9	0	0	0	8	2	0	5	9	9	4	8
MIDDELBURG	74.1	44.9	59.5	1.2	80.0	2	37.0	9	3	0	0	0	0	0	5	7	6	12	3
NYLSTROOM	79.1	50.0	64.6	+0.7	85.0	17	39.0	8	0	0	0	0	0	0	3	14	12	1	3
PIETERSBURG	75.5	50.3	62.9	-0.6	84.0	30	40.4	9	0	0	0	0	0	0	5	10	6	7	7
PIET RETIEF	75.5	50.5	63.0	+0.5	86.0	1	37.0	8	1	0	0	0	0	0	4	12	8	8	2
PILGRIMS REST	74.2	49.1	61.7	0.1	82.5	30	40.5	8	0	0	0	0	0	0	4	10	10	6	4
POTCHEFSTROOM	76.2	48.0	62.1	+0.3	84.0	1	32.5	7	2	0	0	0	0	0	4	11	10	8	1
PRETORIA	73.6	49.8	61.7	-2.7	79.7	1	39.3	7	0	0	0	0	0	0	4	13	6	5	6
RUSTENBURG	78.7	50.9	64.8	-0.4	87.0	1	40.0	8	0	0	0	0	0	0	6	6	6	12	6
STANDERTON	75.1	44.7	59.9	+0.5	81.0	1	32.6	7	2	0	0	0	0	0	4	11	8	9	2
VAALHARTZ	76.2	45.8	61.0	-0.7	85.8	1	29.8	7	3	1	0	0	0	0	3	18	3	8	1
WAKKERSTROOM	70.8	41.9	56.4	+0.8	75.5	12	31.9	8	6	1	0	0	0	0	4	13	5	8	4
ZEERUST	77.6	48.0	62.8	1.3	86.0	2	37.0	8	1	0	0	0	0	0	3	16	6	3	6
NATAL:																			
DUNDEE	74.2	50.2	62.2	+0.1	83.0	2	39.0	8	0	0	0	0	0	0	4	16	3	6	5
DURBAN AERO	78.5	61.8	70.2	0.3	98.9	29	52.0	7	0	0	0	1	1	0	4	12	7	8	3
ESPANGENI	80.5	62.1	71.3	+0.2	94.0	29	56.0	7	0	0	0	3	0	0	4	14	7	2	6
ESTCOURT	78.3	59.7	69.0	+0.5	92.4	29	49.1	8	0	0	0	2	0	0	3	12	6	3	5
ESTCOURT	75.2	49.5	62.4	0.4	83.0	16	39.5	7	0	0	0	0	0	0	4	12	7	5	6
LADYSMITH	76.4	51.3	63.9	-1.7	86.0	2	41.0	8	0	0	0	0	0	0	5	12	6	4	8
PIETERM'BURG	78.4	55.2	66.8	+0.6	90.0	29	42.4	7	0	0	0	1	0	0	4	16	3	7	4
OTOBOTINI	82.9	62.8	72.9	-0.8	91.0	16	56.0	20	0	0	0	3	0	0	5	4	14	6	5
PORT SHEPSTONE	77.2	62.8	70.0	+0.1	88.0	29	53.0	7	0	0	0	0	0	0	5	3	9	10	3
STANGER	82.5	62.9	72.7	+0.7	99.0	29	53.0	7	0	0	0	3	1	0	5	9	4	3	6
VRYHEID	76.8	53.6	65.2	+1.2	85.3	14	41.3	8	0	0	0	0	0	0	3	14	8	3	5
WEENEN	79.2	50.9	65.1	-1.0	88.0	14	42.0	9	0	0	0	0	0	0	0	0	0	0	0
BETSJOEANALAND : BECHUANALAND:																			
DIKGATLONG	82.3	53.0	67.7	-1.3	93.0	29	43.0	9	0	0	0	6	0	0	4	15	5	5	5
GABERONES	78.7	53.0	65.9	-0.7	88.0	1	42.0	8	0	0	0	0	0	0	4	7	13	4	6
MAHALAPYE	79.9	55.2	67.6	-0.3	89.0	29	46.0	8	0	0	0	0	0	0	4	18	6	3	3
BASOETOLAND : BASUTOLAND:																			
BUTHA BUTHE	68.6	42.9	55.8	-2.1	78.0	1	31.0	8	3	1	0	0	0	0	3	15	6	4	4
MASERU	68.4	46.6	57.5	-1.3	76.0	12	33.0	7	3	0	0	0	0	0	3	14	9	5	2
QUTHING	67.0	44.5	55.8	-1.5	74.0	12	30.0	7	2	1	0	0	0	0	5	7	3	19	1
QACHASNEK	67.7	43.6	55.7	+1.3	74.0	13	32.0	7	4	1	0	0	0	0	3	16	4	6	4
SCHLABATHEBE	70.5	36.5	53.5	+1.1	80.0	24	25.0	7	16	6	2	0	0	0	0	0	0	0	0
SWASIELAND : SWAZILAND:																			
MBABANE	74.6	54.5	64.6	+2.5	84.0	1	40.0	8	0	0	0	0	0	0	3	11	12	1	5
STEGI	78.8	58.0	68.4	+0.7	87.0	16	48.0	8	0	0	0	0	0	0	3	17	5	5	2

TABEL II - NEERSLAG IN DUIME : APRIL 1940.
TABLE II - PRECIPITATION IN INCHES : APRIL 1940.

STASIE STATION	APRIL 1940	NORM.	VERSK. DIFF.	%	MAX. AMT. HVD. IN 24H	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	GESAMENTLIKE NEERSLAG VANAF 1.1.1940 % VAN NORMAAL	FROM 1.7.1939 % OF NORMAL
KAAPPROVINSIE : SOMERREENSTREEK: CAPE PROVINCE : SUMMER RAINFALL AREA													
ALIWAL NOORD	1.73	1.66	+0.07	104	0.81	24	6	6	0	0	0	120	103
BEAUFORT WES	0.34	0.84	-0.50	40	0.18	30	4	4	0	0	0	115	114
BRITSTOWN	0.49	1.52	-1.03	32	0.32	22	4	3	0	0	0	81	113
CALA	1.20	1.42	-0.22	85	0.31	24	7	6	0	0	0	114	97
CARNARVON	0.43	0.91	-0.48	47	0.14	22	5	4	0	0	0	130	163
CRADOCK	1.03	1.22	-0.19	84	1.03	14	1	1	0	0	0	179	156
EAST LONDON	1.36	2.62	-1.26	52	0.38	2	8	5	0	0	0	97	86
FRASERBURG	0.33	0.80	-0.47	41	0.18	30	4	3	0	0	0	114	120
GOODHOUSE	0.09	0.19	-0.10	47	0.04	30	3	1	0	0	0	158	186
GRAAFF REINET	0.01	1.02	-1.01	1	0.01	14	1	0	0	0	0	136	161
GRAHAMSTOWN	0.69	2.26	-1.57	31	0.25	15	4	3	0	0	0	106	102
GROOTFONTEIN	0.99	1.13	-0.14	88	0.45	24	6	5	0	0	0	131	146
HOPE TOWN	1.44	1.11	+0.33	130	0.68	1	3	3	0	0	0	85	130
IDUTYWA	1.75	1.23	+0.52	142	0.58	1	7	7	0	0	0	147	114
KENHARDT	0.00	0.64	-0.64	0	0.00	0	0	0	0	0	0	91	133
KIMBERLEY	1.72	1.39	+0.33	124	1.29	1	7	5	5	0	0	92	96
KINGWILLIAMSTOWN	0.46	2.04	-1.58	23	0.20	24	6	4	0	0	0	106	103
KOKSTAD	1.79	1.64	+0.15	109	0.42	24	8	8	1	0	0	106	101
KURUMAN	0.89	1.29	-0.40	69	0.27	22	5	5	0	0	0	120	141
MACLEAR	1.23	1.80	-0.57	68	0.44	25	7	7	1	0	0	72	75
MAFEKING	2.32	1.05	+1.27	221	0.85	17	9	6	0	0	0	170	162
PHILIPSTOWN	0.97	1.25	-0.28	78	0.38	24	5	5	0	0	0	104	123
PORT ST. JOHNS	1.46	3.37	-1.91	43	0.64	17	6	5	0	0	0	74	97
POSTMASBURG	0.09	1.12	-1.03	8	0.04	21	3	2	0	0	0	138	146
PRIESKA	0.38	1.27	-0.89	30	0.15	21	4	4	2	0	0	79	103
PRINCE ALBERT RD.	0.00	0.42	-0.42	0	0.00	0	0	0	0	0	0	161	139
QUEENSTOWN	1.68	1.57	+0.11	107	0.58	3	9	8	0	0	0	120	109
SOMERSET OOS	0.42	1.94	-1.52	22	0.14	5	5	4	0	0	0	110	122
STEYNSBURG	1.38	1.26	+0.12	110	1.38	24	1	1	0	0	0	94	106
STEYTLERVILLE	0.00	0.87	-0.87	0	0.00	0	0	0	0	0	0	95	127
UMTATA	0.54	1.60	-1.06	34	0.36	1	5	3	0	0	0	80	91
UPINGTON	0.21	0.84	-0.63	25	0.09	29	4	3	0	0	0	99	148
VAN WYKSVLEI	0.88	0.78	+0.10	108	0.62	22	4	3	0	0	0	130	180
VICTORIA WES	0.23	0.70	-0.47	33	0.18	23	3	1	0	0	0	86	115
VRYBURG	2.24	1.49	+0.75	150	0.75	23	8	8	1	1	0	99	114
KAAPPROVINSIE : WINTERREENSTREEK: CAPE PROVINCE : WINTER RAINFALL AREA:													
CAPE L'AGULHAS	2.09	1.41	+0.68	148	0.61	29	10	7	0	0	0	286	148
CALVINIA	0.46	0.84	-0.38	55	0.46	28	1	1	0	0	0	272	213
CAPE TOWN	3.81	1.86	+1.95	205	1.37	28	10	8	0	0	0	170	101
CERES	4.67	2.65	+2.02	176	2.18	30	7	7	0	0	0	196	96
CLANWILLIAM	1.12	0.67	+0.45	167	0.68	29	2	2	0	0	0	141	107
GARIES	0.68	0.46	+0.22	148	0.43	29	2	2	0	0	0	154	154
GROOT DRAKENSTEIN	3.14	2.62	+0.52	120	1.20	29	9	9	0	0	0	151	103
KLAVER	0.58	0.55	+0.03	105	0.46	29	2	2	0	0	0	108	123
OOKIEP	1.15	0.61	+0.54	188	0.88	28	2	2	0	0	0	123	160
PIQUETBERG	1.19	1.54	-0.35	77	0.61	26	6	4	0	0	0	157	70
PORT NOLLOTH	0.00	0.22	-0.22	0	0.00	0	0	0	0	0	0	67	107
RIETPOORT	0.92	0.44	+0.48	209	0.56	29	3	2	0	0	0	94	140
SUTHERLAND	1.35	0.88	+0.47	153	0.50	28	3	3	0	0	0		
WORCESTER	1.06	0.46	+0.60	230	0.64	29	2	2	0	0	0	157	92

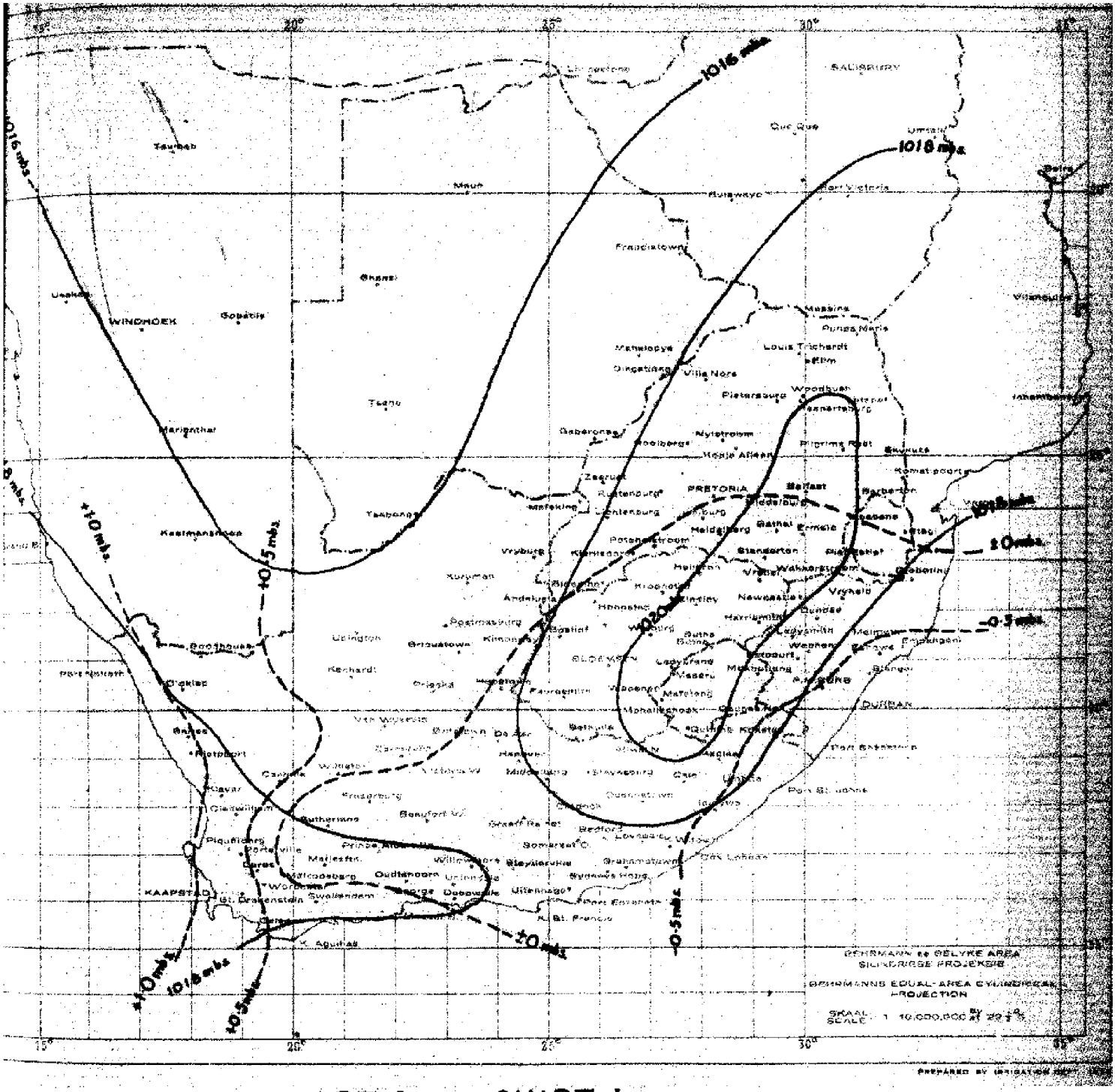
TABEL II : NEERSLAG IN DUIME : APRIL 1940 (VERVOLG)
TABLE II : PRECIPITATION IN INCHES : APRIL 1940 (CONTD).

STASIE STATION	APRIL 1940	NORM.	VERSK. DIFF.	%	MAX. HVD. IN 24U	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	GESAMENTLIKE REENVAL VANAF 1.1.1940 VAN NORMAAL	FROM 1.7.1939 OF NORMAL
STREEK MET REEN DWARSDEUR DIE JAAR ALL SEASONS RAINFALL AREA													
DEEPWALLS	2.87	3.29	-0.42	87	1.27	29	10	10	0	0	0	133	116
GEORGE	1.98	2.60	-0.62	76	1.00	29	8	7	0	0	0	142	137
MOSSELBAAI	1.89	1.61	+0.28	117	0.69	29	7	6	0	0	0	191	143
OUDTSHOORN	0.55	0.96	-0.41	57	0.42	30	3	3	0	0	0	209	146
PORT ELIZABETH	0.48	1.88	-1.40	26	0.20	6	5	3	0	0	0	130	118
SWELLENDAM	2.41	2.63	-0.22	92	1.53	29	7	7	0	0	0	132	136
SYDNEY'S HOPE	1.04	1.99	0.95	52	0.33	16	6	6	1	0	0	126	155
UITENHAGE	0.39	1.70	1.31	23	0.27	3	5	2	0	0	0	105	135
UNIONDALE	0.32	1.16	-0.84	28	0.11	29	6	4	0	0	0	166	141
TRANSVAAL:													
BARBERTON	3.60	1.69	+1.91	213	1.27	28	13	9	9	0	0	100	113
BELFAST	2.60	1.63	+0.97	160	0.71	17	9	9	7	0	0	91	129
BETHAL	0.73	1.30	-0.57	56	0.27	28	8	4	0	0	0	82	106
BLOEMHOF	1.64	1.28	+0.36	128	0.54	28	7	6	0	0	0	104	130
ELIM HOSPITAAL	2.88	1.40	+1.48	206	2.00	6	5	5	0	0	0	91	106
ERMELO	2.22	1.12	+1.10	198	1.35	17	8	8	0	0	0	81	-
HEIDELBERG	1.53	1.20	+0.38	132	0.56	25	11	7	0	0	0	85	119
JOHANNESBURG	1.22	1.47	-0.25	83	0.32	29	8	7	0	0	0	67	103
JOUBERT PARK	1.59	1.73	-0.14	92	0.36	30	9	7	2	0	0	73	100
KLERKSDORP	0.71	1.77	-1.06	40	0.22	17	4	4	3	0	0	68	109
KOMATIPOORT	1.86	1.65	+0.21	113	0.76	26	4	4	2	0	0	-	-
KOPJE ALLEEN	1.78	1.22	+0.56	146	0.73	1	11	7	6	0	0	88	103
LICHTENBURG	0.37	1.47	-1.10	25	0.37	18	1	1	0	0	0	119	123
MESSINA	0.14	0.51	-0.37	27	0.12	2	2	1	0	0	0	55	101
MIDDELBURG	2.29	1.46	+0.83	157	0.56	18	8	8	4	1	0	74	114
NYLSTROOM	1.90	1.45	+0.45	131	0.60	7	8	6	0	0	0	92	119
PIETERSBURG	2.39	0.99	+1.40	241	0.89	3	5	5	0	0	0	89	141
PIET RETIEF	2.36	1.71	+0.65	138	1.28	17	7	6	1	0	0	63	-
PILGRIMS REST	1.10	2.09	-0.99	53	0.64	18	6	4	0	0	0	63	98
POTCHEFSTROOM	0.87	1.33	-0.46	65	0.39	6	5	4	0	0	0	83	96
PRETORIA	0.86	1.05	-0.19	82	0.26	29	9	5	5	0	0	80	97
ROODBERG	2.45	1.04	+1.41	236	0.50	17	9	9	0	0	0	123	132
RUSTENBURG	1.79	1.00	+0.79	179	0.41	29	10	9	0	0	0	81	122
STANDERTON	1.60	1.27	+0.33	126	0.65	26	9	6	4	0	0	65	95
VILLA NORA	0.94	0.77	+0.17	122	0.84	5	2	2	0	0	0	51	106
WARMBATHS	1.68	1.37	+0.31	123	0.68	1	5	4	2	1	0	87	95
WOODBUSH	5.75	3.16	+2.59	182	1.60	17	11	9	4	0	0	82	109
LOUIS TRICHARDT	2.45	1.36	+1.09	180	1.87	5	7	5	1	0	0	85	109
ZEERUST	1.44	1.43	+0.01	101	0.38	1	8	6	0	0	0	85	99
O.V.S. : O.F.S.													
BETHLIE	1.71	1.42	+0.29	120	0.67	23	5	4	0	0	0	91	89
BLOEMFONTEIN	1.15	1.76	-0.61	65	0.42	22	8	6	4	0	0	73	109
BOSHOF	0.77	1.50	-0.73	51	0.35	1	6	6	0	0	0	93	104
FAURESMITH	1.63	1.40	+0.23	116	0.81	28	5	5	0	0	0	144	127
KROONSTAD	1.95	1.35	+0.60	145	0.54	22	8	7	1	0	0	78	104
LADYBRAND	1.67	1.87	-0.20	89	0.63	28	7	7	5	0	0	75	105
LINDLEY	4.13	1.61	+2.52	256	1.40	23	6	6	0	0	0	92	106
WEPENER	1.57	1.84	-0.27	85	0.43	1	8	6	5	2	0	88	101
WINBURG	1.89	1.52	+0.37	124	0.52	5	6	6	7	0	0	87	106

TABEL II - NEERSLAG IN DUIME - APRIL 1940 (VERVOLG).

TABLE II - PRECIPITATION IN INCHES - APRIL 1940 (CONTD).

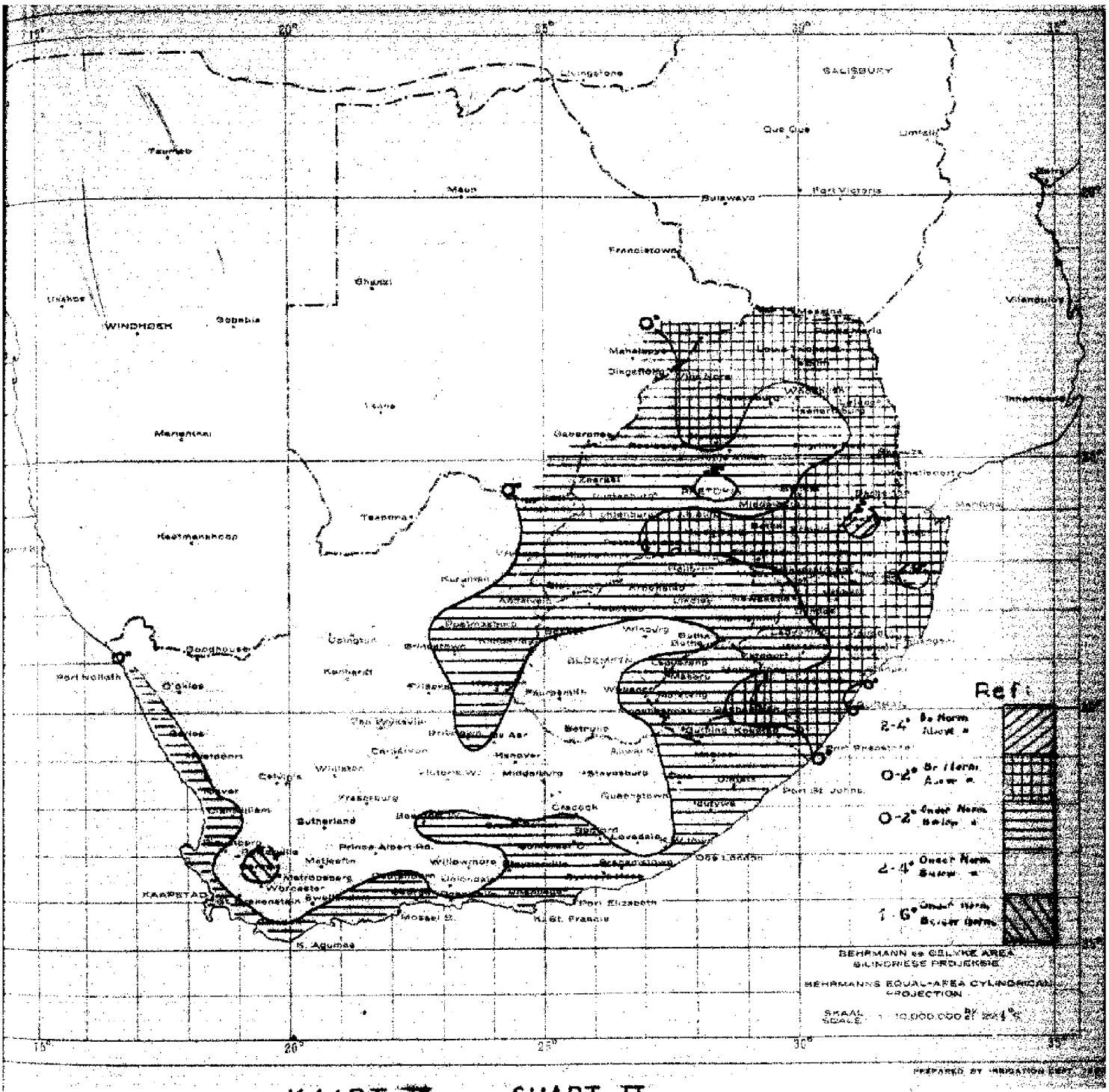
STASIE STATION	APRIL 1940	NORM.	VERS. DIFF.	%	MAX. HVD. AMT. IN 24 H	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	GESAMENTLIKE REENV VANAF 1.1.1940 VAN NORM.	FROM 1.7.39 % OF NOR
[illegible]													
DUNDEE	2.87	1.72	+1.15	168	1.61	17	10	8	3	0	0	68	107
DURBAN POINT	1.67	3.60	-1.93	46	0.48	16	6	5	1	0	0	46	93
EMPANGENI	2.84	3.11	-0.27	91	1.06	17	9	6	0	0	0	106	113
ESHOWE	2.66	2.94	-0.28	90	0.81	17	8	6	0	0	0	185	145
ESTCOURT	0.74	1.50	-0.76	49	0.30	1	7	5	3	0	0	83	94
LADYSMITH	1.01	1.26	-0.25	80	0.42	1	5	5	4	0	0	53	92
MELMOTH	1.84	1.82	+0.02	101	0.92	7	9	7	2	0	0	59	98
OTOBOTINI	0.56	1.18	-0.62	47	0.29	26	3	3	5	0	0	119	129
PIETERMARITZBURG	1.12	1.93	-0.81	58	0.34	6	6	6	3	0	0	67	94
STANGER	1.53	2.61	-1.08	59	0.46	25	7	6	0	0	0	78	97
PORT SHEPSTONE	1.46	2.26	-0.80	65	0.49	16	6	6	1	0	0	42	81
UBOMBO	1.01	1.85	-0.84	55	0.77	6	3	3	0	0	0	98	100
VRYHEID	1.37	1.55	-0.18	88	0.56	1	11	7	7	0	0	78	107
[illegible]	0.97	1.52	-0.55	64	0.45	1	5	5	0	0	0	79	99
BATSJOEANALAND : BECHUANALAND:													
MAHALAPYE	2.14	0.67	+1.47	320	1.22	3	6	4	0	0	0	91	106
DIKGATLONG	1.44	1.06	+0.38	136	0.51	5	6	5	0	0	0	100	120
[illegible]	1.42	1.45	-0.03	98	0.26	5	11	9	0	0	0	82	90
BASOETOLAND : BASUTOLAND:													
BUTHA BUTHE	4.27	2.03	+2.24	210	1.28	6	6	6	1	1	0	87	97
MAFETENG	2.83	2.53	+0.30	112	1.13	25	7	7	0	0	0	73	94
MOHALESHOEK	2.75	2.15	+0.60	128	1.22	24	7	7	0	0	0	90	101
[illegible]	1.44	1.91	-0.47	75	0.60	24	7	7	0	0	0	80	99
SWASIELAND : SWAZILAND:													
MBABANE	2.59	2.56	+0.03	101	0.90	17	9	8	0	0	0	85	114
STEGI	1.77	2.12	-0.35	84	0.79	17	4	4	0	0	0	136	83



KAART I CHART I

April 1940. Gemiddelde Lugdruk om 8·30 v.m. (by Seespieël). Die gebroke lyne dui die afwyking van die normale lugdruk vir April aan.

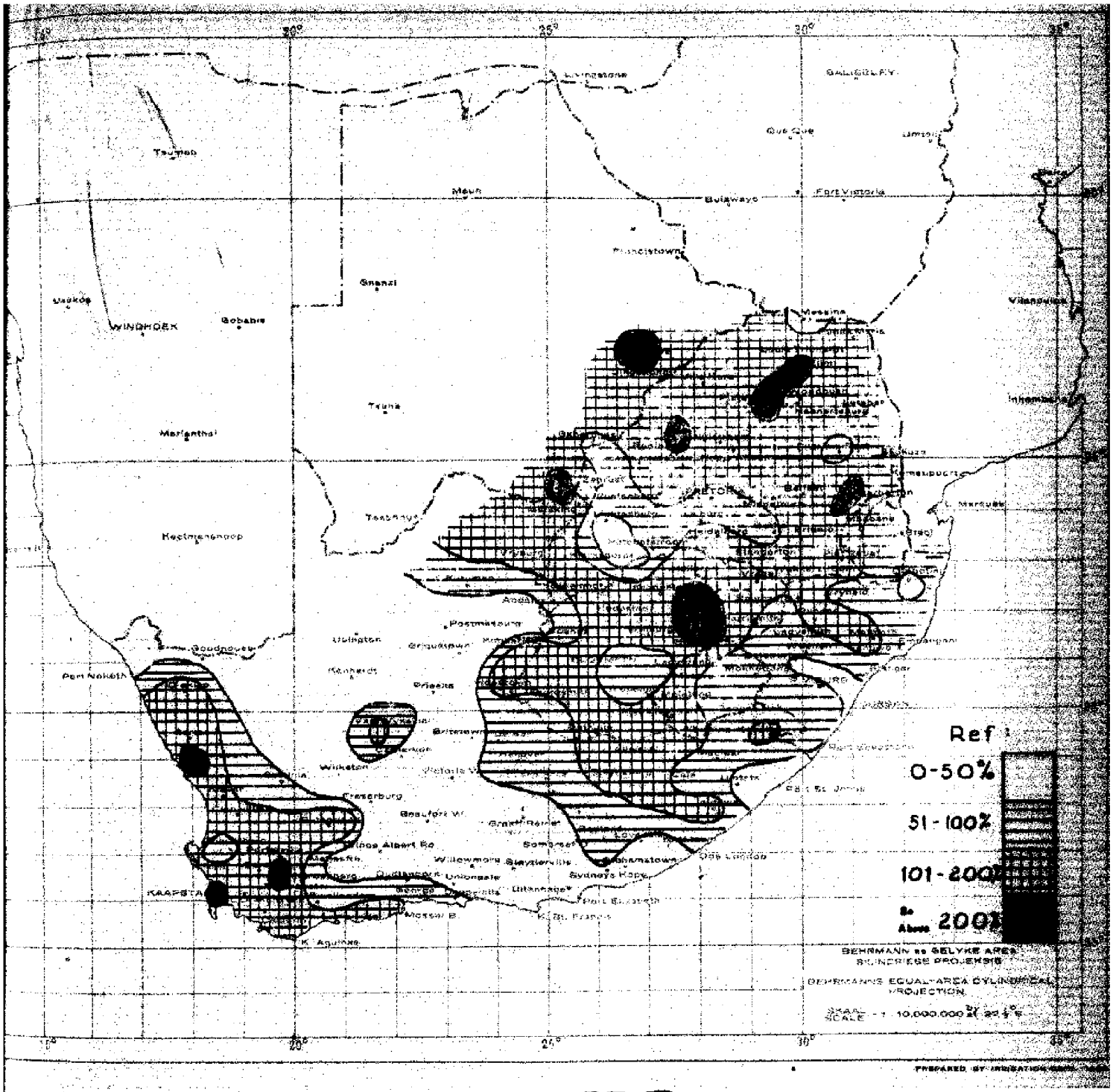
April 1940. Mean Atmospheric Pressure at 8·30 a.m. (at M.S.L.). The broken lines indicate the departure from the normal pressure for April.



KAART II CHART II

April 1940 : Gemiddelde Temperatuur – afwyking van die Normaal in °F.

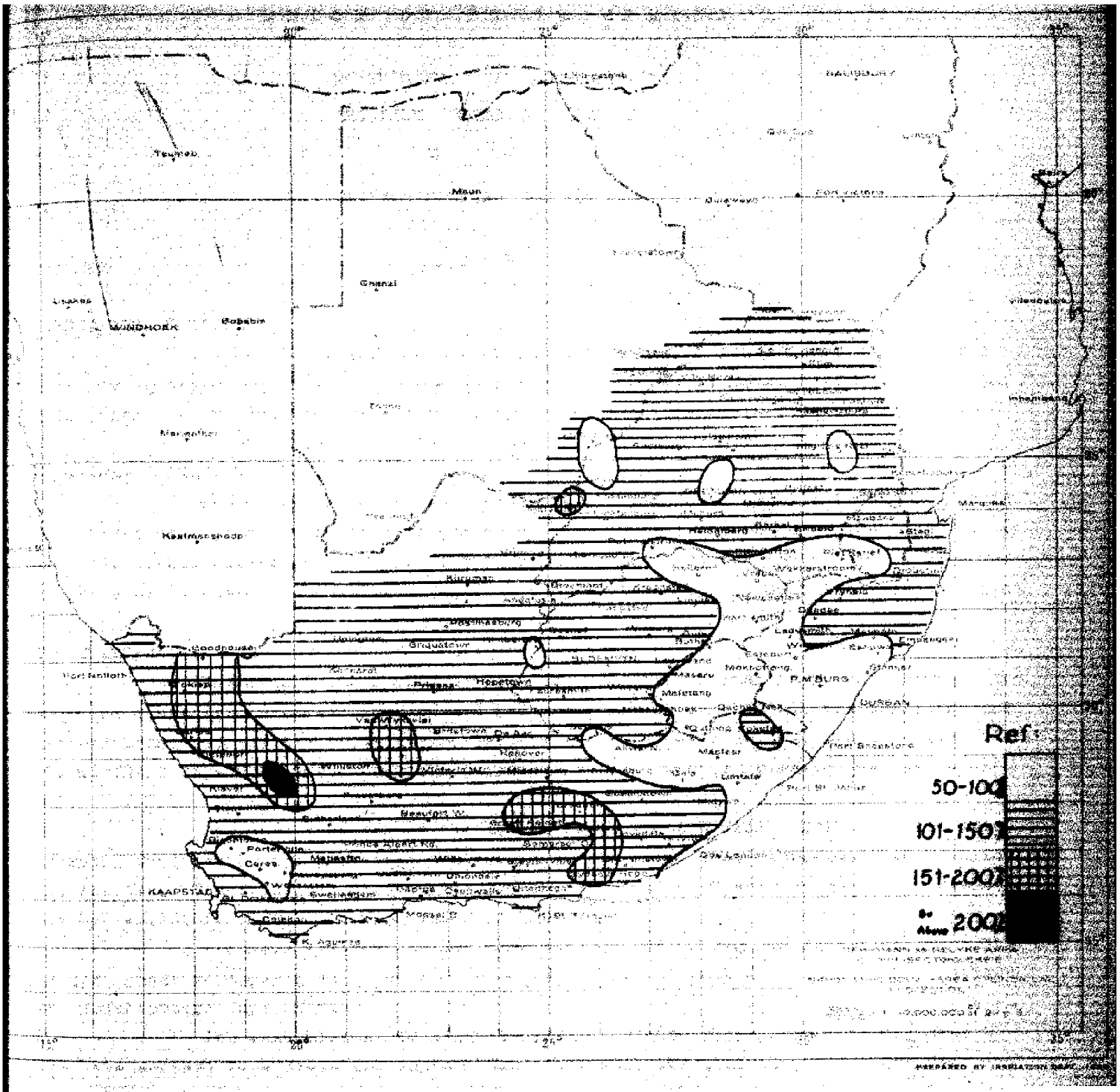
April 1940: Mean Temperature – departure from the Normal in °F.



KAART III CHART III

April 1940: Neerslag aangegee as 'n persentasie van die Normaal.

April 1940: Precipitation shown as a percentage of the Normal.



KAART IV CHART IV

Seisoen Neerslag: 1ste Julie 1939 tot 30ste April 1940, aangegee as 'n persentasie van die Normaal.

Seasonal Precipitation: 1st July 1939 to 30th April 1940, shown as a percentage of the Normal.

UNION OF SOUTH AFRICA

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

Vol XXI MAY 1940 No. 5

OUTSTANDING FEATURES:

Temperatures were on the whole below normal - sharp frost over the interior during beginning of month - exceptionally heavy rains in Natal - snow during the first week - such were the more outstanding features of the weather during May 1940.

ATMOSPHERIC PRESSURE:

The distribution of mean pressure is shown on Chart I, and reflects typical winter conditions, viz. an anticyclone, or high pressure system, over the whole Union with the highest pressure over the eastern high plateau. On the whole the pressure was slightly below normal, the largest negative departures occurring over the eastern Union.

TEMPERATURE:

The departure of mean temperature from the normal for this month is shown on Chart II. The mean temperature was above normal over Natal, the northern and eastern Transvaal and the southeastern Cape Province, as well as over limited areas in the northern Cape Province. Over the remainder of the Union, temperature was below normal.

The mean temperature for the Union as a whole was 67.1°F, or 0.3° below normal. Considering the provinces separately, it is found that the mean temperatures for the Cape, Transvaal and Free State were below normal by 0.4°, 0.3° and 0.6° respectively, whilst for Natal the mean was 0.4° above normal.

The mean maximum or day temperatures show a similar distribution. The largest negative departures (4 to 6°F) occurred along the coastal zones of the western and southwestern Cape Province.

The mean minima, or night temperatures were above normal mainly over Natal, the eastern Free State and eastern Cape Province, and also slightly above over the northwestern Transvaal.

For the Union as a whole, the mean maximum was 70.3°F, or 0.5° below normal, and the mean minimum of 43.9°F just reached the normal.

The warmest days or periods of the month were the 1st and the 19th to 24th. The following were the highest individual maxima registered in each province: 93.4° at Rietpoort (Namaqualand) on the 23rd; 97° at Messina (Tvl) on the 1st; 92° at Stanger (Natal) on the 19th, and 80° at Kroonstad (O.F.S.) on the 19th.

The coldest nights fell on the following dates: 1st to 3rd, the 6th, the 24th to 28th and the 31st, and the lowest individual minima registered in each province were: 28° at Willowmore (C.P.) on the 2nd; 22° at Belfast (Tvl) on the 24th; 32° at Ladysmith (Natal) on the 3rd, and 18° at Harrismith (O.F.S.) on the 3rd.

FROST:

During the first few days of this month, sharp frost occurred in parts of the eastern Cape Province, the Free State and on the Transvaal Highveld, whilst slight frost was registered over practically the whole Union, excluding the coastal areas and and the Transvaal Lowveld.

PRECIPITATION:

The distribution of precipitation, expressed as a percentage of the normal, is roughly shown on Chart III. Precipitation was above normal over the Transvaal, Natal, the northern and eastern Free State and over the eastern interior of the Cape Province. Abnormally heavy rain was reported from interior Natal, where many stations received more than six times the average monthly rainfall. The greater portion of the Cape Province (mainly the western parts) received less than half the average, whilst smaller areas in the vicinity of Prince Albert Road, Britstown and Kenhardt were rainless.

Combining the rainfall data in Table II for each province (or subdivision of a province) separately, we find that the Free State, Natal and the Transvaal showed surpluses amounting respectively to 41%, 342% and 80% of their average rainfall, the Cape Province on the other hand showed a deficit of 18%. Of the different rainfall zones in the Cape Province, the 'all seasons' zone (South Cape coastal belt) and the winter rainfall zone showed deficits of 57% and 33% respectively, whilst the summer rainfall zone had a surplus of 29%. For the Union as a whole there was a surplus of 55%.

Unfavourable weather conditions prevailed over the whole Union from the 3rd to the 5th. During this period the abovementioned heavy rains fell over Natal and to a lesser extent over the Transvaal and the eastern interior of the Cape Province. During the rest of the month the Transvaal and Natal as a rule experienced fine weather, though some isolated showers occurred on the 16th. Fairly general showers occurred over the Free State on the 16th, and some isolated thundershowers from the 19th to the 22nd. The 'all seasons' and winter rainfall zones of the Cape Province experienced unsettled weather from the 14th to the end of the month, the precipitation, however, was mostly slight.

HAIL: Hailstorms were reported from Louis Trichardt (Tvl) on the 5th, from Cape Point (1st), Kuruman (4th) and Barkly East (23rd) in the Cape Province; Raboni Ranch (Hoopstad, O.F.S.) on the 4th, and from Weza (Natal) on the 16th. No damage worth mentioning was done.

SNOW: On conjunction with the unsettled weather from the 3rd to the 5th, snow fell on the mountain ranges in the Cape Province, in Basutoland and the eastern Free State, on the Drakensberg, in Natal and on the Transvaal highveld as far north as Ermelo. In the interior of Natal the snowstorms were accompanied by heavy gales - a certain amount of stock was lost and trees were uprooted. From Thaba Tseka (Basutoland) a report states that 14 natives lost there lives. The snow covering was about 10" thick in Basutoland and 3 to 6" in Natal.

THE CUMULATIVE PRECIPITATION:

The cumulative precipitation since the 1st January 1940, was below normal over the Transvaal, the Free State, the western coastal belt of the Cape Province, the northern districts of the Cape Province and over southern Natal.

Considered as units, the Cape Province and Natal showed surplusses of 17% and 2% respectively, whilst the Free State and Transvaal showed deficits amounting respectively to 7% and 10% of their average rainfall. The summer, 'all seasons' and winter rainfall zones of the Cape Province showed surplusses of 12%, 20% and 31% respectively. For this period the rainfall over the Union considered as a whole just reached the normal.

THE SEASONAL PRECIPITATION:

The seasonal precipitation since 1st July 1939, expressed as a percentage of the normal, is roughly shown on Chart IV. On the whole, precipitation for this period was above normal. The Cape Province, Free State and Natal and Transvaal considered as units, showed surplusses amounting respectively to 16%, 5%, 12% and 11% of their average precipitation. Considering the different rainfall zones of the Cape Province, the winter, 'all seasons', and summer zones showed surplusses of 5%, 23% and 16% respectively. For the Union as a whole, there was a surplus of 12%.

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D I E U N I E V A N S U I D - A F R I K A

DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR

Deel XXI | MEI 1940 | No. 5

HOOFKENMERKE:

Temperature was hoofsaaklik onder normaal - skerp ryp aan begin van maand oor die binneland - ongekende swaar reëns in Natal - sneeu in die eerste week - sulke was die hoofkenmerke van die weer gedurende Mei 1940.

LUGDRUK:

Die gemiddelde lugdrukdistribusie word op Kaart I aangedui, en weerspieël tipiese winterkondisies, nl. 'n antisiklone, of hoogdrukgebied oor die hele Unie, met die hoogste lugdruk oor die oostelike hooglande van die Unie. Oor die algemeen was die lugdruk effens onder normaal met die grootste negatiewe afwykings oor die oostelike Unie.

TEMPERATUUR:

Die afwykings van die gemiddelde maandelikse temperatuur vanaf die normaal, word aangegee op Kaart II. Die gemiddelde temperatuur was bo normaal oor Natal, die noordelike en oostelike streke van die Transvaal en die suidoostelike gedeeltes van die Kaapprovinsie, sowel as oor beperkte streke in die noordelike Kaapprovinsie. Oor die res van die Unie was die temperatuur onder normaal.

Die gemiddelde temperatuur vir die Unie as geheel was 57.1°F, of 0.3° onder

word die provinsies afsonderlik beskou, dan vind ons dat die gemiddelde temperatuur vir die Kaapprovinsie, Transvaal en Vrystaat onderskeidelik 0.4°, 0.3° en 0.6° onder normaal was, *

Die gemiddelde maksima of dag temperature toon 'n soortgelyke distribusie. Die grootste negatiewe afwykings (4 - 6°) het voorgekom langs die kusstreke van die westelike en suidwestelike Kaapprovinsie.

Die gemiddelde minima of nag temperature was bo normaal hoofsaaklik oor Natal, die oostelike gedeeltes van die Vrystaat en Kaapprovinsie, asook oor die noordwestelike Transvaal.

Vir die Unie as geheel was die gemiddelde maksimum 70.3°F, of 0.5° onder normaal, en die gemiddelde minimum was normaal, naamlik 43.9°F.

Die warmste dae van die maand was die 1ste en vanaf die 19de tot die 24ste. Hieronder word van die hoogste temperature wat in elkeen van die provinsies aangeteken is, weergegee: 93.4° te Rietpoort (Namakwaland) op die 22ste; 97.0° te Messina (Tvl) op die 1ste, 92.0° te Stanger (Natal) op die 19de en 80.0° te Kroonstad (O.V.S.) op die 19de.

Die koudste periodes van die maand was die volgende: 1ste tot 3de, die 6de, die 24ste tot die 28ste en die 31ste. Die volgende is van die laagste temperature wat in elkeen van die provinsies geregistreer is: 23.0° te Willowmore (KP) op die 2de, 22.0° te Belfast (Tvl) op die 24ste; 32.0° te Ladysmith (Natal) op die 3de, en 18.0° te Harrismith (O.V.S.) op die 3de.

RYP:

Gedurende die eerste paar dae van hierdie maand het dit skerp geryp in dele van die oostelike Kaapprovinsie, die Vrystaat en op die Transvaalse hoëveld, terwyl ligte ryp oor byna die hele Unie opgemerk was, uitsluitende natuurlik die kusstreke en die Transvaalse laeveld.

NEERSLAG:

Die distribusie van die neerslag, uitgedruk as 'n persentasie van die normaal, word naasteby aangegee op Kaart III. Die neerslag was bo normaal oor die Transvaal, Natal, die noordelike en oostelike Vrystaat asook oor die suidoostelike binneland van die Kaapprovinsie. Ongekende swaar reëns was gerapporteer uit die binneland van Natal, en by verskeie stasies het die totale neerslag die normale waarde meer as ses maal oorskry. Vir die grootste gedeelte van die Kaapprovinsie vernaamlik die westelike dele was die neerslag minder as die helfte van die normale waarde, beperkte streke in die omgewing van Prince Albert Weg, Britstown en Kenhardt het heeltemal geen reën ontvang nie.

Word die reënval gegewens in Tabel II vir elke provinsie afsonderlik saamgevat, dan vind ons dat die Vrystaat, Natal en Transvaal surplusse aangetoon het wat onderskeidelik 41%, 342% en 80% van die normale neerslag bedra; die Kaapprovinsie daarenteen, het 'n tekort van 18% gehad. Die verskillende reënvalstreke van die Kaapprovinsie, naamlik die streek met reën in alle seisoene en die winterreënstreek, het tekorte van respektiewelik 57 en 33% aangetoon, terwyl die somerreënstreek 'n surplus van 29% aangedui het. Vir die hele Unie was daar 'n surplus van 66%.

Ongunstige weerstoestande het oor die hele Unie geheers vanaf die 3de tot die 5de. Gedurende hierdie periode het dan ook die alreeds gemelde besonder swaar buie uitgesak oor die Transvaal, Natal en die oostelike distrikte van die Kaapprovinsie.

* terwyl die temperatuur van Natal met 0.4° bo normaal was.

Met uitsondering van enkele buie op die 16de, oor die sentrale en westelike Transvaal, asook oor die noordelike distrikte van Natal, het oorwegend mooi weer vir die res van die maand oor hierdie twee provinsies geheers. Ook oor die Vrystaat het algemene buie op die 16de uitgesak en buitendien, vanaf die 19de tot die 22ste, verskeie afgesonderde donderstorms. Die streek met reën in alle seisoene en die winterreënstreek van die Kaapprovinsie, het vanaf die 14de deurgaans ongestadige weer ondervind; die neerslag was egter meestal in die vorm van motreën. (Sien ook aantekeninge van waarnemers).

HAEL: Hael was op die 5de te Louis Trichardt (Transvaal) gerapporteer. In die Kaapprovinsie het haelstorms voorgekom te Kaappunt op die 1ste, te Kuruman op die 4de en te Barkly Oos op die 23ste. Uit die Vrystaat is berigte van hael ontvang vanaf Raboni Ranch (Hoopstad) op die 4de en uit Natal op die 16de te Weza. Dit skyn egter of in geen geval noemenswaardige skades aangerig is nie.

SNEEU:

Tesame met die ongestadige weer vanaf die 3de tot die 5de, het daar ook sneeu geval op die bergreekse in die Kaapprovinsie, in Basoetoland en die oostelike Vrystaat, op die Drakensberge in Natal, en op die Transvaalse hoëveld so ver noord soos Ermelo. In die binneland van Natal was die sneeustorms vergesel van kwaai stormwinde verliese aan klein vee het voorgekom, en bome was ontwortel. Uit Thaba Tseka (Basoetoland) word berig dat 14 inboorlinge omgekom het. Die sneeulaag was omtrent 10" dik in Basoetoland, en 3 tot 6" in Natal.

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf die 1ste Januarie 1940, was onder normaal oor die Transvaal, Vrystaat, die westelike kusstreke en die noordelike distrikte van die Kaapprovinsie, en oor die suidelike Natal. Afsonderlik beskou, het die Kaapprovinsie en Natal surplusse van respektiewelik 17% en 2%, en die Vrystaat en Transvaal tekorte van 7% en 16% van die normale neerslag getoon. Die Kaapse somerreënstreek, die streek met reën in alle seisoene en die winterreënstreek het surplusse van onderskeidelik 12, 20% en 31% gehad. Vir hierdie tydperk was die neerslag vir die Unie as 'n geheel normaal.

DIE SEISOEN NEERSLAG:

Die seisoen neerslag vanaf 1 Julie 1939 aangedui as 'n persentasie van die normaal, word naasteby aangetoon op Kaart IV. Die neerslag vir hierdie periode was hoofsaaklik bo normaal. Die Kaapprovinsie, Vrystaat, Natal en Transvaal het surplusse van respektiewelik 16%, 5%, 12% en 11% van die gemiddelde normale reënval aangetoon. Die winterreënstreek, streek met reën in alle seisoene en somerreënstreek van die Kaapprovinsie, het surplusse van 5%, 23% en 16% onderskeidelik aangetoon. Vir die Unie as geheel was daar 'n surplus van 12%.

OBSERVERS' NOTES FOR MAY 1940.
AANTEKENINGE VAN WAARNEMERS VIR MEI 1940.

KRUGERSDORP(CORONATION PARK): May has been a clear, fairly wet and otherwise average month. The temperature was 0.8° below normal. 1.45" of rain fell on 4 days against an average of 0.89" on 3 days for the past 37 years. Walter W. Webster.

ESTCOURT: Very nice rain fell on the 4th and 5th. Gale, southeasterly, force 10, from 13 hours on 5th May to 0300 hours 6th May. Gale southeasterly to southerly to SSW, force 8 from 0300 hours on 6th May to 1100 hours on 6th May. Damage done to buildings and trees uprooted. The rest of the month was fine but dry. 4.83" were recorded on 4 days. W. Lambrechts.

SANDFLATS(MOUNT CURRIE): With the exception of a bitterly cold wind during the heavy rain, the day temperatures have been mild to warm, even quite summery at times. Only very light frosts at times except on the 2nd and 3rd. Cloudy days with light to moderate varying winds. The rainfall 4.06" on 5 days, is the highest on records for May. H.B. Corderoy.

KOPJE ALLEEN: The first frost of the season was recorded on the 3rd. There was rather a warm spell from the 13th to the 23rd, from then to the end of the month, there were a few genial days, with ground frost in the mornings. 0.79" of rain fell on 2 days.

J Lyall Scott
F R M S

BENONI: The weather on the average has been mild to warm, although the sunshine was below the average. The latter part of the month has shown a decided drop in the maximum and minimum temperatures. The mornings were very misty with poor visibility. 1.15" of rain fell on 5 days. C R Begley.

KIMBERLEY AERO: Anticyclonic weather for long periods. Pressure and temperature above normal, while the rainfall was much below average. Winds light, mainly NNE, falling calm at night. Thin persistent haze. 0.28" of rain fell on 4 days. J.G. Gwayde Met. Assistant.

KOMATIPOORT: The weather on the whole was fine throughout the month, only at the beginning there was some heavy rain. The wind was only moderate and mostly in a N or SE direction. 3.14" of rain fell on 2 days. J.H.W. Stevens.

KURUMAN(SEODIN): Oor die algemeen was die maand aangenaam, sonnige dae, helder lug, en min koue was 'n uitstaande kenmerk. 0.57" reën is aangeteken op 3 dae. D.A. Schoonees.

WEPENER: The month opened cold and wet for the first week, and thereafter continued dry and mild, with a couple of cold nights when the minimum got down to freezing point. 1.14" of rain were recorded on 7 days. W.T.E. Kemm F.R.M.S.

POTCHEFSTROOM: Except for heavy frost and 0.62" rain during the first few days of May, general weather conditions became very inconsistent and uneventful. Cold to cool nights and warm days were the main and outstanding features for the past month. Low cloud amount and high percentage of sunshine. 0.75" of rain fell on 4 days. B.D. Saayman.

RIETPOORT: There were some unusually warm days in this month, and less rain than usual. 0.18" fell on 4 days. B. Hudson.

ARMOEDSVLAKTE: Die reënval vir hierdie maand was min of meer dieselfde as dié van verlede jaar in Mei. Weiding is goed, maar die maand was droog en koel. Dit het 'n paar nagte skerp geryp. 0.36" is aangeteken op 2 dae. Die Verantwoordelike Amptenaar.

NEWCASTLE (CONVENT): Except for the 4th and 5th of this month, which were bitterly cold and wet days, this was a fine and mild month. Frost was registered on the third. 4.96" of rain fell on 3 days. Sister M. Scholastica

KROONSTAD(SOMERGEWAS STASIE) Dit was taamlik warm gedurende die maand. Ryp is slegs twee keer waargeneem. Min wind het gewaai, en baie sonskyn. 0.69" is aangeteken op 5 dae. D.J. van den Berg.

FAURESMITH (VELD RESERWE): Die eerste paar dae van die maand was dit baie koud, en dit het taamlik geryp. Die res van die maand was nog warm, en baie matige winde het gewaai. Met 'n paar uitsonderings was dié aande en nagte stil. 0.37" is aangeteken op 4 dae. A.J. v.d Walt.

UPINGTON: Oor die algemeen 'n besonder warm maand vir Mei. Ligte ryp het geval die eerste twee dae van die maand. Daarna het dit nog nie weer geryp nie. 0.02" is aangeteken op 1 dag. S. Malan.

MODDERPOORT: Sharp frost occurred on the first few days, followed by unsettled weather and a fall of snow during the early hours of the morning of the 5th. It was the heaviest fall seen here for some time, the kopjes being well covered, but rain soon came to wash it away. The Maluti mountains were covered from top to bottom and there are still some traces left. More unsettled weather followed after the middle of the month, while the remainder was fine with slight ground frost at nights. 1.87" of rain fell on 8 days. J. Eddels.

PORT SHEPSTONE: The weather during this month has been fine, temperatures low and a considerable amount of thick haze during afternoons. 8.53" fell on 6 days. The Lighkeeper.

CRADOCK: The days were mainly mild, but fairly cold during the nights. Fairly good rains fell, totalling 1.36" on 4 days. The Gaoler.

ISMONT, MID ILLOVO: Weather during the month was mild. The total rainfall for the month was 9.16" on 5 days which is nearly 8" above the average rainfall for May. Cattle and crops in good condition. Lt. Col. J.W.Montgomery.

WAKKERSTROOM: Die sneeustorm op die 5de deser was buitengewoon. Die sneeu het ongeveer 4" tot 5" dik geleë, en het aansienlik skade aan die bome aangerig. 2.39" is aangeteken op 3 dae. H. Sausenthaler.

PADDOCK(NATAL): The rains on the 4th came without warning, and continued in light showers for 36 hours. It was cold and windy, but rain was needed, and since then, we had fine weather. 10.63" fell on 7 days. I.F. Harrison.

DRAKENSBERG GARDEN HOTEL: Sunny, cloudy mornings, hot at noon. No rain except for first week. Snow lying in crevasses of mountains. Winds slight. 4.20" were recorded on 3 days. The Manager.

MARSH MOOR(MOLTENO): Good rains early in month followed by a dry spell of bright sunny days with very little frost at night. 2.67" fell on 4 days. F. S. Pope.

MOUNT EDGECOMBE: The total rainfall for the month was 9.14" on 3 days, the highest rainfall for any one day was 5.77" on the 5th. This is the highest rainfall for May on records at Mount Edgecombe over the past 53 years. Temperatures were above normal, while the relative humudity was below normal. The hours of sunshine were about normal, with the exception of 7 days the winds have been very light breezes, generally from SE direction. The Director, Natal Sugar Experiment Station.

QUEENSTOWN: Fairly cool month with few windy days. Hoar frost on three mornings which damaged garden subjects. Rain fell on 3 days totalling 1.49" The Curator Pub. Gardens

SLENT PAARL: The first half of the month lacked rain, but the air was moist followed in middle of the month by good rain for a few days. An interesting feature was the sudden high temperature on the 23rd, accompanied by a thunderstorm in the west, to be succeeded by a drop in the temperature the next day. 2.22" fell on 7 days. R.W. Smart

BADPLAATS(CAROLINA): Die dae was oor die algemeen aangename sonskyn dae, met die uitsondering van 'n paar dae wat baie koud was. Koue weste winde het op die vierde en vyfde gewaai. Geen ryp is hier by die bad waargeneem nie. 0.30" is aangeteken op 1 dag. I.M van Rooyen

GLEN: Behalwe 'n paar koue dae aan die begin van die maand, was dit 'n besonder warm en aangename weer vir Mei. 0.91" is aangeteken op 5 dae. Die Prinsipaal. Landbouskool

HERMITAGE(ADDO): The month began with a cold snap, but warmed up considerably during the middle of the month. A fair amount of clouds, but little rain. Some heavy dens and wet fogs were experienced. Mainly calm, except for three windy days. 0.42" fell on 3 days. E. D. Dixie

LINDLEY: Generally dry throughout the whole month. Cold during the nights, but warm during daytime. 1.30" were recorded on 3 days S.T. Couws.

DOHNE(PROEFPLAAS): Deurdringende reëns wat taamlik vinnig neergekom het, het geval. 2.62" is aangeteken op 3 dae. Aangename dae, soms winderig en stofferig, maar die nagte was oor die algemeen koel. J.H.K. Kruger.

MOSSEL BAY: Lightning, but no sound of thunder on the 16th. Unusual amount of low clouds in morning, lasting all day. Temperatures on 23rd and 27th unusually high Winds mainly westerly. Barometer high on 7th. Humidity low on 24th. 0.74" were recorded on 6 days. D.J. van Jaarsveldt. Met. Assistant

WALVIS BAY: The month has been characterised by a general high level of pressure, very frequent fogs, especially at sea, relative scarcety of upper and middle clouds, and a decrease in the force of thr afternoon sea breezes, giving very few duststorms. Apart from a hot spell between May 6th and 13th, the weather has been very cool. No rain was recorded. R.S. Smith.

STANGER: The outstanding feature of the month was the heavy wind on the night of the 4th and all day and night of the 5th. Many trees were uprooted. 10.33" fell on 5 days. C C Foss.

UMBOGINTWINI: In general the month was calm, dry and warm. Heavy rains fell at the beginning of the month, accompanied by a gale on the 5th. 5.37" were recorded on 4 days.
The Manager. Kynoch Factory.

KATIMA MULILO: Heavy dews in the mornings and early mists. Very little wind in the mornings, but freshing up slightly during the day. No rain fell during the month.
The Magistrate

GOEDELOOF(VRYHEID) In die begin van die maand het swaar reëns geval gepaard met kwaai winde. Klein lammertjies is by honderde dood,selfs groot skape en 'n taamlike groot aantal beeste het dood gegaan. Die mielie oes is besonder swak. Die winter gesaaides is min dog mooi. Ben van Rensburg.

MUNRO'S WINKEL(NEW CASTLE):Terrible snow storm on the 5th lasting twelve hours. Trees uprooted and blown down, beautiful mild weather since. 3.67" on 2 days. G. Cronje.

MIDDLETON(GREYTOWN): Bome omgewaai en skade aan huise aangerig. Baie beeste dood. Nog nooit was daar so'n groot neerslag binne 48 uur nie. Rivier en spruite oorlopens vol. Storm onverwags op die 5de Mei, terwyl 5.05" aangeteken is. Reënval is 8.15" op 2 dae.
O.L. Nel.

RANGPOORT(NATAL): We had a terrific gale and continuous rain for 48 hours on the 4th and 5th. The wind did considerable damage to trees, uprooting hundreds of old well established trees, partly owing to the sodden ground. No frost throughout the month. Rainfall 4.31" on 3 days. Jas.H.Bartholomew.

RIETVLEI(UTRECHT): Koue weer. Skape dood van koue en kapok. Vee weggevoer deur riviere en bome ontwortel deur wind. Reënval 6.32" op 2 dae. H. Zietsman.

HOPEWELL(STUTTERHEIM): Stock in fair condition. Mealie crops poor - oats all rusty. 2.79" on 3 days. J. W. Whittal.

SPARKSHURST(STANDERTON) Very welcome rain on 4th,5th and 6th - saved all green feed Rainfall 1.39" on 3 days. H. N. Gold

PAKPOORT(BLOEMFONTEIN): Very genial warm weather. No frost. River still trickling.Rainfall 0.85" on 3 days. L. A. Evans.

NUWEJAARSKRAAL(PRIESKA): Cold weather up to middle of month, since then,practically summer weather again with very little frost at night. Rainfall nil. J. P. Louw.

KOEGAS(HAY):Unusually warm weather prevailing for this time of the year. Rainfall nil.
S. J. Hacokes

PAPFONTEIN(THABA'NCHU): This month has been the warmest May I have known in 31 years. Green feed and wheat crops have grown wonderfully, but I am afraid wheat will come into ear too early. Rainfall 1.01 on 4 days. J. Rabbitts.

BRAKPAN(WOLMARANSSTAD): Die eerste en tweede Mei het alles dood gevryp. Vee ly honger.Nog nie koud nie. Reënval 0.39" op 1 dag. J. C. Lombard.

TABLE I - TEMPERATURE AND CLOUDINESS - MAY 1940.
TABEL I - TEMPERATUUR EN BEWOLKTHEID - MEI 1940.

Results of observations at 0.830 S.A. Standard Time.
Resultate van waarnemings om 0.830 S.A. Standaard Tyd.

STATION STASIE	AIR TEMPS. IN °F : LUG TEMPERATURE IN °F. Mean Gem. Max.	Mean Gem. Min.	Mean Gem.	Diff. Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	NO.DAYS: AANTAL DAE Min.Below: Min.Onder: 37	32	27	Max.Ab. Max.Bo 90	95	100	CLOUDINESS: BEWOLKTD. Mean Gem.	No.days: Aant.da 0-1	2-5	6-9	10
CAPE PROVINCE: KAAPPROVINSIE:																			
ALIWAL NORTH	65.7	38.1	51.9	-0.1	75.0	22	26.0	3	13	4	2	0	0	0	2	17	11	3	0
BEAUFORT WEST	70.1	46.1	58.1	+0.6	82.9	23	33.0	22	5	0	0	0	0	0	3	17	5	8	1
BRITSTOWN	69.8	39.5	54.7	-2.3	79.5	22	28.0	1	14	6	0	0	0	0	1	20	11	0	0
CAPE L'AGULHAS	65.1	54.2	59.7	+0.0	76.0	14	47.0	1	0	0	0	0	0	0	6	4	2	16	3
CELA	68.3	45.3	56.8	±0.9	80.0	23	32.5	3	2	0	0	0	0	0	4	18	2	6	5
CARNARVON	66.5	37.5	51.9	-2.0	76.4	22	27.3	2	13	6	0	0	0	0	4	17	5	6	3
CERES	65.4	40.7	53.1	-1.5	83.0	23	34.0	2	10	0	0	0	0	0	5	6	9	11	5
CRADOCK	69.0	41.5	55.3	+0.4	79.0	24	31.0	3	6	1	0	0	0	0	3	12	11	8	0
DANIELSKUIL	76.3	47.0	61.2	-0.2	91.0	23	40.0	2	0	0	0	1	0	0	5	9	8	5	9
DE AARWALLS	64.7	51.2	58.0	-1.0	85.1	23	40.8	1	0	0	0	0	0	0	5	12	6	4	9
EAST LONDON	72.0	54.8	63.4	±0.0	86.0	24	49.0	20	0	0	0	0	0	0	5	11	7	12	1
GRAAFF REINET	71.4	49.9	60.7	+0.2	82.8	23	37.2	1	0	0	0	0	0	0	4	13	8	8	2
GRAHAMSTOWN	70.4	46.4	58.4	+1.2	85.6	24	38.0	3	0	0	0	0	0	0	4	11	7	6	6
ST.DRAKENSTEIN	68.2	45.0	56.6	-1.9	85.5	23	39.6	9	0	0	0	0	0	0	5	9	11	5	6
GROOTFONTEIN	64.9	37.5	51.2	-1.0	75.3	13	25.1	3	13	7	2	0	0	0	4	14	3	11	2
HOPETOWN	70.8	43.2	57.0	+0.8	80.0	22	31.0	2	7	2	0	0	0	0	3	17	5	9	0
IDUTYWA	70.5	50.7	60.6	+0.3	82.0	22	40.0	3	0	0	0	0	0	0	4	17	4	1	7
KENHARDT	74.9	43.3	59.1	-0.1	83.0	27	33.0	2	5	0	0	0	0	0	2	22	2	4	3
KIMBERLEY	71.0	43.4	57.2	+0.5	79.4	22	29.6	2	5	2	0	0	0	0	3	20	1	10	0
KING WILLIAMSTOWN	74.0	48.4	61.2	+0.2	86.0	25	41.0	3	0	0	0	0	0	0	4	12	8	4	7
KLAVER	73.3	50.7	62.0	-2.1	93.0	23	43.3	31	0	0	0	1	0	0	5	14	2	7	8
KOKSTAD	67.9	39.8	53.9	+0.6	77.1	20	28.8	3	5	2	0	0	0	0	3	16	5	6	4
KURUMAN	70.2	39.5	54.9	-0.4	77.0	20	27.0	2	6	2	1	0	0	0	3	20	2	3	4
MATROOSBERG	62.8	41.1	52.0	-0.4	76.5	12	31.7	1	6	1	0	0	0	0	4	14	5	11	1
MAFEKING	71.3	41.8	56.6	-0.8	78.0	19	32.5	3	3	0	0	0	0	0	2	14	12	5	0
MOSSELBAY	68.6	56.2	62.4	+0.4	82.0	23	46.0	1	0	0	0	0	0	0	7	3	7	9	12
OKIEP	69.2	47.1	58.2	-1.9	82.0	22	36.2	30	2	0	0	0	0	0	3	17	7	6	1
OUDTSHOORN	71.7	43.3	57.5	-0.1	88.0	24	36.5	31	2	0	0	0	0	0	2	14	12	5	0
PORT ELIZABETH	71.3	51.5	61.4	+1.4	86.3	27	40.8	31	0	0	0	0	0	0	4	12	7	11	1
PORT NOLLOTH	60.4	45.6	53.0	-4.4	82.0	22	40.0	1	0	0	0	0	0	0	5	13	4	4	10
PORT ST.JOHNS	74.3	61.0	67.7	+0.6	86.0	28	49.0	5	0	0	0	0	0	0	5	6	14	6	3
POSTMASBURG	69.4	46.8	58.1	+0.8	76.9	21	32.3	1	4	0	0	0	0	0	2	18	7	5	1
PRIESKA	73.9	40.1	57.0	-0.6	84.0	22	29.2	3	10	1	0	0	0	0	2	19	7	5	0
QUEENSTOWN	69.8	42.6	56.2	+0.6	80.0	23	30.0	3	4	2	0	0	0	0	3	18	5	6	2
RIETPOORT	72.2	47.7	60.0	-1.3	93.4	22	39.0	2	0	0	0	3	0	0	3	19	2	4	6
SOMERSET EAST	71.1	48.1	59.6	+1.3	82.4	23	36.4	3	1	0	0	0	0	0	4	14	7	6	4
SUTHERLAND	61.4	32.9	47.2	-1.7	75.0	23	25.0	22	26	17	5	0	0	0	4	12	10	7	2
UITENHAGE	75.8	50.1	63.0	+1.9	91.4	23	44.6	17	0	0	0	1	0	0	4	11	6	5	3
UMTATA	75.2	45.7	60.5	+1.5	84.0	24	34.0	3	1	0	0	0	0	0	3	12	4	3	3
UPINGTON	75.8	47.6	61.7	+0.3	86.3	22	34.4	2	2	0	0	0	0	0	1	23	7	0	1
VAN WYKSVLEI	71.9	39.8	55.9	-1.2	82.0	22	28.6	2	10	2	0	0	0	0	3	17	6	8	0
VICTORIA WEST	66.3	36.6	51.5	-0.8	76.0	23	26.0	3	18	6	1	0	0	0	2	15	11	5	0
VRYBURG	72.0	39.3	55.7	-1.5	79.4	21	30.0	3	9	2	0	0	0	0	2	20	3	8	0
WILLOWMORE	67.4	36.2	51.8	-2.1	81.0	24	23.0	2	16	7	4	0	0	0	3	9	11	8	3
WINCHFIELD	65.5	45.0	55.3	-2.0	82.0	23	40.4	15	0	0	0	0	0	0	6	9	2	15	5
O.F.S. : O.V.S.																			
BETHULIE	65.9	39.1	52.5	-0.9	75.0	22	28.0	3	10	2	0	0	0	0	4	11	6	9	0
BLOEMFONTEIN	66.2	37.4	51.8	-1.4	74.2	22	22.4	2	17	3	3	0	0	0	3	17	8	3	3
FAURESMITH	66.1	37.1	51.6	-0.5	75.0	21	26.9	3	17	5	1	0	0	0	3	19	3	6	3
HARRISMITH	67.4	31.1	49.3	-0.5	76.0	20	18.0	3	28	20	6	0	0	0	1	23	5	3	0
KROONSTAD	70.6	35.4	53.0	-0.3	80.0	19	22.0	3	23	9	2	0	0	0	2	19	6	4	2
LINDLEY	67.8	35.7	51.8	-0.5	76.0	20	24.0	3	19	8	2	0	0	0	2	20	10	1	0
WARDNER	66.2	37.3	51.8	+0.1	75.2	22	22.8	3	18	7	2	0	0	0	3	18	6	4	3

TABLE I - TEMPERATURE AND CLOUDINESS - MAY 1940 (CONTD).
TABEL I - TEMPERATUUR EN BEWOLKTHEID - MEI 1940 (VERVOLG).

STATION STASIE	AIR TEMPS. IN °F : LUG TEMPERATURE IN °F								NO. DAYS: AANTAL DAE						CLOUDINESS: BEWOLKTHD.				
	Mean Gem. Max.	Mean Gem. Min.	Mean Gem.	Diff. Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Below: Min. Onder: 37	32	27	Max. Ab: Max. Bo: 90	95	100	Mean Gem.	No. days: Aant. da: 0-1	2-5	6-9	10
TRANSVAAL:																			
BARBERTON	78.1	53.9	65.0	+1.0	88.0	20	48.0	6	0	0	0	0	0	0	3	10	13	4	1
BELFAST	63.1	34.0	48.6	+0.7	72.0	20	22.0	24	19	14	7	0	0	0	1	[illegible]	0	3	2
ERMELO	66.4	39.6	53.0	+0.0	76.0	1	32.0	6	10	2	0	0	0	0	3	[illegible]	4	5	4
GERMISTON	66.2	43.4	54.8	-0.5	73.8	21	34.8	6	4	0	0	0	0	0	2	[illegible]	6	[illegible]	1
HEIDELBERG	69.4	34.8	52.1	+0.0	76.2	21	24.8	3	22	8	1	0	0	0	2	20	7	3	1
KLERKSDORP	70.8	38.4	54.6	-1.5	78.0	21	26.1	3	10	2	1	0	0	0	1	21	6	3	0
KOMATIPOORT	83.5	54.5	69.0	+0.5	95.0	1	43.0	28	0	0	0	3	1	0	2	17	7	3	0
KOPJE ALLEEN	75.1	42.5	58.8	-0.5	83.5	19	34.5	3	6	0	0	0	0	0	2	21	5	3	2
LOUIS TRICHARDT	74.1	48.1	61.1	+0.3	90.0	1	41.0	13	0	0	0	1	0	0	4	12	9	2	8
LOUSINA	82.1	59.0	70.6	+2.5	97.0	1	52.0	6	0	0	0	3	1	0	2	18	9	2	2
MIDDELBURG	68.5	35.6	52.1	-1.2	77.0	21	28.0	29	19	9	0	0	0	0	3	17	7	4	3
POTCHEFSTROOM	75.3	40.9	58.1	-0.4	84.0	20	33.0	3	8	0	0	0	0	0	2	23	3	2	3
PIETERSBURG	71.8	41.6	56.7	-0.8	80.6	20	33.4	26	8	0	0	0	0	0	3	20	4	6	1
PIET RETIEF	71.1	41.3	56.2	-1.4	80.0	20	32.5	28	9	0	0	0	0	0	2	20	6	4	1
PILGRIMS REST	70.5	42.1	56.3	+0.2	80.3	20	35.0	28	7	0	0	0	0	0	2	20	6	4	2
POTCHEFSTROOM	70.5	38.6	54.6	-0.2	78.0	22	26.5	3	14	3	1	0	0	0	2	20	4	5	2
PRETORIA	69.4	41.1	55.3	-2.6	77.4	21	30.4	3	6	1	0	0	0	0	2	21	6	3	1
RUSTENBURG	77.0	38.5	57.8	-0.3	87.0	14	31.0	7	10	2	1	0	0	0	3	16	8	5	1
STANDERTON	69.3	35.7	52.5	+0.6	76.6	22	24.0	3	21	9	1	0	0	0	2	21	4	5	1
VAAL HARTZ	71.8	36.8	54.3	-0.1	79.1	22	22.9	2	13	2	2	0	0	0	3	17	8	3	3
WAKKERSTROOM	64.7	33.3	49.0	-0.3	71.2	22	22.3	3	24	17	4	0	0	0	2	23	3	3	2
ZEERUST	72.6	37.0	54.8	-1.8	80.0	19	27.0	3	18	4	1	0	0	0	2	23	3	3	2
NATAL:																			
DUNDEE	70.1	42.0	56.1	+0.0	79.6	19	34.4	3	4	0	0	0	0	0	2	25	1	1	4
DURBAN AERO	75.5	57.1	66.3	+0.1	81.0	12	49.9	30	0	0	0	0	0	0	4	13	6	9	3
EMPANGENI	77.2	57.6	67.4	+0.4	83.0	12	48.0	26	0	0	0	0	0	0	2	21	3	1	4
ESHOWE	74.5	55.2	64.9	-0.3	83.4	11	48.7	3	0	0	0	0	0	0	2	20	1	3	1
ESTCOURT	70.7	44.3	57.5	+1.5	80.0	19	36.5	3	1	0	0	0	0	0	3	18	7	3	4
LADYSMITH	71.7	42.1	56.9	-1.5	83.0	19	32.0	3	4	1	0	0	0	0	2	21	4	5	1
PIETERMBURG	75.5	49.5	62.5	+1.3	85.8	23	40.0	11	0	0	0	0	0	0	4	19	2	6	4
STOLOTINI	78.8	57.2	68.0	-1.2	88.0	20	52.0	27	0	0	0	0	0	0	4	11	7	7	1
PORT SHEPSTONE	75.1	59.0	67.1	+1.6	86.0	12	54.0	8	0	0	0	0	0	0	3	17	5	7	2
STANGER	78.4	61.0	69.7	+1.7	92.0	19	55.0	6	0	0	0	1	0	0	3	20	5	3	3
VRYHEID	72.3	47.3	59.8	+1.6	79.0	19	33.8	6	1	0	0	0	0	0	3	20	4	3	4
WEENEN	74.3	43.0	58.7	+0.1	84.0	19	36.0	27	5	0	0	0	0	0	0	28	2	0	1
BASUTOLAND : BASOETOLAND:																			
BUTHA BUTHE	63.2	36.4	49.8	-1.1	71.0	19	29.0	3	18	3	0	0	0	0	1	26	2	0	3
MASERU	63.9	39.8	51.9	+0.4	72.0	19	27.0	2	8	4	1	0	0	0	2	18	7	4	2
QUTHING	61.6	38.3	49.9	-1.2	70.0	22	27.0	2	9	2	2	0	0	0	2	21	6	4	0
QACHAS NEK	61.5	38.6	50.1	-0.2	70.5	19	29.5	7	8	5	0	0	0	0	2	18	6	3	3
SEHLABATHEBE	63.7	32.7	48.2	+1.1	96.0	24	22.0	3	27	17	2	1	1	0	0	0	0	0	0
BECHUANALAND: BETSOEANALAND:																			
DIKGATLONG	79.4	41.2	60.3	-1.3	90.0	20	32.0	3	8	1	0	1	0	0	2	21	5	2	2
GAPERONES	75.1	41.8	58.5	-0.8	86.0	19	31.0	25	8	1	0	0	0	0	2	16	11	3	1
MAHALAPYE	77.9	44.1	61.0	+0.2	87.0	20	37.0	3	1	0	0	0	0	0	3	20	2	7	1
SWAZILAND: SWASIELAND:																			
MBABANE	68.9	47.6	58.3	-0.4	80.0	20	39.0	6	0	0	0	0	0	0	2	17	11	0	3
STEGI	73.9	54.0	64.0	+0.6	86.0	20	45.0	6	0	0	0	0	0	0	2	21	6	4	0

TABLE II : PRECIPITATION IN INCHES : MAY 1940.
TABLE II : NEERSLAG IN DUIME : MEI 1940.

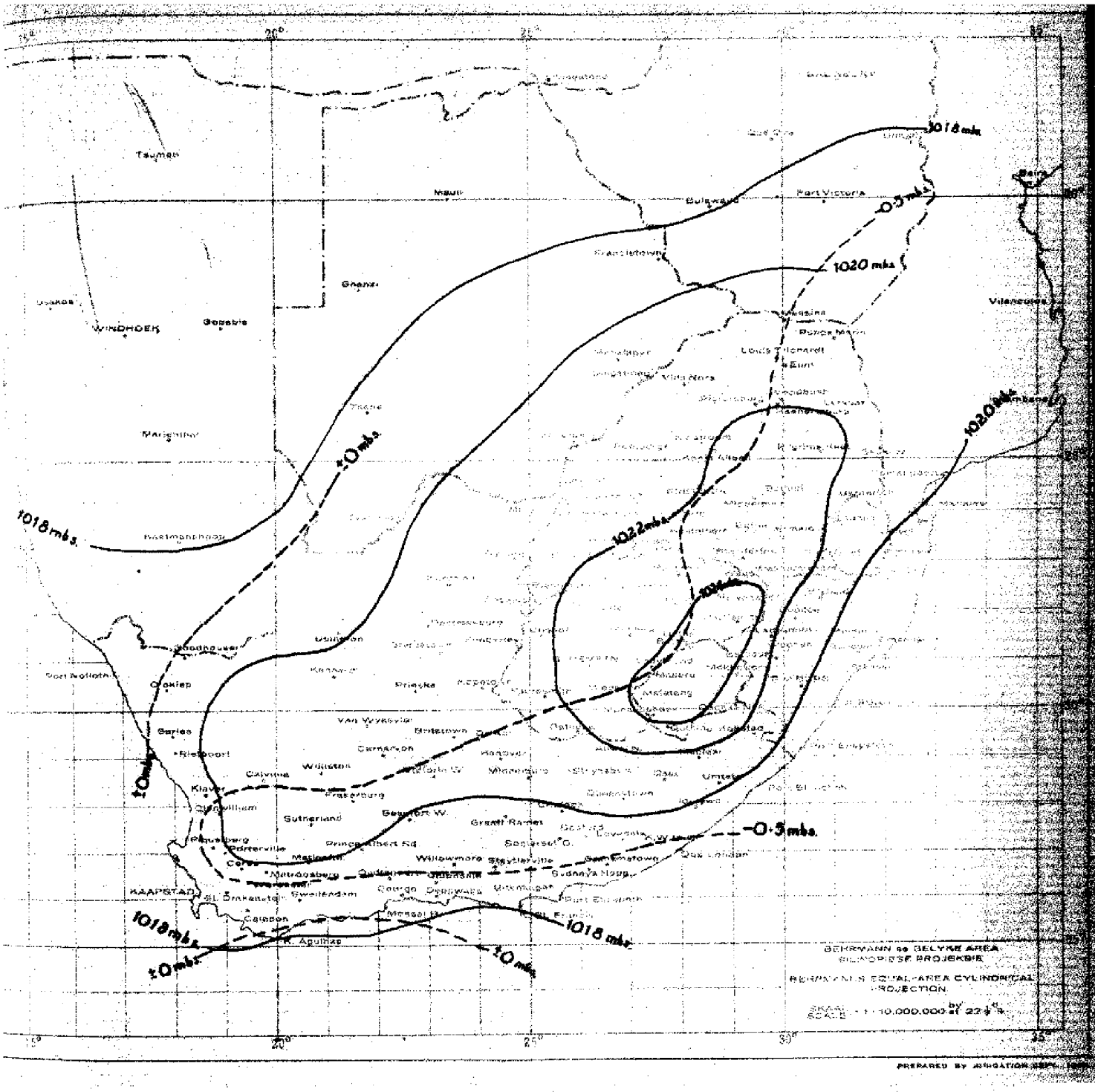
STATION STASIE	MEI MAY	NORM.	DIFF. VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO.OF DAYS: AANTAL DAE 0.01" or more	0.04" of meer	TH.	H.	S.	CUMULATIVE RAINFALL FROM 1.1.1940 % OF NORMAL	CUMULATIVE RAINFALL VANAF 1.7.19[illegible] % VAN NOR
CAPE PROVINCE : SUMMER RAINFALL AREA: KAAPPROVINSIE : SOMERREËNSTREEK:													
ALIWAL NORTH	1.74	0.93	+0.81	187	0.92	4	4	3	0	0	0	125	106
BEAUFORT WEST	0.19	0.61	-0.42	31	0.16	3	2	1	0	0	0	105	108
BRITSTOWN	0.00	0.64	-0.64	0	0.00	0	0	0	0	0	0	74	106
CALA	3.26	0.70	+2.56	465	2.93	4	3	3	0	0	0	134	109
CARNARVON	0.22	0.60	-0.38	37	0.22	4	1	1	0	0	0	119	156
CRADOCK	1.38	0.80	+0.58	173	0.64	5	4	4	0	0	0	178	157
EAST LONDON	2.14	2.29	-0.15	93	1.86	4	4	3	0	0	0	97	87
FRASERBURG	0.02	0.62	-0.60	3	0.02	4	1	0	0	0	0	98	106
GRAAFF REINET	2.62	0.66	+1.96	394	1.95	5	4	4	0	0	0	161	173
GRAHAMSTOWN	2.48	2.01	+0.47	123	0.62	4	6	4	0	0	0	109	103
GROOTFONTEIN	1.69	0.56	+1.13	302	1.26	4	3	2	0	0	0	143	163
HANOVER	1.84	0.87	+0.97	212	0.93	3	2	2	0	0	0	142	150
HOPE TOWN	0.14	0.75	-0.61	19	0.14	4	1	1	0	0	0	78	125
IDUTYWA	2.43	0.90	+1.53	270	2.33	4	3	3	0	0	0	157	120
KENHARDT	0.00	0.39	-0.39	0	0.00	0	0	0	0	0	0	84	195
KIMBERLEY	0.52	0.74	-0.22	70	0.20	21	4	3	0	0	0	90	95
KINGWILLIAMSTOWN	2.17	1.45	+0.72	150	1.92	4	5	3	0	0	0	111	108
KOKSTAD	2.54	1.01	+1.53	252	1.24	4	4	4	0	0	0	114	106
KURUMAN	0.57	0.54	+0.03	106	0.38	4	3	3	0	0	0	119	140
MATJESFONTEIN	0.08	0.77	-0.69	10	0.08	19	1	1	0	0	0	144	87
MACLEAR	1.80	0.89	+0.91	202	1.60	5	2	2	0	0	0	79	78
MAFEKING	0.83	0.46	+0.37	180	0.41	4	3	2	0	0	0	171	168
PHILIPSTOWN	0.17	0.86	-0.69	20	0.17	1	1	1	0	0	0	95	116
PORT ST. JOHNS	2.66	2.75	-0.09	97	1.63	4	5	3	0	0	0	77	93
POSTMASBURG	0.30	0.61	-0.31	49	0.16	3	3	3	0	0	0	131	140
PRIESKA	0.03	0.59	-0.56	5	0.03	4	1	0	0	0	0	73	96
PRINCE ALBERT RD.	0.00	0.39	-0.39	0	0.00	0	0	0	0	0	0	132	126
QUEENSTOWN	1.79	0.85	+0.94	211	1.65	5	2	2	0	0	0	126	114
SOMERSET EAST	1.28	1.34	-0.06	96	1.22	5	3	1	0	0	0	108	120
STEYTLERVILLE	0.11	0.59	-0.48	19	0.11	15	1	1	0	0	0	86	120
UMTATA	2.29	1.06	+1.23	216	2.18	5	2	2	0	0	0	91	96
UPINGTON	0.02	0.52	-0.50	4	0.02	4	1	0	0	0	0	90	138
VAN WYKSVLEI	0.06	0.42	-0.36	14	0.06	4	1	1	0	0	0	118	168
VICTORIA WEST	1.80	0.65	+1.15	277	1.63	5	3	2	0	0	0	110	126
VRYBURG	0.82	0.60	+0.22	137	0.82	3	1	1	0	0	0	101	116
CAPE PROVINCE : WINTER RAINFALL AREA: KAAPPROVINSIE : WINTERREËNSTREEK :													
CALEDON	0.89	2.41	-1.52	37	0.29	19	8	6	0	0	0	125	107
CAPE L'AGULHAS	2.17	2.04	+0.13	106	0.70	1	11	8	0	0	0	224	143
CALVINIA	0.12	1.07	-0.95	11	0.07	5	2	2	0	0	0	193	182
CAPE TOWN R.OBS.	3.48	3.68	-0.20	97	1.38	19	12	9	0	0	0	134	100
CERES	4.13	5.67	-1.54	73	1.93	20	10	9	0	0	0	132	92
CLANWILLIAM	0.51	1.30	-0.79	39	0.37	19	4	2	0	0	0	91	95
GARIES	0.04	0.65	-0.61	6	0.04	18	1	1	0	0	0	93	130
GROOT DRAKENSTEIN	5.39	4.98	+0.41	108	1.38	17	11	10	0	0	0	131	107
KLAVER	0.73	0.78	-0.05	94	0.62	19	4	3	0	0	0	102	118
O'OKIEP	0.30	0.91	-0.61	33	0.16	3	3	2	0	0	0	89	139
PIQUETBERG	1.06	2.75	-1.69	39	0.39	20	5	4	0	0	0	102	65
PORT NOLLOTH	0.14	0.38	-0.24	37	0.14	3	1	1	0	0	0	54	93
RIETPOORT	0.18	0.80	-0.62	23	0.09	19	4	2	0	0	0	69	121
SUTHERLAND	0.09	1.11	-1.02	8	0.08	18	2	1	0	0	0	-	-
WORCESTER	0.66	1.18	-0.52	56	0.33	4	5	5	0	0	0	112	88

TABLE II : PRECIPITATION IN INCHES : MAY 1940 (CONTD).
TABLE II : NEERSLAG IN DUIME : MEI 1940 (VERVOLG)

STATION STASIE	MEI MAY 1940	NORM.	DIFF. VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO. OF DAYS: AANTAL DAE 0.01" or more	0.04" of meer	TH. H. S. ⛈ ▲ ★	CUMULATIVE RAINFALL. FROM 1.1. 1940 % OF NORMAL	VANAF 1.7.1939 % VAN NORM.
ALL SEASONS RAINFALL AREA: STREEK MET REEN DWARSDEUR DIE JAAR:											
DEEPWALLS	2.46	4.59	-2.13	54	1.16	1	6	6	0 0 0	115	110
GEORGE	1.44	2.58	-1.14	56	0.49	4	11	7	0 0 0	127	130
MOSSEL BAY	0.75	1.50	-0.75	50	0.29	3	5	5	0 0 0	162	134
OUDTSHOORN	0.30	0.85	-0.55	35	0.19	4	2	2	0 0 0	156	135
PORT ELIZABETH	1.12	2.38	-1.26	47	0.64	3	7	5	0 0 0	107	110
SWELLENDAM	0.41	2.78	-2.37	15	0.12	4	6	5	0 0 0	113	109
SYDNEY'S HOPE	1.12	1.87	-0.75	60	0.44	6	6	5	0 0 0	112	147
UITENHAGE	0.48	1.28	-0.80	38	0.20	4	6	5	0 0 0	95	137
UNIONDALE	0.24	1.46	-1.22	16	0.11	4	3	2	0 0 0	120	126
TRANSVAAL:											
BARBERTON	2.02	0.90	+1.12	224	1.53	4	4	2	1 0 0	107	116
BELFAST	2.52	0.74	+1.78	340	1.49	4	4	4	1 0 0	103	133
BETHAL	1.46	0.61	+0.85	240	0.98	4	5	3	0 0 0	89	108
BLOEMHOF	0.36	0.56	-0.20	64	0.36	3	1	1	0 0 0	102	128
ELIM HOSPITAL	0.85	0.79	+0.06	108	0.70	5	2	2	0 0 0	92	105
ERMELO	1.82	0.68	+1.14	268	1.10	4	3	3	0 0 1	91	-
HEIDELBERG	1.09	0.58	+0.51	188	0.85	4	3	3	0 0 0	89	121
JOHANNESBURG	1.29	0.73	+0.56	177	0.96	4	4	4	0 0 0	72	105
JOUBERT PARK	1.43	0.77	+0.66	186	1.06	5	4	4	0 0 0	78	102
KLERKSDORP	0.60	0.36	+0.24	167	0.48	4	2	2	1 0 0	71	110
KOMATIPOORT	3.14	0.74	+2.40	409	1.77	2	2	2	1 0 0	-	-
KOPJE ALLEEN	0.79	0.50	+0.29	158	0.76	4	2	1	0 0 0	91	105
LICHTENBURG	1.20	0.63	+0.57	191	0.62	17	3	3	0 0 0	122	126
LOUIS TRICHARDT	0.76	0.87	-0.11	87	0.66	4	2	2	1 1 0	85	108
MESSINA	0.05	0.44	-0.39	11	0.05	5	1	1	0 0 0	52	99
MIDDELBURG	1.64	0.63	+1.01	260	1.03	5	5	5	2 0 0	82	117
NYLSTROOM	0.59	0.52	+0.07	113	0.54	5	2	2	0 0 0	93	119
PIETERSBURG	0.55	0.41	+0.14	134	0.53	4	2	1	0 0 0	90	141
PIET RETIEF	2.65	0.71	+1.94	374	1.55	5	2	2	0 0 1	76	-
PILGRIMS REST	0.88	1.02	-0.14	86	0.62	5	2	2	2 0 0	64	98
POTCHEFSTROOM	0.75	0.64	+0.11	117	0.30	4	4	3	0 0 0	84	95
PRETORIA	1.19	0.78	+0.41	153	1.01	4	5	3	2 0 0	55	99
ROOIBERG	1.04	0.57	+0.47	183	0.91	4	2	2	0 0 0	125	133
RUSTENBURG	1.16	0.63	+0.53	184	1.10	4	2	2	0 0 0	86	123
STANDERTON	1.58	0.66	+0.92	240	0.82	4	4	3	0 0 0	73	98
VILLA NORA	0.40	0.46	-0.06	87	0.40	4	1	1	0 0 0	53	105
WAKKERSTROOM	2.39	0.71	+1.68	337	1.26	4	3	2	0 0 1	99	101
WOODBUSH	1.11	1.79	-0.68	62	0.64	4	4	3	1 0 0	81	108
ZEERUST	0.97	0.73	+0.24	133	0.77	3	2	2	0 0 0	88	100
O.F.S. : O.V.S.											
BETHULIE	0.66	0.75	-0.10	87	0.45	4	2	2	0 0 0	91	89
BLOEMFONTEIN	1.27	0.97	+0.30	131	0.57	4	6	6	3 0 0	82	110
BOSHOF	0.58	0.72	-0.14	81	0.30	4	2	2	0 0 0	91	103
FAURESMITH	0.37	0.52	-0.15	71	0.15	5	4	4	0 0 0	139	125
HARRISMITH	3.42	1.13	+2.29	303	1.98	6	4	3	0 0 1	-	-
KROONSTAD	0.63	0.75	-0.12	84	0.28	3	5	3	0 0 0	78	103
LADYBRAND	1.64	1.01	+0.63	162	1.05	4	4	4	0 0 1	81	107
LINDLEY	1.30	0.88	+0.42	148	0.56	4	3	3	0 0 0	96	108
VREDE	2.32	0.68	+1.64	341	2.32	5	1	1	0 0 0	108	111
WINBURG	0.80	0.65	+0.15	123	0.31	3	5	5	0 0 0	89	107
WEPENER	1.41	1.01	+0.40	140	0.83	4	7	5	2 0 0	92	103

TABLE II - PRECIPITATION IN INCHES : MAY 1940. (CONTD.)
TABLE II - NEERSLAG IN DUIME : MEI 1940. (VERVOLG)

STATION STASIE	MEI MAY 1940	NORM.	DIFF. VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO.OF DAYS:AANTAL DAE 0.01" or more	0.04" of meer	TH. H. S.	CUMULATIVE RAINFALL FROM 1.1. 1940 % OF NORMAL	VANAF 1.7.1939 % VAN NORM.
NATAL:											
DUNDEE	5.35	0.72	+4.63	543	3.85	5	4	3	0 0 0	97	116
DURBAN POINT	8.74	2.64	+6.10	331	6.97	5	3	3	0 0 0	80	108
EMPANGENI	8.72	2.70	+6.02	323	5.07	5	4	4	0 0 0	134	127
ESHOWE	23.49	1.94	+21.55	1210	23.24	4	4	4	0 0 0	153	130
ESTCOURT	3.83	0.59	+3.24	650	2.05	5	3	3	0 0 0	104	105
LADYSMITH	2.84	0.63	+2.21	451	1.72	5	3	3	0 0 0	69	100
MELMOTH	8.82	1.06	+7.76	832	5.93	6	5	4	0 0 0	110	122
OTOBOTINI	2.59	0.57	+2.02	455	2.42	5	2	2	1 0 0	134	137
PIETERMARITZBURG	5.17	1.04	+4.13	497	2.73	5	3	2	0 0 0	91	106
STANGER	10.33	1.88	+8.45	505	7.24	5	5	4	1 0 0	124	119
PORT SHEPSTONE	8.53	2.43	+6.10	351	6.55	4	6	5	1 0 0	80	98
UBOMBO	2.48	1.22	+1.26	203	1.44	3	2	2	0 0 0	108	104
VRYHEID	4.18	0.66	+3.52	634	2.98	5	3	3	1 0 1	100	117
WEENEN	3.41	0.55	+2.86	620	2.32	4	2	2	0 0 0	101	110
BECHUANALAND : BETSJOEANALAND:											
MAHALAPYE	0.06	0.42	-0.36	14	0.06	5	1	1	0 0 0	87	103
DIKGATIONG	0.11	0.57	-0.46	19	0.11	4	1	1	0 0 0	96	116
GABERONES	0.61	0.48	+0.13	127	0.35	3	3	3	0 0 0	83	91
BASUTOLAND : BASOETOLAND:											
BUTHA BUTHE	1.49	0.92	+0.57	162	1.00	4	3	3	0 0 1	91	99
MAFETENG	1.97	1.34	+0.63	147	1.18	5	5	5	0 0 0	79	96
MOHALESHOEK	2.14	1.46	+0.68	147	1.00	4	6	6	0 0 0	95	104
MOKHOTLONG	3.19	0.94	+2.25	339	1.33	6	5	5	0 0 0	-	-
QACHASNEK	3.81	0.92	+2.89	414	2.32	5	3	3	0 0 2	96	107
SWAZILAND : SWASIELAND:											
MBABANE	1.71	1.32	+0.39	130	1.30	4	4	4	0 0 0	87	115
STEGI	2.88	1.05	+1.83	274	2.58	4	2	2	0 0 0	144	-



KAART I CHART I

Mei 1940 : Gemiddelde Lugdruk om 8·30 v.m by seespieël. Die gebroke lyne dui die afwyking van die gemiddelde druk vir Mei aan.

May 1940: Mean Atmospheric Pressure at 8.30 a.m. at M.S.L. The broken lines indicate the departure from the mean pressure for May.

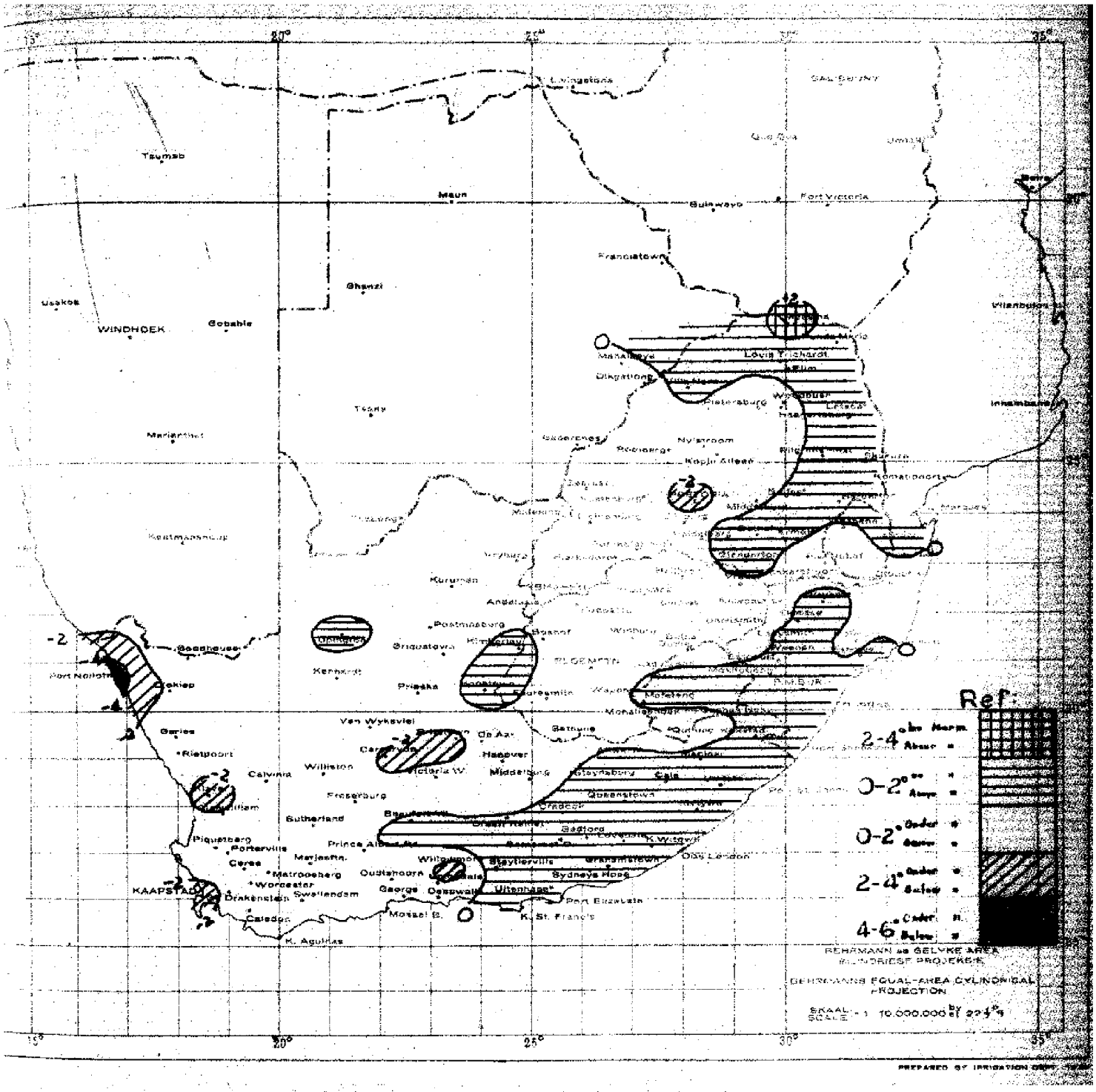


CHART II KAART II

May 1940: Mean Temperature - departure from the Normal in °F.

Mei 1940: Gemiddelde Temperatuur - afwyking van die Normaal in °F.

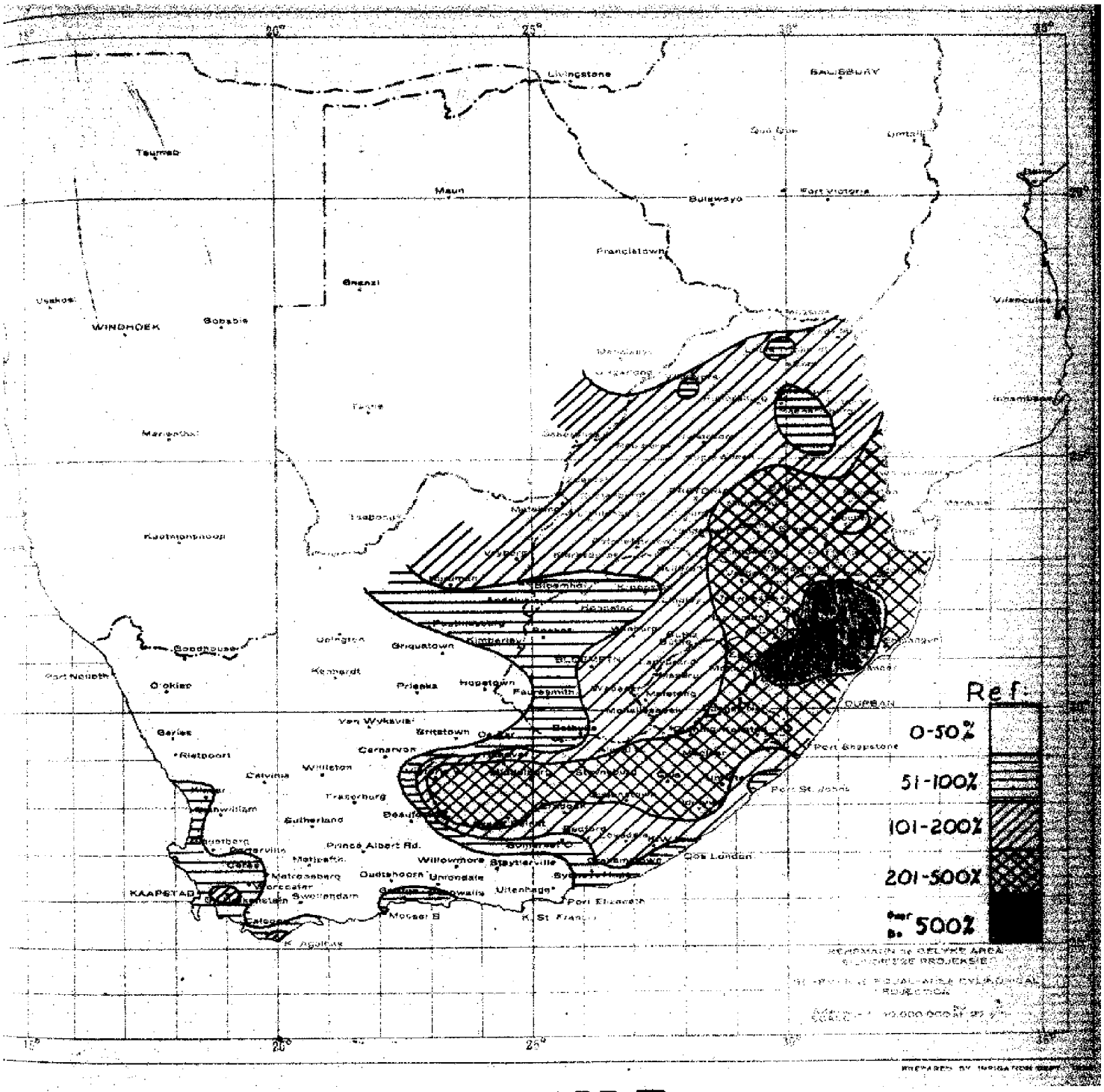


CHART III KAART III

May 1940: Precipitation shown as a percentage of the Normal.

Mei 1940: Neerslag aangegee as 'n persentasie van die Normaal.

CHART IV KAART IV

Seasonal Precipitation: 1st July 1939 to 31st May 1940, shown as a percentage of the normal.

Seisoen Neerslag: 1e Julie 1939 tot 31e Mei 1940, aangegee as 'n persentasie van die normaal.

U N I O N O F S O U T H A F R I C A

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE.

Vol. XXI JUNE 1940 No. 6

OUTSTANDING FEATURES:

On the whole relatively mild, with, however, sharp frost in the middle of the month; exceptional winter rains over the three northern provinces. Some snow on Cape mountain ranges and in Basutoland, and some isolated thunder and hailstorms.

ATMOSPHERIC PRESSURE:

The distribution of mean pressure is shown on Chart I, and shows the typical winter anticyclone over the whole Union, with the highest pressure over the eastern Free State. There agreement with the 10 yearly average pressure is very close for this month.

TEMPERATURE:

The departure of mean monthly temperature from the normal for this month is shown on Chart II. The mean temperature was above normal over practically the whole Union, though negative departures occurred in the eastern Transvaal and at a few isolated stations in the Cape Province. Over the southeastern interior (Kaffraria, Basutoland and eastern Free State) and around Upington and Kenhardt, the positive departures exceeded 2°F.

The mean temperature for the Union as a whole was 53.4°F, or 1.1° above normal. Considering the provinces separately, it is found that the mean temperatures for the Cape, Transvaal, Free State and Natal were above normal by 1.1°, 0.7°, 2.2° and 0.8° respectively.

Mean maximum, or day-temperatures, were below normal mainly over the Transvaal and Natal, and above over the rest of the Union. Minima, or night temperatures, on the other hand, were considerably above normal over almost the whole Union. Positive departures from 3 to 4°F were common over the interior. For the Union as a whole the mean maximum was 66.7°F, or 0.4° above normal, and the mean minimum 40.1°, or 1.9° above normal.

The warmest days of the month occurred between the 9th and the 14th, and on the 29th and 30th. The following were the highest individual maxima registered in each province:- 90° at Port Nolloth (C.P.) on the 4th; 89.5° at Messina (Tvl.) on the 12th; 89° at Durban (N) on the 9th, and 76° at Kroonstad (O.F.S.) on the 11th.

The coldest nights occurred from the 16th to 19th, and the following were the lowest individual minima registered in each province:- 19° at Sutherland (C.P.) on the 18th; 20° at Belfast (Tvl). on the 16th; 26° at Ladysmith (N) on the 17th, and 16.2° at Bloemfontein (O.F.S.) on the 16th.

FROST: Sharp frost occurred over the whole interior of the Union from about the 16th to the 20th, and during the remainder of the month only slight frost was reported.

PRECIPITATION: The distribution of precipitation, expressed as a percentage of the normal, is roughly shown on Chart III. Precipitation was above normal over a small portion of the southwestern Cape Province and over the Transvaal, Natal and northern Free State. In the latter three provinces, belonging to the summer rainfall zone, abnormal rains occurred; when interpreting the extremely high percentage values in Table II and on Chart III, it must be borne in mind that the average June rainfall is very small. Actually the rainfall over these areas amounted roughly from 1 to 3 inches (See Table II).

Over the eastern and centre Cape, the southern Free State and Bechuanaland, very little precipitation took place.

Combining the rainfall data in Table II for each province or subdivision of a province, it is found that the Transvaal, Free State and Natal showed surplusses amounting respectively to 980%, 46% and 334% of their average rainfall, whilst the Cape Province showed a deficit of 30%. Of the different rainfall zones in the Cape Province, the winter rainfall zone, the "all seasons" rainfall zone and the summer rainfall zone showed deficits amounting respectively to 2%, 39% and 79% of their average amounts for June. For the Union taken as a whole there was a surplus of 92%.

The summer rainfall area experienced isolated convectional showers and thunderstorms from the 11th to 15th; the 16th was clear, but on the 17th unsettled weather set in again mainly over the Transvaal, Natal and northern Free State, resulting in exceptionally heavy rains for June; this weather continued for 3 days, clearing on the 20th, after which fine weather prevailed. Over the winter rainfall zone and the southern Cape, unsettled conditions with showers prevailed from the 9th to the 15th, whilst for the rest of the month fine weather obtained over these areas.

SNOW: Snow fell on the 11th on the mountains in the southwestern Cape; a further snowfall occurred on the 14th and 15th over the main mountains ranges of the Cape Province, on the Drakensberg and in Basutoland.

HAIL: A few hailstorms were recorded viz:- At Hoopstad (O.F.S.) on the 11th; at Wepener (O.F.S.) on the 14th; at Port Elizabeth on the 16th; at Heidelberg (Tvl.) on the 19th, and at Rabonie Ranch (northern Free State) on the 11th.

THE CUMULATIVE PRECIPITATION SINCE 1st JANUARY 1940:

Considering the provinces as units, the Cape Province and Natal showed surplusses amounting respectively to 10% and 20% of their average rainfall, whilst the Free State and Transvaal showed deficits of 7% and 2% respectively. The summer-, "all seasons-, and winter rainfall zones of the Cape Province showed surplusses of 6%, 12% and 22% respectively. For the Union as a whole there was a surplus of 5%.

THE SEASONAL PRECIPITATION SINCE 1st JULY 1939:

The Seasonal precipitation since 1st July 1939, expressed as a percentage of the normal, is roughly shown on Chart IV. On the whole, precipitation was above normal. The Cape Province, Free State, Natal and Transvaal considered as units, showed surplusses of 12%, 6%, 23% and 17% respectively. Of the three climatic zones of the Cape Province, the winter rainfall zone showed a surplus of 7%, the summer rainfall zone a surplus of 8% and the "all seasons" rainfall zone (S. Cape) a surplus of 19%. For the Union as a whole there was a surplus of 15%.

D I E U N I E V A N S U I D - A F R I K A

DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR.

Deel XXI JUNIE 1940. No. 6

HOOFKENMERKE:

Oor die algemeen betreklik mild, met skerp ryp egter gedurende die middel van die maand; buitengewone winter-reëns oor die drie noordelike provinsies. Ietwat sneeu op die Kaapse bergreekse en in Basoetoland, en 'n paar geïsoleerde donder en haelstorms.

LUGDRUK:

Die gemiddelde lugdrukdistribusie vir die maand word op Kaart I aangedui, en weerspieël die tipiese winter-antisiklone oor die hele Unie, met die hoogste lugdruk oor die oostelike Vrystaat. Die gemiddelde druk het 'n sterk ooreenkoms getoon met die 10 jaarlikse gemiddelde druk vir Junie

TEMPERATUUR:

Die afwykings van die gemiddelde maandelikse temperature vanaf die normaal vir hierdie maand word op Kaart II aangedui. Die gemiddelde temperature was bo normaal oor bykans die hele Unie, hoewel negatiewe afwykings in die oostelike Transvaal en by 'n paar afgesonderde plekke in die Kaapprovinsie voorgekom het. Oor die suidoostelike binneland (Kaffraria, Basoetoland en die oostelike Vrystaat) en in die omtrek van Upington en Kenhardt het die positiewe afwykings 2°F oorskry

Die gemiddelde temperatuur vir die Unie as geheel was 53.4°F, of 1.1° bo normaal. Word die provinsies afsonderlik beskou, dan vind ons dat die gemiddelde temperature vir die Kaap, Transvaal, Vrystaat en Natal onderskeidelik 1.1°, 0.7°, 2.2° en 0.8° bo normaal was.

Gemiddelde maksimum-, of dag-temperature was onder normaal, hoofsaaklik oor die Transvaal en Natal, maar bo normaal oor die res van die Unie. Minima-, of nag-temperature daarteenoor, was bo normaal oor byna die hele Unie. Positiewe afwykings van 3° tot 4°F was 'n algemene verskynsel oor die binneland.

Vir die Unie as geheel was die gemiddelde maksimum 66.7°F, of 0.4° bo normaal en die gemiddelde minimum 40.1° of 1.9° bo normaal.

Die warmste dae van die maand het tussen die 9de en 14de, en op die 29ste en 30ste voorgekom. Hieronder word die hoogste temperature wat in elkeen van die provinsies aangeteken is, weergegee: 90° te Port Nolloth (KP)) op die 4de; 89.5° te Messina (Tvl) op die 12de, 89° te Durban (N) op die 9de, en 76° te Kroonstad (O.V.S.) op die 11de.

Die koudste nagte het vanaf die 16de tot 19de voorgekom, en hier volg nou die laagste individuele minima wat in elke provinsie aangeteken is: 19° te Sutherland (KP.) op die 18de, 20° te Belfast (Tvl.) op die 16de; 26° te Ladysmith (N) op die 17de, en 16.2° te Bloemfontein (O.V.S.) op die 16de.

RYP: Skerp ryp het vanaf die 16de tot 20ste oor die hele binneland van die Unie voorgekom, maar gedurende die res van die maand was maar ligte ryp gerapporteer.

NEERSLAG: Die distribusie van die neerslag, uitgedruk as 'n persentasie van die normaal, word naasteby aangedui op Kaart III. Die neerslag was bo normaal oor 'n gedeelte van die suidwestelike Kaapprovinsie en oor die Transvaal, Natal en die noordelike Vrystaat. In laasgenoemde drie provinsies, wat aan die somerreënstreek behoort, het abnormale reëns geval; wanneer ons die hoë persentasies in Tabel II en op Kaart III vertolk,moet nie vergeet word nie dat die normale reënval vir Junie baie gering is. In werklikheid het die neerslag oor hierdie provinsies min of meer 1 tot 3 duim bedra (sien Tabel II). Oor die oostelike en sentrale Kaapprovinsie, die suidelike Vrystaat en Betsjoeanaland het daar baie min neerslag plaasgevind.

Word die reënval-gegewens in Tabel II vir elke provinsie of onderafdeling, afsonderlik saamgevat dan vind ons dat die Transvaal, Vrystaat en Natal surplusse aangetoon het wat onderskeidelik 980%,46% en 334% van hulle normale reënval beteken terwyl die Kaapprovinsie 'n tekort van 30% gehad het. Die verskillende reënstreke van die Kaapprovinsie, nl. die winterreënstreek,die streek met reën in alle seisoene, en die somerreenstreek het tekorte van onderskeidelik 2%, 39% en 79% van hulle Junie-neerslag gehad. Vir die Unie as geheel was daar 'n surplus van 92%.

Die somerreënstreek het afgesonderde konweksie-buie en donderstorms ondervind vanaf die 11de tot 15de; op die 16de was dit mooi weer,maar op die 17de het ongestadige weer oor die Transvaal, Natal en noordelike Vrystaat ontwikkel, wat aanleiding gegee het tot besondere swaar reëns vir Junie maand; hierdie weer het vir 3 dae lank aangehou en het opgeklaar op die 20ste, waarna mooi weer geheers het. Oor die winterreënstreek en die suidelike Kaap het ongestadige weer met buie geheers vanaf die 9de tot 15de; vir die res van die maand het mooi weer geheers oor hierdie streke.

SNEEU: Sneeu het op die 11de op die berge in die suidwestelike Kaap geval; 'n verdere sneeuval het voorgekom op die 14de en 15de oor die groter bergreekse van die Kaapprovinsie, op die Drakensberge en in Basoetoland.

HAEL: 'n Paar haelstorms was aangeteken nl: te Hoopstad (O.V.S.) op die 11de; te Wepener (O.V.S.) op die 14de; te Port Elizabeth op die 16de; te Heidelberg (Tvl.) op die 19de, en te Rabonie Ranch (noordelike O.V.S.) op die 11de.

DIE VERSAMELDE NEERSLAG VANAF 1 JANUARIE 1940: Afsonderlik beskou het die Kaapprovinsie en Natal surplusse getoon wat onderskeidelik 10% en 20% van hulle normale neerslag vir hierdie tydperk beteken het, terwyl die Vrystaat en Transvaal tekorte van onderskeidelik 7% en 2% gehad het. Die somerreënstreek, die streek met reën in alle seisoene, en die winterreënstreek van die Kaapprovinsie het surplusse van respektiewelik 6%,12% en 22% aangedui. Vir die Unie as geheel was daar 'n surplus van 5%.

DIE SEISOEN NEERSLAG VANAF 1 JULIE 1939, uitgedruk as 'n persentasie van die normaal, word naasteby aangetoon op Kaart IV. Die Kaapprovinsie, die Vrystaat,Natal en die Transvaal,as eenhede beskou, het surplusse van onderskeidelik 12%, 6%, 23% en 17% gehad. Van die drie reënstreke van die Kaapprovinsie het die winterstreek 'n surplus van 7%, die somerstreek 'n surplus van 2%, en die streek met reën in alle seisoene (suidelike Kaap) 'n surplus van 19% gehad. Vir die Unie as geheel was daar 'n surplus van 15%.

OBSERVERS' NOTES FOR JUNE 1940.
AANTEKENINGE VAN WAARNEMERS VIR JUNIE 1940.

KRUGERSDORP(CORONATION PARK): June has been a very erratic month,and the wettest June since 1929. The mean average temperature was 48.5 degrees against an average of 48.5 degrees for the past 30 years. 1.35" of rain were recorded on 4 days against an average of 0.21" for the past 37 years. Walter W. Webster.

KROONSTAD SOMERGEWASSTASIE: Die temperature vir maand was oor die algemeen normaal. Min wind het gewaai en 0.46" is aangeteken op 4 dae. S.J.L. van Wyk.

KOMATIPOORT: During the period from the 18th to the 20th fairly heavy rains fell. On the whole it was very cold at night, the lowest temperature registered being 37°F. Winds mostly northerly to easterly and not too strong. 2.37" of rain fell on 3 days. H.W. Stevens.

POTCHEFSTROOM: This month commenced with unseasonable unsettled and inconsistent weather conditions, which lasted for nearly three weeks. During the last eight days,however weather conditions settled down to calm, cloudless and fairly warm days, but cold nights. The outstanding features being severe frost, very cold nights and low temperatures. 0.54" of rain fell on 3 days. B.D. Saayman.

WEPENER: A dry cold month, with only 0.15" of rain on 4 days. A slight snowfall was recorded on the 18th. Good rains are needed for the wheat crop. W.T.E. Kemm. F.R. Met. Soc.

SANDFLATS (MOUNT CURRIE): With the exception of the cold overcast weather during the period 18th to 19th, when rather heavy frosts occurred, the weather has been mild for this time of the year, and even like summer during the last week. Frosts, except as above, have been mainly light. Winds light to moderate, prevailing from west. Usually some clouds during the daytime and visibility mostly very clear. 0.31" of rain fell on 2 days. H.B. Corderoy.

ESTCOURT: Bright sunny days with very cold nights. Good rains fell on the 18th and 19th. The total rainfall for the month was 2.39" on 2 days. W. Lambrechts.

UPINGTON: Afwisselend koud en warm. Min ryp is waargeneem gedurende die maand. Oor dié algemeen was dit baie gematigde weer. 0.17" reën is aangeteken op 1 dag. S. Malan.

PORT SHEPSTONE: The weather during this month has been fine and bright,with a considerable amount of haze daily. 0.87" of rain were recorded on 5 days. H. Mantle.

BALFOUR(CAPE): Very strong wind and squalls; most unusual weather for June, which, as a rule is the calmest month of the whole year. The winds have dried up lands and veld, in spite of the good rains of last month. 0.01" fell on 1 day. E.W. Hulse.

WILLOWMORE: 'n Aantal koue dae gedurende die maand. Taamlik droog, distrik verlang na reën. Die dae was taamlik winderig. 0.56" is aangeteken op 2 dae. J.J.L.Strydom.

LOSKOP IRRIGATION WORKS: The climate was moderate except for a couple of cold days.The temperature varied between 31.4°F and 37.4°F. Rain fell on 4 days totalling 2.69".
The Resident Engineer.

FAURESMITH VELD RESERWE: Met 'n paar uitsonderinge was die weer taamlik egalig. In die middel van die maand het 'n paar uitstaande koue dae voorgekom met swaar ryp. Die dae was egter oor die algemeen warm met min wind. Die aande was meestal stil en wolkloos. 0.12" reën is aangeteken op 2 dae. A.J. v.d. Walt.

ARMOEDSVLAKTE(VRYBURG): Die maand was skerp koud alhoewel die eerste paar dae nogal matig was. Weiveld is droog maar nog nie swak nie. Die maksimum temperatuur was 76.2°F. Die dae was egter matig tot warm. 0.04" reën is aangeteken op 2 dae.
Die Verantwoordelike Amptenaar.

QUEENSTOWN: Winds usually abated somewhat in the afternoon. Prevailing direction from NW. Wind reached gale force during the last three days of the month. Visibility was excellent throughout the month. Rain fell on 2 days, totalling 0.05". Sister M. Joseph.

MODDERPOORT: Apart from a little unsettled weather between the 10th and the 12th, and again from the 17th to the 20th the month was fine and dry. There was a sharp frost on the 16th, that killed many of the plants which had so far survived the comparitively mild winter. A "halo" was observed around the sun on the 17th in the morning. 0.37" of rain fell on 3 days. John W. Endells.

ALASKA(LOUIS TRICHARDT): Frost occurred at the lower lands where there is moisture. On the 29th it was observed all over the grazing lands. Seldom if ever was there any near the homestead, which is well protected by trees. 3.50" were recorded on 6 days. I.G. Rudd.

HARTEBEESPOORT PROEFSTASIE: Die eerste helfte van die maand was betreklik warm en na die hoe reënval in die middel van die maand was die nag temperature besonder laag. Hierdie maand het in buitengewone hoe reënval gehad, en strawwe ryp is daarna waargeneem. 2.60" is aangeteken op 3 dae. Die Verantwoordelike Amptenaar.

PADDOCK: Settled weather prevailed during the month. A short cold spell for a few days from the 14th. 0.76" of rain were recorded on 6 days. I.F. Harrison.

ISMONT MID ILLOVO: Mild month with a cold snap on 16th and 17th. Veld and cattle in fair condition. Rainfall above average. 2.10" were recorded on 7 days.
Lt. Col. J.W.V. Montgomery. C.M.G. D.S.O.

LOVEDALE: Temperatures close to normal but mean minimum was a degree or so above normal. Rainfall extremely low, almost negligible and only 10% of normal for June. It is over 7 weeks since a useful fall of rain was recorded. 0.09" fell on 4 days. Charles A. Pilson.

DRAKENSBERG GARDEN HOTEL: Steady rise of temperature since snowfall in the middle of the month. Winds variable. Mainly cloudless sunny days. Rainfall slight. 0.15" fell on 1 day. The Manager

VANWYKSVLEI: Weather on the whole mild with the exception of a few days from the 12th to the 17th, of which the 15th was the coldest night and the 16th the coldest day. 0.03" of rain were recorded on 2 days. E.S.L. Dawson.

PRETORIA FARM(PIETERSBURG): An unusual amount of rain for this month. Temperatures slightly higher than usual in spite of the rain. 2.14" were recorded on 3 days. R. Bendall.

POFADDER: Uitstaande kenmerke van die maand was die skielike verandering van die lug - dan uiters koud en skielik weer aangename warm winter dae. 0.06" reën is aangeteken op 1 dag. M.N. Steenkamp.

HERMITAGE: The month was warm and dry. Clear chilly nights with several heavy dews and one severe frost on the 18th. No rain fell during the month. E.D. Dixie.

HLATIKULU(SWAZILAND): We have experienced a few very cold days during the month. Frost being very severe. 3.98" of rain fell on 7 days. The Assistant Commissioner.

ATHOLE PROEFSTASIE: Die dae was oor die algemeen baie winderig met min wolke en baie sonskyn. 3.16" is aangeteken op 5 dae. A.H. du Plessis.

MOUNT EDGECOMBE(NATAL): The temperatures for the month were rather above normal, and the year continues to be the warmest on record here. The absolute maximum of 90.0°F is the highest ever recorded for June at the experiment station. The month has been very calm, there being only three days on which a wind more than a breeze has been recorded. 3.51" of rain were recorded on 7 days, which is well above the average for June. The Director. Sugar Experiment Station.

QUTHING: The general weather during the month was variable, and the 15th was the coldest day on records. 0.27" fell on 3 days. The Met. Observer.

SLENT(STELLENBOSCH): The beginning of the month was dry but the 2nd week was very wet with steady downpours. This was followed by another dry period till the last day of the month, when a little rain fell in the night. Snow was observed on the mountains in the E and SE from the 16th to 19th June. 4.73" fell on 6 days. [illegible]

CARNARVON: Hoewel die nagte koud was, was die dae oor die algemeen warm vir Junie-maand. 0.05" is aangeteken op 3 dae. Jac. P. van Wyk.

JOUBERTINA: Fairly heavy frost from 21st to 24th. The days were clear with little wind, except in afternoons, mainly from the SW. The Horticulturist

BENONI: With the exception of a couple of cold days which accompanied heavy falls of rain, we experienced quite a moderate month. Sleet, rain and very frequent frosts were also features of the month. 2.10" were recorded on 7 days. The Medical Officer of Health.

MOSSEL BAY: Barometer unusually high between 2nd and 5th of the month. Winds having a tendency to blow from the west. Considerable amount of high clouds towards end of month including Cirro Cumulus. Gale during night on 15th. 0.67" fell on 5 days. The Meteorological Assistant,

PAULPIETERSBURG: Very changeable weather during the month. Some warm summerlike days before the middle of the month, then a little rain followed by hoar frosts. Heavy downpours occurred in the middle of the month, followed by no more frost but getting warm towards the end of the month. 2.19" were recorded on 6 days, which is much above average. N. Lipscomb.

LINDLEY: Generally dry and cold during the month. 0.30" fell on 4 days. S.F. Gouws.

KOPJE ALLEEN: The rainfall recorded here during the month is 2.73" on 6 days, of which 2.20" fell on the 17th, is the heaviest rainfall in June for the last 28 years. Day-temperatures were slightly below and night temperatures slightly above normal. On the 17th the minimum thermometer registered 24.0°F, the lowest temperature recorded here in June. J. Lyall Soutter. F.R. Met.Soc.

BEAUFORT WES: 'n Droë maand, met baie koue nagte en dae, ook meestal onplesierig matig tot sterk winde van noord tot wes. 0.04" is aangeteken op 1 dag. H.G. Grobler.

LADYBRAND: Oor die algemeen was die nagte koud en skerp ryp het voorgekom gedurende die periode vanaf 15de tot die 17de. Selfs staande waters was geys. 0.29" reën is aangeteken op 2 dae. Die Goewerments Bosbouer.

SEKUKUNILAND: Days mild with cold nights. From the 14th to the 19th was very unpleasant; wind cold and wet. 1.72" of rain fell on 4 days. Q.J. van Rensburg.

MIDDELBURG (TVL.) Cold nights with sharp frost. Rain was very welcome, although somewhat out of season. 4.24" fell on 5 days. V.P. Rose.

GROOT DRIEFONTEIN: Curious weather, and much warmer than usual. The mulberry trees still have all there leaves. There has been more wind than usual. June here usually being a month of still days and cold frosty nights. No rain fell during the month.
(Mrs.) K.N. Watermeyer.

BADPLAATS(CAROLINA): Junie maand was oor die algemeen aangenaam. Die reën was welkom en deurdringend. Ontydige ryp het baie skade aan groente aangerig. 2.71" is aangeteken op 3 dae. I.M. van Rooyen.

EMERALD DALE(IXOPO): An unusual amount of rain for this time of the year fell on the 18th and 19th June. Although a cold rain the weather since then has been mild on the whole. 1.76" were recorded on 5 days. Max Anderson.

KATIMA MULILO(CAPRIVI ZIPFEL): Cold eastern winds of velocity approximately 15 m.p.h. almost invariably came up at about 0930, continuing until sunset. Nights calm. Occasional heavy mists at night and early morning. 0.07" fell on 1 day. The Magistrate.

RIETPOORT(PIETERSBURG): On the whole the weather was mild; more rain fell than in June last year. 0.91" fell on 4 days. B.D.H. Hudson.

KIMBERLEY: Mainly genial anticyclonic weather with light NNE airs. Humidity and cloud well above normal. Pressure fairly high and steady. Night sky mostly clear. 0.18" of rain fell on 2 days. J.C. Gwayda. Met. Assistant

KLIPRIVIER(WATERBERG): Groot skades aan koring in omgewing deur koue. 'n Aantal skape dood van koue. Donderweer verskillende plekke neergeslaan. Reënval 3.17" op 3 dae.
H.L. van Schalkwyk.

UITKYK 1317(KROONSTAD): Die reënval was sag sonder stortbuie, maar gepaard met strawwe koue. Dit het ook straf geryp gedurende die maand. Reënval 0.50" op 2 dae. B. Marais

QUAGGAFONTEIN(ZASTRON): Byna niks gereën dié maand. Reënval 0.09" op 2 dae. J. van Rooyen

WINTERSDAM(BRANDFORT): Koue nagte en stil warm dae. Oeste baie swak. Reënval nul.
P.C. le Roux

RUSTENBURG 517(WATERBERG): Die Krokodil en Pongola het nou baie sterk lopende water. Reënval 1.83" op 4 dae. P.J. Meyer.

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TABLE I : TEMPERATURE AND CLOUDINESS : JUNE 1940.
TABEL I : TEMPERATUUR EN BEWOLKTHEID : JUNIE 1940.

Results of observations at 0830 S.A. Standard Time.
Resultate van waarnemings om 0830 S.A. Standaard Tyd.

STATION STASIE	AIR TEMPS. IN °F : LUG TEMPERATURE IN °F									NO.DAYS: AANTAL DAE						CLOUDINESS: BEWOLKTHEID				
	Mean Gem. Max.	Mean Gem. Min.	Mean Gem.	Diff. Vers. Norm.	Abs. Max.	Dat.	Abs. Min	Dat.		Min. Below Min. Onder 37	32	27	Max. Ab. Max. Bo 90	95	100	Mean Gem.	No.dys: aant.da 0-1	2-5	6-9	10
CAPE PROVINCE: KAAPPROVINSIE:																				
ALIWAL NOORD	62.9	33.5	48.2	+1.9	72.0	11	24.0	16		22	17	5	0	0	0	2	22	6	2	0
BEAUFORT WES	66.9	41.3	54.1	-0.2	77.0	9	24.2	18		12	9	2	0	0	0	3	19	4	6	1
BRITSTOWN	69.7	35.1	52.4	+1.9	74.0	10	24.0	18		21	7	3	0	0	0	1	25	4	0	1
CAPE AGULHAS	64.0	52.4	58.2	+1.5	81.0	6	46.0	12		0	0	0	0	0	0	3	10	11	4	4
CALA	64.6	41.7	53.1	+2.2	75.0	11	27.0	18		11	3	1	0	0	0	2	19	8	3	1
CARNARVON	61.8	35.2	48.5	+1.1	70.3	9	24.5	16		21	11	1	0	0	0	2	18	2	9	0
CERES	63.3	37.3	50.3	+0.6	76.4	6	28.0	18		18	13	0	0	0	0	4	11	9	9	1
COLESBERG	66.6	36.7	51.7	+1.7	78.0	23	24.0	18		19	9	1	0	0	0	3	13	12	5	0
CRADOCK	71.4	42.3	56.8	+0.4	85.0	6	32.0	19		11	1	0	0	0	0	3	13	6	6	2
DEPOTFALLS	64.1	49.2	56.6	+1.7	76.7	5	39.3	15		0	0	0	0	0	0	2	20	5	3	2
EAST LONDON	70.8	50.9	60.8	+0.5	85.4	11	41.0	18		0	0	0	0	0	0	2	14	8	7	1
GOODHOUSE	75.6	44.7	60.1	+0.9	85.0	7	38.0	19		0	0	0	0	0	0	1	23	5	2	0
GRAAFF REINET	67.8	46.7	57.2	+0.7	79.5	11	34.5	16		4	0	0	0	0	0	3	18	3	7	2
GRAHAMSTOWN	68.4	42.6	55.5	+2.6	82.3	11	28.7	18		9	1	0	0	0	0	2	17	7	5	1
G.DRAKENSTEIN	66.5	44.0	55.2	+0.8	83.6	4	35.0	19		3	2	0	0	0	0	4	13	6	6	5
GROOTFONTEIN	60.8	33.6	47.2	+1.3	71.0	11	24.1	17		20	14	8	0	0	0	3	15	6	9	0
HUTTA	67.4	46.0	56.7	+2.0	80.0	11	34.0	18		2	0	0	0	0	0	2	18	6	4	1
KENHARDT	69.9	40.2	55.0	+2.4	80.0	3	29.0	16		14	3	0	0	0	0	3	24	0	2	4
KIMBERLEY AERO	65.9	38.6	52.2	+0.8	77.8	11	26.3	19		13	5	1	0	0	0	3	20	3	3	4
KING'WILLIAMSTOWN	72.3	42.9	57.6	+1.4	87.0	11	32.0	18		3	1	0	0	0	0	2	19	6	3	2
KLAVER	71.7	49.3	60.5	+1.1	85.1	6	38.6	19		0	0	0	0	0	0	4	13	6	6	5
KOKSTAD	63.8	36.8	50.3	+2.2	78.2	30	24.0	17		16	6	1	0	0	0	4	15	3	6	6
KURUMAN	64.5	31.8	48.1	+0.2	74.0	5	21.0	16		18	9	2	0	0	0	3	14	6	4	1
MATROOSBERG	59.8	39.4	49.6	+0.2	69.4	5	29.4	18		12	3	0	0	0	0	4	14	4	11	1
MAFEKING	66.6	37.7	52.1	+0.2	75.4	11	26.0	17		14	4	1	0	0	0	2	15	11	4	0
MOSSELBAAI	66.9	50.5	58.7	-0.7	81.1	6	44.5	17		0	0	0	0	0	0	7	15	7	7	1
O'KIEP	65.3	45.6	55.5	+1.0	76.2	3	33.2	19		2	0	0	0	0	0	2	19	5	5	1
OUDTSHOORN	69.4	37.8	53.6	+1.2	80.0	6	30.0	19		16	6	0	0	0	0	1	22	5	2	0
PORT ELIZABETH	69.6	45.2	57.4	-1.6	83.1	6	33.2	5		2	0	0	0	0	0	2	19	3	7	1
PORT NOLLOTH	66.7	47.0	56.9	+1.2	90.0	4	39.0	19		0	0	0	0	0	0	1	24	2	1	3
PORT ST. JOHNS	72.3	58.2	65.2	+0.9	86.0	9	51.0	17		0	0	0	0	0	0	4	4	17	6	3
POTCHEFSTROOM	64.6	42.5	53.6	+2.6	73.9	1	26.1	16		6	3	1	0	0	0	2	20	4	6	0
PRIESKA	68.2	34.7	51.5	±0.0	77.2	10	23.7	18		23	9	2	0	0	0	3	20	1	8	1
QUEENSTOWN	65.9	40.1	53.0	+2.7	77.0	11	24.0	18		15	2	2	0	0	0	3	14	7	4	5
RICHTERSVELD	71.9	46.1	59.0	+0.7	87.2	4	37.0	18		1	0	0	0	0	0	3	24	2	1	3
ROBERTSON	69.0	44.0	56.5	+1.9	80.8	11	29.8	18		6	2	0	0	0	0	3	17	7	5	1
SUTHERLAND	57.4	28.1	42.7	-0.1	68.0	5	19.0	18		28	24	14	0	0	0	3	16	7	7	0
UITENHAGE	74.2	44.4	59.3	+2.3	84.9	10	34.8	12		2	0	0	0	0	0	1	20	3	3	0
UMTATA	71.1	37.7	54.4	+0.8	85.0	11	28.0	18		14	2	0	0	0	0	3	13	6	4	2
WINBURG	70.8	43.8	57.3	+2.8	80.6	9	32.0	16		4	1	0	0	0	0	2	20	5	4	1
VAN WYKSVLEI	67.0	36.3	51.6	+1.9	76.4	9	20.6	16		19	7	1	0	0	0	3	18	5	7	0
VICTORIA WES	61.3	32.1	46.7	+0.8	71.0	9	23.0	16		25	20	5	0	0	0	3	17	8	6	0
WELLINGTON	67.7	34.1	50.9	+0.2	78.2	11	22.6	17		21	14	4	0	0	0	3	21	2	3	4
WILLOWMORE	64.3	34.0	49.2	+0.9	74.0	10	23.0	19		18	15	5	0	0	0	3	14	5	7	0
WINBURG	65.4	45.5	55.5	±0.0	84.1	5	31.7	20		3	1	0	0	0	0	5	11	6	7	3
[illegible] : O.V.S.																				
BETHLIE	62.9	35.0	49.0	+2.1	72.0	11	24.0	16		21	10	2	0	0	0	3	16	7	5	3
BLOEMFONTEIN	61.8	32.9	47.4	+1.0	72.3	11	16.2	16		22	7	3	0	0	0	3	17	5	4	4
BRANDFORT	62.0	32.5	47.3	+2.4	72.7	11	21.8	16		22	16	5	0	0	0	2	20	4	5	1
BRANDSMITH	62.4	30.1	46.2	+2.0	74.0	30	22.0	17		28	24	9	0	0	0	2	17	7	6	0
BOSHOFSTAD	65.4	32.3	48.8	+2.2	76.0	11	21.0	16		24	19	7	0	0	0	3	16	5	4	4
[illegible]	63.4	36.7	50.0	+4.1	70.0	11	26.0	17		13	5	1	0	0	0	3	23	0	1	6
[illegible]	62.7	31.2	46.9	+1.3	72.0	14	20.0	17		24	20	6	0	0	0	3	20	7	3	0
[illegible]	62.3	33.0	47.6	+2.9	72.0	11	19.2	16		22	17	10	0	0	0	3	19	4	4	3

TABLE I - TEMPERATURE AND CLOUDINESS - JUNE 1940.
TABEL I - TEMPERATUUR EN BEWOLKTHEID - JUNIE 1940.

Results of observations at 0830 S. A. Standard Time.
Resultate van waarnemings om 0830 S.A. Standaard Tyd.

STATION STASIE	AIR TEMPS. IN °F: LUG TEMPERATURE IN °F. Mean Gem. Max.	Mean Gem. Min.	Mean Gem.	Diff Vers Norm	Abs. Max.	Dat.	Abs. Min.	Dat.	NO. DAYS: AANTAL DAE Min. Below Min. Onder 37	32	27	Max. Ab. Max. Bo 90	95	100	CLOUDINESS: BEWOLKTD. Gem. Mean	No. days: Aant. dae 0-1	2-5	6-9	10
TRANSVAAL:																			
BELFAST	58.9	31.0	45.0	+1.7	72.0	30	20.0	16	26	22	11	0	0	0	2	21	4	3	1
BENONI	61.3	35.8	48.6	+1.3	74.0	30	22.0	16	18	8	1	0	0	0	3	18	4	2	6
BERMISTON AERO	61.8	38.5	50.3	+0.1	70.4	11	25.1	16	11	2	1	0	0	0	3	16	7	2	5
MIDDELBERG	64.0	3 .	47.7	+1.9	72.8	13	22.0	17	26	19	5	0	0	0	2	21	5	1	3
KLERKSDORP	65.4	34.3	49.9	-0.3	74.6	14	21.2	17	18	13	4	0	0	0	2	21	4	4	0
KOMATIPOORT	78.4	46.0	62.2	-1.7	89.0	16	37.0	27	1	0	0	0	0	0	2	15	3	4	0
KOPJE ALLEEN	69.9	37.5	53.7	+0.1	82.0	13	24.0	17	7	2	2	0	0	0	2	24	2	2	2
LOUIS TRICHARDT	69.5	45.6	57.6	+0.8	82.0	12	37.0	29	1	0	0	0	0	0	4	12	5	4	9
MESSINA	76.8	53.5	65.2	+1.2	89.5	12	45.0	29	0	0	0	0	0	0	2	19	7	1	3
MIDDELBURG	66.1	30.6	48.4	+0.7	73.0	10	21.0	16	24	17	8	0	0	0	3	17	4	2	4
NYLSTROOM	69.0	36.6	52.8	+0.5	80.0	11	24.0	17	20	6	2	0	0	0	1	23	4	3	0
PIETERSBURG	67.0	37.5	52.3	-0.5	78.2	10	30.4	17	13	2	0	0	0	0	2	18	7	3	2
PIET RETIEF	66.9	38.3	52.6	-0.8	79.8	29	22.0	17	14	4	1	0	0	0	3	19	4	3	4
PILGRIMS REST	66.8	37.6	52.2	+0.1	81.6	30	29.8	29	17	1	0	0	0	0	3	18	4	7	1
POTCHEFSTROOM	65.5	35.4	50.4	+2.0	76.0	14	20.0	17	19	9	3	0	0	0	2	21	2	4	3
PRETORIA	65.5	38.6	52.1	+1.0	75.1	30	29.3	16	11	1	1	0	0	0	2	21	5	2	2
RUSTENBURG	70.6	37.6	54.1	+1.4	81.0	14	26.0	17	17	3	1	0	0	0	3	16	5	5	4
STANDERTON	64.3	31.5	47.9	+2.1	73.8	14	24.0	15	24	8	8	0	0	0	4	17	3	6	4
VAALHARTZ	67.0	33.1	50.0	+0.9	76.9	1	17.9	16	22	13	5	0	0	0	2	22	2	3	3
WAKKERSTROOM	60.7	29.9	45.3	+1.0	75.0	30	21.0	17	28	19	10	0	0	0	3	20	1	4	4
ZEERUST	67.9	35.6	51.8	+1.3	78.0	30	23.0	17	21	0	0	0	0	0	4	12	6	4	8
NATAL:																			
DUNDEE	65.5	38.3	51.9	+0.7	78.0	14	27.8	16	15	2	0	0	0	0	3	16	4	4	6
DURBAN AERO	73.6	53.3	63.4	+0.9	89.0	9	46.4	16	0	0	0	0	0	0	4	14	5	7	4
EMPANGENI	72.2	53.7	63.0	+0.3	81.0	11	46.0	30	0	0	0	0	0	0	4	12	8	1	7
ESHOWE	70.8	53.6	62.2	+0.3	86.1	14	42.0	17	0	0	0	0	0	0	3	13	5	5	4
EASTCOURT	65.2	39.8	52.5	+2.4	76.0	11	27.0	16	11	1	1	0	0	0	5	14	4	5	7
LADYSMITH	66.7	39.0	52.9	+1.1	80.0	14	26.0	17	11	3	1	0	0	0	3	20	3	1	6
MELMOTH	70.7	50.3	60.5	+0.8	84.3	10	41.3	17	0	0	0	0	0	0	3	16	5	5	4
OTOBOTINI	73.4	53.5	63.5	-1.9	83.0	10	45.0	16	0	0	0	0	0	0	3	8	9	2	5
PIETERMARITZBURG	70.0	45.7	57.8	+1.2	85.0	14	33.0	17	3	0	0	0	0	0	3	14	5	7	4
PORT SHEPSTONE	71.6	55.5	63.6	+1.4	81.0	11	47.5	16	0	0	0	0	0	0	4	17	4	4	5
VRYHEID	67.7	44.2	56.0	+1.1	80.0	10	32.2	16	3	0	0	0	0	0	3	17	2	6	5
WEENEN	68.3	38.3	53.3	+1.5	81.0	14	29.0	17	15	3	0	0	0	0	3	19	4	1	6
BECHUANALAND: BETSJOEANALAND:																			
DIKGATLONG	74.0	38.3	56.2	+0.4	89.0	13	27.0	16	18	4	2	0	0	0	2	19	4	4	1
GABERONES	70.3	38.5	54.4	+0.9	84.0	14	29.0	17	17	2	0	0	0	0	2	17	7	6	0
MAHALAPYE	72.2	40.5	56.3	+0.8	85.0	12	28.0	16	9	2	0	0	0	0	3	14	2	5	3
SWAZILAND: SWASIELAND:																			
MBABANE	64.7	44.5	54.6	+0.6	77.0	10	29.0	17	4	1	0	0	0	0	2	19	5	1	5
STEGI	69.1	50.5	59.8	-0.3	82.0	14	38.0	16	0	0	0	0	0	0	3	20	1	7	2
BASUTOLAND: BASUTOELAND:																			
BUTHA BUTHE	61.8	34.2	48.0	+3.3	66.0	2	25.0	19	21	9	2	0	0	0	2	23	3	1	3
MASERU	60.0	35.4	47.7	+2.5	69.0	11	25.0	15	18	9	1	0	0	0	2	17	8	3	2
QUTHING	59.8	35.7	47.8	+3.3	69.0	12	24.0	16	22	6	2	0	0	0	2	17	7	6	0
QACHASNEK	57.5	36.7	47.1	+2.2	67.6	14	21.0	16	18	3	2	0	0	0	2	19	3	6	2
SCHLABATHEBE	56.3	30.1	44.2	+2.6	72.0	30	16.0	17	22	20	9	0	0	0	.	.	.	.	.

TABLE II : PRECIPITATION IN INCHES : JUNE 1940.
TABEL II : NEERSLAG IN DUIME : JUNIE 1940.

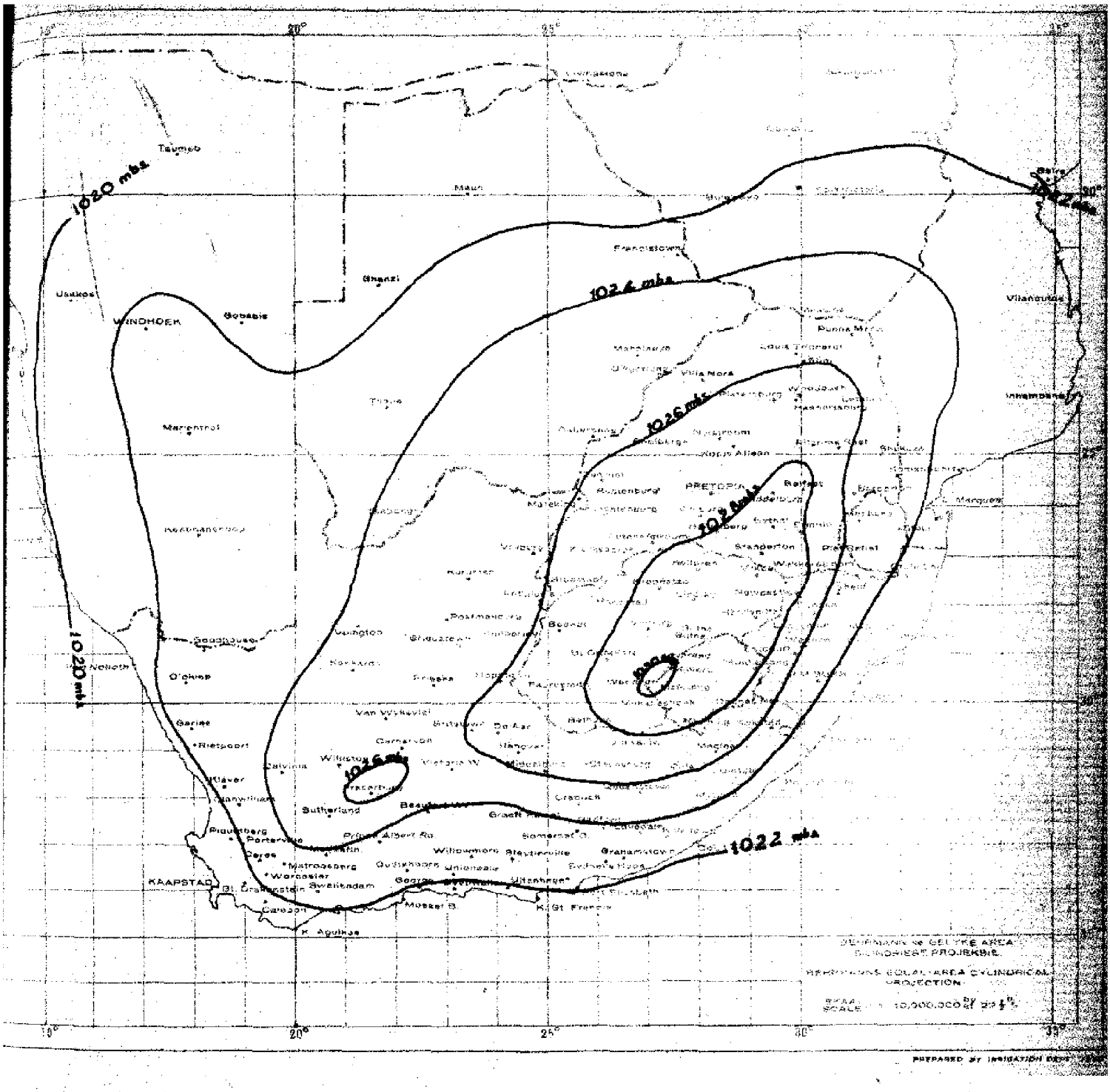
STATION STASIE	JUNE JUNIE 1940	NORM.	DIFF. VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO.OF DAYS: AANTAL DAE 0.01" or more	0.04" of meer	TH.	H.	S.	CUMULATIVE RAINFALL FROM 1.1.40 % OF NORM.	VANAF 1.7.1939 % VAN NORM.
CAPE PROVINCE: SUMMER RAINFALL AREA: KAAPPROVINSIE: SOMERREENSTREEK :													
ALIWAL NORTH	0.14	0.50	-0.36	28	0.14	14	1	1	0	0	0	122	104
BEAUFORT WEST	0.02	0.35	-0.33	6	0.02	11	1	0	0	0	0	99	104
BRITSTOWN	0.00	0.38	-0.38	0	0.00	0	0	0	0	0	0	70	102
CALA	0.27	0.44	-0.17	61	0.27	24	1	1	0	0	0	131	108
CARNARVON	0.05	0.30	-0.25	17	0.02	9	3	0	0	0	1	114	148
CRADOCK	0.00	0.43	-0.43	0	0.00	0	0	0	0	0	0	169	152
EAST LONDON	0.02	1.52	-1.50	1	0.01	16	2	0	0	0	0	88	83
FRASERBURG	0.10	0.39	-0.29	26	0.10	11	1	1	0	0	0	92	103
GOODHOUSE	0.04	0.23	-0.19	17	0.03	11	2	1	0	0	0	118	153
GRAAFF REINET	0.00	0.46	-0.46	0	0.00	0	0	0	0	0	0	151	167
GRAHAMSTOWN	0.25	1.41	-1.16	18	0.22	16	2	1	0	0	0	100	99
GROOTFONTEIN	0.04	0.34	-0.30	12	0.03	18	2	0	0	0	0	135	148
HANOVER	0.00	0.43	-0.43	0	0.00	0	0	0	0	0	0	135	146
HOPETOWN	0.00	0.31	-0.31	0	0.00	0	0	0	0	0	0	75	120
IDUTYWA	0.05	0.87	-0.82	6	0.05	23	1	1	0	0	0	146	112
KENHARDT	0.08	0.21	-0.13	38	0.08	10	1	1	0	0	0	81	122
KIMBERLEY	0.20	0.21	-0.01	95	0.12	18	2	2	0	0	0	90	95
KINGWILLIAMSTOWN	0.00	0.87	-0.87	0	0.00	0	0	0	0	0	0	104	108
KOKSTAD	0.46	0.56	-0.10	82	0.34	19	3	3	0	0	0	113	106
KURUMAN	0.00	0.16	-0.16	0	0.00	0	0	0	0	0	0	117	135
MATJESFONTEIN	0.69	1.00	-0.31	69	0.55	11	2	2	0	0	0	124	84
MACLEAR	0.13	0.41	-0.28	32	0.13	24	1	1	0	0	0	78	78
MAFEKING	0.27	0.18	+0.09	150	0.06	14	7	3	1	0	0	170	162
PHILIPSTOWN	0.00	0.41	-0.41	0	0.00	0	0	0	0	0	0	31	113
PORT ST. JOHNS	0.41	1.87	-1.46	22	0.40	2	2	1	0	0	0	72	94
POSTMASBURG	0.00	0.07	-0.07	0	0.00	0	0	0	0	0	0	130	141
PRIESKA	0.00	0.22	-0.22	0	0.00	0	0	0	0	0	0	70	94
PRINCE ALBERT RD.	0.00	0.25	-0.25	0	0.00	0	0	0	0	0	0	119	118
QUEENSTOWN	0.05	0.57	-0.52	9	0.03	19	2	0	0	0	0	121	110
SOMERSET EAST	0.02	0.77	-0.75	3	0.02	9	1	0	0	0	1	102	116
STEYNSBURG	0.11	0.45	-0.34	24	0.11	18	1	1	0	0	0	96	109
STEYTLERVILLE	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0	80	116
UMTATA	0.38	0.88	-0.50	43	0.23	19	2	2	0	0	0	88	94
UPINGTON	0.17	0.07	+0.10	243	0.17	9	1	1	0	0	0	92	139
VAN WYKSVLEI	0.03	0.26	-0.23	12	0.02	9	2	0	0	0	0	113	162
VICTORIA WEST	0.02	0.38	-0.36	5	0.02	15	1	0	0	0	0	106	123
VRYBURG	0.00	0.20	-0.20	0	0.00	0	0	0	0	0	0	99	119
CAPE PROVINCE: WINTER RAINFALL AREA: KAAPPROVINSIE: WINTERREENSTREEK :													
CALEDON	2.78	2.74	+0.04	101	1.40	14	5	4	0	0	0	118	106
CAPE L'AGULHAS	2.23	2.37	-0.14	94	0.96	14	6	5	0	0	0	212	147
CALVINIA	0.72	1.19	-0.47	61	0.35	11	3	3	0	0	0	162	164
CAPE TOWN ROYAL OB.	4.95	4.35	+0.60	114	1.64	11	8	7	1	1	0	127	102
CERES	7.03	7.45	-0.42	94	3.12	12	5	5	0	0	0	116	92
CLANWILLIAM	1.27	1.55	-0.28	82	0.48	11	5	4	0	0	0	88	92
CARIES	1.32	0.99	+0.33	133	0.74	12	3	3	0	0	0	116	135
GROOT DRAKENSTEIN	6.80	6.47	+0.33	105	1.70	14	7	7	0	0	0	121	104
KLAVER	1.29	1.39	-0.10	93	0.44	13	6	4	0	0	0	98	113
O'OKIEP	0.86	1.15	-0.29	75	0.54	12	3	3	0	0	0	85	128
PIQUETBERG	3.79	3.29	+0.50	115	1.09	14	5	5	0	0	0	106	73
PORT NOLLOTH	0.34	0.38	-0.04	90	0.19	11	3	3	0	0	0	65	93
RIETPOORT	0.91	1.03	-0.12	88	0.46	11	3	3	0	0	0	75	115
SUTHERLAND	0.52	1.17	-0.65	44	0.30	11	3	2	0	0	1	-	-
WORCESTER	1.91	1.78	+0.13	117	0.80	11	5	5	0	0	0	110	91

TABLE II : PRECIPITATION IN INCHES : JUNE 1940.
TABEL II : NEERSLAG IN DUIME : JUNIE 1940.

STATION STASIE	JUNE JUNIE	NORM.	DIFF VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO.OF DAYS: AANTAL DAE 0.01" or more	0.04" of meer	TH.	H.	S.	CUMULATIVE RAINFALL FROM 1.1.1940. % OF. NORM.	VANAF 1.7.1939 % VAN NORM
TRANSVAAL:													
BARBERTON	2.04	0.25	+1.79	816	0.92	17	5	5	1	0	0	117	122
BELFAST	2.82	0.25	+2.57	1128	1.21	17	3	3	1	0	1	119	141
BETHAL	3.24	0.22	+3.02	1474	1.07	18	5	5	0	0	0	110	119
BLOEMHOF	0.09	0.15	-0.07	56	0.09	18	1	1	0	0	0	101	127
ELIM HOSPITAAL	2.58	0.26	+2.32	992	1.30	17	3	3	0	0	0	103	113
ERMELO	3.39	0.25	+3.14	1256	1.74	17	10	4	0	0	0	114	152
HAENERTSBURG	2.20	0.22	+1.98	1000	1.40	18	3	3	0	0	0	56	99
HEIDELBERG	2.26	0.16	+2.10	1412	1.28	18	5	5	1	1	1	103	128
JOHANNESBURG OBS.	1.71	0.18	+1.53	950	0.73	17	6	5	1	0	1	82	110
JOUBERT PARK	1.58	0.18	+1.40	878	0.61	18	5	3	1	0	0	86	106
KLERKSDORP	0.12	0.07	+0.05	171	0.09	18	2	1	1	0	0	72	110
KOMATIPOORT	2.37	0.24	+2.13	988	1.80	19	3	3	0	0	0	-	-
KOPJE ALLEEN	2.73	0.14	+2.59	1950	2.20	17	6	3	2	0	0	111	132
LICHTENBURG	0.10	0.14	-0.04	71	0.10	15	1	1	0	0	0	122	125
LOUIS TRICHARDT	3.55	0.37	+3.18	959	2.60	18	6	6	-	-	-	104	119
MESSINA	1.62	0.02	+1.60	8100	1.60	18	2	1	0	0	0	73	110
MIDDELBURG	4.24	0.19	+4.05	2232	2.60	17	5	5	0	0	0	109	131
NYLSTROOM	2.39	0.15	+2.24	1586	1.90	18	4	3	0	0	0	108	123
PIETERSBURG	1.83	0.05	+1.78	3660	1.57	18	4	4	1	0	0	106	149
PIET RETIEF	4.05	0.27	+3.78	1500	1.50	18	4	4	0	0	0	98	-
PILGRIMS REST	1.33	0.33	+1.00	403	0.63	18	4	3	0	0	0	72	103
POTCHEFSTROOM	0.54	0.24	+0.30	225	0.38	18	3	2	1	0	0	87	97
PRETORIA	2.23	0.08	+2.15	2785	1.67	17	7	4	1	0	0	69	106
ROODEBERG	2.55	0.09	+2.46	2833	2.04	17	4	4	0	0	0	144	143
RUSTENBURG	3.08	0.16	+2.92	1923	1.69	17	4	4	0	0	0	106	135
STANDERTON	0.77	0.24	+0.53	321	0.55	19	2	2	0	0	0	77	99
VILLA NORA	1.70	0.08	+1.62	2125	1.50	18	2	2	0	0	0	69	115
WAKKERSTROOM	2.34	0.27	+2.07	867	0.95	19	4	4	0	0	0	112	108
WOODBUSH	3.08	0.51	+2.57	604	1.65	17	5	5	1	0	0	87	112
ZEERUST	0.93	0.10	+0.83	930	0.36	17	4	3	2	0	0	94	104
ALL-SEASONS RAINFALL AREA: STREEK MET REEN DWARSDEUR DIE JAAR:													
DEEPWALLS	1.92	2.66	-0.74	72	0.68	11	7	7	0	0	0	110	108
GEORGE	0.99	2.06	-1.07	48	0.51	10	5	3	0	0	0	115	124
MOSSEL BAY	0.65	1.28	-0.63	51	0.28	14	4	4	0	0	0	145	128
OUDTSHOORN	0.55	0.47	+0.08	117	0.39	11	2	2	0	0	0	160	134
PORT ELIZABETH	1.49	1.68	-0.19	89	0.80	15	4	4	1	1	0	104	109
SWELLENDAM	1.61	2.15	-0.54	75	0.81	14	5	3	0	0	0	108	104
SYDNEY'S HOPE	0.20	1.26	-1.06	16	0.20	16	1	1	0	0	0	101	140
UITENHAGE	0.20	1.07	-0.87	19	0.20	17	1	1	0	0	0	86	131
UNIONDALE	0.74	1.03	-0.29	72	0.27	11	5	4	0	0	0	113	121
O.F.S. : O.V.S.:													
BETHULIE	0.15	0.46	-0.31	33	0.15	19	1	1	0	0	0	90	87
BLOEMFONTEIN	0.19	0.38	-0.19	50	0.11	19	3	2	0	0	0	81	109
BOSHOF	0.38	0.21	+0.17	181	0.38	19	1	1	0	0	0	93	104
FAURESMITH	0.12	0.18	-0.06	67	0.10	17	2	1	0	0	0	137	124
HARRISMITH	0.90	0.29	+0.61	310	0.46	19	4	3	0	0	0	-	-
KROONSTAD	0.51	0.28	+0.23	182	0.30	18	6	3	0	0	0	79	104
LADYBRAND	0.29	0.42	-0.13	69	0.26	18	2	2	1	0	0	81	107
LINDLEY	0.30	0.29	+0.01	103	0.15	19	4	4	0	0	0	96	108
VREDE	0.97	0.20	+0.77	485	0.45	15	3	3	0	0	0	107	110
WINBURG	1.11	0.22	+0.89	505	0.88	18	2	2	0	0	0	96	111
WEPENER	0.16	0.55	-0.39	29	0.07	18	4	3	2	1	1	83	101

TABLE II : PRECIPITATION IN INCHES : JUNE 1940.
TABEL II : NEERSLAG IN DUIME : JUNIE 1940.

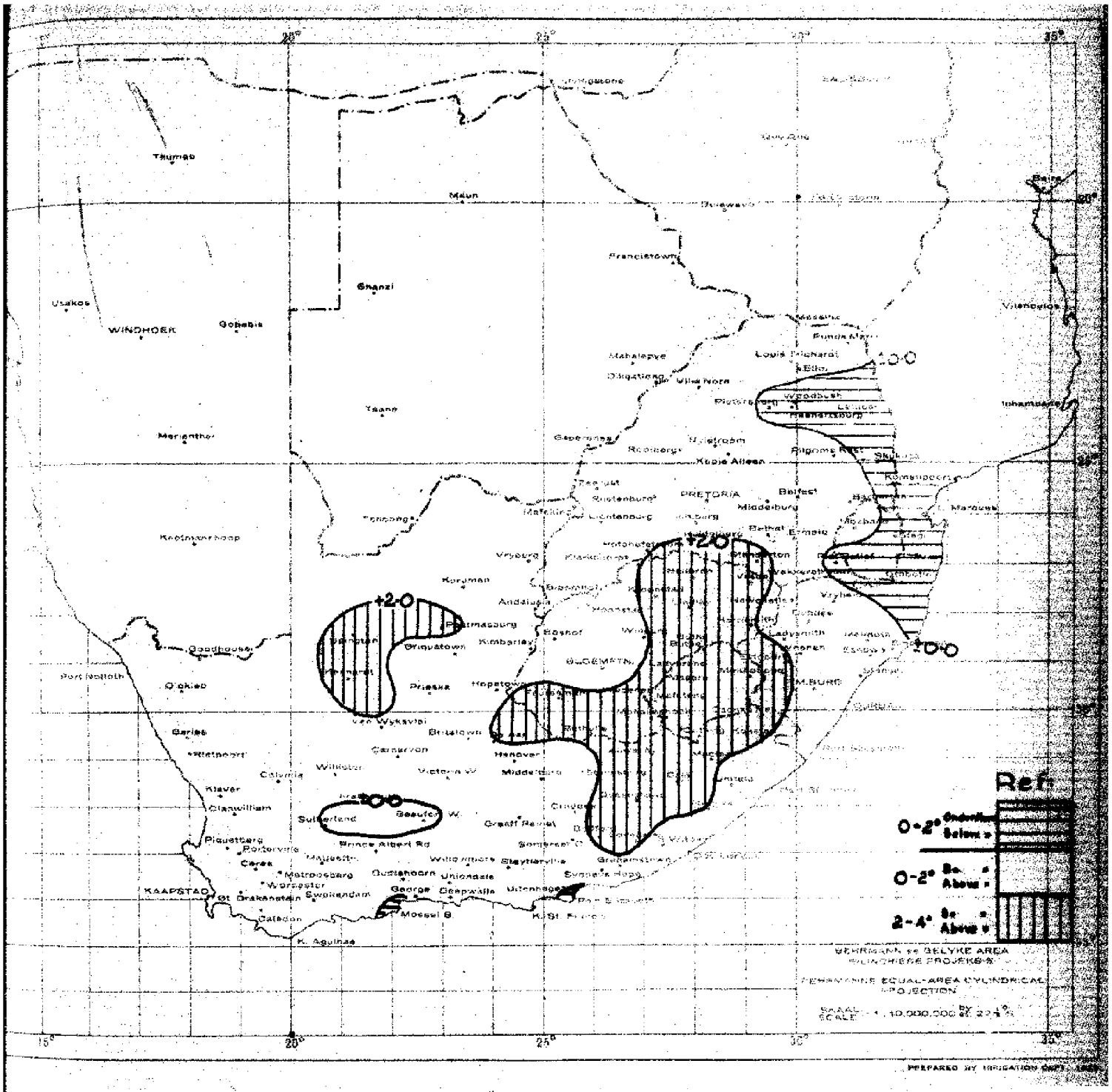
STATION STASIE	JUNE JUNIE	NORM.	DIFF. VERS.	%	MAX. AMT. HVD. IN 24H	DATE DAT.	NO. OF DAYS: AANTAL DAE 0.01" or more	0.04" of meer	TH. H. S. ⛈ ▲ ✱	CUMULATIVE RAINFALL FROM 1.1.1940 % OF NORM.	VANAF 1.7.1939 % VAN NORM.
NATAL:											
DUNDEE	2.47	0.28	+2.19	882	1.24	19	5	3	0 0 0	110	181
DURBAN POINT	4.72	1.77	+2.95	267	1.98	19	8	7	0 0 0	94	114
EMPANGENI	8.06	1.46	+6.60	552	3.60	19	12	10	0 0 0	161	141
ESHOWE	4.91	1.11	+3.80	443	1.92	19	9	8	0 0 0	164	137
ESTCOURT	1.92	0.30	+1.62	640	1.00	18	2	2	0 0 0	113	110
LADYSMITH	1.84	0.28	+1.56	657	1.04	19	3	2	0 0 0	79	106
MELMOTH	3.00	0.60	+2.40	500	1.12	19	8	6	1 0 0	126	130
OTOBOTINI	3.91	0.39	+3.52	1003	1.88	18	6	6	2 0 0	160	152
PIETERMARITZBURG	2.95	0.49	+2.46	602	2.04	19	4	4	0 0 0	103	112
STANGER	4.78	1.29	+3.49	371	1.94	18	8	6	0 0 0	125	119
PORT SHEPSTONE	0.87	2.37	-1.50	37	0.60	18	5	3	1 0 0	76	94
UMBOMBO	4.72	0.37	+4.35	1276	2.23	19	4	4	0 0 0	129	116
VRYHEID	3.11	0.36	+2.75	792	1.38	18	6	6	0 0 0	116	125
WEENEN	1.77	0.21	+1.56	880	0.89	18	4	4	0 0 0	111	115
BASUTOLAND: BASOETOLAND:											
MAFETENG	0.11	0.67	-0.56	16	0.07	19	2	2	0 0 0	76	94
MOHALESHOEK	0.00	0.58	-0.58	0	0.00	0	0	0	0 0 0	91	101
QACHASNEK	0.42	0.61	-0.19	69	0.25	20	3	2	0 0 0	96	106
MOKHOTLONG	0.44	0.18	+0.26	244	0.34	20	3	3	0 0 0	131	106
BECHUANALAND: BETSJOEANALAND:											
MAHALAPYE	1.96	0.07	+1.89	2800	1.27	17	4	4	1 0 0	106	114
SIKGATLONG	2.00	0.01	+1.99	20000	1.40	17	4	4	1 0 0	115	128
GABERONES	1.59	0.20	+1.39	795	1.21	17	4	3	1 0 0	95	98
SWAZILAND: SWASIELAND:											
MBABANE	4.90	0.54	+4.36	908	2.00	18	5	5	0 0 0	103	123
STEGI	3.87	0.46	+3.41	841	2.95	18	7	6	0 0 0	161	-



KAART I CHART I

Junie 1940: Gemiddelde Lugdruk om 8·30 v.m by seespieël.

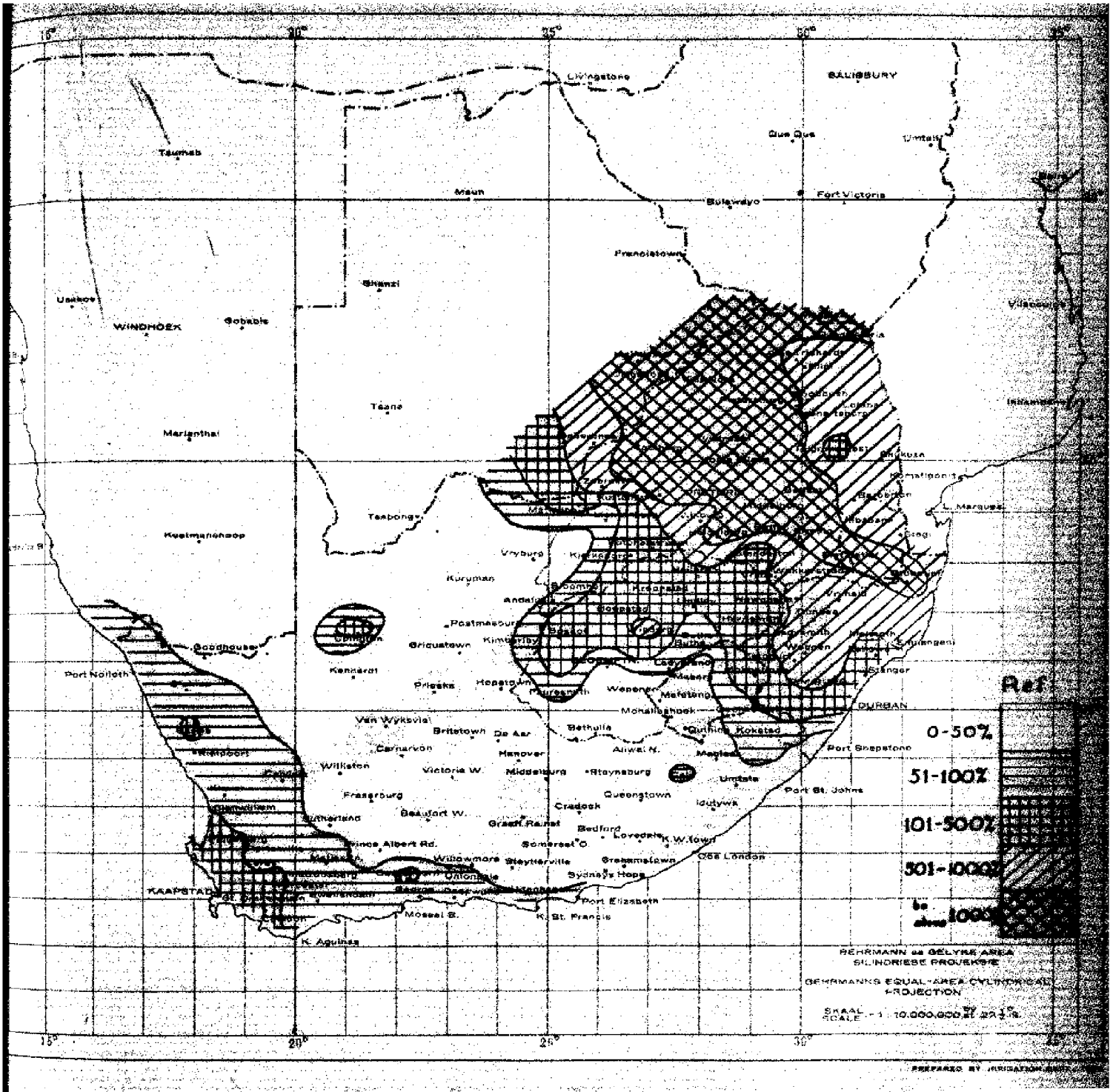
June 1940: Mean Atmospheric Pressure at 8·30 a.m. at M.S.L.



KAART II CHART II

Junie 1940: Gemiddelde Temperatuur-afwyking van die normaal in °F.

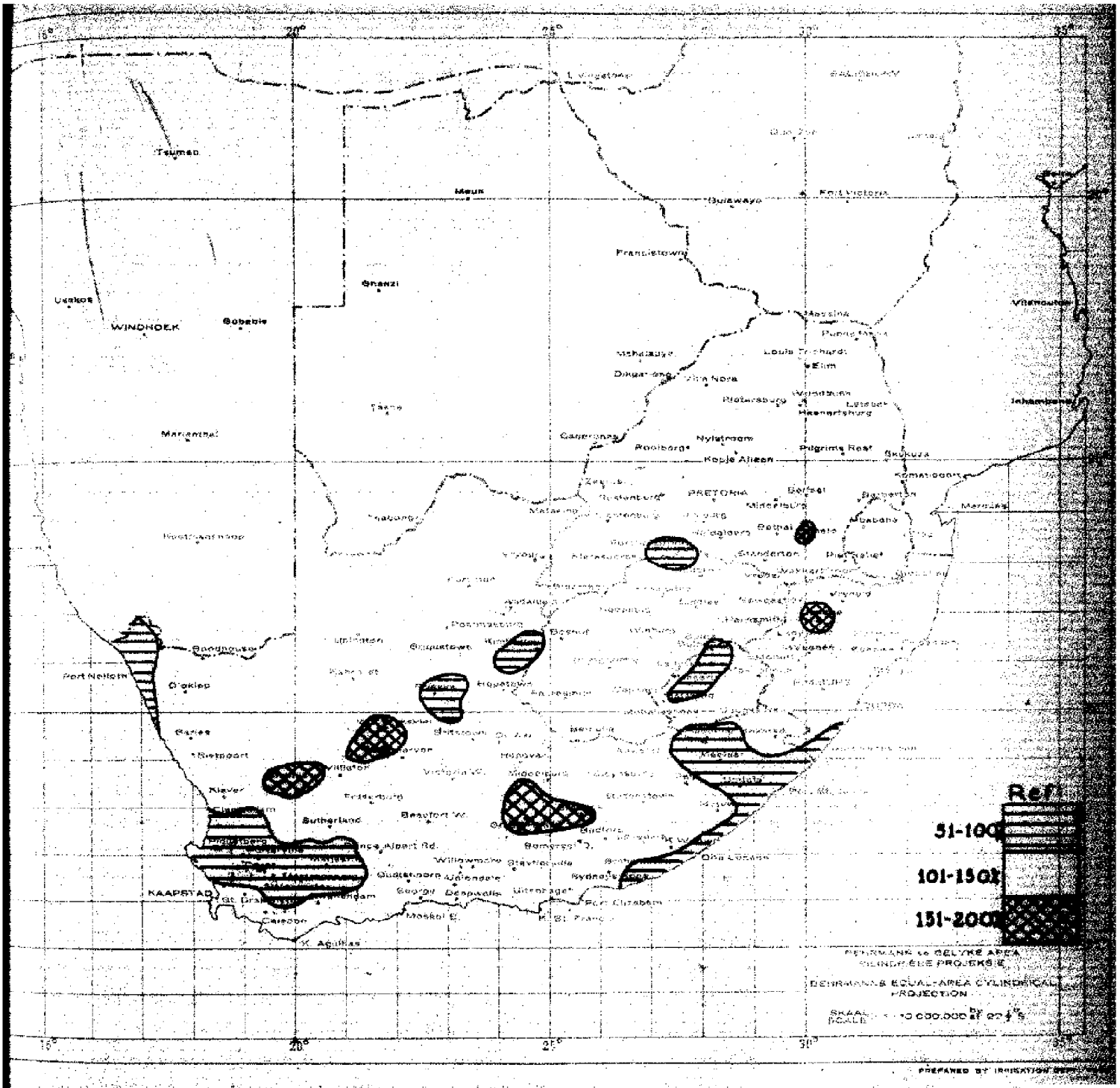
June 1940: Mean Temperature-departure from the normal in °F.



KAART III CHART III

Junie 1940: Neerslag aangegee as persentasie van die Normaal.

June 1940: Precipitation shown as percentage of the Normal.



KAART IV CHART IV

Seisoen Neerslag: 1ste Julie 1939 tot 30ste Junie 1940, aangegee as persentasie van die Normaal.

Seasonal Precipitation: 1st July 1939 to 30th June 1940, shewn as percentage of the Normal.

D I E U N I E V A N S U I D - A F R I K A

DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR.

Deel XXI | JULIE 1940. | No. 7.

HOOFKENMERKE:

Oor die algemeen 'n betreklik warm maand met minder ryp as wat gewoonlik die geval is, behalwe oor die oostelike Transvaal waar dit skerp geryp het. Omtrent helfte van die normale neerslag oor die winterreënstreek,dog reënval heelwat bo normaal oor die sentrale Kaapprovinsie - 'n bietjie sneeu op die 4de op die hoëre Kaapse bergkettings.

LUGDRUK:

Die gemiddelde lugdruk-distribusie word op Kaart I aangedui. Die gemiddelde druk was bo normaal oor die hele Unie, met die grotere afwykings (oor 2 millibars) oor die oostelike Unie.

TEMPERATUUR:

Die afwykings van die gemiddelde maandelikse temperatuur vanaf die normaal word aangegee op Kaart II. Dit sal opgemerk word dat die gemiddelde temperature bo normaal was behalwe oor die oostelike, noordelike en sentrale Transvaal en noordelike Natal waar die gemiddeldes ietwat subnormaal was. Die grootste positiewe afwykings van die normaal (oor 4°F) het langs die weskus van die Kaapprovinsie voorgekom.

Die algemene gemiddelde temperatuur vir die Unie as geheel was 52.8°F, of 1.3° bo normaal. Word die provinsies apart beskou,het die Kaap en Vrystaat gemiddeldes aangetoon wat respektiewelik 2.5° en 1.1° bo normaal was, terwyl die Transvaal en Natal se gemiddelde temperature altwee 0.1° onder normaal was.

Die gemiddelde maksimum-, of dag-temperature, was effens onder normaal oor die oostelike Transvaal, en bo normaal oor die res van die Unie. Positiewe afwykings van 3 tot 5°F het algemeen voorgekom oor die Kaapprovinsie.

Gemiddelde minimum-, of nag-temperature, was onder normaal, hoofsaaklik oor die drie noordelike provinsies, en bo normaal oor die Kaapprovinsie.

Die algemene gemiddelde maksimum temperatuur vir die Unie as geheel was 67.7°F, of 2.1° bo normaal, en die gemiddelde minimum 38.0°F, of 0.5° bo normaal.

Die warmste tydperk van die maand het op die volgende datums geval:- 1ste tot 3de; 7de tot 9de, 22ste tot 24ste, en 28ste tot 29ste. Hierop volg nou die hoogste indiwiduele maksima wat in elke provinsie gemeet was :- 94°F te Oos Londen (KP) op die 29ste; 92° te Komatipoort (Tvl) op die 1ste; 77° te Kroonstad(O.V.S.) op die 22ste, en 87° te Otobotini (Natal) op die 30ste.

Die laagste minimum temperature was gemeet op, of omtrent die volgende datums:- 6de tot 6de; 10de tot 17de, en 25ste tot 27ste, en nou volg die laagste minima in elke provinsie geregistreer:- 16.1° te Grootfontein (KP.) op die 5de; 17.3° te Wakkerstroom (TVL.) op die 10de; 17.0° te Harrismith (O.V.S.) op die 14de, en 26.5° te Estcourt (N) op die 6de.

RYP: Soos gewoonlik, was ryp 'n algemene verskynsel oor die hele binneland van die Unie, in die Kaapprovinsie en die suidelike Vrystaat egter was dit minder straf as onder normale omstandighede. Daarenteen het dit baie skerp geryp oor die binneland van Natal en die oostelike Transvaal. Eienaardig was die skerp ryp, en ook die ysformasie in die Barbertonse distrik wat gedeeltelik onder die laeveld val, en waar sulke verskynsels byna onbekend is. (Sien ook aantekeninge van waarnemers).

NEERSLAG: Die distribusie van die neerslag, uitgespreek as 'n persentasie van ddie normaal*, word naasteby aangedui op Kaart III. Die reënval was bo normaal oor 'n groot streek in die sentrale Kaapprovinsie, en onder normaal oor die res van die Unie. Die winterreënstreek, wat hierdie maand sy hoogste neerslag behoort te kry, het skaars 50% van sy normale neerslag ontvang, terwyl die Transvaal, Natal, oostelike Kaffraria en die noordelike Vrystaat, Betsjoeanaland en Namaqualand so te sê g'n reën gehad het nie.

Word die reënval gegewens in Tabel II vir elke provinsie afsonderlik saamgevat, dan vind ons dat die Kaapprovinsie, die Vrystaat, Natal en die Transvaal tekorte aantoon wat onderskeidelik 29%, 63%, 90% en 82% van hulle normale neerslag beteken. Die somerreënstreek van die Kaap het 'n tekort van 11% aangedui, die winterreënstreek 'n tekort van 44%, en die streek met reën in alle seisoene (suidelike Kaapse kusstreek) 'n tekort van 21%. Vir die Unie as geheel was daar 'n tekort van 46%.

Die winterreënstreek en die suidelike Kaapse kusstreek het reën gehad hoofsaaklik vanaf die 1ste tot 5de, 19de tot 24ste en op die 30ste tot 31ste. Die surplusse aan reënval oor die sentrale Kaap en die suidwestelike Vrystaat, was toe te skrywe aan buie en donderstorms op die 5de, 6de, 24ste, 30ste en 31ste. Op laasgenoemde datum het daar ook onweersbuie uitgesak oor die res van die Vrystaat en oor Natal.

SNEEU: Sneeu het op die 4de geval op die vernaamste bergreekse van die Kaapprovinsie en op die Drakensberge.

HAEL: 'n Paar afgesonderde haelstorms het op die 3de in die suidoostelike Kaap, op die 25ste te Stormsrivier (suidelike Kaap), op die 4de te Barkly Oos en op die 31ste te Estcourt (N) voorgekom.

DIE VERSAMELDE NEERSLAG: vanaf 1 Januarie 1940, uitgedruk as 'n persentasie van die normaal, word naasteby aangedui op Kaart IV. Word die provinsies as eenhede beskou, dan het die Kaap en Natal surplusse gehad wat onderskeidelik 6% en 17% van hulle normale* neerslag vir hierdie tydperk bedra het, terwyl die Vrystaat en die Transvaal tekorte van onderskeidelik 4% en 3% aangetoon het. Die somer- en winterreënstreke van die Kaapprovinsie het surplusse van respektiewelik 7% en 9% gehad, terwyl die streek met reën in alle seisoene 'n tekort van 2% aangetoon het. Die Unie as geheel het vir hierdie periode 'n surplus van 3% gehad.

L.W.* Vanaf Julie 1940 het die "normale neerslag" in hierdie publikasie, betrekking op gemiddeldes oor 'n standaard periode van 30 jaar (1906-1935). Die normale van stasies wat

vir 'n minder periode bestaan, is aangesuiwer om met hierdie standaard periode cereen te stem.

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UNION OF SOUTH AFRICA

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

Vol. XXI JULY 1940. No. 7

OUTSTANDING FEATURES:

On the whole a comparitively warm month with less frost than usual, except over the eastern Transvaal where severe - about half the normal precipitation over the winter rainfall area, but rainfall well above normal over the central Cape Province. Some snow on the 4th over the higher Cape mountain ranges.

ATMOSPHERIC PRESSURE: The distribution of mean atmospheric pressure for July 1940, is shown on Chart I. The mean pressure was above normal over the whole Union, more so over the eastern, where positive deviations exceeded 2 millibars, than over western Union.

TEMPERATURE: The departure of mean monthly temperature from the normal is shown on Chart II. It will be noticed that mean temperatures were above normal, except over the eastern, northern and central Transvaal and the northern Natal coastal belt, where slightly sub-normal values obtained. The largest positive departures from the normal (over 4°F) occurred on the west coast of the Cape Province.

The general mean temperature for the Union as a whole was 52.8°F, or 1.3° above normal, whilst of the provinces taken separately, the Cape and Free State showed mean temperatures above normal by 2.5° and 1.1° respectively, and the Transvaal and Natal both a mean temperature subnormal by 0.1°.

The mean maxima, or day-temperatures were slightly below normal over the eastern Transvaal, and above normal over the remainder of the Union. Positive deviations from 3 to 5°F were common over the Cape Province.

Mean minima, or night-temperatures, were 'below-normal,' mainly over the three northern provinces and above over the Cape Province.

The general mean maximum temperature for the Union as a whole, was 67.7°F, or 2.1° above normal, and the mean minimum 38.0°F, or 0.5° above normal.

The warmest periods of the month fell on the following dates:- 1st to 3rd, 7th to 9th, 22nd to 24th and 28th to 29th. The following are the highest individual maxima registered in each province: 94°F at East London (C.P.) on the 29th; 92° at Komatipoort (Tvl.) on the 1st; 77° at Kroonstad (O.F.S.) on the 22nd and 87° at Otobotini (N) on the 30th.

The lowest minimum temperatures were registered on or about the following dates:- 5th to 6th; 10th to 17th and 25th to 27th, and the following were the lowest values registered in each province:- 16.1°F at Grootfontein (C.P.) on the 5th; 17.3° at Wakkerstroom (Tvl.) on the 10th; 17.0° at Harrismith (O.F.S.) on the 14th, and 26.5° at Estcourt (N) on the 6th.

FROST: Frost was as usual a common feature over the whole interior of the Union; for the Cape Province and southern Free State it was much less severe than under normal conditions. Over the interior of Natal and the Transvaal on the other hand, frost was more severe than usual, and especially so over the eastern Transvaal. A peculiar feature is the heavy frost and also the formation of ice in the Barberton district which belongs partly to the lowveld, where such phenomena are extremely rare (see also observers' notes).

PRECIPITATION:

The distribution of precipitation, expressed as a percentage of the normal*, is roughly shown on Chart III. Rainfall was abbve normal over a large area in the central Cape Province, and below normal over the rest of the Union. The winter rainfall area which is now at the height of its rainy season received barely 50% of its normal rainfall, whilst no rainfall worth mentioning occurred over the Transvaal, Natal, eastern Kaffraria, the northern Free State, Bechuanaland and Namaqualand.

Conbining the rainfall data in Table II for each province separately, it is found that the Cape, Free State, Natal and the Transvaal show deficits amounting respectively to 29%, 63%, 90% and 82% of their normal rainfall. The summer rainfall zone of the Cape Province showed a deficit of 11%, the winter rainfall zone a deficit of 44%, and the "all seasons rainfall" zone (southern Cape coastal belt) a deficit of 21%. For the Union as a whole there was a deficit of 46%.

The winter rainfall zone and the southern Cape coastal belt, received rain mainly from the 1st to 5th, from the 19th to 24th and on the 30th to 31st. The surplus over the central Cape and southwestern Free State was due to showers and thunderstorms on the 3rd, 4th, 24th, 30th and 31st. On the latter date showers and thunderstorms also occurred over the remainder of the Free State and Natal.

SNOW:

Snow occurred on the 4th on the main mountain ranges of the Cape Province and on the Drakensberg.

HAIL:

A few isolated hailstorms occurred on the 3rd in the southeastern Cape, on the 4th at Barkly East and on the 31st at Estcourt (Natal), and on the 25th at Stormsrivier in the southern Cape.

THE CUMULATIVE PRECIPITATION:

The cumulative precipitation since the 1st January 1940, expressed as a percentage of the normal* is roughly shown on Chart IV.

Considering the provinces as units, the Cape and Natal showed surplusses amounting respectively to 5% and 17% of their normal precipitation for this period, whilst the Free State and Transvaal showed small deficits of 4% and 3% respectively. The summer- and winter rainfall zones of the Cape Province showed surplusses of 7% and 9% respectively, whilst the 'all seasons' rainfall zone showed a deficit of 2%. For this period the Union as a whole showed a surplus of 3%.

NOTE* From July 1940 the 'normal precipitation' mentioned in this publication refer to averages over a standard period of 30 years (1906-1935). The normals of stations existing for a lesser period have been adjusted to conform to this standard period.

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AANTEKENINGE VAN WAARNEMERS VIR JULIE 1940.
OBSERVERS' NOTES FOR JULY 1940.

ESTCOURT: Thunderstorm with hail, rainfall 0.12" on the 31st. The rest of the month was dry and calm, with bright sunny days and cold nights. 0.12" fell on 1 day. W. Lambrechts.

QUEENSTOWN: The prevailing winds during the month were NW, reaching gale force on the 1st and 24th. The visibility was excellent, usually slightly reduced in the south. 0.38" fell on 2 days. Sister M. Joseph.

DRAKENSBERG GARDEN HOTEL: Clear sunny mornings. Fairly cloudy, but little rain, and winds slight. Few frosts and some exceptionally warm afternoons. 0.23" fell on 1 day. The Manager.

VAN WYKSVLEI: In general the month was windy and cold. The conditions changed after a thunderstorm on the 30th. 0.20" fell on 3 days. E.S.L. Dawson.

LOVEDALE: Frost occurred on 8 nights. The absolute minimum of 23°F is the lowest for Lovedale on records. The absolute maximum being 68°F is the highest temperature for July for Lovedale on records. The extremes were due, no doubt to the very dry air. Pressures high; a spell of fine weather from the 10th to the 18th. 0.79" fell on 3 days. C.A.Pilson.

WILLOWMORE: Oor die algemeen was die weer gedurende die maand baie ongunstig, en die distrik verlang nog steeds na reën. Taamlike warm winde het gedurende die laaste paar dae van die maand gewaai, en ligte stofstorms was soms waarneembaar. Die reën van die laaste twee dae van die maand het gepaard gegaan met donder. 1.42" is aangeteken op 1 dag. J.Strydom.

CRADOCK: The weather for the month has been generally mild with the exception of a few cold days, but little frost. 0.63" were recorded on 3 days. B. van der Merwe.

BELFAST: No rain fell during the month. Heavy frost occurred on the 10th. The days were pleasant as there was little wind. I.W. Slabbert.

HARTEBEESPOORT PROEFSTASIE (BRITS): Dit was 'n besonder stil maand, met skerp ryp, koue nagte, onbewolkte en windlose dae. Die ryp en koue het skade gedoen aan hawer en koring oeste, en die ontkieming van tabaksaad is veel vertraag. Geen reën is aangeteken gedurende die maand nie. Die Verantwoordelike Amptenaar.

LOSKOP IRRIGATION WORKS: Temperatures varied between 82.1°F and 38.1°F. No rain fell during the month. Climate was temperately cool; only 2 windy days.The Resident Engineer.

"PRETORIA FARM"(PIETERSBURG): Temperatures fluctuating considerably, but averages were about normal. Low temperatures due to cloudy days. No rain fell during the month. R. Bendall.

KURUMAN: Oor die algemeen was dit koud en droog. Veldbrandrook het die lug baie deinserig gemaak. Swaar donderslae en weerlig vroeg in die môre van die 31ste. Koue winde en min reën. 0.05 is aangeteken op 1 dag. D.A. Schoonees.

BARBERTON: Ou inwoners van Barberton beweer dat ons vanjaar die koudste winter het, wat nog hier bekend is. Ryp het dikwels voorgekom en selfs ys was opmerklik op enkele plekke in die omgewing van die dorp. Dit is iets ongekends. Geen reën is aangeteken gedurende die maand nie. L.J. Marais.

JOUBERTSDAL(SWELLENDAM): Oor die algemeen was die maand baie droog, en warm droë winde het feitlik elke dag gewaai. Die vooruitsig vir die graanoes is dus maar sleg. 0.54" is aangeteken op 2 dae. J.P. Joubert.

SANDFLATS (MOUNT CURRIE): Heavy frosts during the first part of month,with days mild and congenial throughout the whole of the month. Mornings cold, but warming up later. Winds mainly light to moderate and variable, except for the 24th and 31st, when wind reached gale force. Atmosphere thick and hazy, owing to grass fires. No rain fell during th month. Hewson B. Corderoy.

KOMATIPOORT: This has been a very dry month, no rain being registered. Another characteristic was the absence of clouds generally. Only night breezes throughout and mostly from an easterly direction. H.W. Stevens.

KRUGERSDORP(CORONATION PARK): July has been a fairly average month from all points of view, although somewhat erratic. The mean average temperature was 48.2° against an average of 48.4° for the past 31 years. No rain fell during the month. Walter W. Webster.

MOUNT EDGECOMBE(NATAL): In general the temperatures for the month of July were rather above normal, except the minimum temperatures, which were slightly below normal. The mean relative humidity was slightly below normal. On only one morning was the sky completely overcast, while there were 19 mornings on which the sky was free from clouds.The month has been very calm, there being only 5 days on which the wind force exceeded that of a moderate breeze. The rainfall was well below normal. 0.02" fell on 2 days. The Director. Sugar Experiment Station.

NEWCASTLE: No rain fell until the last day of the month. Rainfall was 0.01", and this was accompanied by a light thunderstorm. We had frost on 19 days. On the whole,the weather was very mild. Sister M. Scholastica.

BELFAST: No rain fell during the month. Heavy frost occurred on the 10th. The days were pleasant, as there was little wind. I.W. Slabbert.

BALFOUR: Very cold nights and warm days on the whole; with strong winds reaching almost gale force at times - most unusual, except for August. Very dry and rivers running very low. 0.91" fell during the month. E.W. Hulse.

CUTHING(BASUTOLAND): Cold weather experienced during the month. No rain was recorded except on the afternoon of the 31st, when 0.60" fell. The Met. Observer.

UPINGTON: Oor die algemeen baie gunstige klimaat. Sterk aanhoudende noordelike wind het teen die end van die maand gewaai. Ligte donderstrom op 30ste. 0.07" is aangeteken op 1 dag. S. Malan.

ARMOEDSVLAKTE(VRYBURG): Hierdie maand was taamlik koel. Ons het lekker warm dae gehad, maar 'n paar besonder skerp koue nagte. Geen reën het gedurende die maand geval nie. R.J.J. Briel.

POTCHEFSTROOM: Severe frost, very cold nights and low temperatures were the leading and outstanding features, especially during the first half of this month. The hours sunshine figure and the cloud amount is an indication of the clear fine and sunny days. The barometric pressure kept rather high, but very steady. No rain fell during the month. B.D. Saayman.

KROONSTAD (SOMERGEWAS PROEFSTASIE): Die temperature vir die maand was vry normaal. Dis opmerklik dat die wind om 0830 feitlik kalm was, maar in die middag gewoonlik sterk gewaai het. Geen reën is aangeteken gedurende die maand nie. D.J. van den Berg.

ATHOLE (ERMELO): Oor die algemeen was die dae sonnig, maar baie wind het gewaai. Min reën is aangeteken. 0.08" op 1 dag. A.H. du Plessis.

BADPLAATS(CAROLINA): Julie was oor die algemeen koud, vernaamlik snags. Ryp was algemeen, en skade is aangerig. Die nag van die 10de was die koudste, en op plekke waar dit selde of ooit ryp is ryp waargeneem. Geen reën is aangeteken nie. I.M. van Rooyen.

BENONI: The features this month were warm days, a fair amount of sunshine, mornings and nights cold, with a certain amount of frost. No rain fell during the month. The Medical Officer of Health.

FAURESMITH VELDRESERWE: Oor die algemeen was die weer baie egalig. Aangename sonnige dae met min wind, behalwe die laaste paar dae wat baie winderig was, maar nie te koud nie. Reën is alleen op die laaste dag van die maand aangeteken toe 0.25" geval het. A.J. van der Walt.

STRATHEARN(NOTTINGHAM ROAD): Very mild, with occasional heavy frosts, but not much sign of an early spring. 0.08" fell during the month. Miss Smythe.

MODDERPOORT(LADYBRAND): The weather was fine and dry during the month, the days being quite warm while there was frost most nights. Mean maximum temperature above the average for the month, and the absolute maximum of 70.5°F on the 23rd is the highest on records for this month. A thunderstorm occurred on the 31st, accompanied by clouds of dust. 0.29" fell during the month. J.W. Eddolls.

KIMBERLEY AIRPORT: Mainly fine anticyclonic weather. Pressure well above normal. Sky mostly cloudless. Winds calm or light northerly. Killing frosts experienced. No rain fell during this month. J.G. Gwayde. Met. Assistant.

GROOTFONTEIN LANDBOUKOLLEGE(MIDDELBURG K.P.): 'n Baie droë maand met min wolke en helder dae, behalwe vir verlede week toe aanhoudende sterk winde (N - NNW) gewaai het,en die lug erg deinserig was. Die gevolg was 'n taamlike neerslag (sagte reën)op die laaste dag van die maand. Groot skommelinge in minimum temperature is waargeneem. 0.32" is aangeteken op 3 dae. W. van der Merwe.

HERMITAGE(UITENHAGE): Variable from extreme hot to cold. Generally dry,but good rains towards the end of the month. 1.00" were recorded on 4 days. The Research Officer.

CARNARVON: Met die uitsondering van 'n paar dae was die maand besonder koud in vergelyking met Junie, en die koudste vir jare. Die reënval is besonder hoog, en so te sê ongewoon vir Julie. 0.31" is aangeteken op 2 dae. Jac. P. van Wyk

NEPENER: Warm days with cold nights were the outstanding features of the month's weather. The month was dry, with only 0.48" on 2 days. The district is dry, and good rains would be benificial to the wheat crops. W.T.E. Kemm. F.R.M. Soc.

GROOT DRIEFONTEIN(MURRAYSBURG): After months of perfect and windless weather,we had nine days and nights of gale, (really terrific) with very high temperatures. Only the 25th was quiet and normal. This unusual weather was followed by a lovely soft rain and a little snow on the 30th and 31st. 0.82" fell on 3 days. (Mrs.) K.N. Watermeyer.

LADYBRAND: Oor die algemeen was dit heerlik warm, met koel nagte en ryp. Besonder warm vir Juliemaand bedags. 0.42" is aangeteken op 2 dae. Die Goewermentsbosbouer.

KOPJE ALLEEN (WATERBERG): For the sixteenth time in 28 years, July has been rainless.The average rainfall for the month over that period was 0.33" on one dae. The mean maximum temperature was 0.7°F above normal, while the mean minimum temperature was 2.3°F below normal. J.Lyall - Soutter.F.R.Met. Soc.

TABEL I - TEMPERATUUR EN BEWOLKTHEID - JULIE 1940.
TABLE I - TEMPERATURE AND CLOUDINESS - JULY 1940.

Resultate van waarnemings om 0830 S. A. Standaard Tyd.
Results of observations at 0830 S.A. Standard Time .

STASIE STATION	LUG TEMPERATURE IN °F: AIR TEMP. IN °F.								AANTAL DAE: NO DAYS						BEWOLKTHD: CLOUDINESS				
	Gem. Mean Max.	Gem. Mean Min.	Gem. Mean Norm.	Verskil Diff.	Abs. Max.	Dat.	Abs. Min.	Dat.	Mín. Min.	Ond. Bel.		Max Bo Max.	Above		Gem. Mean	Aant. dae: No. dys			
									37	22	27	90	95	100		0-1	2-5	6-9	10
KAAPPROVINSIE: CAPE PROVINCE:																			
ALIWAL NOORD	63.4	28.1	45.8	+0.2	75.0	23	19.0	15	26	25	17	0	0	0	0	26	5	0	0
BARMOEDSVLAKTE	69.0	30.9	50.0	+0.5	78.2	22	19.0	17	25	19	12	0	0	0	2	24	1	6	0
BEAUFORT WES	68.1	41.5	54.8	+1.7	81.3	23	24.9	25	14	3	1	0	0	0	3	21	4	3	3
BRITSTOWN	66.6	35.7	51.2	+2.9	79.0	23	28.0	5	20	9	0	0	0	0	1	25	2	0	3
CALA	66.7	38.6	52.6	+2.7	77.5	23	24.5	5	17	12	1	0	0	0	2	22	4	4	1
CARNARVON	63.7	32.4	48.0	+1.6	74.0	23	20.8	25	20	3	0	0	0	0	2	19	8	3	1
CERES	64.3	38.0	51.1	+2.5	75.0	8	30.0	18	17	1	0	0	0	0	4	12	6	10	3
CRADOCK	67.6	34.9	51.2	+2.3	81.0	23	26.0	5	23	10	1	0	0	0	1	24	4	2	1
DANWILLIAM	73.3	43.7	58.5	+2.9	84.0	8	34.0	25	5	0	0	0	0	0	4	16	4	6	5
DEEPWALLS	66.0	49.9	58.0	+3.9	80.5	29	36.4	3	0	0	0	0	0	0	3	12	11	5	3
DODHOUSE	74.3	43.9	59.1	+1.4	82.0	7	36.0	26	1	0	0	0	0	0	1	27	3	1	0
GRAAFF REINET	69.6	45.0	57.3	+2.9	82.0	23	30.8	5	5	2	0	0	0	0	2	22	5	3	1
GRAHAMSTOWN	70.3	39.9	55.1	+3.0	85.2	23	31.0	5	10	2	0	0	0	0	3	19	3	4	5
G. DRAKENSTEIN	67.1	44.5	55.8	+3.2	83.0	8	38.2	26	0	0	0	0	0	0	3	18	2	9	2
GROOTFONTEIN	62.1	29.7	45.9	+0.4	74.7	23	16.1	5	25	22	15	0	0	0	2	20	4	5	2
KEDUTYWA	69.3	45.7	57.5	+4.0	82.0	30	32.0	5	3	1	0	0	0	0	1	26	1	2	2
KAAP AGULHAS	64.4	51.9	58.2	+2.9	80.0	9	46.0	25	0	0	0	0	0	0	4	9	10	9	3
KENHARDT	70.6	37.1	53.8	+2.5	84.0	23	25.0	25	18	2	1	0	0	0	1	24	5	1	1
KIMBERLEY AERO.	67.0	36.6	51.8	+2.2	76.6	23	23.1	4	17	10	3	0	0	0	2	22	5	4	0
KING W'MSTOWN	73.9	42.4	58.2	+3.0	90.0	23	31.0	26	6	1	0	0	0	0	2	22	4	2	3
KLAVER	72.1	48.7	60.4	+3.4	84.5	8	36.9	25	1	0	0	0	0	0	4	15	3	7	6
KOKSTAD	65.8	31.7	48.8	+1.0	77.1	24	22.0	5	24	17	8	0	0	0	2	23	3	4	1
KURUMAN (SEODIN)	67.0	32.8	49.9	+2.1	75.0	22	24.0	12	24	14	1	0	0	0	2	19	2	4	3
LATROOSBERG	59.5	38.9	49.2	+3.0	68.0	23	27.2	25	7	2	0	0	0	0	4	13	5	12	1
LAFEKING	68.7	36.4	52.6	+0.7	76.3	21	28.0	12	16	6	0	0	0	0	1	20	3	2	0
MOSSELBAAI	67.7	50.7	59.2	+3.6	80.5	9	41.3	26	0	0	0	0	0	0	3	18	6	3	4
PIKIEP	64.1	44.0	54.0	+1.5	73.9	28	33.5	1	8	0	0	0	0	0	2	18	6	4	3
MOS LONDEN	73.0	50.1	61.6	+2.4	94.0	29	38.9	5	0	0	0	2	0	0	2	19	7	5	0
MUDTSHOORN	70.7	37.2	54.0	+3.1	87.0	29	31.0	26	12	1	0	0	0	0	2	17	9	3	0
PORT ELIZABETH	70.6	54.9	57.8	+2.8	89.6	29	33.2	14	3	0	0	0	0	0	3	18	5	4	4
PORT NOLLOTH	68.5	48.3	58.4	+4.2	87.0	8	39.0	1	0	0	0	0	0	0	5	11	5	6	9
PORT ST. JOHNS	72.5	57.7	65.1	+1.9	86.0	24	48.0	5	0	0	0	0	0	0	3	14	7	10	0
POSTMASBURG	65.8	39.5	52.6	+2.7	74.6	23	30.0	12	7	1	0	0	0	0	1	20	8	3	0
PRIESKA	69.2	33.2	51.2	+2.1	81.3	23	23.8	14	24	16	7	0	0	0	1	21	7	2	1
QUEENSTOWN	67.6	36.9	52.2	+2.7	79.0	23	24.0	14	18	13	5	0	0	0	2	20	4	4	3
RIETPOORT	71.7	45.4	58.6	+4.3	85.8	8	35.0	25	3	0	0	0	0	0	3	16	3	9	3
SOMERSET OOS	69.9	43.8	56.9	+3.5	80.2	30	28.8	5	4	1	0	0	0	0	2	21	1	5	2
SUTHERLAND	57.8	28.7	43.2	+1.5	64.0	24	20.0	13	28	23	13	0	0	0	3	13	9	4	5
VITENHAGE	75.0	43.4	59.2	+3.4	91.0	29	35.4	26	2	0	0	1	0	0	2	17	2	2	4
UMTATA	73.4	36.4	54.9	+2.1	86.0	30	28.0	5	16	6	0	0	0	0	1	21	2	3	1
VRYBURG	71.4	40.9	56.2	+3.5	83.0	30	33.0	26	7	0	0	0	0	0	1	22	7	2	0
VAN WYKSVLEI	67.9	33.9	50.8	+3.6	80.5	23	23.6	25	22	10	3	0	0	0	2	22	5	4	0
VICTORIA WES	62.7	29.6	46.2	+1.5	75.0	23	20.0	25	26	24	11	0	0	0	1	21	7	3	0
WILLOWMORE	65.6	34.8	50.2	+2.7	80.0	23	25.0	25	19	10	1	0	0	0	3	15	9	2	4
WINGFIELD AERO	66.8	47.4	57.1	+3.5	83.6	8	35.6	5	1	0	0	0	0	0	5	8	7	10	6
O.V.S. : O.F.S.																			
BETHULIE	63.3	32.6	48.0	+1.5	74.0	23	23.0	26	25	18	5	0	0	0	2	21	6	4	0
BLOEMFONTEIN	63.2	30.1	46.6	+0.4	72.9	23	21.6	16	27	19	13	0	0	0	2	23	3	4	1
FAURESMITH	63.3	29.2	46.2	+1.7	75.1	23	19.4	13	26	23	15	0	0	0	2	22	5	3	1
HARRISMITH	64.6	25.6	45.0	+0.3	74.0	2	17.0	14	29	26	17	0	0	0	1	25	4	2	0
KROONSTAD	67.5	28.0	47.8	+1.3	77.0	22	20.0	17	28	22	15	0	0	0	0	31	0	0	0
LADYBRAND	62.7	32.2	47.4	+1.5	76.0	25	25.0	4	28	14	1	0	0	0	1	25	3	2	1
LINDLEY	64.6	27.3	46.0	+0.8	75.0	24	21.0	15	30	27	16	0	0	0	1	26	3	2	0

TABEL 1 : TEMPERATUUR EN BEWOLKTHEID : JULIE 1940.
TABLE 1 : TEMPERATURE AND CLOUDINESS : JULY 1940.

Resultate van waarnemings om 0830 S.A. Standaard Tyd.
Results of observations at 0830 S. A. Standard Time .

STASIE STATION	LUG TEMPERATURE IN °F : AIR TEMPS. IN °F.								AANTAL DAE: NO. DAYS						BEWOLKTHEID: CLOUDINESS				
	Gem. Mean Max.	Gem. Mean Min.	Gem. Mean	Vers. Diff Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Onder Min. Below: 37	32	27	Max. Bo Max. Ab.: 90	95	100	Gem. Mean	Aantal dae: No. day 0-1	2-5	6-9	10
TRANSVAAL:																			
BARBERTON	71.6	48.1	59.8	-0.5	87.4	1	41.0	6	0	0	0	0	0	0	2	20	4	6	1
BELFAST	68.8	26.4	42.6	+0.1	73.0	1	18.0	10	31	28	16	0	0	0	1	25	2	2	2
BREMLO	62.6	32.9	47.8	+0.8	76.0	24	26.0	14	24	13	2	0	0	0	2	24	2	3	2
BERMISTON LUG.	63.3	37.2	50.2	+0.3	74.0	22	31.0	9	18	2	0	0	0	0	1	25	4	1	1
HEIDELBERG	65.9	27.6	46.8	+1.0	77.0	24	20.5	10	30	24	15	0	0	0	2	25	2	1	3
HOUBERT PARK	63.0	38.9	51.0	+1.8	73.3	22	31.0	9	14	1	0	0	0	0	1	24	5	1	1
KLERKSDORP	67.7	31.5	49.6	-0.4	77.9	22	22.2	17	25	16	9	0	0	0	1	26	4	0	1
KOPJE ALLEEN	70.5	34.6	52.6	-0.9	79.0	1	29.0	14	25	8	0	0	0	0	1	23	6	2	0
L. TRICHARDT	68.7	41.5	55.1	-0.8	85.0	1	34.0	15	6	0	0	0	0	0	4	18	0	7	6
MESSINA	74.9	50.2	62.6	-0.6	87.2	3	44.2	19	0	0	0	0	0	0	2	21	6	2	2
MIDDELBURG	65.5	27.0	46.2	-1.2	75.0	1	20.0	10	31	27	16	0	0	0	2	20	7	4	0
NYLSTROOM	70.5	32.9	51.7	-0.2	80.0	1	28.0	10	28	13	0	0	0	0	1	27	3	1	0
PIETERSBURG	67.6	33.0	50.3	-1.8	81.8	1	26.3	18	24	16	2	0	0	0	2	22	4	3	2
PIET RETIEF	68.3	36.6	52.6	-0.4	84.0	1	26.5	5	21	10	1	0	0	0	2	22	2	5	1
PILGRIMS REST	66.0	33.5	49.8	-1.8	82.6	1	26.6	10	26	12	1	0	0	0	2	21	6	4	0
POTCHEFSTROOM	67.3	30.3	48.8	+0.3	77.5	22	21.5	17	28	18	10	0	0	0	1	26	5	0	0
PRETORIA	66.4	35.2	50.8	-0.3	74.0	1	27.3	10	19	10	0	0	0	0	1	27	2	2	0
RUDA MARIA	74.6	51.9	63.2	-	86.0	3	47.0	7	0	0	0	0	0	0	4	16	5	5	5
RUSTENBURG	71.4	33.5	52.4	+0.2	78.0	1	28.0	17	22	11	0	0	0	0	2	22	4	2	1
SEKUKUNILAND	67.2	44.5	55.8	+0.6	75.0	1	38.0	10	0	0	0	0	0	0	1	24	6	1	0
STANDERTON	65.5	26.8	45.6	-0.1	79.0	31	19.0	10	30	27	17	0	0	0	2	22	4	5	0
WALHARTZ	68.7	30.1	49.4	+0.8	76.8	22	21.5	17	25	18	13	0	0	0	2	22	5	3	1
WAKKERSTROOM	62.6	25.3	44.0	-0.3	74.0	25	17.3	10	30	26	19	0	0	0	1	25	3	1	2
WEBRUST	69.2	32.9	51.0	+0.8	78.0	1	25.0	10	24	14	1	0	0	0	1	23	5	3	0
NATAL:																			
DUNDEE	66.9	35.4	51.2	±0.0	78.2	24	28.8	5	20	10	0	0	0	0	3	17	4	4	6
DURBAN LUGHAWE	72.5	49.8	61.2	-0.4	86.6	1	43.3	27	0	0	0	0	0	0	2	21	4	5	1
EMPANGENI	73.8	50.3	62.0	-0.2	85.0	30	42.0	27	0	0	0	0	0	0	2	19	6	4	2
ESHOWE	70.5	49.6	60.0	-1.3	85.0	31	42.0	5	0	0	0	0	0	0	2	12	10	3	0
ESCOURT	66.2	35.6	50.9	+1.2	78.5	24	26.5	6	17	6	2	0	0	0	2	23	2	5	1
LADYSMITH	67.6	35.3	51.4	-0.3	80.0	24	28.0	6	22	15	0	0	0	0	2	22	2	5	2
NEWCASTLE	70.1	47.9	59.0	±0.0	85.3	24	38.5	5	0	0	0	0	0	0	4	17	2	11	1
NOTOTINI	76.3	50.6	63.5	-1.4	87.0	30	44.0	19	0	0	0	0	0	0	3	13	10	3	1
PIETERMARITZBURG	71.1	42.1	56.6	+0.4	85.4	24	32.2	5	3	0	0	0	0	0	2	22	2	6	1
PORT SHEPSTONE	71.1	52.1	61.6	+0.5	80.0	27	44.5	26	0	0	0	0	0	0	2	20	4	7	0
RYKEID	69.9	41.7	55.8	+0.4	81.4	22	31.6	5	9	1	0	0	0	0	2	22	2	2	5
WEENEN	69.6	33.0	51.3	+0.3	83.0	24	28.0	16	25	15	0	0	0	0	2	21	6	0	4
BETSJOEANALAND: BECHUANALAND:																			
MAFIKGATLONG	74.7	33.7	54.2	-1.2	84.0	21	28.0	17	24	13	0	0	0	0	1	26	1	0	3
MAHERONES	71.2	34.9	53.0	+0.1	79.0	21	28.0	11	22	6	0	0	0	0	2	21	7	1	2
MAHALAPYE	72.5	36.9	54.7	-0.1	83.0	21	31.0	7	15	1	0	0	0	0	1	25	3	1	2
SEDONG	72.1	32.4	52.2	-	83.0	22	22.5	17	22	16	9	0	0	0	2	23	3	5	0
STASIELAND : SWAZILAND:																			
BABANE	65.0	40.7	52.8	-0.7	80.0	1	32.0	15	9	0	0	0	0	0	1	23	4	2	2
PEGI	69.4	48.0	58.7	-0.4	82.0	1	40.0	5	0	0	0	0	0	0	2	19	6	6	0
BASOETOLAND: BASUTOLAND:																			
BUTHA BUTHE	62.3	27.4	44.8	-0.3	70.0	23	24.0	17	31	28	15	0	0	0	0	29	1	1	0
MASERU	61.8	31.9	46.8	+1.7	71.0	23	24.0	4	24	16	5	0	0	0	1	20	10	1	0
MOHASNEK	59.8	33.4	46.6	+1.3	70.5	24	22.0	5	22	15	2	0	0	0	2	19	9	3	0
QUTHING	61.9	32.8	47.4	+2.1	72.0	23	24.0	4	23	15	2	0	0	0	1	23	5	3	0

TABEL II : NEERSLAG IN DUIME : JULIE 1940.
TABLE II : PRECIPITATION IN INCHES: JULY 1940.

STASIE STATION	JUL. 1940	NORM.	VERS. DIFF.	%	MAX. HVD. AMT. IN 24U	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	VERSAMELDE NEERSLAG FROM 1.1.1940 VANAF 1.1.1940 % VAN NORM.	% OF NORM.
KAAPPROVINSIE: SOMERREENSTREEK:													
CAPE PROVINCE: SUMMER RAINFALL AREA:													
ABERDEEN WEG	1.10	0.36	+0.74	306	1.10	31	1	1	0	0	0	99	
ALIWAL NOORD	0.40	0.41	-0.01	98	0.40	31	1	1	1	0	0	131	
BARMOEDSVLAKTE	0.00	0.21	-0.21	0	0.00	0	0	0	0	0	0	109	
BEAUFORT WES	0.78	0.43	+0.35	181	0.74	30	3	1	1	0	0	100	
BRANDVLEI	0.07	0.36	-0.29	19	0.07	30	1	1	-	0	-	52	
BRITSTOWN	0.73	0.28	+0.45	261	0.80	30	4	4	0	0	0	78	
CALA	0.27	0.57	-0.30	47	0.27	31	1	1	0	0	0	119	
CARNARVON	0.31	0.25	+0.06	124	0.29	30	2	1	0	0	4	121	
CATHCART	0.00	0.83	-0.83	0	0.00	0	0	0	0	0	0	79	
CRADOCK	0.63	0.31	+0.32	204	0.59	31	3	1	0	0	0	185	
DORDRECHT	0.37	0.60	-0.23	62	0.37	31	1	1	0	0	0	125	
FRASERBURG	0.13	0.37	-0.24	35	0.13	30	1	1	0	0	0	89	
GOODHOUSE	0.03	0.18	-0.15	17	0.02	24	2	0	0	0	1	104	
GRAAFF REINET	0.99	0.55	+0.44	180	0.99	31	1	1	0	0	0	151	
GRAHAMSTOWN	1.17	1.05	+0.12	111	0.73	3	3	2	0	0	0	124	
GROOTFONTEIN	0.32	0.37	-0.05	87	0.27	31	3	1	0	0	0	131	
HANOVER	0.76	0.29	+0.47	262	0.76	30	1	1	1	1	0	152	
HOPETOWN	0.59	0.27	+0.32	218	0.31	31	4	4	1	0	0	85	
IDUTYWA	0.47	0.86	-0.39	55	0.47	31	1	1	0	0	1	138	
KENHARDT	0.11	0.23	-0.12	48	0.11	30	1	1	0	0	0	76	
KIMBERLEY	0.00	0.26	-0.26	0	0.00	0	0	0	0	0	0	103	
KINGWILLIAMSTOWN	0.87	1.12	-0.25	78	0.83	31	2	2	-	-	-	103	
KOKSTAD	0.08	0.74	-0.66	11	0.08	31	1	1	1	0	0	70	
KURUMAN	0.05	0.22	-0.17	23	0.05	31	1	1	1	0	0	118	
MACLEAR	0.09	0.72	-0.63	13	0.09	31	1	1	0	0	0	75	
MAFEKING	0.00	0.21	-0.21	0	0.00	0	0	0	0	0	0	162	
MATJESFONTEIN	0.11	0.76	-0.65	14	0.11	14	1	1	0	0	0	110	
NELSPOORT	1.27	0.34	+0.93	374	0.82	30	3	3	2	0	0	-	
NOOS LONDEN	1.42	1.87	-0.45	76	0.67	31	3	3	1	0	0	96	
PELLA	0.00	0.09	-0.09	0	0.00	0	0	0	0	0	0	215	
PHILIPSTOWN	0.70	0.30	+0.40	234	0.40	31	3	3	1	0	0	97	
PORT ST. JOHNS	0.28	2.52	-2.24	11	0.16	31	4	3	1	0	0	65	
POSTMASBURG	0.28	0.20	+0.08	140	0.28	30	1	1	0	0	0	113	
PRIESKA	0.24	0.23	+0.01	104	0.24	30	1	1	0	0	7	74	
PRINS ALBERT WEG	0.00	0.24	-0.24	0	0.00	0	0	0	0	0	0	126	
QUEENSTOWN	0.38	0.58	-0.20	66	0.36	31	2	1	1	0	0	127	
RIETBRON	1.16	0.34	+0.82	341	0.95	30	2	2	0	0	0	123	
RIETFONTEIN	0.00	0.15	-0.15	0	0.00	0	0	0	0	0	0	104	
SOMERSET OOS	1.85	0.84	+1.01	220	1.32	31	3	2	0	0	0	106	
STEYNSBURG	0.43	0.37	+0.06	116	0.43	31	1	1	-	0	0	99	
STUTTERVILLE	0.93	0.41	+0.52	227	0.50	30	2	2	0	0	0	91	
UMTATA	0.38	0.74	-0.36	51	0.38	31	1	1	0	0	0	86	
UPINGTON	0.07	0.14	-0.07	50	0.07	30	1	1	2	0	0	92	
VAALBOSCHHOEK	0.00	0.19	-0.19	0	0.00	0	0	0	0	0	0	149	
VAN WYKSVLEI	0.20	0.26	-0.06	77	0.17	30	3	1	1	0	1	111	
VICTORIA WES	0.57	0.26	+0.31	220	0.52	31	2	2	-	0	-	101	
WILLISTON	0.05	0.41	-0.36	12	0.05	30	1	1	1	0	0	111	
BASOETOLAND : BASUTOLAND:													
BUTHA BUTHE	0.00	0.58	-0.58	0	0.00	0	0	0	0	0	0	90	
MAFETENG	0.34	0.55	-0.21	62	0.34	7	1	1	-	-	-	83	
MASERU	0.30	0.49	-0.19	61	0.21	31	2	2	1	0	0	82	
MOHALESHOEK	0.47	0.55	-0.08	85	0.46	31	2	1	1	0	3	93	
MOKHOTLONG	0.00	0.40	-0.40	0	0.00	0	0	0	0	0	0	100	
QACHASNEK	0.00	0.59	-0.59	0	0.00	0	0	0	0	0	0	59	
QUTHING	0.60	0.63	-0.03	95	0.60	31	1	1	0	0	0	108	

TABEL II : NEERSLAG IN DUIME : JULIE 1940.
TABLE II : PRECIPITATION IN INCHES: JULY 1940.

STASIE STATION	JUL. 1940	NORM.	VERS. DIFF.	%	MAX. HVD. AMT. IN 24U	DAT. DATE	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H.	S.	YERSAMELDE NEERSLAG VANAF 1.1.1940 % VAN NORM.	FROM % OF NORM.
KAAPPROVINSIE : WINTERREENSTREEK:													
CAPE PROVINCE : WINTERRAINFALL AREA													
CALEDON	1.60	2.73	-1.13	59	0.51	30	9	6	0	0	0		107
CALVINIA	0.25	1.05	-0.80	24	0.10	23	3	3	0	0	0		133
CERES	5.09	6.26	-1.17	81	1.33	24	7	7	0	0	0		109
CLANWILLIAM	0.34	1.34	-1.00	25	0.19	23	4	3	0	0	0		76
DARLING	1.74	3.11	-1.37	56	0.60	23	11	9	0	0	0		116
GARIES	0.27	0.67	-0.40	40	0.11	31	3	3	0	0	0		90
GROOT DRAKENS.	3.30	5.28	-1.98	63	1.13	24	8	7	0	0	0		109
KAAP AGULHAS	2.12	2.22	-0.10	96	0.55	30	10	9	0	0	0		173
KLAVER	0.19	1.20	-1.01	16	0.07	23	4	3	0	0	0		69
MATROOSBERG	0.35	1.56	-1.21	22	0.14	30	4	3	0	0	0		90
O'OKIEP	0.21	0.86	-0.65	24	0.09	24	4	3	0	0	0		77
PIKETBERG	0.93	2.70	-1.77	34	0.61	30	4	4	0	0	0		92
PORT NOLLOTH	0.39	0.35	+0.04	111	0.34	30	3	1	0	0	0		71
RIETPOORT	0.25	0.91	-0.66	27	0.13	23	3	3	0	0	0		65
SUTHERLAND	0.52	1.13	-0.61	46	0.28	23	3	2	0	0	0		-
WORCESTER	0.39	2.02	-1.63	19	0.31	24	2	2	0	0	0		68
WINGFIELD	1.96	2.35	-0.39	83	0.54	23	10	7	0	0	0		167
STREEK MET REEN DWARSDEUR DIE JAAR:													
ALL-SEASONS RAINFALL AREA:													
DEEPWALLS	2.51	3.20	-0.69	78	0.89	3	6	6	1	0	0		106
GEORGE	1.23	1.86	-0.63	66	0.63	3	5	4	0	0	0		111
HUMANSDORP	2.25	2.30	-0.05	98	0.64	30	5	5	0	0	0		100
LADISMITH	0.46	1.13	-0.67	41	0.25	30	3	3	0	0	0		112
MOSSEL BAY	0.61	1.65	-1.01	39	0.20	3	6	5	0	0	0		125
OUDTSHOORN	0.40	0.60	-0.20	67	0.36	31	3	1	1	0	0		120
PORT ELIZABETH	1.23	2.04	-0.81	60	0.62	3	9	5	2	0	0		85
RIVERSDAL	0.34	1.49	-1.15	23	0.09	30	5	5	0	0	0		105
SWELLENDAM	1.24	2.14	-0.90	58	0.62	30	6	5	0	0	0		107
SYDNEY'S HOPE	0.66	1.33	-0.67	50	0.57	4	4	2	0	0	0		92
TWEE RIVIERE	2.44	1.19	+1.25	205	1.36	3	2	2	0	0	0		103
UITENHAGE	1.05	1.18	-0.13	89	0.56	4	4	3	0	0	0		84
UNIONDALE	1.20	0.98	+0.22	122	0.88	30	5	3	1	0	0		114
WILLOWMORE	1.42	0.56	+0.86	254	1.42	30	1	1	1	0	0		-
O.V.S. : O.F.S.:													
BETHULIE	0.00	0.42	-0.42	0	0.00	0	0	0	0	0	0		93
BLOEMFONTEIN	0.25	0.35	-0.10	71	0.25	31	1	1	0	0	0		86
BOSHOF	0.00	0.33	-0.33	0	0.00	0	0	0	0	0	0		96
EDENBURG	0.00	0.31	-0.31	0	0.00	,0	0	0	0	0	0		127
FAURESMITH	0.40	0.28	+0.12	143	0.25	31	2	2	1	0	0		127
HARRISMITH	0.00	0.40	-0.40	0	0.00	0	0	0	0	0	0		-
HEILBRON	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0		90
KROONSTAD	0.00	0.31	-0.31	0	0.00	0	0	0	0	0	1		75
LADYBRAND	0.42	0.43	-0.01	98	0.33	31	2	2	0	0	0		81
LINDLEY	0.07	0.31	-0.24	23	0.07	31	1	1	0	0	0		96
PETRUSBURG	0.25	0.29	-0.04	86	0.25	31	1	1	-	0	0		122
REITZ	0.00	0.41	-0.41	0	0.00	0	0	0	0	0	0		90
VREDE	0.00	0.34	-0.34	0	0.00	0	0	0	0	0	0		108
WEPENER	0.48	0.47	+0.01	102	0.21	31	2	2	1	0	0		93
WINBURG	0.12	0.32	-0.20	38	0.12	31	1	1	-	0	0		95
SWASIELAND : SWAZILAND:													
BHLATIKULU	0.00	0.74	-0.74	0	0.00	0	0	0	0	0	0		89
MBABANE	0.00	0.90	-0.90	0	0.00	0	0	0	0	0	0		98
STEGI	0.00	0.59	-0.59	0	0.00	0	0	0	0	0	0		150

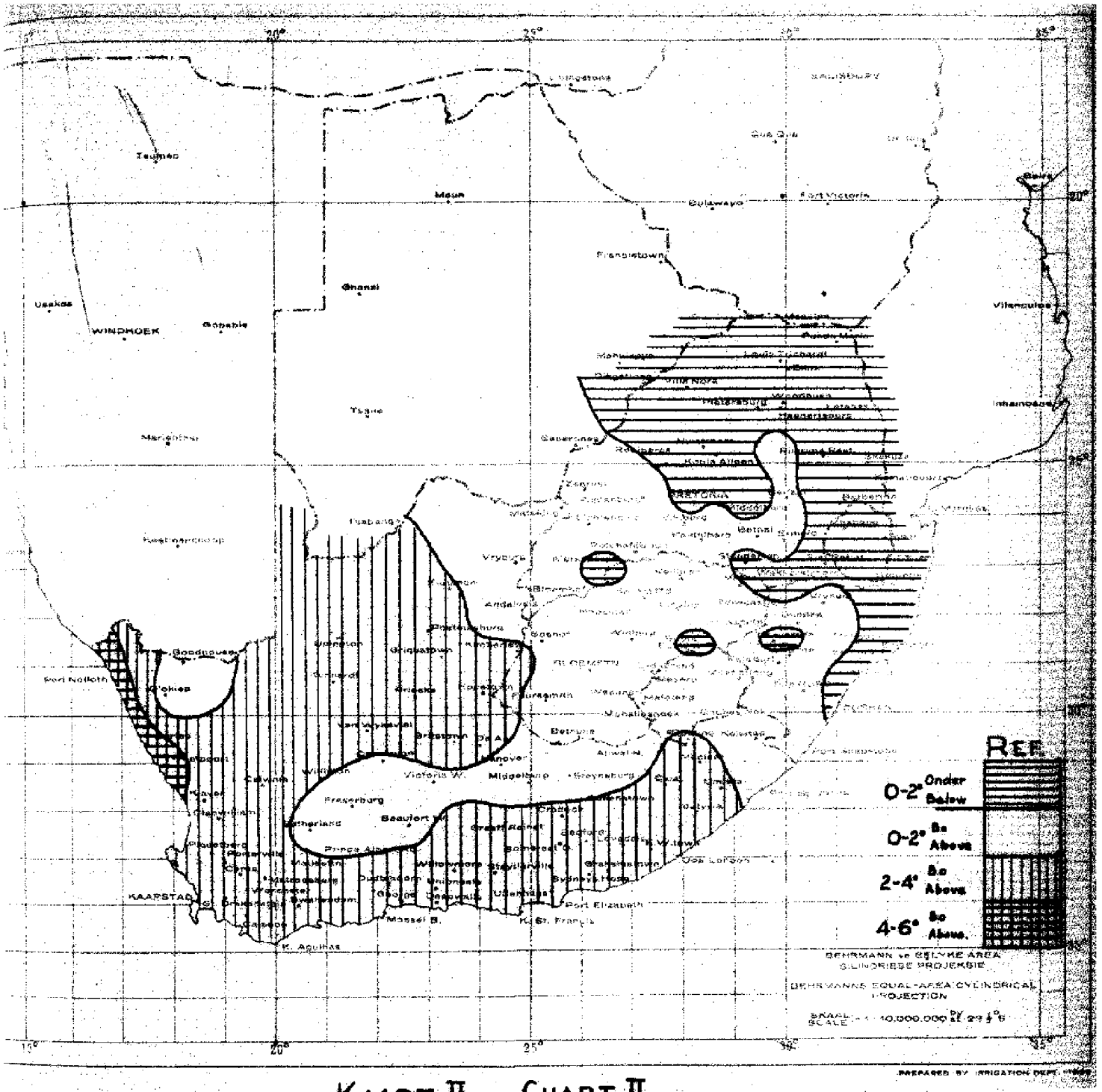
TABEL II : NEERSLAG IN DUIME : JULIE 1940.
TABLE II : PRECIPITATION IN INCHES : JULY 1940.

STASIE STATION	JUL. 1940	NORM.	VERS. DIFF.	%	MAX. HVD. AMT. IN 24U	DATE DAT.	AANTAL DAE: NO. OF DAYS 0.01" of meer	0.04" or more	TH.	H. ▲	S. ✱	VERSAMELDE NEERSLAG: VANAF 1.1.1940 FROM 1.1.1940 % VAN NORM. OF NORM.
TRANSVAAL:												
BARBERTON	0.00	0.42	-0.42	0	0.00	0	0	0	0	0	0	121
BELFAST	0.00	0.34	-0.34	0	0.00	0	0	0	0	0	0	116
BETHAL	0.00	0.34	-0.34	0	0.00	0	0	0	0	0	0	107
BLOEMHOF	0.00	0.30	-0.30	0	0.00	0	0	0	0	0	0	99
BLIM HOSPITAAL	1.77	0.50	+1.27	354	1.40	12	2	2				112
BRMELO	0.03	0.38	-0.35	8	0.01	5	3	0	0	0	0	115
GERMISTON	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0	88
GROEN RIVIER	0.00	0.23	-0.23	0	0.00	0	0	0	0	0	0	110
HEIDELBERG	0.01	0.32	-0.31	3	0.01	31	1	0	0	0	0	109
JOUBERT PARK	0.00	0.49	-0.49	0	0.00	0	0	0	0	0	0	84
KLERKSDORP	0.00	0.32	-0.32	0	0.00	0	0	0	0	0	0	69
KOMATIPOORT	0.00	0.44	-0.44	0	0.00	0	0	0	0	0	0	
KOPJE ALLEEN	0.00	0.27	-0.27	0	0.00	0	0	0	0	0	0	103
LETABA	0.04	0.29	-0.25	14	0.04	8	1	1	0	0	0	91
LICHTENBURG	0.00	0.29	-0.29	0	0.00	0	0	0	0	0	0	121
LOUIS TRICHARDT	0.09	0.68	-0.59	13	0.09	11	1	1	0	0	0	100
MESSINA	0.00	0.17	-0.17	0	0.00	0	0	0	0	0	0	71
MIDDELBURG	0.00	0.33	-0.33	0	0.00	0	0	0	0	0	0	106
NYLSTROOM	0.00	0.27	-0.27	0	0.00	0	0	0	0	0	0	106
PIETERSBURG	0.00	0.23	-0.23	0	0.00	0	0	0	0	0	0	112
PIET RETIEF	0.00	0.52	-0.52	0	0.00	0	0	0	0	0	0	96
PILGRIMS REST	0.00	0.67	-0.67	0	0.00	0	0	0	0	0	0	73
POTCHEFSTROOM	0.00	0.31	-0.31	0	0.00	0	0	0	0	0	0	84
POTGIETERSRUS	0.00	0.24	-0.24	0	0.00	0	0	0	0	0	0	108
PRETORIA	0.00	0.38	-0.38	0	0.00	0	0	0	0	0	0	66
PUNDA MARIA	0.11	0.37	-0.26	30	0.11	9	1	1	0	0	0	123
ROOIBERG	0.00	0.26	-0.26	0	0.00	0	0	0	0	0	0	141
RUSTENBURG	0.00	0.30	-0.30	0	0.00	0	0	0	0	0	0	81
SEKUKUNILAND	0.00	0.23	-0.23	0	0.00	0	0	0	0	0	0	86
STANDERTON	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0	77
VAALHARTZ	0.11	0.18	-0.07	61	0.11	31	1	1	1	0	0	123
VILLA NORA	0.00	0.20	-0.20	0	0.00	0	0	0	0	0	0	68
WAKKERSTROOM	0.00	0.51	-0.51	0	0.00	0	0	0	0	0	0	110
WOODBUSH	0.13	1.09	-0.96	12	0.06	5	4	2	0	0	0	85
ZEERUST	0.00	0.15	-0.15	0	0.00	0	0	0	0	0	0	104
NATAL:												
DUNDEE	0.20	0.41	-0.21	49	0.13	31	2	2	0	0	0	111
DURBAN	0.12	1.36	-1.24	9	0.05	31	3	2	0	0	0	88
EMPANGENI	0.51	1.81	-1.30	28	0.43	3	4	2	0	0	0	150
ESHOWE	0.06	1.44	-1.38	4	0.04	18	2	1	0	0	0	149
ESTCOURT	0.12	0.41	-0.29	29	0.12	31	1	1	1	1	0	
HIMEVILLE	0.00	0.60	-0.60	0	0.00	0	0	0	0	0	0	110
KRANSKOP	0.04	0.75	-0.71	5	0.04	31	1	1	0	0	0	149
LADYSMITH	0.00	0.46	-0.46	0	0.00	0	0	0	0	0	0	76
LANDSDOWNE	0.10	1.25	-1.15	8	0.07	3	2	1	0	0	0	123
MELMOTH	0.01	0.71	-0.70	1	0.01	8	1	0	1	0	0	116
OTOBOTINI	0.00	0.48	-0.48	0	0.00	0	0	0	0	0	0	154
PIETERMARITZBURG	0.07	0.61	-0.54	11	0.07	31	1	1	0	0	0	102
PORT SHEPSTONE	0.09	1.58	-1.49	6	0.09	17	1	1	0	0	0	73
STANGER	0.15	1.22	-1.07	12	0.06	17	4	2	1	0	0	115
UMZIMKULU	0.00	0.51	-0.51	0	0.00	0	0	0	0	0	0	115
VRYHEID	0.00	0.48	-0.48	0	0.00	0	0	0	0	0	0	113
WEENEN	0.00	0.27	-0.27	0	0.00	0	0	0	0	0	0	110
BETSJOEANALAND: BECHUANALAND:												
DIKGATLONG	0.00	0.19	-0.19	0	0.00	0	0	0	0	0	0	111
GABERONES	0.00	0.20	-0.20	0	0.00	0	0	0	0	0	0	87
MAHALAPYE	0.00	0.17	-0.17	0	0.00	0	0	0	0	0	0	103
TSABONG	0.00	0.17	-0.17	0	0.00	0	0	0	0	0	0	123

KAART I CHART I

Julie 1940: Gemiddelde Lugdruk (by Seespieël) om 8·30 v.m. Die gebroke lyne dui naasteby die afwyking van die normaal aan.

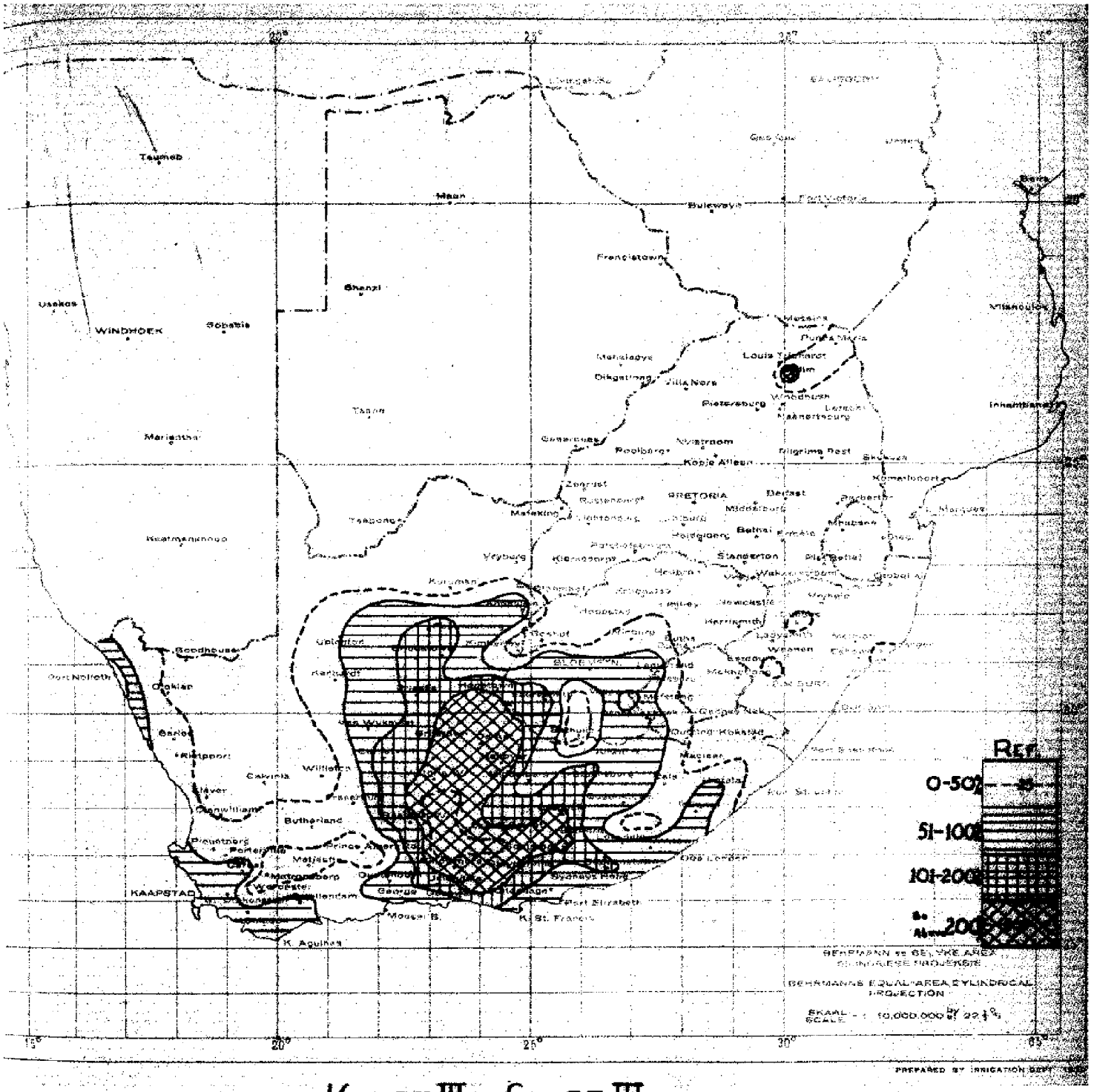
July 1940: Mean Atmospheric Pressure (at M.S.L.) at 8·30 a.m The broken lines represent the departure from the normal pressure for May.



KAART II CHART II

Julie 1940: Gemiddelde Temperatuur – afwyking van die Normaal in °F.

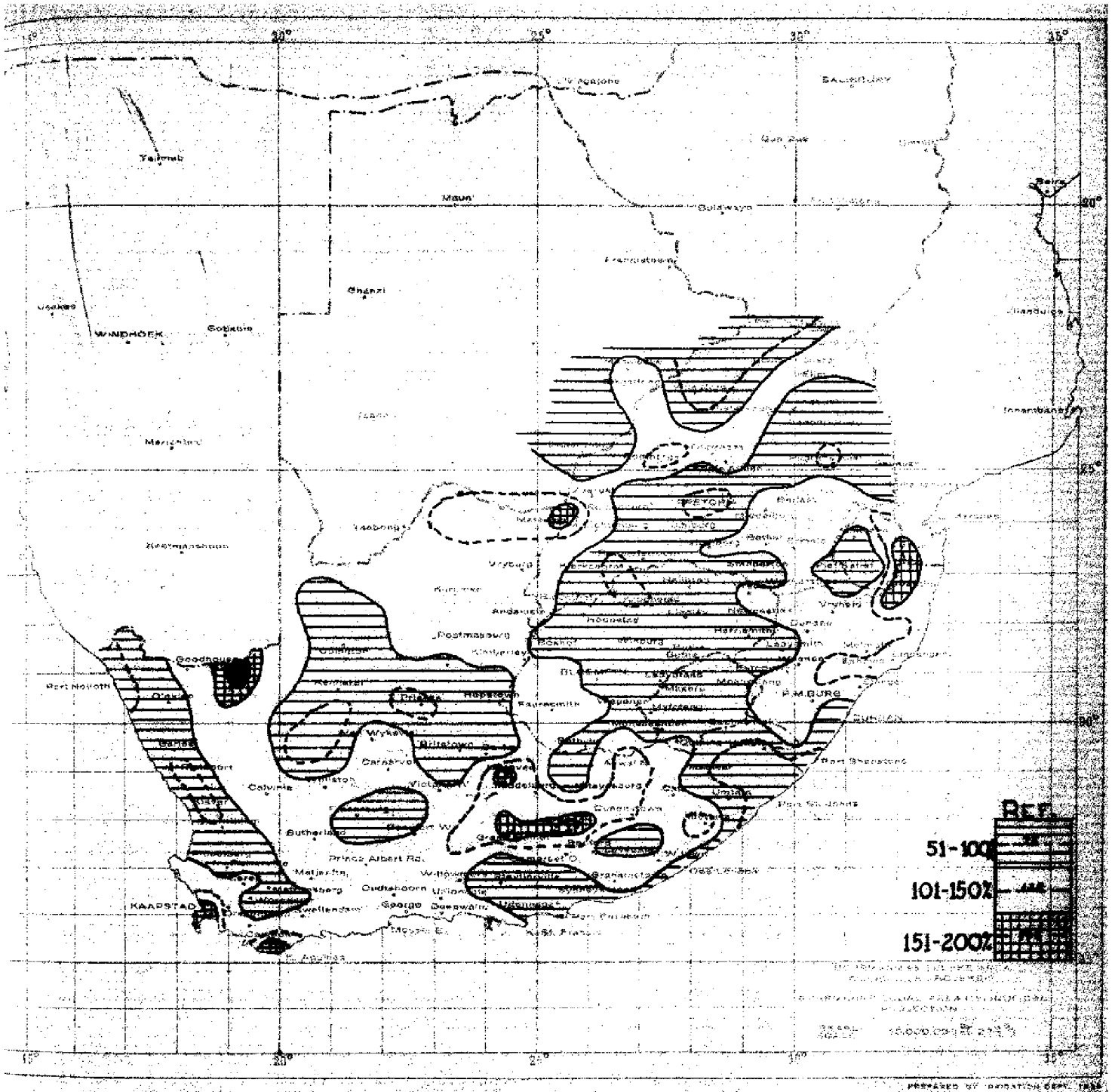
July 1940: Mean Temperature – departure from the Normal in °F.



KAART III CHART III

Julie 1940 : Neerslag aangegee as persentasie van die normaal.

July 1940 : Precipitation shown as percentage of the normal.



KAART IV CHART IV

Versamelde Neerslag: 1ste Jan. 1940 tot 31ste Julie 1940, aangegee as persentasie van die Normaal.

Cumulative Precipitation: 1st Jan. 1940 to 31st July 1940, shown as percentage of the Normal.

U N I O N O F S O U T H A F R I C A

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE.

Vol. XXI AUGUST 1940. No. 8

OUTSTANDING FEATURES:

On the whole a very dry and warm month with much less frost than usual.

ATMOSPHERIC PRESSURE:

The distribution of mean atmospheric pressure is shown on Chart 1. The typical winter-anticyclone over the land is well in evidence. Pressure was about 1.5 millebars above normal over the eastern Union, and about normal on the west coast.

TEMPERATURE:

The departures of mean monthly temperature from the normal, are shown on Chart 11. Mean temperatures were above normal over the whole Union, the largest positive departures (from 4 to 6°F) occurring in the northwestern Cape Province.

The general mean temperature for the Union as a whole was 58.1°F, or 2.8° above normal. The Cape Province, Transvaal, Natal and Free State showed mean temperatures above normal by 3.2°, 2.4° 1.9° and 3.5° respectively.

Both mean maximum and mean minimum temperatures showed similar characteristics, though the former were slightly subnormal in the eastern Transvaal lowveld. For the Union as a whole, the general mean maximum- or day-temperature was 72.5°F, or 2.6° above normal, and the mean minimum, or night-temperature, 43.8°F, being 3.0° above normal.

The warmest periods of the month were the 18th to the 21st, and the 30th and 31st, and the following were the highest maxima registered in each province:- 100.5°F at East London (C.P.) on the 19th; 97.0° at Komatipoort (Tvl.) on the 21st; 89.4° at Pietermaritzburg (N) on the 19th, and 81.0° at Kroonstad (O.F.S.) on the 18th.

The coldest nights occurred on the 1st, 2nd, 12th, 13th, 22nd, 23rd and 24th and the following were the lowest minima registered in each province:- 19.0° at Sutherland (C.P.) on the 1st; 22.5° at Wakkerstroom (Tvl) on the 22nd; 31.0° at Weenen(N) on the 1st, and 20.0° at Harrismith (O.F.S.) on the 2nd.

FROST:

Frost occurred mainly on the interior high plateau on the dates mentioned in the previous paragraph. Compared with the usual conditions in August, there were considerably fewer frost-days, and exceptionally little sharp frost.

PRECIPITATION:

The distribution of precipitation, shown as a percentage of the normal, is roughly shown on Chart III. It will be seen that rainfall was below normal over almost the whole Union.

The only regions with more than the normal quantity of rain were (1) An area covering Sutherland, Matjesfontein, Prince Albert Road, Fraserburg and Victoria West, in the Cape Province; (2) a narrow belt along the southeastern Cape and Natal coastline, and (3) along the main escarpment of the northeastern Transvaal. Over the major portion of the interior Union, precipitation amounted to less than 25% of the normal.

Combining the rainfall data in Table 11 for each province, it is found that the Cape, Orange Free State, Natal and Transvaal show deficits amounting respectively to 62%, 87%, 37% and 51% of their mean normal rainfall. Dividing the Cape Province into its three principal rainfall zones, the summer zone showed a deficit of 62%, the "all seasons" zone (southern Cape coastal belt) a deficit of 72%, and the winter zone a deficit of 56%. For the Union as a whole there was a deficit of 59%.

In the southwestern and southern Cape the weather was unsettled during the following periods: 3rd to 5th, 8th to 9th, 15th to 16th, 20th to 22nd and 26th to 27th; on the whole only light showers and drizzle occurred. Over the summer rainfall area of the Union the weather was mostly fine, with however, some thunderstorms from the 24th to the 26th and again on the 31st; these were confined mainly to the eastern Transvaal, Natal, the eastern Cape and eastern Free State. The surplus rainfall in the southwestern interior Cape Province was mainly due to thunderstorms on the 3rd and 4th.

SNOW:

Snow was noticed on the higher mountain ranges in the eastern and southern Cape on the 1st.

HAIL:

The thunderstorm activity on the 25th was sufficiently intense to give rise to hailstorms which fortunately were not severe enough to cause damage. The following centres reported slight hail:- Benoni (Tvl.), Bloemfontein (O.F.S.), Pretoria, Mohaleshoek (Basutoland), Buffelspoort (Tvl) and Portland (O.F.S.)

THE CUMULATIVE PRECIPITATION:

The cumulative precipitation since the 1st January 1940 was above normal over (1) the greater portion of Natal and the southeastern Transvaal, (2) over the southwestern Free State, (3) over the centre and eastern interior of the Cape Province, (4) along the southwestern and part of the southern Cape coast, and (5) over part of the northwestern and western Transvaal and Bechuanaland. Taking the provinces separately, the Cape, Free State and Transvaal showed deficits amounting in each case to 6% of their normal rainfall whilst Natal showed a surplus of 14%. The 'summer'-, 'all seasons' and 'winter' rainfall zones of the Cape Province showed deficits of 8%, 5% and 4% respectively. For the Union as a whole there was a deficit of 3%.

THE SEASONAL PRECIPITATION:

The seasonal precipitation since July 1st 1940, expressed as a percentage of the normal, is roughly shown on Chart IV. For this period, the Cape Province, Free State, Natal and Transvaal showed deficits of 46%, 76%, 61% and 72% respectively; the 'summer'-, 'all seasons' and 'winter' rainfall zones of the Cape Province showed deficits of 37%, 50% and 50% respectively, whilst for the Union as a whole the deficit amounted to 54% of the normal.

D I E U N I E V A N S U I D - A F R I K A

DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR

Deel XXI | AUGUSTUS 1940 | No.8.

HOOFKENMERKE:

Oor die algemeen 'n baie droë en warm maand met heelwat minder ryp as wat gewoonlik die geval is.

LUGDRUK:

Die gemiddelde lugdrukdistribusie word op Kaart 1 aangedui. Die tipiese winter-antisiklone oor die land is die hoofkenmerk. Die lugdruk was omtrent 1.5 millibars bo normaal oor die oostelike Unie, en omtrent normaal langs die weskus.

TEMPERATUUR:

Die afwykings van gemiddelde maandelikse temperature vanaf die normale, word aangegee op Kaart 11. Die gemiddelde temperature was bo normaal oor die hele Unie, met die grootste positiewe afwykings (4 tot 5°F) oor die noordwestelike Kaapprovinsie.Die algemene gemiddelde temperatuur vir die Unie as geheel was 85.1°F,of 2.8° bo normaal. Die Kaapprovinsie, Transvaal, Natal en Vrystaat het gemiddeldes aangetoon wat onderskeidelik 3.2°, 2.4°, 1.9° en 3.5° bo normaal was.

Die gemiddelde maksimum sowel as die gemiddelde minimum temperatuur, het dergelyke kenmerke aangetoon, hoewel eersgenoemdes ietwat onder normaal was in die oostelike Transvaalse laeveld. Vir die Unie as geheel was die gemiddelde maksimum,(of dag-temperatuur) 72.5°F, of 2.6° bo normaal, en die gemiddelde minimum (of nag-temperatuur)43.8° of 3.0, bo normaal.

Die warmste dae van die maand was:- die 18de tot 21ste, die 30ste en die 31ste, en hier volg nou die hoogste maksima wat in elke provinsie gemeet was:- 100.5°F te Oos Londen (K.P.) op die 19de; 97.0° te Komatipoort (Tvl.) op die 21ste; 89.4° te Pietermaritzburg (N) op die 19de, en 81.0° te Kroonstad (O.V.S.) op die 18de.

Die koudste nagte was die van die 1ste, 2de, 12de, 13de, 22ste,23ste en 24ste. Die volgende was die laagste minima in elke provinsie geregistreer:- 19.0° te Sutherland (K.P.) op die 1ste; 22.5° te Wakkerstroom (Tvl.) op die 22ste;31.0° te Weenen(N) op die 1ste, en 20.0° te Harrismith (O.V.S.) op die 2de.

RYP:

Ryp het hoofsaaklik op die binnelandse hoogplato voorgekom op die datums wat in die vorige paragraaf gemeld word. Vergelyk met gewone kondisies in Augustus, was daar heelwat minder "ryp-dae" en baie min strawwe ryp.

NEERSLAG:

Die distribusie van die neerslag aangegee as 'n persentasie van die normaal, word naasteby aangedui op Kaart 111. Dit is duidelik dat die reënval onder normaal was oor omtrent die hele Unie. Die enigste streke met meer as hulle normale hoeveelheid

reën was (1) 'n streek omvattende Sutherland, Matjesfontein, Prince Albert Weg, Fraserburg en Victoria Wes in die Kaapprovinsie, (2) 'n smal streek langs die Natalse en suidoostelike kus, en (3) langs die kransbergreeks van die noordoostelike Transvaal. Oor die grootste deel van die Unie se binneland het die neerslag minder as 25% van die normaal bedra.

Word die reënval-gegewens in Tabel 11 vir elke provinsie saamgevat,dan vind ons dat die Kaap, Vrystaat, Natal en die Transvaal tekorte aantoon wat onderskeidelik 62%, 87%, 37% en 51% van hulle gemiddelde neerslag beteken. Word die Kaapprovinsie in sy drie vernaamste reënstreke verdeel, dan toon die somerreënstreek 'n tekort van 62%, die streek met reën in alle seisoene (suidelike Kaapse kusstreek) 'n tekort van 72%,en die winterreënstreek 'n tekort van 56%. Vir die Unie as geheel was daar 'n tekort van 59%.

In die suidwestelike en suidelike Kaap was die weer ongestadig gedurende die volgende periodes: 3de tot 5de; 8ste tot 9de; 15de tot 16de; 20ste tot 22ste en 26ste tot 27ste; oor die algemeen het hier net sagte buie en motreën voorgekom. Oor die somerreënstreek van die Unie het hoofsaaklik mooi weer geheers, met egter 'n paar onweersbuie vanaf die 24ste tot die 26ste, en weer op die 31ste; hierdie onweer was hoofsaaklik beperk tot die oostelike Transvaal, Natal, die oostelike Kaapprovinsie en die oostelike Vrystaat. Die suplus reënval in die suidwestelike binneland van die Kaapprovinsie (sien Kaart 111) was te danke aan onweersbuie op die 3de en 4de.

SNEEU:

Sneeu het op die hoëre bergreekse in die oostelike en suidelike Kaapprovinsie gelê op die 1ste.

HAEL:

Die onweerstoestande op die 25ste was hewig genoeg om ligte haelstorms tot gevolg te hê; gelukkig egter, was hulle nie kwaai genoeg om skade te berokken nie. Die volgende oorde het ligte haelstorms gerapporteer:- Benoni (Tvl.), Bloemfontein en Portland (O.V.S.), Pretoria en Buffelspoort (Tvl.) en Mohaleshoek (Basutoeland).

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf 1 Januarie 1940 was bo normaal oor, (1) die grootste deel van Natal en die oostelike Transvaal, (2) die suidwestelike Vrystaat,(3) die sentrale en oostelike binneland van die Kaapprovinsie, (4) langs die suidwestelike en 'n gedeelte van die suidelike Kaapse kus, en (5) oor 'n deel van die noordwestelike en westelike Transvaal en Betsjoanaland. Word die provinsies afsonderlik beskou, dan toon die Kaap, Vrystaat en Transvaal tekorte aan wat in elke geval 6% van hulle normale neerslag bedra, en Natal 'n surplus van 14%. Die somerreënstreek, die streek met reën in alle seisoene, en die winterreënstreek van die Kaapprovinsie het tekorte van onderskeidelik 8%, 5% en 4% gehad. Vir die Unie as geheel was daar 'n tekort van 3%.

DIE SEISOEN NEERSLAG:

Die seisoen neerslag vanaf 1 Julie 1940, aangegee as 'n persentasie van die normaal, word naasteby aangetoon op Kaart IV. Vir hierdie periode het die Kaapprovinsie, die Vrystaat, Natal en die Transvaal tekorte van onderskeidelik 46%, 76%, 61% en 72% gehad; die somerreënstreek van die Kaapprovinsie het 'n tekort van 37% getoon,die streek met reën in alle seisoene 'n tekort van 50%, en die winter-reënstreek 'n tekort van 50%, terwyl die reënval vir die Unie as geheel beskou, met 54% tekort geskiet het.

OBSERVERS' NOTES FOR AUGUST 1940.
AANTEKENINGE VAN WAARNEMERS VIR AUGUSTUS 1940.

MODDERPOORT(LADYBRAND): A very dry month, no rain fell at all. Temperatures slightly above normal. The days were warm and sunny. On the 25th there were thunderstorms in the distance. John W. Edolls.

QUEENSTOWN: An unusually dry month even for August. No rain fell during the month. Prevailing winds were from NW and reached gale force on the 9th. Visibility throughout the month was excellent. Sr M Joseph.

KROONSTAD SOMERGEWAS: Augustus was 'n droe maand en min sterk wind het gewaai. 0.02" is aangeteken op 1 dag. Dit is egter te min vir die gesaaides. D J. van den Berg.

ESTCOURT: With the exception of a short thunderstorm on the 25th, the month was dry calm and bright. 0.17" fell on 2 days. W. Lamprechts.

BENONI: Mild weather, long hours of sunshine and a fall of hail have been the outstanding features this month. 0.05" were recorded during the month. L.L. Carter.

LOSKOP IRRIGATION WORKS: Temperatures varied between 85.1°F and 45.7°F. Rain fell on two days, totalling 0.38". Very hazy weather and a few windy days. Resident Engineer.

DRAKENSBERG GARDEN HOTEL: Generally clear with sunny days. Nights warm and no frost. Wind slight. No rain fell during the month. Ground very dry. The Manager.

HARTEBEESPOORT PROEFSTASIE: 'n Stil onbewolkte maand met warm dae. Die koue van die nag te het ook afgeneem. Geen reën is aangeteken nie. Die Verantwoordelike Amptenaar.

PORT SHEPSTONE: The weather during the month has been fine and bright. Temperatures mild. A considerable amount of haze, more especially in early mornings and late afternoons. On 4 days 1.67" were recorded. The Lightkeeper.

BALFOUR: The month was very hot and dry. No rain fell at all. Strong winds were registered during day times. E.W. Hulse.

PRETORIA FARM(PIETERSBURG): Temperatures higher than usual in August, in spite of the number of cloudy days with slight rain. 0.24" fell on 6 days. R. Bendall.

KRUGERSDORP(CORONATION PARK): August was an average month, except for the almost entire absence of the usual winds. The mean average temperature was 2°F above the average temperature for the past 31 years. Rainfall was well below the average. 0.26" fell on 3 days. Walter W. Webster.

WEPENER: A dry and warm month with three cold nights, viz. the 22nd, 23rd and 24th. 0.02" fell on 1 day, the result of a thunderstorm on the 25th. W.T.E. Kemm F.R.M.S.

CRADOCK: This month has been very dry. No rain fell. Fairly cold during nights and mornings, but hot during the days. Some days windy and dusty. B. van der Merwe.

WILLOWMORE: Gedurende die laaste paar dae van die maand was dit warm, en sommige dae was baie winderig en stowwerig. Geen reën is aangeteken nie. J.L. Strydom.

QUTHING: Practically dry during the month, and the spell broken on the 25th, when rain registering 0.13" was recorded. D.A. Emmanuel Taabe.

SANDFLATS (MOUNT CURRIE): Further periods of a high barometer. Temperatures in day times mostly temperate to summery heat at times. Frosts mostly light. Continued haze, caused by veld fires. Some early mornings fogs. Winds light to moderate and changeable, increasing from west towards end of the month. No rain fell and very dry. Hewson B. Corderoy.

POTCHEFSTROOM: The month was characterised by the strong north and northwesterly winds. Except for a rise in temperature, wich caused an early spring, general weather conditions kept steady and calm throughout the month. 0.17" fell on 1 day. B.D. Saayman.

FAURESMITH VELDRESERWE: Oor die algemeen was die maand taamlik warm, die sterk winde waarvoor Augustus bekend is, het slegs 'n paar keer voorgekom. Baie droog. Geen neerslag gedurende die maand nie. A.J. v.d. Walt

UPINGTON: Gematig tot warm gedurende die hele maand. Kwaai ryp op die 2de en 3de. Geen reën of donderstorms het gedurende die maand voorgekom nie. Sterk aanhoudende noordewinde gedurende die eerste helfte van die maand, en ook weer op die laaste twee dae. S. Malan.

NEWCASTLE: August was a mild month. There was little wind for that time of the year. At the beginning of the month there were mists in the early mornings, but these cleared up after a few hours. Total rainfall was 0.03" on the 28th. Sr. M. Scholastica.

VAALHARTZ IRRIGATION WORKS: The weather during the month was excellent. Only on one day was the sky overcast; for the rest very little cloud. Very little wind. Only on one day the wind exceeded a gentle breeze. No rain feel during the month. The Resident Engineer.

FRAAIUITZICHT(SENEKAL): Die klimaat gedurende die maand was baie dor. Die weer was baie belowend op die 25ste, maar geen reën is toe of gedurende die maand aangeteken nie. J.D. Kirchner.

MATROOSBERG: Winds with light occasional gustiness. Rainfall 0.35" on 4 days. End of month marked by almost entire absence of clouds. The Meteorological Assistant.

KOPJE ALLEEN(NYLSTROOM): Both day and night temperatures were above normal. There were seven ground frosts in the first half of the month. There was an almost total absence of wind. Duststorms were wholly absent this year. Only one slight shower fell during the month, viz: 0.01" on the 24th. The rainfall was well below normal. J. Lyall Soutter. F.R.M.S.

CARNARVON: Gedurende Augustus het 0.14" op 1 dag geval, wat min of meer die gemiddelde vir die maand is. Die gewone sterk noordewind het nie gewaai nie en dit kan moontlik gedurende September verwag word as dit nie reën nie. Jac. P. van Wyk.

GROOTFONTEIN LANDBOUKOLLEGE: Baie droog; groot variasie in klimaat. Van warm dae en nagte met sterk winde tot wintersdae met koue nagte en ryp. Geen reën is aangeteken nie. W. v.d. Merwe.

DARLING: Precipitation mostly in the form of fortuitous chilly drizzle which following upon the previous six weeks, hardly relieved the generally droughty conditions. 1.31" fell on 10 days. P.H. Drake.

LOVEDALE: Temperatures were one or two degrees above normal all round. Rainfall very slight, practically negligible. 0.11" fell on 4 days. Charles A. Pilson.

SILENT(PAARL): Rather warm month, causing early opening of buds. Rainfall mostly in the form of light showers. 2.00" were recorded on 7 days. R.W. Short.

ATHOLE NAVORSINGSTASIE: Oor die algemeen was die dae baie warm met min wolke, baie sonskyn en baie wind. Geen reën is aangeteken nie. A.H. du Plessis.

BOULDERS(BARBERTON): Mild and balmy weather with an occasional light drizzle, falling at night after a few hours of sultry heat. 0.86" fell on 4 days. N. Cordes.

MOUNT EDGECOMBE: The total rainfall for the month was 0.21", which fell on 3 days. The rainfall is well below normal for August. In generally the temperatures were above normal. There were five mornings on which the sky was overcast, and sixteen mornings on which it was completely free from clouds. The Director. Sugar Experiment Station.

ZEERUST: Die dae was oor die algemeen warm en die nagte koud. Baie weerligte is gesien vanaf die 24ste, maar geen reen is aangeteken nie. Die nag van 1 Augustus het die kwik to 26°F gedaal, wat die koudste nag was. C.H Korf.

TABORA(LINDLEY): Fine and dry weather during the whole month. Total absence of usual August westerly sandstorms. 0.12" fell on 1 day. A. Kern.

EMERALD DALE: The month was fairly mild, not much frost. Total rainfall on 3 days was 0.15". Rain needed. Max Anderson.

KIMBERLEY AERO: Generally hot and hazy, with moderate northerly winds. Occasional bursts of cold air from the south and west. Clouds usually very high. Rainless month. The Meteorological Officer.

GROOT DRIEFONTEIN: One day (19th) with a very high wind. Otherwise scarcely any wind and high temperatures, more like early summer than late winter. 0.44" fell on 2 days. (Mrs) K.N. Watermeyer.

HERMITAGE(ADDO): Very variable. Sudden changes from cold to warm, even hot. Practically no rain. 0.16" were recorded. The Research Officer.

RIETPOORT(VAN RHYNSDORP): The month was on the whole warmer than August 1939 but with considerably less rain. 0.33 on 4 days, as compared with 2.34" in August 1939. Prospects for a good harvest still remote. B.D.H. Hudson.

LEMANA(LOUIS TRICHARDT): Die wind het gewoonlik na elf in die oggend sterker geword. Dit gebeur ook dikwels veral van nou af dat daar 'n dik mis in die oggend is, wat dan later ooptrek, en die lug helder laat. 1.56" is aangeteken op 5 dae. W.D. Malan.

NELSPOORT: Comparitively mild month, with a few overcast days, and little rain. 0.21" fell on 3 days. The Medical Superintendent.

BRAKPAN(WOLMARANSSTAD): Dit is baie droog. Vee word almal gevoer. Reënval nil. J. Lombard.

KOPPIESVLEI(SCHWEIZER RENEKE): Strong N.winds. Warm dusty days. Cool nights. Reënval nil. J. Murray.

SWERWERSKRAAL(POTGIETERSRUST): Veld groei uitstekend en vee is vet. Reënval nil.

TIERHOEK(LAINGSBURG): Veld baie droog en die gesaaides is mooi maar kry swaar weens droogte. Reënval 0.55" op 3 dae. L.S. Marais.

SPITSKOP(JAMESTOWN): Winter nie straf nie. Vee bly mooi hoewel droog. Swaar ryp val in laaste agt dae van Augustus. Reënval nil. M.J. Venter.

TABLE I : TEMPERATURE AND CLOUDINESS : AUGUST 1940.

Results of observations at 0830 S.A. Standard Time.

STATION	AIR TEMPERATURES. IN °F								NO. DAYS						Mean	CLOUDINESS			
	Mean Max.	Mean Min.	Mean	Diff. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min.Below 37	32	27	Max.Above 90	95	100		No. days 0-1	2-5	6-9	10
CAPE PROVINCE:																			
ALIWAL NOORD	70.5	35.1	52.8	+2.2	79.0	18	27.0	2	20	8	0	0	0	0	2	20	6	5	0
ARMOEDSVLAKTE	76.2	39.9	58.0	+3.3	83.0	18	23.4	1	11	3	2	0	0	0	1	24	4	2	1
BEAUFORT WEST	70.5	43.1	56.8	+2.0	86.5	31	32.4	1	6	0	0	0	0	0	4	15	6	5	5
BRITSTOWN	73.5	39.8	56.6	+4.0	82.0	18	31.0	3	13	1	0	0	0	0	1	25	5	0	1
CALA	72.0	43.6	57.8	+3.2	82.0	20	33.0	2	4	0	0	0	0	0	2	18	7	5	1
CAPE L'AGULHAS	62.8	52.6	57.7	+1.9	72.0	31	46.0	1	0	0	0	0	0	0	5	7	8	14	2
CARNARVON	70.0	37.4	53.7	+3.6	79.0	30	26.0	22	13	7	1	0	0	0	2	22	3	3	1
CERES	66.7	39.9	53.3	+1.7	86.4	31	31.0	1	7	1	0	0	0	0	4	12	6	11	2
CLANWILLIAM	76.7	45.7	61.2	+4.2	99.0	31	35.0	1	2	0	0	3	2	0	4	15	1	1	11
CRADOCK	73.3	39.0	56.2	+2.8	85.0	18	31.0	2	9	2	0	0	0	0	2	20	6	5	0
DEEPWALLS	65.2	48.8	57.0	+1.3	88.7	31	39.7	1	0	0	0	0	0	0	5	11	2	4	3
EAST LONDON	73.6	52.5	63.0	+2.3	100.5	19	45.0	2	0	0	0	1	1	1	3	15	6	10	0
GOODHOUSE	82.8	50.7	66.8	+4.2	100.0	31	38.0	1	0	0	0	4	1	1	2	19	6	5	1
GRAAFF REINET	72.8	46.5	59.6	+1.2	88.0	31	35.5	24	1	0	0	0	0	0	2	21	3	5	2
GRAHAMSTOWN	72.6	42.8	57.7	+2.7	89.2	19	30.4	2	4	1	0	0	0	0	2	22	4	4	2
GRIQUATOWN	73.3	41.4	57.4	+5.2	81.0	29	30.0	22	8	3	0	0	0	0	1	24	5	2	0
G. DRAKENSTEIN	68.5	46.6	57.6	+3.4	88.2	31	38.5	2	0	0	0	0	0	0	3	20	3	6	2
GROOTFONTEIN(KP)	68.8	33.4	51.1	+1.3	79.9	19	22.9	17	23	15	8	0	0	0	2	19	4	7	1
HOPETOWN	74.8	41.7	58.2	+3.8	84.0	18	31.0	1	8	1	0	0	0	0	1	21	7	3	0
IDUTYWA	72.4	47.5	60.0	+3.7	87.0	19	40.0	23	0	0	0	0	0	0	2	20	7	3	1
KENHARDT	77.5	44.2	60.8	+5.2	89.0	18	31.0	1	5	1	0	0	0	0	2	23	1	4	3
KIMBERLEY AERO	74.7	45.2	60.0	+5.1	83.4	18	29.4	2	4	2	0	0	0	0	1	25	4	2	0
KINGWILLIAMSTOWN	76.2	46.8	61.5	+2.7	93.0	31	37.0	2	0	0	0	2	0	0	2	21	3	6	1
KLAVER	76.0	51.1	63.6	+3.4	98.4	31	42.1	1	0	0	0	5	2	0	5	15	1	7	8
KOKSTAD	71.1	38.3	54.7	+2.5	82.3	19	31.0	8	13	2	0	0	0	0	3	15	7	3	6
KURUMAN	74.1	38.1	56.1	+3.9	81.0	18	25.0	1	8	3	1	0	0	0	1	19	8	2	0
MAFEKING	74.5	43.6	59.0	+2.2	81.6	20	33.0	1	2	0	0	0	0	0	2	19	9	3	0
MATROOSBERG AERO	63.6	40.6	52.1	+2.9	84.0	31	30.2	2	12	3	0	0	0	0	4	13	7	7	4
MOSSELBAAI AERO	66.4	50.8	58.6	+2.2	85.8	31	44.7	2	0	0	0	0	0	0	4	13	6	8	4
O'OKIEP	71.4	48.5	60.0	+5.2	87.6	31	32.7	22	3	0	0	0	0	0	3	21	1	8	1
OUDTSHOORN	72.3	41.6	57.0	+2.0	93.0	31	34.0	1	0	0	0	1	0	0	2	21	2	7	0
PORT ELIZABETH	71.0	47.9	59.4	+2.6	87.7	18	38.4	2	0	0	0	0	0	0	3	19	6	5	1
PORT NOLLOTH	66.0	47.3	56.6	+2.4	94.0	29	41.0	2	0	0	0	3	0	0	4	14	3	8	6
PORT ST. JOHNS	71.7	59.4	65.6	+1.4	85.0	12	53.0	30	0	0	0	0	0	0	4	10	9	10	2
POSTMASBURG	73.1	48.1	60.6	+6.1	79.9	18	32.6	1	3	0	0	0	0	0	1	24	6	1	0
PRIESKA	76.2	40.9	58.6	+4.4	85.4	18	28.0	2	6	3	0	0	0	0	1	25	2	4	0
QUEENSTOWN	72.5	42.1	57.3	+2.9	94.0	19	32.0	2	6	0	0	0	0	0	3	18	3	8	2
RIETPOORT	74.3	49.0	61.6	+4.0	96.6	31	35.0	1	1	0	0	6	2	0	3	19	2	6	4
RIVERSDALE	73.6	42.6	58.1	+2.0	96.3	31	33.9	2	6	0	0	1	1	0	5	10	8	8	5
SOMERSET EAST	73.4	46.0	59.7	+3.1	90.0	31	36.0	24	2	0	0	0	0	0	3	13	6	6	3
SUTHERLAND	61.6	31.6	46.6	+2.0	76.0	31	19.0	1	25	15	5	0	0	0	3	18	6	2	5
UITENHAGE	76.0	48.0	62.0	+3.6	90.8	18	38.4	3	0	0	0	1	0	0	2	20	3	4	3
UMTATA	76.7	43.8	60.2	+3.4	91.0	19	36.0	23	1	0	0	1	0	0	2	14	3	6	8
UPINGTON	78.2	48.4	63.3	+5.6	89.0	18	34.3	1	2	0	0	0	0	0	2	23	3	5	0
VAN RYKSVLEI	74.1	40.6	57.4	+5.7	84.4	18	27.8	22	8	4	0	0	0	0	2	19	8	2	2
VICTORIA WEST	68.9	36.0	52.4	+3.0	80.0	31	28.0	23	21	5	0	0	0	0	1	21	7	3	0
WILLOWMORE	68.0	40.0	54.0	+2.6	81.0	31	32.0	2	8	0	0	0	0	0	4	14	6	2	9
WINGFIELD AERO	66.6	50.3	58.4	+4.0	87.3	13	37.4	10	0	0	0	0	0	0	5	14	2	8	7
O.F.S.:																			
BETHULIE	71.7	38.6	55.1	+3.9	80.0	18	27.0	2	12	4	0	0	0	0	2	20	6	4	1
BLOEMFONTEIN	70.1	38.0	54.0	+2.8	79.8	18	26.8	2	13	7	1	0	0	0	2	20	7	4	0
FAURESMITH	71.1	37.2	54.2	+4.8	80.5	18	27.0	2	19	3	0	0	0	0	2	23	2	5	1
HARRISMITH	71.4	32.0	51.7	+3.1	79.0	21	20.0	2	25	18	4	0	0	0	1	24	3	4	0
KROONSTAD	74.3	36.8	55.6	+3.6	81.0	18	25.0	2	13	7	2	0	0	0	1	24	6	1	0
LADYBRAND	69.1	37.8	53.4	+2.9	76.0	21	32.0	1	12	0	0	0	0	0	1	26	2	2	1
LINDLEY	70.5	36.3	53.4	+2.8	79.0	18	26.0	22	13	6	1	0	0	0	1	24	7	0	0
WEPENER	70.3	37.3	53.8	+4.6	78.2	20	25.5	24	18	9	2	0	0	0	2	21	3	7	0

TABLE I : TEMPERATURE AND CLOUDINESS : AUGUST 1940.
Results of observations at 0830 S.A. Standard Time.

STATION	AIR TEMPERATURES IN °F.								NO. DAYS							CLOUDINESS			
	Mean Max.	Mean Min.	Mean	Diff. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Below: 37	32	27	Max. Above: 90	95	100	Mean	No. days 0-1	2-5	6-9	10
TRANSVAAL:																			
BARBERTON	75.3	54.1	64.7	+0.9	89.6	21	48.0	12	0	0	0	0	0	0	4	14	4	6	7
BELFAST	64.6	34.0	49.3	+ 2.4	72.0	28	27.0	13	22	10	0	0	0	0	3	22	1	1	7
BERMELO	69.3	39.6	54.4	+ 2.6	79.0	21	30.0	1	5	1	0	0	0	0	4	17	1	9	4
BERMISTON	69.7	44.7	57.2	+3.0	77.5	21	29.7	1	2	1	0	0	0	0	2	20	4	6	1
HEIDELBERG	72.7	36.7	54.7	+3.5	80.0	21	26.7	2	16	6	1	0	0	0	2	21	4	3	3
JOUBERT PARK	69.4	45.8	57.6	+3.6	75.8	21	45.8	1	1	0	0	0	0	0	2	21	3	5	2
KLERKSDORP	73.7	40.3	57.0	+1.8	81.4	20	26.0	1	10	5	1	0	0	0	1	24	4	1	0
KOPJE ALLEEN	76.9	42.4	59.6	+1.8	86.0	28	35.2	2	3	0	0	0	0	0	1	24	5	1	1
LOUIS TRICHARDT	72.0	48.6	60.3	+0.9	86.0	21	39.0	9	0	0	0	0	0	0	5	13	2	2	14
MESSINA	80.0	56.9	68.4	+1.6	90.5	17	48.8	31	0	0	0	2	0	0	3	20	2	4	5
MIDDELBURG	71.5	35.8	53.6	+1.5	77.0	28	30.0	12	17	4	0	0	0	0	2	20	7	3	1
NYLSTROOM	76.6	39.4	58.0	+1.8	85.0	28	31.0	2	8	5	0	0	0	0	1	25	4	2	0
PIETERSBURG	72.3	41.1	56.7	+0.9	82.0	28	30.0	9	6	1	0	0	0	0	3	20	3	3	5
PIET RETIEF	72.6	43.4	58.0	+1.6	83.5	27	33.5	12	4	0	0	0	0	0	3	16	3	5	4
POTCHEFSTROOM	74.1	40.7	57.4	+3.4	82.0	16	26.0	1	11	4	1	0	0	0	1	25	3	3	0
PRETORIA(MET)	72.2	44.0	58.1	+ 2.7	78.5	17	34.0	2	2	0	0	0	0	0	2	23	4	2	7
RUSTENBURG	76.5	42.2	59.4	+ 2.3	84.0	28	31.0	2	3	1	0	0	0	0	3	18	7	4	2
SWAZILAND	72.6	50.1	61.4	+ 2.6	80.0	21	45.0	5	0	0	0	0	0	0	1	27	2	1	1
VANDERTON	71.2	35.8	53.5	+3.3	78.0	19	27.0	22	15	8	0	0	0	0	4	15	6	10	0
WAALHARTZ	75.1	38.4	56.8	+4.6	80.9	20	28.8	1	11	6	3	0	0	0	1	23	5	2	1
WAKKERSTROOM	69.0	34.9	52.0	+ 2.9	79.4	22	22.5	22	18	10	4	0	0	0	2	21	4	3	3
WEBRUST	75.7	42.1	58.9	+ 2.8	84.0	28	26.0	2	6	1	1	0	0	0	2	21	5	4	1
NATAL:																			
DUNDEE	72.7	43.4	58.0	+ 2.1	82.6	19	37.4	30	0	0	0	0	0	0	2	22	4	2	3
DURBAN AERO	73.2	54.9	64.0	+1.0	77.0	27	46.3	30	0	0	0	0	0	0	3	20	2	5	4
EMPANGENI	75.3	57.6	66.4	+1.4	87.0	16	50.0	30	0	0	0	0	0	0	3	19	5	2	5
ESHOWE	74.4	54.9	64.6	+1.4	87.2	16	48.0	30	0	0	0	0	0	0	2	15	5	5	1
EXCOURT	71.6	43.8	57.7	+3.1	83.0	21	37.0	2	0	0	0	0	0	0	3	20	5	2	4
LADYSMITH	74.5	43.9	59.2	+1.8	85.0	19	34.0	2	1	0	0	0	0	0	3	19	3	4	5
NELMOTH	74.5	52.6	63.6	+1.8	88.0	16	43.9	30	0	0	0	0	0	0	3	16	4	8	3
TOSOTINI	79.8	56.3	68.0	+0.6	88.0	16	50.0	14	0	0	0	0	0	0	3	10	7	2	5
PIETERM'BURG	76.1	50.0	63.0	+ 2.7	89.4	19	41.2	30	0	0	0	0	0	0	3	20	2	7	2
PORT SHEPSTONE	71.4	56.6	64.0	+1.8	75.0	31	49.0	31	0	0	0	0	0	0	3	18	7	2	4
RYHEID	74.4	47.7	61.0	+2.2	85.0	20	39.8	22	0	0	0	0	0	0	3	18	3	5	5
ZENEN	76.6	43.2	59.9	+2.9	87.0	21	31.0	1	2	1	0	0	0	0	2	19	6	2	4
BASUTOLAND:																			
BUTHA BUTHE	69.4	32.8	51.1	+1.7	74.0	25	27.0	26	24	16	0	0	0	0	1	20	10	1	6
MASERU	68.8	40.0	54.4	+3.8	76.0	18	31.0	23	9	1	0	0	0	0	1	23	7	1	0
MOHASNEK	65.2	39.4	52.3	+3.4	74.0	19	31.0	14	8	2	0	0	0	0	1	22	6	2	1
BECHUANALAND:																			
LOBATLONG	81.2	41.9	61.6	+2.0	93.0	28	32.0	2	8	0	0	2	0	0	1	25	1	2	3
MAHERONES	77.6	42.3	60.0	+2.8	87.0	28	32.0	1	3	0	0	0	0	0	1	25	3	1	2
MAHALAPYE	78.5	44.8	61.6	+2.2	89.0	28	38.0	9	0	0	0	0	0	0	2	22	4	3	2
SWAZILAND:																			
BABANE	69.0	47.4	58.2	+0.9	83.0	21	36.0	12	1	0	0	0	0	0	3	19	4	2	6
MBABANE	75.8	52.0	63.8	+1.4	85.0	21	46.0	30	0	0	0	0	0	0	3	20	2	7	2

TABLE II : PRECIPITATION IN INCHES : AUGUST 1940.

STATION	AUG. 1940	NORM.	DIFF.	%	MAX. AMT. IN 24H	DATE	NO. OF DAYS 0.01" or more	0.04" or more	TH.	H.	S.	CUMULATIVE RAINFALL FROM 1.1.1940	% OF NORM.	FROM 1.7.1940	% OF NORM.
CAPE PROVINCE: SUMMER RAINFALL AREA:															
ALIWAL NORTH	0.00	0.52	-0.52	0	0.00	0	0	0	0	0	0	126	43		
ARMOEDSVLAKTE	0.01	0.16	-0.15	6	0.01	25	1	0	0	0	0	108	3		
BEAUFORT WEST	0.13	0.40	-0.27	32	0.11	4	3	1	1	0	1	98	110		
BRANDVLEI	0.07	0.31	-0.24	23	0.07	1	1	1	0	0	0	50	21		
BRITSTOWN	0.00	0.20	-0.20	0	0.00	0	0	0	0	0	0	76	152		
CALA	0.00	0.56	-0.56	0	0.00	0	0	0	0	0	0	115	24		
CARNARVON	0.14	0.26	-0.12	54	0.14	4	1	1	0	0	?	118	88		
CATHCART	0.54	0.55	-0.01	98	0.52	1	?	1	0	0	0	80	39		
CRADOCK	0.00	0.19	-0.19	0	0.00	0	0	0	0	0	0	181	126		
DORDRECHT	0.00	0.66	-0.66	0	0.00	0	0	0	0	0	0	119	29		
FRASERBURG	0.25	0.22	+0.03	114	0.23	4	?	1	0	0	0	90	64		
GOODHOUSE	0.03	0.20	-0.17	15	0.02	3	2	0	0	0	0	94	16		
GRAAFF REINET	0.04	0.46	-0.42	9	0.04	6	1	1	0	0	1	143	102		
GRAHAMSTOWN	0.27	1.06	-0.79	25	0.16	28	3	?	0	0	0	116	68		
GROOTFONTEIN	0.00	0.25	-0.25	0	0.00	0	0	0	0	0	0	128	52		
HANOVER	0.00	0.21	-0.21	0	0.00	0	0	0	0	0	0	148	152		
HOPE TOWN	0.00	0.25	-0.25	0	0.00	0	0	0	0	0	0	82	113		
IDUTYWA	0.12	0.68	-0.56	18	0.17	28	?	?	0	0	0	132	38		
KENHARDT	0.00	0.20	-0.20	0	0.00	0	0	0	0	0	0	73	26		
KIMBERLEY	0.00	0.27	-0.27	0	0.00	0	0	0	0	0	0	100	0		
KINGWILLIAMSTOWN	0.04	0.81	-0.77	5	0.04	28	1	1	0	0	0	98	47		
KOKSTAD	0.04	0.83	-0.79	5	0.04	9	1	1	1	0	0	109	8		
KURUMAN	0.00	0.27	-0.27	0	0.00	0	0	0	0	0	0	115	10		
MACLEAR	0.11	0.76	-0.65	14	0.11	9	1	1	0	0	0	73	18		
MAFEKING	0.02	0.21	-0.19	10	0.02	24	1	0	0	0	0	159	5		
MATJESFONTEIN	0.77	0.61	+0.16	126	0.77	4	1	1	0	0	0	112	64		
NELSPOORT	0.21	0.38	-0.17	55	0.18	4	3	1	0	0	0	-	206		
EAST LONDON	1.45	1.32	+0.13	110	0.73	6	6	5	0	0	0	97	91		
PELLA	0.00	0.10	-0.10	0	0.00	0	0	0	0	0	0	208	0		
PHILIPSTOWN	0.00	0.37	-0.37	0	0.00	0	0	0	0	0	0	94	105		
PORT ST. JOHNS	2.16	2.07	+0.09	104	0.91	28	4	3	0	0	0	68	53		
POSTMASBURG	0.00	0.31	-0.31	0	0.00	0	0	0	0	0	0	109	55		
PRIESKA	0.00	0.18	-0.18	0	0.00	0	0	0	0	0	3	72	69		
PRINCE ALBERT RD.	0.80	0.18	+0.62	444	-	-	-	-	0	0	0	147	191		
QUEENSTOWN	0.00	0.42	-0.42	0	0.00	0	0	0	0	0	0	123	38		
RIETBRON	0.00	0.32	-0.32	0	0.00	0	0	0	0	0	0	115	176		
RIETFONTEIN	0.00	0.17	-0.17	0	0.00	0	0	0	0	0	0	100	0		
SOMERSET EAST	0.09	0.84	-0.75	11	0.08	4	?	1	1	0	0	101	116		
STEYNSBURG	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0	96	60		
STEYTLERVILLE	0.00	0.37	-0.37	0	0.00	0	0	0	0	0	0	85	119		
UMTATA	0.12	0.71	-0.59	17	0.12	29	1	1	0	0	0	83	35		
UPINGTON	0.00	0.16	-0.16	0	0.00	0	0	0	0	0	0	90	93		
VAALBOSCHHOEK	0.03	0.16	-0.13	23	0.03	25	1	0	1	0	0	146	9		
VAN WYKSVLEI	0.02	0.23	-0.21	9	0.02	4	1	0	1	0	3	107	45		
VICTORIA WEST	0.21	0.20	+0.01	105	0.14	5	?	?	0	0	0	101	170		
WILLISTON	0.14	0.38	-0.24	37	0.14	4	1	1	1	0	0	104	24		
CAPE WINTER RAINFALL AREA:															
CALEDON	0.52	2.65	-2.13	20	0.29	8	5	3	0	0	0	92	39		
CALVINIA	0.82	0.91	-0.09	90	0.56	3	3	3	0	0	0	127	55		
CERES	2.01	6.37	-4.36	32	0.72	21	7	5	0	0	0	93	56		
CLANWILLIAM	0.73	1.08	-0.35	68	0.38	3	8	5	1	0	0	75	44		
DARLING	1.31	2.97	-1.66	44	0.37	8	10	5	0	0	0	101	60		
GARIES	0.30	0.88	-0.58	34	0.11	10	5	3	0	0	0	78	37		
GT. DRAKENSTEIN	2.83	4.54	-1.71	62	0.79	8	9	8	0	0	0	101	62		
CAPE L'AGULHAS	0.59	2.02	-1.43	29	0.37	9	5	3	0	0	0	149	64		
KLAVER	1.45	1.09	+0.36	133	0.67	3	6	6	1	0	0	80	72		
MATROOSBERG	0.35	1.28	-0.93	27	0.20	8	4	3	0	0	0	79	25		
O'OKIEP	0.12	0.97	-0.85	12	0.07	3	4	1	1	0	0	65	18		
PIQUETBERG	0.72	2.99	-2.27	24	0.35	6	5	3	0	0	0	78	29		
PORT NOLLOTH	0.10	0.42	-0.32	24	0.06	3	2	2	1	0	0	63	64		
RIETPOORT	0.33	1.07	-0.74	31	0.16	20	4	4	0	0	0	58	29		
SUTHERLAND	1.47	0.91	+0.56	161	0.91	3	5	5	0	0	0	-	98		

TABLE II : PRECIPITATION IN INCHES : AUGUST 1940.

STATION	AUG. 1940	NORM	DIFF	%	MAX. AMT. IN 24H	DATE	NO. OF DAYS 0.01" or more	NO. OF DAYS 0.04" or more	TH.	H.	S.	CUMULATIVE RAINFALL FROM 1.1.1940 % OF NORM.	CUMULATIVE RAINFALL FROM 1.7.1940 % OF NORM.
CAPE PROVINCE: CAPE WINTER RAINFALL AREA:													
WORCESTER	0.36	1.83	-1.47	20	0.17	20	4	2	0	0	0	59	19
WINGFIELD	1.03	2.12	-1.09	49	0.31	8	10	6	0	0	0	144	67
CAPE PROVINCE : ALL SEASONS RAINFALL AREA:													
DEEPWALLS	0.81	3.67	-2.86	22	0.23	20	9	9	0	0	1	96	48
GEORGE	0.55	2.23	-1.68	25	0.22	20	7	6	0	0	0	102	44
HUMANSDORP	0.00	2.31	-2.31	0	0.00	0	0	0	0	0	0	67	49
LADISMITH	0.35	1.10	-0.75	32	0.22	3	3	3	0	0	0	102	36
MOSSEL BAY	0.63	1.77	-1.14	36	0.46	21	7	3	0	0	0	114	37
OUDTSHOORN	0.65	0.68	-0.13	81	0.36	1	2	2	0	0	0	116	74
PORT ELIZABETH	0.51	2.04	-1.53	25	0.26	28	6	3	0	0	0	77	43
RIVERSDALE	0.15	1.45	-1.30	10	0.10	20	2	2	0	0	0	94	17
SWELLENDAM	0.84	2.24	-1.40	37	0.70	8	4	3	0	0	0	99	48
SYDNEY'S HOPE	0.91	1.30	-0.39	70	0.63	1	5	4	0	0	0	90	60
TWEERIVIEREN	0.00	1.37	-1.37	0	0.00	0	0	0	0	0	0	91	56
UITENHAGE	0.71	1.16	-0.45	61	0.53	1	5	3	0	0	0	82	75
UNIONDALE	0.25	0.95	-0.70	26	0.12	4	5	2	0	0	0	104	75
WILLOMORE	0.00	0.45	-0.45	0	0.00	0	0	0	0	0	0	-	140
O.F.S.:													
BETHULIE	0.11	0.36	-0.25	31	0.11	1	1	1	0	0	0	93	14
BLOEMFONTEIN	0.16	0.34	-0.18	47	0.16	25	1	1	1	1	0	85	59
BOSHOF	0.25	0.28	-0.03	89	0.25	1	1	1	0	0	0	95	41
EDENBURG	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0	123	0
FAURESMITH	0.00	0.39	-0.39	0	0.00	0	0	0	0	0	0	122	50
HARRISMITH	0.14	0.61	-0.47	23	0.14	1	1	1	0	0	0	-	14
HEILBRON	0.00	0.46	-0.46	0	0.00	0	0	0	0	0	0	87	0
KROONSTAD	0.03	0.46	-0.43	7	0.02	3	2	0	0	0	0	73	1
LADYBRAND	0.00	0.60	-0.60	0	0.00	0	0	0	0	0	0	78	41
LINDLEY	0.06	0.51	-0.45	12	0.06	25	1	1	0	0	0	93	16
PETRUSBURG	0.00	0.18	-0.18	0	0.00	0	0	0	0	0	0	119	53
REITZ	0.08	0.54	-0.46	15	0.08	25	1	1	0	0	0	87	8
VREDE	0.00	0.49	-0.49	0	0.00	0	0	0	0	0	0	104	0
WEPENER	0.02	0.52	-0.50	4	0.02	25	1	0	1	0	0	90	61
WINBURG	0.00	0.37	-0.37	0	0.00	0	0	0	0	0	0	93	17
NATAL:													
DUNDEE	0.36	0.71	-0.35	51	0.27	25	2	2	1	0	0	109	50
DURBAN	1.28	1.28	±0.00	100	0.52	9	4	4	0	0	0	89	53
EMPANGENI	3.72	1.59	+2.13	234	1.87	9	7	7	0	0	0	155	124
ESHOWE	1.15	1.66	-0.51	69	0.48	9	5	5	0	0	0	144	39
ESTCOURT	0.17	0.64	-0.47	27	0.15	25	2	1	1	0	0	-	28
HIMEVILLE	0.14	0.88	-0.74	16	0.13	25	2	1	0	0	0	106	9
KRANSKOP	0.17	1.02	-0.85	17	0.08	28	3	2	0	0	0	142	119
LADYSMITH	0.00	0.85	-0.85	0	0.00	0	0	0	1	0	0	73	0
LANSSDOWNE	0.77	1.17	-0.40	66	0.48	8	4	2	0	0	0	120	56
MELMOTH	0.32	0.89	-0.57	36	0.21	11	4	2	0	0	0	112	21
OTOBOTINI	0.75	0.54	+0.21	139	0.72	10	2	1	0	0	0	162	74
PIETERMARITZBURG	0.02	0.95	-0.93	2	0.02	9	1	0	0	0	0	97	58
PORT SHEPSTONE	1.67	1.50	+0.17	111	0.84	9	4	4	0	0	0	75	57
STANGER	0.15	1.32	-1.17	11	0.14	7	2	1	0	0	0	109	19
UMZIMKULU	0.21	0.79	-0.58	26	0.13	25	2	2	0	0	0	121	16
VRYHEID	0.06	0.82	-0.76	7	0.05	28	2	1	1	0	0	108	2
WEENEN	0.00	0.66	-0.66	0	0.00	0	0	0	0	0	0	106	0
SWAZILAND:													
HLATIKULU	0.41	0.94	-0.53	44	0.20	28	4	3	0	0	0	87	24
MBABANE	0.50	1.10	-0.60	45	0.32	28	5	5	0	0	0	98	25
STEGI	0.23	0.64	-0.41	36	0.17	28	3	2	0	0	0	149	19

TABLE II : PRECIPITATION IN INCHES : AUGUST 1940.

STATION	AUG. 1940	NORM.	DIFF	%	MAX. AMT. IN 24H	DATE	NO. OF DAYS 0.01" or more	NO. OF DAYS 0.04" or more	NO. OF DAYS TH.	NO. OF DAYS H.	NO. OF DAYS S.	CUMULATIVE RAINFALL FROM 1.1.1940 % OF NORM.	CUMULATIVE RAINFALL FROM 1.7.1940 % OF NORM.
TRANSVAAL:													
BARBERTON	0.09	0.35	-0.26	26	0.09	11	1	1	2	0	0	119	12
BELFAST	0.06	0.40	-0.35	13	0.05	24	1	1	2	0	0	116	7
BETHAL	0.03	0.47	-0.44	6	0.03	25	1	0	0	0	0	104	4
BLOEMHOF	0.00	0.26	-0.26	0	0.00	0	0	0	0	0	0	97	0
ERMELO	0.19	0.81	-0.34	33	0.09	25	7	1	1	0	0	113	22
GERMISTON	0.03	0.38	-0.35	8	0.03	24	1	0	2	0	0	86	4
GROENRIVIER	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0	107	0
HEIDELBERG	0.02	0.34	-0.32	6	0.02	25	1	0	0	0	0	107	5
JOUBERT PARK	0.19	0.53	-0.34	36	0.16	26	3	1	0	0	0	83	19
KLERKSDORP	0.01	0.36	-0.35	3	0.01	26	1	0	1	0	0	67	1
KOMATIPOORT	0.64	0.41	+0.23	156	0.48	7	2	2	0	0	0	-	-
KOPJE ALLEEN	0.01	0.38	-0.37	3	0.01	24	1	0	0	0	0	101	2
LETABA	0.00	0.19	-0.19	0	0.00	0	0	0	0	0	0	90	0
LICHTENBURG	0.00	0.26	-0.26	0	0.00	0	0	0	0	0	0	118	0
LOUIS TRICHARDT	0.44	0.30	+0.14	163	0.25	29	4	4	0	0	0	101	59
MARAISBOOM	0.00	0.13	-0.13	0	0.00	0	0	0	0	0	0	-	-
MESSINA	0.00	0.06	-0.06	0	0.00	0	0	0	0	0	0	71	0
MIDDELBURG	0.01	0.41	-0.40	2	0.01	26	1	0	0	0	0	103	1
NYLSTROOM	1.08	0.36	+0.72	300	1.08	25	1	1	0	0	0	110	174
PIETERSBURG	0.00	0.20	-0.20	0	0.00	0	0	0	0	0	0	109	0
PIET RETIEF	0.00	0.64	-0.64	0	0.00	0	0	0	0	0	0	93	0
PILGRIMS REST	0.19	0.53	-0.34	36	0.07	3	7	2	2	0	0	72	16
POTCHEFSTROOM	0.17	0.50	-0.33	34	0.17	25	1	1	3	0	0	82	21
PRETORIA	0.27	0.60	-0.33	45	0.22	25	2	2	2	0	1	65	28
RONDA MARIA	0.15	0.18	-0.03	83	0.08	29	2	2	0	0	0	81	47
ROOIBERG	0.00	0.48	-0.48	0	0.00	0	0	0	0	0	0	137	0
RUSTENBURG	0.13	0.44	-0.31	30	0.13	27	1	1	1	0	0	79	18
SEKUKUNILAND	0.69	0.30	+0.39	197	0.46	25	3	3	0	0	0	88	111
STANDERTON	0.01	0.49	-0.48	2	0.01	25	1	0	0	0	0	75	1
VALHARTZ	0.00	0.19	-0.19	0	0.00	0	0	0	0	0	0	120	30
VILLA NORA	0.00	0.20	-0.20	0	0.00	0	0	0	0	0	0	67	0
WAKKERSTROOM	0.04	0.63	-0.59	6	0.04	25	1	1	0	0	0	106	4
WOODBUSH	1.92	0.90	+1.02	213	0.94	29	9	6	1	0	0	87	103
WEENUST	0.00	0.29	-0.29	0	0.00	0	0	0	0	0	0	102	0
BECHUANALAND:													
LIKGATLONG	0.04	0.22	-0.18	18	0.04	26	1	1	1	0	0	109	10
MABERONES	0.13	0.34	-0.21	38	0.07	25	2	2	2	0	0	86	24
MAHALAPYE	0.00	0.25	-0.25	0	0.00	0	0	0	0	0	0	100	0
SABONG	0.00	0.18	-0.18	0	0.00	0	0	0	0	0	0	120	0
BASUTOLAND:													
BUTHA BUTHE	0.00	0.58	-0.58	0	0.00	0	0	0	0	0	0	87	0
MAFETENG	0.26	0.54	-0.28	48	0.26	1	1	1	0	0	0	82	50
MASERU	0.00	0.57	-0.57	0	0.00	0	0	0	0	0	0	79	28
MOHALESHOEK	0.24	0.50	-0.26	48	0.24	25	1	1	1	1	8	91	68
MOKHOTLONG	0.27	0.60	-0.33	45	0.27	1	1	1	0	0	0	98	27
MACHASNEK	0.35	0.80	-0.45	44	0.32	1	2	1	0	0	0	88	25
WHITE MILL ESTATE	0.58	0.47	+0.11	123	0.44	1	2	2	0	0	0	78	71

CHART I KAART I

August 1940: Mean Atmospheric Pressure (at M.S.L.) at 8·30 a.m. The broken lines represent the departure from the normal pressure for August.

Augustus 1940: Gemiddelde Lugdruk (by Seespieël) om 8·30 v.m. Die gebroke lyne dui die afwyking van die normale lugdruk vir Augustus aan.

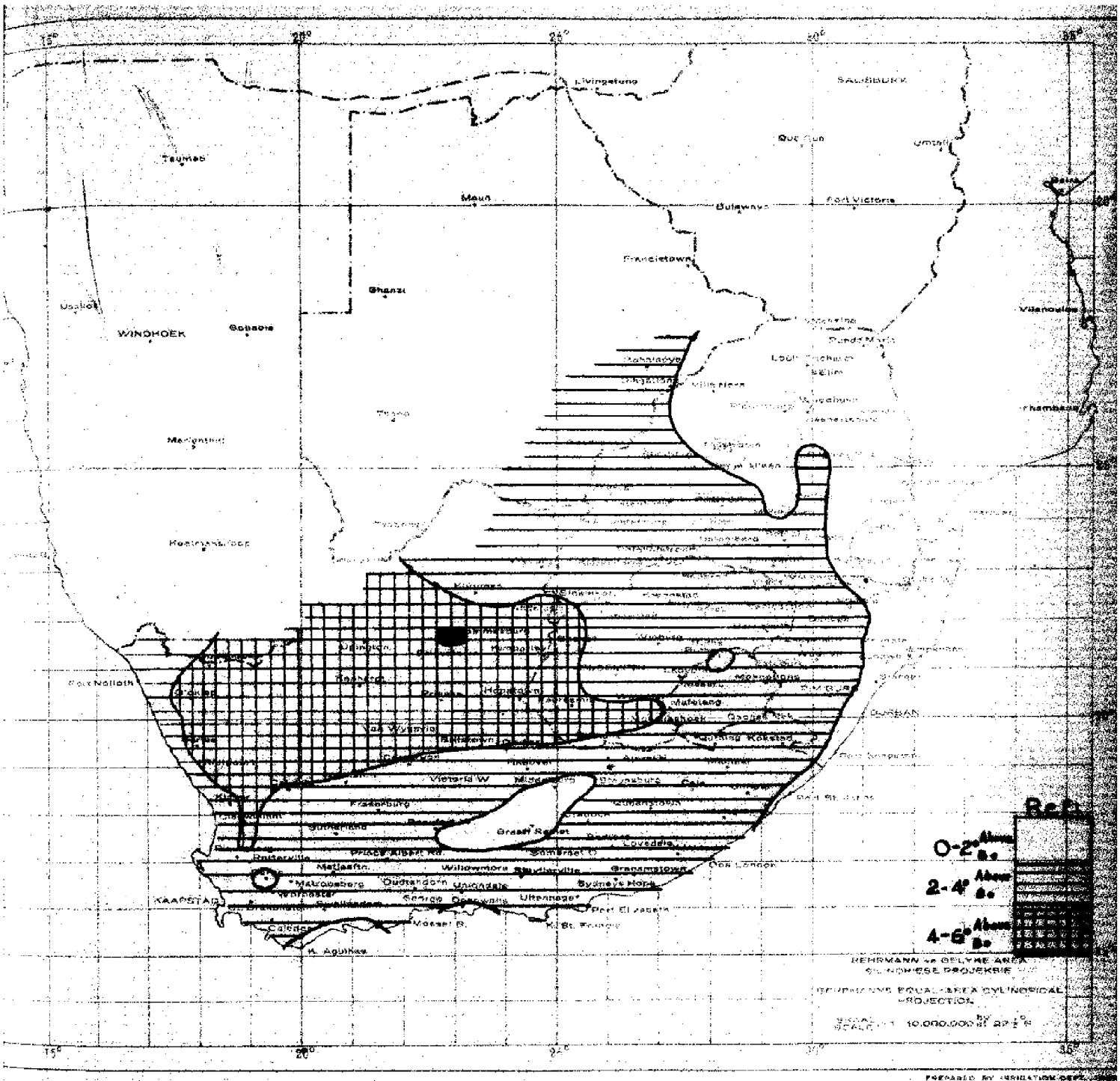


CHART II KAART II

August 1940: Mean Temperature - departure from the normal in °F.

Augustus 1940: Gemiddelde Temperatuur - afwyking van die normaal in °F.

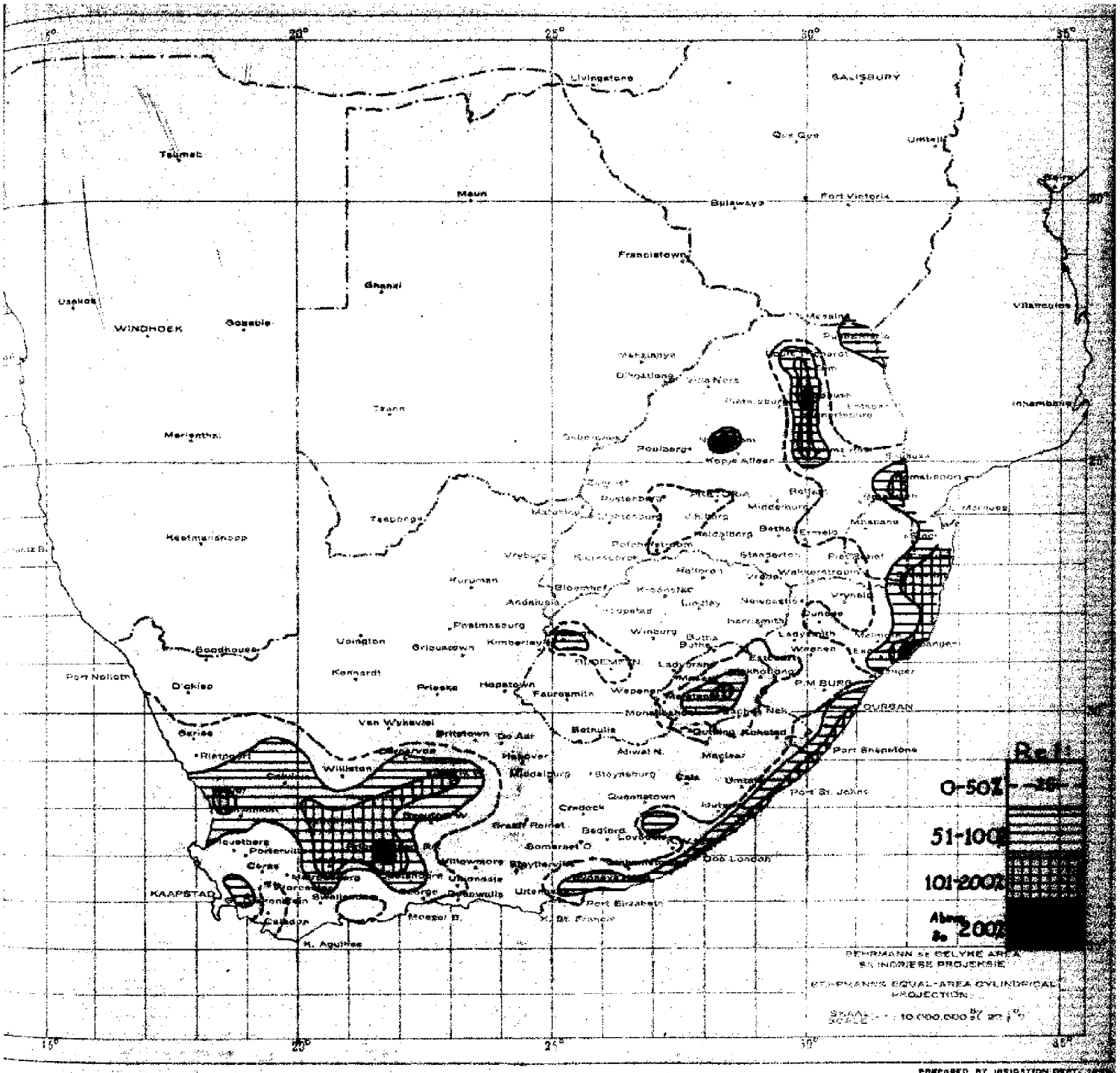


CHART III KAART III

August 1940: Precipitation shown as percentage of the normal.

Augustus 1940: Neerslag aangegee as persentasie van die normaal.

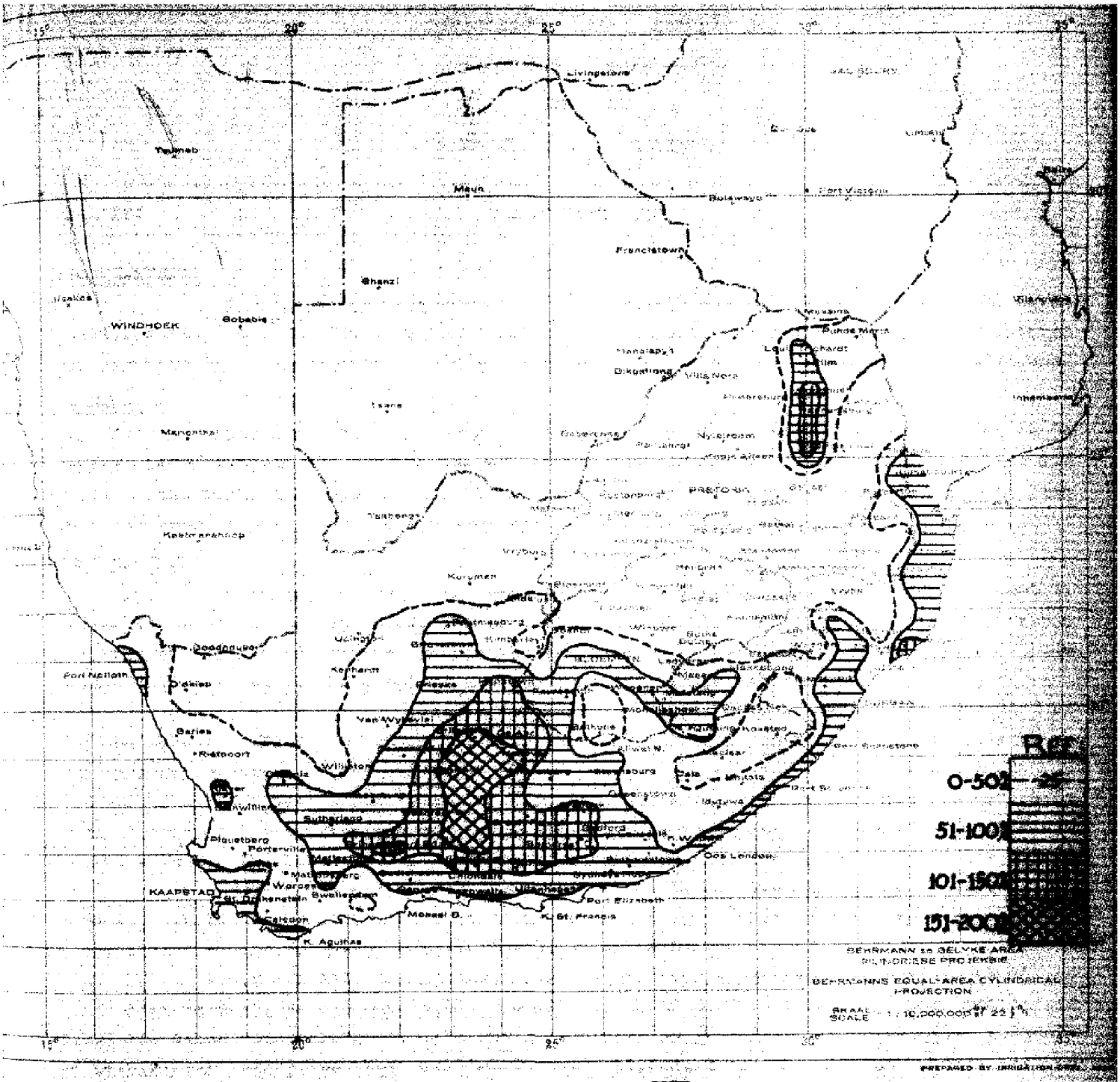


CHART IV KAART IV

Seasonal Precipitation: 1st July 1940 to 31st Aug. 1940, shown as percentage of the normal

Seisoen Neerslag: 1e Julie 1940 tot 31e Aug. 1940, aangegee as persentasie van die normaal

DIE UNIE VAN SUID-AFRIKA

DEPARTEMENT VAN BEVOLKING

MAANDELIKSE WEERVERSLAG

VAN DIE

WEERKUNDIGE KANTOOR.

Deel XXI SEPTEMBER 1940. No.9.

HOOFKENMERKE:

Gemiddelde temperature ietwat bo normaal behalwe oor die westelike en suidwestelike Kaapland; koel dae en warm nagte; 'n buitegewoon bewolkte maand met hoë reënval oor die binneland, dog minder as die normale neerslag oor die kuststreke; baie haelstorms.

LUGDRUK:

Die distribusie van gemiddelde lugdruk word op Kaart I aangetoon, en is 'n tipiese voorbeeld van die oorgang van winter na somertoestande; die somer-laagdruk is alreeds te bespeur oor Betsjoesanaland terwyl die permanente winter antisiklone oor die land so te sê verdwyn het. Oor die algemeen was die lugdruk ietwat onder normaal.

TEMPERATUUR:

Die afwyking van gemiddelde temperatuur vanaf die normaal, word op Kaart II aangedui. Gemiddelde temperature was bo normaal hoofsaaklik oor die oostelike helfte van die Unie en oor die sentrale en noordelike distrikte van die Kaapprovinsie. Die weste[illegible] suidwestelike en suidelike Kaapland dui onder-normale temperature aan.

Die algemene gemiddelde temperatuur vir die Unie as geheel, was 60.9°F of 0.7° bo normaal. Word die provinsies apart beskou, dan toon dit Kaap, Transvaal, Natal en die Vrystaat gemiddeldes wat onderskeidelik 0.1°, 1.2°, 1.4° en 1.3° bo normaal is.

Gemiddelde maksimum-, of dag-temperature was oor die algemeen heelwat onder normaal, en negatiewe afwykings van 2 tot 4°F het baie voorgekom. Alleenlik die suidoostelike en suidelike kuststreke het maksima aangetoon wat bo normaal was.

Gemiddelde minima, of nag-temperature was aan die ander kant heelwat bo normaal, behalwe oor die westelike en suidwestelike Kaapprovinsie. Positiewe afwykings van 4 tot 6° het taamlik algemeen oor die Transvaal voorgekom.

Vir die Unie as 'n geheel was die gemiddelde maksimum temperatuur 73.0°F, of 1.1° onder normaal, en die gemiddelde minimum 48.8°, of 2.6° bo normaal. Die gemiddelde daaglikse temperatuur-skommeling was dus 3.7° minder as gewoonlik, veroorsaak deur herhaalde bewolkte en reënagtige weer onder welke omstandighede beide die son se warmtestraling oordag, en die nagtelike warmteuitstraling gestrem word.

Die volgende was die hoogste maksimum temperature wat in elke provinsie gemeet was:- 99° te Clanwilliam (K.P.) op die 26ste; 99° te Komatipoort(Tvl.) op die 30ste; 97° te Otobotini(Natal) op die 28ste, en 84.5° te Kroonstad(O.V.S.) op die 12de.

Die laagste minimum temperature in elke provinsie geregistreer, was:- 17° te Sutherland(K.P.) op die 4de; 26° te Wakkerstroom(Tvl.) op die 1ste; 40° te Weenen(Natal) op die 1ste, en 20.5° te Fauresmith(O.V.S.) op die 5de.

RYP:

Ryp het oor die algemeen minder as gewoonlik voorgekom; dit het egter gedurende die eerste week van die maand streë gevryp hoofsaaklik in die Vrystaat en die binne-

land van die Kaapprovinsie, waar heelwat skade voorgekom het (Sien ook aantekeninge van waarnemers).

NEERSLAG: Die distribusie van die neerslag, aangegee as persentasie van die normaal, word naasteby aangetoon op Kaart III. Dit is interessant om op te let dat, met uitsondering van 'n klein streek in die nabyheid van Bloemhof en Vaalhartz, die hele binneland van die Unie (die hoogplato) neerslag ver bo die normaal ontvang het, terwyl die reënval onder normaal was langs die kuststreke, veral langs die suid- en ooskus.

Word die provinsies as eenhede beskou, dan toon die Transvaal, Vrystaat, Natal en Kaap surplusse wat respektieflik 229%, 130%, 6% en 50% van hulle normale neerslag vir September beteken. In laasgenoemde provinsie het die somer- en winterreënstreke surplusse van onderskeidelik 111% en 14% getoon, terwyl die neerslag vir die streek met reën in alle seisoene net die normaal bereik het. Vir die Unie as geheel was daar 'n surplus van 82%.

Die somerreënstreek van die Unie, en veral die oostelike binneland van die Kaapprovinsie, die Vrystaat, die suidoostelike, sentrale, westelike en noordwestelike Transvaal, het omtrent daaglikse vanaf die 18e tot die end van die maand onweersbuie gehad. Voor die 18e het daar afgesonderde buie uitgesak hoofsaaklik van die 4e tot 7e en 11e tot die 14e. Die sentrale, noordelike en noordwestelike Kaapprovinsie was veral begunstig op die 11e, 12e, 13e, 26e, en 27e. Die winterreënstreek het by tussenpose buie en reën gehad hoofsaaklik vanaf die 2e tot die 18e.

HAEL:

Haelstorms het herhaaldelik voorgekom, vernaamlik in die oostelike binneland van die Kaapprovinsie, die Vrystaat, die noordelike distrikte van die Kaapprovinsie, die westelike, sentrale en suidoostelike Transvaal, en in die binneland van Natal. Hierdie storms het op volgende datums voorgekom: 6e, 11e, 13e, 14e, 19e en 21e tot die 30e, maar was oorwegend op die 21e, 22e, en 23e toe ook heelwat skade op verskillende plekke veroorsaak was.

Ligte hael het ook in die suidwestelike Kaap voorgekom op die 2e en 3e. (Sien ook aantekeninge van waarnemers).

SNEEU: Sneeu was waargeneem op die bergketens in die suidwestelike, suidelike en oostelike Kaapprovinsie op die 3e, 7e tot 9e, en op die 19e.

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf 1 Januarie 1940 was bo normaal hoofsaaklik oor (1) die sentrale en oostelike binneland van die Kaapprovinsie en die suidelike Kaap; (2) die suidelike Vrystaat; (3) Betsjoeanaland en die grootste deel van die Transvaal (behalwe die oostelike laeveld), en (4) oor noordelike Natal. Die res van die Unie het 'n onder normale neerslag getoon. Word die provinsies as eenhede beskou, dan het die Kaap, Vrystaat en die Transvaal surplusse getoon wat onderskeidelik 6%, 1% en 5% van hulle normale neerslag bedra het, en Natal 'n tekort van 3%. Die Kaapse somerreenstreek het 'n surplus van 14%, terwyl die winterreënstreek en die streek met reën in alle seisoene tekorte van onderskeidelik 2% en 4% gehad het. Vir die Unie as geheel was daar 'n surplus van 3%.

DIE SEISOEN-NEERSLAG:

Die seisoen-neerslag vanaf 1 Julie 1940, uitgedruk as persentasie van die normaal word naasteby aangedui op Kaart IV. Vir hierdie periode het die Vrystaat en Transvaal, as eenhede beskou, surplusse van onderskeidelik 34% en 75% getoon, en die Kaap en

Natal tekorte van onderskeidelik 12% en 22%. Die Kaapse somerreënstreek het 'n surplus va. 34%, en die winterreënstreek en streek met reën in alle seisoene tekorte van respektieflik 35% en 31% getoon. Vir die Unie as geheel was daar 'n surplus van 4%.

U N I O N O F S O U T H A F R I C A.

DEPARTMENT OF IRRIGATION.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

VOL. XXI SEPTEMBER 1940. NO. 9.

OUTSTANDING FEATURES:

Mean temperatures slightly above normal except over the western and south western Cape; cool days and warm nights; exceptionally cloudy month with excessive rains over the interior, but subnormal precipitation over coastal areas; frequent hailstorms.

ATMOSPHERIC PRESSURE:

The distribution of mean atmospheric pressure is shown on Chart I. The distribution is typical of the transition from winter to summer conditions and already shows the summer depression over Bechuanaland, whilst the permanent winter anticyclone has broken up. Pressure was on the whole slightly subnormal.

TEMPERATURE:

The departure of mean temperature from the normal is shown on Chart II. Mean temperatures were above normal mainly over the eastern half of the Union and the centre and northern borders of the Cape Province. The wester, southwestern and southern Cape showed subnormal temperatures.

The general mean temperature for the Union as a whole was 60.9°F, or 0.7° above normal. Considering the provinces separately, the Cape, Transvaal, Natal and the Free state showed mean temperatures above normal by 0.1°, 1.2°, 1.4° and 1.3° respectively.

Mean maximum-, or day-temperatures, were on the whole quite appreciably below normal, and negative departures from 2 to 4° were quite common. Only the southeast and east coastal zones showed mean maxima above the normal.

Mean minima, or night-temperatures, on the other hand were considerably above normal except over the western and southwestern Cape province. Positive departures from 4 to 6°F were quite common over the Transvaal.

For the Union as a whole, the mean maximum temperature was 73.0°F or 1.1° below normal, and the mean minimum 48.8°, or 2.6° above normal. The mean diurnal temperature fluctuation was therefore 3.7° less than usual, the reason for this being the frequent cloudy and rainy weather whereby both solar radiation by day and terrestrial radiation at night are arrested. (See also cloud column in Table I).

The following were the highest maximum temperatures registered in each province: 99° at Clanwilliam (C.P.) on the 26th; 99° at Komatipoort (Tvl.) on the 30th; 97°

at Otobotini (N) on the 28th, and 84.5° at Kroonstad (O.F.S.) on the 12th.

The lowest minimum temperatures registered in each province were:- 17° at Sutherland (C.P.) on the 4th; 26° at Wakkerstroom (Tvl.) on the 1st; 40° at Weenen (N) on the 1st, and 20.5 at Fauresmith (O.F.S.) on the 5th.

FROST:

Frost was on the whole less frequent than usual, though damaging frost occurred in the Freestate and interior Cape mainly during the first week of this month. (See observers' notes).

PRECIPITATION:

The distribution of precipitation, expressed as a percentage of the normal, is roughly shown on Chart III. It is interesting to note that, with the exception of a small area around Bloemhof and Vaalhartz, the whole interior of the Union (interior high plateau) received precipitation far in excess of the normal whilst along the coastal belt, especially the south and east coast, rainfall was below normal.

Considering the provinces as units the Transvaal, Freestate, Natal and Cape showed surplusses amounting respectively to 229%, 130%, 6% and 50% of their normal rainfall. In the latter province the 'summer'& 'winter' rainfall zones showed surplusses of 111%, 14% respectively, whilst the precipitation for the 'all seasons' zone just reached the normal. For the Union taken as a whole, there was a surplus of 82%.

The summer rainfall zone of the Union, and more particularly the eastern interior Cape, the Freestate, the southeastern, centre, western and northwestern Transvaal received showers and thundersterms almost daily from the 18th to the end of the month. Before the 18th isolated showers occurred mainly from the 4th to 7th and from the 11th to 14th. The centre, northern and northwestern Cape province were particularly favoured on the 11th, 12th, 13th, 26th and 27th. The winter rainfall zone and the southern Cape coastal belt had showers at intervals mainly from the 1st to the 18th.

HAIL:

Hailstorms were very frequent and occurred mainly in the eastern interior Cape Province, the Freestate, northern districts of the Cape, the western, centre and southeastern Transvaal and in the interior of Natal. These storms occurred on the following dates:- 6th, 11th, 13th, 14th, 19th and 21st to 30th, but were most prevalent on the 21st, 22nd and 23rd, causing considerable damage at certain centres. Slight hail also occurred in the southwestern Cape on the 2nd and 3rd. (See also observers' notes).

SNOW:

Snow was observed on the mountains in the southwestern, southern and eastern Cape province on the 3rd, 7th to 9th and 19th.

THE CUMULATIVE PRECIPITATION:

The cumulative precipitation since January 1st 1940 was above normal mainly over (1) the centre and eastern interior Cape and the southern Cape, (2) over the southern Freestate, (3) over Bechuanaland and the major portion of the Transvaal (except the eastern lowveld), and (4) over northern Natal. The remainder of the Union showed a subnormal rainfall (See table II). Considering the provinces as units, the Cape, Freestate and Transvaal showed surplusses amounting respectively to 6%, 1% and 5% of the normal, and Natal a deficit of 3%. The Cape summer rainfall zone had a surplus of 14%, whilst the 'winter' and 'all seasons' rainfall zones showed deficits of 2% and 4% respectively. For the Union as a whole, there was a surplus of 3%.

THE SEASONAL PRECIPITATION:

The seasonal precipitation from 1st July 1940, expressed as a percentage of the normal, is roughly shown on Chart IV. Taking the provinces as units the Freestate and Transvaal showed surplusses amounting to 34% and 75% of the normal for this period, and the Cape and Natal deficits of 12% and 22% respectively. The Cape summer rainfall area showed a surplus of 34%, and the 'winter'- and 'all seasons' rainfall zones deficits of 35% and 31% respectively. The Union as a whole showed a surplus of 4%.

AANTEKENINGE VAN WAARNEMERS VIR SEPTEMBER 1940.

OBSERVERS' NOTES FOR SEPTEMBER 1940.

STEENKOPPIES KRUGERSDORP: Die nag van die 23ste op die 24ste om 1.20 v.m. is 'n stoor kamer deur 'n weerligstraal aan die brand geslaan. Alles daarin is verbrand. Die stoor kamer staan tussen twee woonhuise, ongeveer 30 voet van elke woonhuis. Die huise het veilig gebly. Reënval 464" op 13 dae.

J.M.J. de Klerk.

MAPPERLY RUSTENBURG: Very bad hail stones; one weighed 3 ounces. Rainfall 2.77 on 3 days.

M. Barwick

BUFFELSPOORT WATERBERG: Buitengewone goeie reëns vir veld en bome, maar te veel en aan houdend vir koring wat ryp word. Reënval 2.59 op 4 dae.

L. Moerdyk

SILOAM ZOUTPANSBERG: 6 Myl ten ooste van Siloam het 'n geweldige reen en haelstorm op die 30ste deurgetrek en geweldige verwoestings aangerig. Die Njelele rivier was nog nooit so vol, het tot 100 tree buite sy walle geloop. Haelstene het daar geval so groot soos ganseiers. Reënval 1.42 op 2 dae.

H. du Plessis.

BOSHOEK MAFEKING: The clouds appeared from the west with heavy thunder and lightning on the 23rd. Hail fell and at a neighbouring farm the hail was so big that it killed goats etc. Rainfall 2.19 on 3 days.

M.J. Nel.

WATERVAL BOSHOF: Tamelik groot hael op 'n paar buurplase. Op een plaas is die koring af geslaan en op 'n ander plaas is 42 skape doodgeslaan. Op Waterval was baie hael op die 15e maar dit was klein en het nie skade aangerig nie. Reënval 3.17 op 6 dae.

J.C. van Schalkwyk

CUMBERLAND KROONSTAD: Die eerste buie was baie stormagtig. Op sommige plekke in die omgewing het swaar haelbuie geval, dit het tot 'n voet dik gelê. Die meeste wind was gewoonlik noord tot later in die middag, toe sit dit om na wes. Reënval 1.54 op 4 dae.

P.J. van Niekerk.

MOOIPLAAS BOTHAVILLE: On Wednesday 6.10 p.m. 25th September lightning killed span of 4 oxen and threw 2 boys off the scotch cart. There was a great blue flash before the rainfall. Rainfall 1.85 on 7 days.

M. Adams.

SCHOONGEZICHT - WITBANK: About a half mile from the house a severe hail storm passed over and did quite a lot of damage to fruit trees. Rainfall 3.19 on 6 days.

J. van der Merwe.

KLIPDRIFT - LICHTENBURG: Die maand begin met mooi warm weer en ligte buie. Teen die einde van die maand reën dit oor die algemeen goed. Reën gepaard met sterk wind en hael. Reënval 2.32 op 7 dae.

P.J. Schutte.

BIDEFORD - NEWCASTLE: Bad lightning, veld set alight, drought broken. Hail on the 30th, fruit trees badly damaged and cattle are badly bruised. Rainfall 2.02 on 2 days.

M.H. van Zyl.

SAAIFONTEIN - HANOVER: Ryp doen skade aan groente en gesaaides. Veld groen, geen vee siektes. Verder is gesaaides belowend. Reënval 2.50 op 6 dae.

S.J. du P. Roos.

DOMBIETERSFONTEIN - VICTORIA WES: Die veld en gesaaides is belowend. Vrugte sal uit die kwessie wees. Dit is alles doodgeryp tot 'n baie groot mate. Reënval 1.45 op 6 dae.

G.W.A. van Heerden.

TUGELA FERRY - MSINGA: Heavy hailstorm on 22nd. Thunder and lightning and hail did tremendous damage to peas and green peaches. One case reported of a house having collapsed as a result of which two native children and their mother were injured. Rainfall: 4.96 on 6 days.

The Magistrate.

KRUGERSDORP (CORONATION PARK): September was cloudy and comparatively warm. Misty and very wet during the latter half. Rainfall highest on records here for September. 4.72 inches of rain were recorded on 11 days.

Walter W. Webster.

GOOLDVILLE (N. Tvl.): Wettest September on records, also biggest recorded single rainfall on the 30th, when 5.68" fell. High temperatures followed by sudden fall. 7.43 inches of rain fell on 13 days.

E.I. Aitken.

QUEENSTOWN (C.P.): Thunderstorms were twice accompanied by hail, which on the 29th did considerable structural damage. 2.36" of rain fell on 10 days.

Sr. M. Joseph

BOULDERS (E. TVL.): Absence, generally speaking of electrical storms. Third week cool cloudy threatening rain. Rains usually soft showers. A little thunder and lightning accompanied shower on last day. 0.96 inches of rain were recorded on 5 days.

(Mrs.) N.A. Cordes.

POTCHEFSTROOM: The exceptional high precipitation makes it by far the most outstanding and leading feature during the month. It also established a new record for September since observations were started at this station in 1903. During the second half of this month weather conditions remained unsettled and cloudy. 3.67 inches of rain were recorded on 8 days.

B.D. Saayman.

ESTCOURT: Generally warm, windy and cloudy, with a few short thunderstorms, some without precipitation at station. 3.13 inches of rain fell on 8 days

W. Lambrechts.

EMERALD DALE: After a very dry winter the rainfall this month has been inadequate. The rain which fell on the 30th instant, registering 0.65", has been long overdue. 1.51 inches of rain fell on 10 days.

Max Anderson.

UPINGTON: Oor die algemeen taamlik warm. Kwaai ryp op die 4e en 5e, wat heelwat skade aangerig het. Swaar haelbuie in die distrik op die 27ste, maar min skade is aangerig. 1.62 duim reën is aangeteken vir 2 dae.

S. Malan.

PRIESKA: 1.70 inches of rain were recorded on 5 days, which is fairly high in comparison with the last two years. Temperatures varied between 85.6°F and 29.0°F.

S.K. Visser.

ARMOEDSVLAKTE (VRYBURG): Hierdie maand was taamlik warm met koel nagte en baie wind. Die reëns was onvoldoende. 0.61 duim is aangeteken vir 5 dae.

R.J.J. Briel.

FAURESMITH (VELDRESERWE): Die weer was baie winteragtig hierdie maand. Kwaai ryp het skade gedoen aan vrugte. In verskillende dele van die distrik het hael heelwat skade aangerig. 1.92 Duim reën is aangeteken vir 5 dae.

H.J. v.d. Walt.

CHAMPAGNE: Nothing of special importance to report, apart from some high temperatures for this time of the year. 2.56 inches of rain were recorded on 10 days.

E C. Boyce

CRADOCK: The weather for the month has been generally mild with the exception of a few cold days and snow on the Zwagershoek mountains on the 19th instant. 1.54 inches of rain were recorded on 4 days.

B. v.d. Merwe.

RUSTENBURG: Die reën wat aangeteken is gedurende hierdie maand was almal vergesel van donderstorms. 'n Uitstaande kenmerk van hierdie maand is die feit dat dit baie mistig was. 3.30 duim reën is aangeteken vir 10 dae.

F. de Villiers.

MODDERPOORT: The long spell of dry weather which had continued throughout August broke on the 6th of this month with a slight fall of rain. For the remainder of the month rain fell at fairly regular intervals. There were several thunderstorms, especially on the 23rd, when a tree was struck by lightning, and also on the 28th. 2.29 inches of rain were recorded on 12 days.

John W. Eddolls.

"PRETORIA" FARM: Temperatures about normal in spite of the large proportion of cloudy days. 0.15 inches of rain fell on 5 days.

R. Bendall.

LOVEDALE: Rainfall well above average and well distributed. 2.79 inches were recorded on 11 days.

Charles A. Pilson.

VAALHARTZ: More wind than usual. Only 6 mornings on which the sky was clear from clouds. 0.39 inches of rain fell on 6 days.

The Resident Engineer.

HARTEBEESPOORT PROEFSTASIE: Die eerste helfte van die maand was oor die algemeen warm en droog. Die ligte reën het die gras laat bot. Die laaste helfte was klam en bewolk. Die bewolktheid was bo normaal. 2.61 duim reën is aangeteken vir 10 dae.

Die Verantwoordelike
Amptenaar.

JOUBERTSDAL: Koel weer het gedurende die maand geheers, en die reën was voldoende. 2.72 duim is aangeteken vir 7 dae.

J.P. Joubert.

ZEERUST: Sagte deurdringende reëns het geval gedurende die maand. Hael het op verskeie plekke in die distrik skade aangerig aan gesaaides en vrugte. 4.04 duim reën is aangeteken vir 8 dae. Daar was baie donderweer.

C.H. Korf.

PADDOCK (N.): A good early spring, with steady falls of rain. Generally cool and cloudy. 2.54 inches of rain were recorded on 15 days.

I.F. Harrison.

HERMITAGE (C.P.): Quite often overcast. Rain in good showers and drizzles. Not so cold as previous months. Variable throughout. 1.90 inches of rain fell on 12 days.

The Research officer.

WEPENER (O.F.S.): Good rains were recorded during the month. 3.23 inches on 10 days. Frosts during the early part of the month damaged fruit and vegetable gardens. A severe hailstorm 10 miles away killed about 300 sheep. Reports of very heavy rain storms on farms were also a feature of the month's weather. Thunderstorms accompanied all rainy days.

W.T.E. Kemm F.R.M.S.

BALFOUR (C.P.): Quite good rains. Early and spasmodic blossoming of citrus trees, due to warm spells. 3.00 inches of rain fell on 9 days.

E. W. Hulse.

MOUNT EDGECOMBE (N.): The total rainfall for the month was 1.72 inches on 8 days. The average rainfall for the past 53 years for September is 2.76 inches. The mean temperature for the month was 2.6°F above the average. The total hours of sunshine were well below normal, while the mean relative humidity of the atmosphere was just about normal.

The Director, S.A. Sugar Expt. Station.

SANDFLATS : MOUNT CURRIE: Temperatures somewhat erratic, alternating warm and cold Two average frosts during first week, warming up later. Smoky atmosphere cleared by rains. Cloudy to overcast days with mainly light to moderate winds, very changeable with somewhat high westerly winds. Good rains towards end of month. 2.20 inches of rain were registered on 9 days.

Hewson B. Corderoy.

DOHNE: Warm, baie wind en droog gedurende die begin van die maand, maar na die reëns aangenaam. 3.13 duim reën is aangeteken vir 11 dae.

J.H.K. Krüger.

KLAVER: Na die afgelope paar maande van abnormale reënval, het hier deurdringende reëns vroeg in die maand uitgesak. 1.80 duim is aangeteken in 5 dae.

Die Weerkundige beampte.

LOSKOP IRRIGATION WORKS (TVL.): Temperatures varied between 89.4°F and 50.7°F. Rain fell on 10 days totalling 1.63 inches. Hazy weather until rain came at end of month. Some stormy days, particularly on the 24th, when we had a regular gale in the evening.

The Resident Engineer.

KOPJE ALLEEN: Day temperatures were 1.1°F below normal. Night temperatures however were well above normal. The mean minimum being 52.8°F, compated with the average of 49.0°F. There were two ground frosts, on the 1st and 2nd. With the rain at the end of the month, there was a succession of cool to cold days. The rainfall for the month, 2.33 inches on 9 days, was 1.76 inches above the average for 28 years.

J. Lyall Soutter F.R.M.S.

RANNOCK: The early part of the month was dry and the nights generally cold. From the 12th there has been plenty of rain and some hail. Frosts have kept green grass from growing till last week. 4.74 inches of rain fell on 14 days.

K.G. Sephton.

SLENT (C.P.): Inclined to be cold at times for this period of the year. Snow was on the distant mountains on the 8th. Rain fell at intervals, ground maintaining its moisture nicely. 2.16 inches fell on 10 days.

R.W. Short.

LOUISVALE (C.P.): Fairly cool with easterly winds and cloudy weather. Rain during month very welcome. 1.85 inches were registered on 2 days.

B.T. Mennell.

QUTHING (BASUTOLAND): Weather generally good during the month. 4.69 inches of rain fell on 12 days.

D.A. Emmanuel Taabe.

CARNARVON: Die temperature was ongestadig. Op die 3e September het die temperatuur meteens 22 grade gedaal. Die reënval vir die maand was buitengewoon en ver bo normaal. 1.00 duim reën is aangeteken vir 3 dae.

Jac P van Wyk.

RIETPOORT: The month was remarkable for the frequent falls of rain at almost regular intervals, but of very different quantities. 1.35 inches fell on 9 days.

B.D.H. Hudson.

NELSPOORT: Comparatively mild month, with one or two very cold days. No frosts experienced. 0.82 inches of rain fell on 4 days.

The Medical Superintendent.

SUTHERLAND: Days usually cloudy with strong wind towards the afternoons. Severe frost occurred during the month, doing much damage to vegetation. The district is very dry. 0.27 inches of rain were recorded on 6 days.

The goaler

TABEL I : TEMPERATUUR EN BEWOLKTHEID : SEPTEMBER 1940.

Resultate van waarnemings om 0830 S.A. Standaard Tyd.

STASIE	LUG TEMPERATURE IN °F. Gem. Maks.	Gem. Min.	Gem.	Vers. Norm.	Abs. Max.	Date	Abs. Min.	Date	AANTAL DAE. Min. Onder 37	32	27	Max. Bo. 90	95	100	Gem	BEWOLKTHEID. Aantal Dae. 0-1	2-5	6-9	10
KAAPPROVINSIE:																			
ALIWAL NOORD	70.2	42.4	56.3	-0.7	79.0	17	23.0	6	8	6	4	0	0	0	4	14	6	10	0
ARMOEDSVLAKTE	79.0	47.7	63.4	+1.6	87.2	12	30.8	5	3	1	0	0	0	0	5	10	3	13	4
BEAUFORT WES	70.7	46.7	58.7	-0.6	86.1	10	28.3	4	6	1	0	0	0	0	4	16	2	6	6
BRITSTOWN	73.9	45.9	59.9	+3.4	82.0	17	31.0	9	4	1	0	0	0	0	2	18	8	2	2
CALA	69.7	47.7	58.7	+0.2	83.0	10	31.0	4	4	2	0	0	0	0	5	10	5	5	9
C.L'AGULHAS	62.3	51.2	56.8	-0.6	69.0	17	43.0	4	0	0	0	0	0	0	5	7	10	9	4
CARNARVON	70.2	42.2	56.2	+0.4	81.3	26	27.3	4	10	7	0	0	0	0	3	16	4	8	2
CERES	66.8	37.8	52.3	-3.1	86.0	26	30.0	20	12	2	0	0	0	0	3	17	6	6	0
CLANWILLIAM	77.8	47.2	62.5	+1.7	99.0	26	36.0	4	1	0	0	3	1	0	4	16	2	3	9
CRADOCK	71.6	43.2	57.4	-1.2	86.0	2	27.0	4	6	2	0	0	0	0	4	12	7	7	4
DEEPWALLS	62.7	47.1	54.9	-0.3	85.0	17	37.8	4	0	0	0	0	0	0	5	9	7	6	8
EAST LONDON (SIGNAL STATION)	71.5	54.8	63.2	+1.2	94.8	2	48.0	9	0	0	0	2	0	0	5	9	6	10	5
GOODHOUSE	80.9	52.2	66.6	-2.2	95.0	26	40.0	8	0	0	0	4	0	0	3	19	3	6	2
GRAAF REINET	72.8	48.6	60.7	-1.3	88.0	17	36.2	4	2	0	0	0	0	0	6	10	3	8	9
GRIQUATOWN	72.9	43.7	58.3	+1.1	89.0	21	21.0	4	8	4	2	0	0	0	3	13	5	2	6
GROOT DRAKENSTEIN	66.8	46.0	56.4	-1.1	91.0	26	35.4	4	1	0	0	1	0	0	4	16	3	8	3
GROOTFONTEIN(K-P)	68.0	40.6	54.3	-0.9	79.1	17	18.4	5	11	7	5	0	0	0	5	11	3	13	3
HOPETOWN	75.0	47.1	61.0	+1.3	86.0	17	30.0	5	5	3	0	0	0	0	3	11	10	9	0
IDUTYWA	68.9	48.9	58.9	+0.5	87.0	10	36.0	5	1	0	0	0	0	0	6	8	5	4	13
KENHARDT	76.4	47.0	61.7	+0.1	90.0	22	33.0	4	4	0	0	0	0	0	3	17	3	5	5
KIMBERLEY AERO	75.6	47.8	61.7	+1.4	83.9	29	27.8	5	5	2	0	0	0	0	4	15	2	10	3
KINGWILLIAMSTOWN	73.9	49.0	61.4	+0.4	94.0	1	38.0	6	0	0	0	3	0	0	4	12	6	5	7
KLAVER	72.3	49.2	60.8	-1.4	93.9	26	38.0	4	0	0	0	1	0	0	5	15	1	3	11
KOKSTAD	(71.6)	(42.9)	(57.2)	(+1.0)	84.5	7	(34.0)	(5)	(4)	(0)	(0)	0	0	0	4	10	7	4	9
KURUMAN(SEODIN)	75.3	46.6	60.4	+1.2	84.0	23	30.0	5	4	1	0	0	0	0	5	10	6	6	8
MAFEKING	77.7	52.5	65.1	+1.0	86.6	12	44.0	4	0	0	0	0	0	0	4	5	9	16	0
MATROOSBERG AERO	63.1	39.6	51.4	-0.6	80.6	26	26.6	4	11	3	1	0	0	0	4	11	9	6	4
MOSSELBAAI AERO	66.0	50.6	58.3	+0.8	85.2	27	42.8	4	0	0	0	0	0	0	5	11	6	6	7
O'OKIEP	66.7	45.3	56.0	-2.6	83.5	16	33.2	8	3	0	0	0	0	0	3	17	3	6	4
OUDTSHOORN	71.9	44.3	58.1	-1.0	91.0	27	33.0	4	3	0	0	1	0	0	2	17	6	6	0
PT. ELIZABETH AERO	67.7	50.3	59.2	+0.8	91.0	27	37.6	5	0	0	0	1	0	0	4	12	6	8	4
PORT NOLLOTH	59.8	47.0	53.4	-1.0	73.0	8	39.0	4	0	0	0	0	0	0	6	9	5	4	12
PORT ST. JOHNS	72.3	60.7	66.5	+1.3	95.0	2	53.0	5	0	0	0	1	0	0	6	5	9	9	7
PRIESKA	75.5	48.0	61.8	+0.4	85.6	22	29.0	4	5	2	0	0	0	0	3	17	5	4	4
QUEENSTOWN	70.5	47.4	59.0	+0.2	84.0	10	31.0	4	4	1	0	0	0	0	4	10	6	11	3
RIETPOORT	69.5	46.5	58.0	+1.9	90.0	16	36.0	4	1	0	0	0	0	0	4	13	2	6	9
RIVERSDALE	70.5	46.0	58.2	-0.9	85.0	17	34.6	5	5	0	0	0	0	0	5	11	5	8	6
SOMERSET OOS	71.3	47.5	59.4	+0.3	88.6	1	33.2	4	5	0	0	0	0	0	5	10	3	8	7
SUTHERLAND	65.2	34.4	49.8	+1.0	77.0	27	17.0	4	19	13	6	0	0	0	(6)	2)	(7)	(4)	(8)
UITENHAGE	73.8	50.3	62.0	+1.4	93.4	27	39.0	5	0	0	0	3	0	0	4	15	2	1	8
UMTATA	74.2	48.5	61.4	+1.2	94.0	11	33.0	5	3	0	0	2	0	0	(5)	6)	(8)	(2)	(7)
UPINGTON	76.4	50.3	63.4	+0.0	89.9	22	34.4	4	2	0	0	0	0	0	3	15	7	6	2
VAN WYKSVLEI	74.2	45.3	59.8	+2.9	87.8	17	27.8	4	6	2	0	0	0	0	3	16	7	3	4
VICTORIA WES	69.1	41.2	55.2	+0.7	81.0	17	26.0	5	9	5	1	0	0	0	4	12	8	6	2
WILLOWMORE	66.6	42.3	54.4	-1.0	85.0	1	31.0	4	5	1	0	0	0	0	5	7	5	8	6
WINGFIELD AERO	63.7	47.9	55.8	-0.8	83.0	26	32.7	4	3	0	0	0	0	0	5	12	3	10	5
TRANSVAAL:																			
BARBERTON	77.0	58.0	67.5	-0.3	88.8	29	49.8	1	0	0	0	0	0	0	6	8	4	8	10
BELFAST	68.2	43.5	55.8	+1.8	78.0	11	28.0	2	5	2	0	0	0	0	5	8	6	8	8
ERMELO(DORP)	73.1	46.7	59.9	+2.1	85.0	11	39.0	1	0	0	0	0	0	0	6	9	3	5	13
GERMISTON AERO	70.4	50.2	60.3	+0.9	81.1	12	41.0	4	0	0	0	0	0	0	5	10	5	4	11
HEIDELBERG	74.4	46.9	60.6	+1.6	85.7	12	33.5	2	3	0	0	0	0	0	6	9	4	2	15
JOUBERT PARK	69.7	50.0	59.8	-0.3	78.5	11	45.0	4	0	0	0	0	0	0	6	9	4	6	11
KLERKSDORP	76.9	49.7	63.3	+0.7	89.5	12	35.8	5	2	0	0	0	0	0	4	12	2	7	4
KOMATIPOORT	85.1	-	-	-	99.0	30						8	1	0	5	4	6	15	0

TABEL I : TEMPERATUUR EN BEWOLKTHEID :SEPTEMBER 1940.

Resultate van waarnemings om 0830 S.A. Standaard Tyd.

STASIE.	LUG TEMPERATURE IN °F.								AANTAL DAE.							BEWOLKTHEID.			
	Gem. Max.	Gem. Min.	Gem.	Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. onder 37	32	27	Max. Bo. 90	95	100	Gem.	Aantal Dae. 0-1	2-5	6-9	10
KOPJE ALLEEN	80.0	52.8	66.4	+0.8	88.7	12	38.1	1	0	0	0	0	0	0	5	8	7	6	9
LEYABA	84.9	57.7	71.3	-	97.4	30	39.4	2	0	0	0	10	3	0	5	13	2	5	9
LOUIS TRICHARDT	74.8	54.2	64.5	-0.5	90.0	14	40.0	1	0	0	0	0	0	0	6	7	-	3	13
MESSINA	84.2	62.9	73.6	+0.8	98.8	30	51.0	1	0	0	0	8	3	0	4	17	3	2	8
MIDDELBURG	72.3	46.5	59.4	-0.0	81.5	12	30.0	2	3	2	0	0	0	0	6	6	4	14	6
NYLSTROOM	79.2	51.4	65.3	+1.5	87.0	12	33.0	1	1	0	0	0	0	0	3	12	8	9	0
PIETERSBURG AERO	76.1	50.1	63.1	+0.4	86.4	29	32.4	1	2	0	0	0	0	0	6	-	4	6	13
PIET RETIEF	74.8	50.8	62.8	+2.0	87.5	11	37.2	3	0	0	0	0	0	0	7	-	4	3	13
PELGRIMSRUS	74.8	49.6	62.2	+1.0	86.8	12	39.0	1	2	0	0	0	0	0	5	8	5	8	9
POTCHEFSTROOM	76.9	49.1	63.0	+1.7	89.0	12	36.0	30	1	0	0	0	0	0	5	12	4	9	5
PRETORIA (MET)	73.3	52.2	62.8	+0.6	82.2	12	42.0	2	0	0	0	0	0	0	6	12	6	5	13
PUNDA MARIA	82.6	60.5	71.6	-	98.0	30	50.0	1	0	0	0	7	1	0	4	12	7	2	9
RUSTENBURG	79.5	52.5	66.0	+1.5	89.0	14	39.0	3	0	0	0	0	0	0	6	7	6	9	12
SEKUKUNILAND	75.9	56.5	66.2	+2.2	84.0	12	49.0	1	0	0	0	0	0	0	4	10	11	3	6
STANDERTON	72.5	47.2	59.8	+2.0	85.0	12	32.0	1	3	0	0	0	0	0	6	5	6	19	0
VAALHARTZ	77.1	46.7	61.9	+3.9	84.9	9	26.8	4	6	3	1	0	0	0	5	11	4	9	5
WAKKERSTROOM	69.7	43.7	56.7	+1.9	82.1	12	26.0	1	3	1	1	0	0	0	5	13	2	3	12
ZEERUST	78.4	51.8	65.1	+1.6	88.0	12	36.0	2	1	0	0	0	0	0	6	7	5	14	4
NATAL:																			
DUNDEE	74.4	50.8	62.6	+1.5	85.2	7	43.4	1	0	0	0	0	0	0	6	6	5	10	9
DURBAN AERO	73.6	59.7	66.6	+2.2	93.9	7	49.4	1	0	0	0	1	0	0	6	8	3	9	10
EMTANGENI	76.6	60.9	68.8	+0.9	95.0	2	54.0	4	0	0	0	1	0	0	5	7	8	8	7
ESHOWE	74.4	56.9	65.6	+0.6	93.0	2	49.0	4	0	0	0	2	0	0	5	8	3	12	2
ESTCOURT	74.3	49.3	61.8	+1.2	86.5	11	40.5	2	0	0	0	0	0	0	6	7	6	12	5
LADYSMITH	77.4	53.4	65.4	+1.8	90.0	11	43.0	1	0	0	0	0	0	0	7	6	5	5	14
MELMOTH	75.0	55.3	65.2	+0.8	93.3	7	47.7	5	0	0	0	4	0	0	7	6	2	11	11
OTOBOTINI	(83.2)	(60.6)	(71.9)	(+1.0)	(97.0)	(28)	(50.0)	(2)	(0)	(0)	(0)	(5)	(1)	(0)	(7)	5)	(1)	(4)	(14)
PIETERMARITZBURG	76.4	55.1	65.2	+1.6	93.6	11	47.0	4	0	0	0	3	0	0	6	9	1	9	11
PORT SHEPSTONE	72.2	60.0	66.1	+1.6	81.5	18	52.0	30	0	0	0	0	0	0	5	7	9	5	9
VRYHEID	74.3	53.6	64.0	+1.2	87.6	11	46.0	1	0	0	0	0	0	0	6	8	2	7	13
WEENEN	78.9	52.2	65.6	+2.6	92.0	11	40.0	1	0	0	0	1	0	0	5	8	11	1	10
O.V.S:																			
BETHULIE	71.8	44.3	58.0	+0.4	81.0	17	26.0	5	7	4	1	0	0	0	4	11	9	4	6
BLOEMFONTEIN AERO	72.2	42.7	57.4	-0.8	81.0	17	26.5	4	8	7	2	0	0	0	4	13	5	10	9
FAURESMITH	71.4	42.3	56.8	+1.2	81.9	17	20.5	5	10	7	3	0	0	0	4	15	2	7	6
HARRISMITH	74.5	42.2	58.4	+3.4	84.0	18	34.0	3	2	0	0	0	0	0	5	9	8	13	0
KROONSTAD	75.6	44.7	60.2	+0.6	84.5	12	33.0	30	3	0	0	0	0	0	4	11	7	5	7
LADYBRAND	71.0	44.9	58.0	+1.6	78.0	13	30.0	4	3	1	0	0	0	0	4	12	3	3	13
LINDLEY	73.8	45.5	59.6	+1.8	82.0	12	33.0	30	6	0	0	0	0	0	4	7	15	8	0
WEPENER	71.3	43.9	57.6	+1.8	78.4	9	23.8	5	10	6	3	0	0	0	5	12	2	11	5
BASOETOLAND:																			
BUTHA BUTHE	71.1	43.0	57.0	+0.7	77.0	13	28.0	1	7	1	0	0	0	0	5	13	4	2	11
MASERU	69.9	46.0	58.0	+1.2	78.0	7	32.0	4	4	0	0	0	0	0	4	11	10	5	4
QACHASNEK	66.2	43.4	54.8	+0.8	77.0	10	28.0	5	5	1	0	0	0	0	5	10	6	11	3
QUTHING	66.4	-	-	-	75.0	2	-	-	-	-	-	0	0	0	5	12	3	6	8
BETSJOEANALAND:																			
CARRONNES	81.3	54.6	68.0	+1.8	91.0	13	36.0	2	1	0	0	1	0	0	6	4	9	10	7
MANALAPYE	83.0	57.0	70.0	+2.0	93.0	13	40.0	2	0	0	0	5	0	0	6	8	1	12	9
TSABONG	79.0	48.7	63.8	-	92.0	23	29.0	5	3	1	0	1	0	0	3	13	9	6	2
SWAZILAND:																			
MBABANE	71.6	53.0	62.3	+1.1	82.0	29	46.0	1	0	0	0	0	0	0	6	7	6	3	14
SIEGI	78.2	55.3	66.8	+2.2	89.0	29	48.0	5	0	0	0	0	0	0	6	6	6	16	2

TABEL II : NEERSLAG IN DUIME : SEPTEMBER 1940.

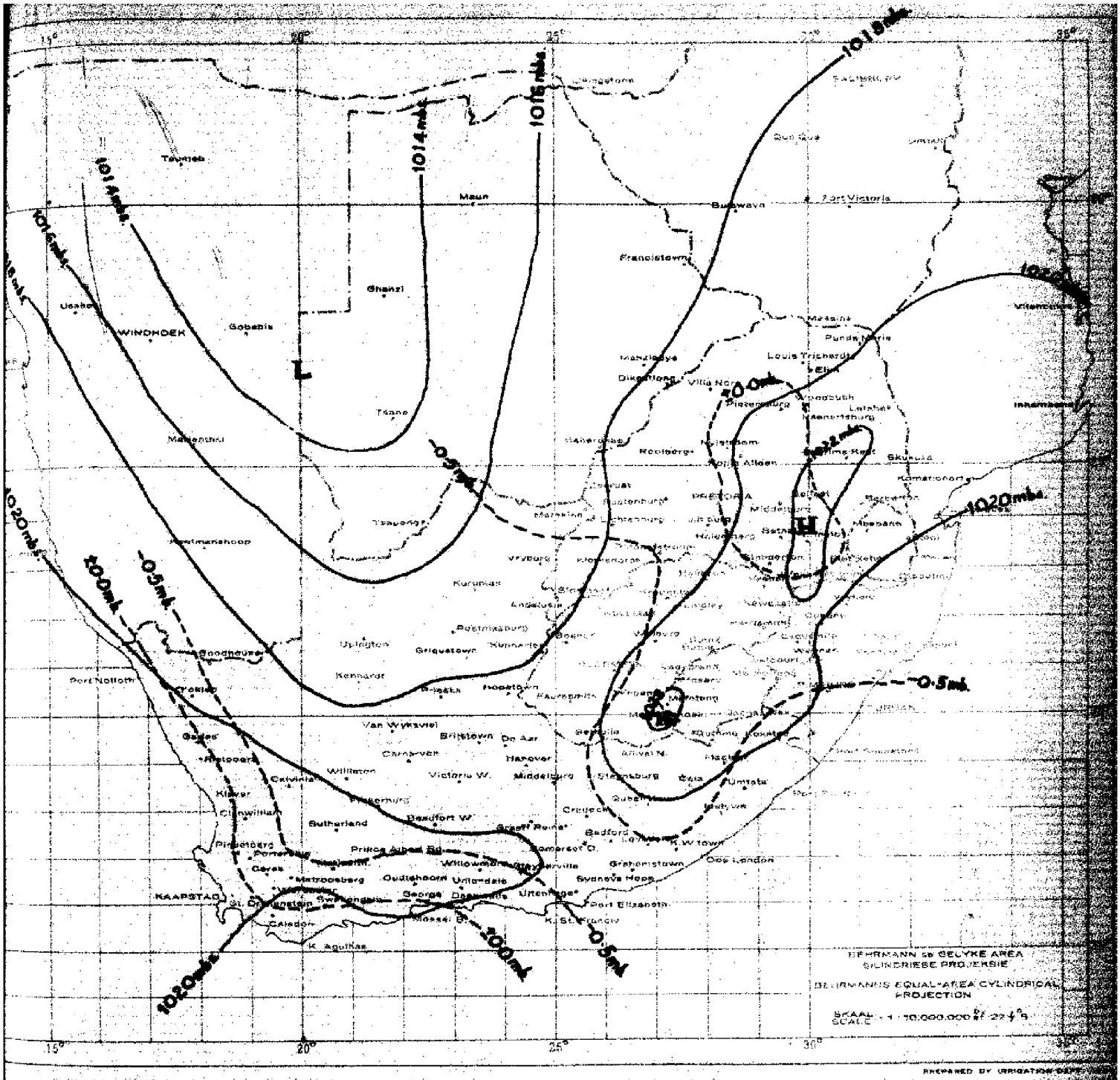
STASIE.	SEPT. 1940	NORM.	VERS.	%	MAX. HVD. IN 24H	DAT.	AANTAL DAE. 0.01" of meer	0.04" of meer.	TH. ☈	H. ▲	S. ✱	VERSAMELDE NEERSLAG. VANAF 1/1/'40 % VAN NORM.	VANAF 1/7/'40 % van NORM.
KAAPPROVINSIE:													
ABERDEEN ROAD	0.56	0.64	-0.08	98	0.45	26	2	2	0	0	0	93	131
ALIWAL NOORD	2.12	0.83	+1.29	256	0.60	27	10	7	1	0	0	134	143
ARMOEDSVLAKTE	0.61	0.41	+0.20	149	0.28	26	5	3	0	0	0	110	79
BEAUFORT WES	2.15	0.59	+1.56	365	0.97	11	4	4	5	1	0	116	216
BRANDVLEI	0.65	0.21	+0.44	305	0.65	11	1	1	0	0	0	65	90
BRITSTOWN	1.14	0.42	+0.72	272	0.96	11	3	3	0	0	0	86	208
CALA	2.72	1.24	+1.48	209	0.61	27	9	9	0	0	0	123	126
CARNARVON	1.00	0.28	+0.72	357	0.90	11	3	2	4	0	0	130	183
CATHCART	3.61	1.45	+2.16	249	1.13	24	8	8	1	1	0	93	147
CRADOCK	1.54	0.69	+0.85	223	0.65	12	4	4	0	0	0	184	182
DORDRECHT	2.15	1.40	+0.75	154	0.42	21	11	9	2	2	0	122	95
FRASERBURG	1.22	0.20	+1.02	610	1.10	11	2	2	0	0	0	109	202
GOODHOUSE	0.31	0.10	+0.21	310	0.30	11	2	1	0	0	0	105	77
GRAAFF REINET	2.21	0.95	+1.26	232	1.30	11	8	7	3	1	0	152	166
GRIKWASTAD	0.97	0.41	+0.56	237	0.39	21	6	5	0	1	0		
GROOTFONTEIN	1.27	0.83	+0.44	153	0.57	12	8	3	4	2	0	130	110
HANOVER	1.31	0.63	+0.68	208	1.00	11	3	3	0	0	0	182	183
HOPETOWN	1.24	0.45	+0.79	276	0.50	22	4	4	4	0	0	92	189
IDUTYWA	3.82	1.59	+2.23	241	1.06	12	10	9	0	1	0	143	142
KENHARDT	1.28	0.13	+1.15	985	1.25	12	2	1	0	0	0	92	248
KIMBERLEY	1.52	0.57	+0.95	267	0.64	23	8	6	7	0	0	98	188
KINGWILLIAMSTOWN	2.94	1.81	+1.13	163	0.79	23	9	8	0	0	0	105	103
KOKSTAD	1.32	1.50	-0.18	88	0.51	30	10	8	8	0	0	108	47
KURUMAN	0.73	0.35	+0.38	209	0.44	27	4	3	1	0	0	118	93
MACLEAR	1.24	1.55	-0.31	80	0.32	12	6	6	0	0	0	74	50
MAFEKING	2.04	0.69	+1.35	296	1.01	25	6	5	2	0	0	167	186
NELSPOORT	0.82	0.59	+0.23	139	0.71	11	4	3	0	0	0		
OOS LONDEN	2.36	2.79	-0.43	85	0.65	29	9	8	0	0	0	96	87
PELLA	0.97	0.07	+0.90	1386	0.97	14	1	1	0	0	0	274	374
PHILIPSTOWN	2.21	0.64	+1.57	346	1.06	11	5	5	3	1	0	110	222
PORT ST. JOHNS	4.58	3.55	+1.03	129	1.95	13	14	10	2	0	0	74	86
PRIESKA	1.70	0.21	+1.49	811	1.10	11	5	4	2	0	0	94	312
QUEENSTOWN	2.36	1.18	+1.18	200	0.71	12	10	7	2	2	0	129	126
RIETBRON	1.13	0.46	+0.67	246	0.48	28	4	4	0	0	0	128	205
RIETFONTEIN	0.75	0.12	+0.63	626	0.56	10	2	2	2	0	0	119	171
SOMERSET OOS	3.82	1.77	+2.05	216	1.10	12	11	10	2	1	0	113	166
STEYNSBURG	2.41	0.79	+1.62	305	0.85	11	7	7	2	2	0	111	188
UMTATA	2.56	1.70	+0.86	151	0.61	29	10	10	2	1	0	90	97
UPINGTON	1.62	0.10	+1.52	1620	1.07	26	2	2	3	1	0	135	423
VAALBOSCHHOEK	1.91	0.48	+1.43	398	1.16	25	6	4	5	0	0	113	234
VAN WYKSVLEI	1.66	0.24	+1.32	651	1.11	11	5	4	5	0	0	130	266
VICTORIA WES	1.16	0.51	+0.65	228	0.86	12	5	4	2	0	0	110	200
WILLISTON	1.11	0.26	+0.85	427	1.11	11	1	1	1	0	0	120	124
CALEDON	1.93	2.08	-0.15	93	0.65	2	10	10	0	0	0	92	54
CALVINIA	0.73	0.53	+0.20	138	0.28	7	5	5	2	0	0	128	72
CERES	2.90	3.81	-0.91	76	1.82	3	6	4	0	0	0	91	61
CLANWILLIAM	0.48	0.57	-0.09	84	0.17	6	6	3	0	0	0	76	52
DARLING	2.00	2.04	-0.04	98	0.86	6	7	6	0	0	0	101	62
GARIES	1.06	0.37	+0.69	287	0.36	8	8	6	0	0	0	95	86
GT.DRAKENSTEIN	2.36	3.48	-1.12	68	0.89	6	10	9	1	0	0	97	54
K.L'AGULHAS	2.07	1.66	+0.41	125	0.68	6	9	7	0	0	0	182	81
KLAVER	1.80	0.52	+1.28	346	0.76	7	5	4	0	0	0	101	123
MATROOSBERG	0.79	0.58	+0.21	136	0.27	7	7	5	0	0	1	84	44
O'OKIEP	1.25	0.40	+0.85	308	0.62	11	8	5	0	0	0	82	71
PIQUETBERG	2.30	1.80	+0.50	128	0.84	2	5	4	0	0	0	84	53

TABEL II : NEERSLAG IN DUIME : SEPTEMBER 1940. (Vervolg)

STASIE.	SEPT. 1940.	NORM.	DIFF.	%	MAX. HVD. IN 24 U.	DAT	AANTAL DAE. 0.01" of meer.	0.04" of meer.	TH.	H.	S.	VERSAMELDE NEERSLAG. Vanaf 1/1/'40 % VAN NORM	Vanaf 1/7/'40 % VAN NORM.
PORT NOLLOTH	0.79	0.15	+0.64	527	0.20	11	5	5	0	0	0	95	67
RIETPOORT	1.35	0.45	+0.90	300	0.62	6	9	4	0	0	0	77	79
SUTHERLAND	0.27	0.39	-0.12	69	0.10	7	6	3	0	0	1	100	93
WORCESTER	0.40	0.92	-0.52	43	0.16	2	4	3	0	0	0	57	24
WINGFIELD	1.77	1.44	+0.33	123	1.05	6	7	5	0	0	0	142	80
DEEPWALLS	4.56	4.54	+0.01	100	1.00	18	12	11	0	0	0	97	69
GEORGE	3.03	3.07	-0.04	99	0.49	18	13	11	0	0	0	101	67
HUMANSDORP	2.59	2.92	-0.33	89	1.35	8	6	6	0	0	0	87	64
LADISMITH	1.79	1.12	+0.67	160	0.37	18	10	10	0	0	0	109	78
MOSSELBAY	1.05	2.04	-0.99	50	0.22	11	12	9	0	0	0	106	42
OUDTSHOORN	0.92	0.86	+0.06	107	0.35	7	6	6	0	0	0	115	87
PORT ELIZABETH	1.82	2.64	-0.82	69	0.63	7	11	9	2	0	0	76	53
RIVERSDAL	1.52	1.55	-0.03	98	0.37	2	8	7	1	0	0	95	45
SWELLENDAM	4.17	2.55	+1.62	163	0.80	2	12	9	0	0	0	106	90
SYDNEYS HOPE	2.29	2.04	+0.25	112	0.49	7	10	9	2	0	0	93	83
TWEERIVIEREN	1.64	1.77	-0.13	93	0.90	8	4	4	0	0	0	91	71
UITENHAGE	1.85	1.84	+0.01	101	0.58	24	10	9	0	0	0	84	86
UNIONDALE	0.89	1.12	-0.23	79	0.30	7	7	4	1	0	0	102	77
O.V.S.													
BETHULIE	1.94	0.77	+1.17	252	0.67	22	10	9	3	3	0	101	132
BLOEMFONTEIN	2.09	0.96	+1.13	218	0.68	1[illegible]	12	[illegible]	9	0	0	94	152
BOSHOF	0.85	0.68	+0.17	[illegible]	0.45	14	6	5	0	0	0	97	85
[illegible]ENBURG	1.18	[illegible]	[illegible]	106	[illegible]	-	3	3	0	0	0	126	126
FAU[illegible]	1.92	0.54	+1.38	356	0.74	21	5	5	3	0	0	135	193
HARRISMITH	1.64	1.26	+0.38	130	0.45	14	9	8	1	1	0	78	79
HEILBRON	3.19	0.98	+2.21	326	1.05	23	7	7	[illegible]	[illegible]	[illegible]	102	178
KROONSTAD	2.42	0.84	+1.58	288	0.56	15	12	10	[illegible]	[illegible]	[illegible]	85	153
[illegible]DENBRAND	2.86	1.32	+1.54	217	0.75	18	11	10	[illegible]	0	0	89	140
LINDLEY	3.24	1.00	+2.24	324	0.65	25	10	10	[illegible]	[illegible]	[illegible]	109	185
PETRUSBURG	1.39	0.49	+0.90	284	0.35	19	7	6	1	0	0	127	171
REITZ	2.83	1.10	+1.73	258	0.94	14	6	6	0	0	0	98	144
VREDE	0.92	0.98	-0.06	94	0.50	20	4	4	0	0	0	103	51
WEPENER	3.23	1.07	+2.16	302	0.93	21	10	10	10	0	0	103	161
WINBURG	1.37	0.82	+0.55	168	0.69	23	4	4	2	0	0	97	99
TRANSVAAL:													
ALASKA	1.34	0.29	+1.05	462	0.72	19	4	4	0	0	0	111	162
BARBERTON	1.27	0.90	+0.37	141	0.44	24	9	8	3	0	0	121	81
BELFAST	4.59	0.99	+3.60	464	2.10	30	10	9	6	0	0	133	268
BETHAL	2.28	1.00	+1.28	228	1.25	24	9	9	0	0	0	111	128
BLOEMHOF	0.54	0.68	-0.14	79	0.31	19	2	2	0	0	0	96	44
CLIM HOSPITAL	3.88	0.50	+3.38	777	1.30	17	4	4	1	0	0	126	43
ERMELO	3.01	1.22	+1.79	247	0.96	24	13	9	9	2	0	123	157
GERMISTON	3.00	0.78	+2.22	385	0.75	25	13	9	5	0	0	101	201
GROENRIVIER	2.00	0.35	+1.65	572	0.60	26	6	6	0	0	0	120	216
HEIDELBERG	1.80	0.78	+1.02	231	0.84	24	11	9	0	0	0	114	127
JOUBERT PARK	4.47	0.99	+3.48	452	1.[illegible]	24	11	10	0	0	0	101	232
KLERKSDORP	0.80	0.68	+0.12	118	0.25	26	7	5	0	0	0	70	60
KOMATIPOORT	0.17	0.70	-0.53	24	0.17	25	1	1	2	0	0	68	52
KOPJE ALLEEN	2.33	0.55	+1.78	423	0.56	27	9	8	8	0	0	113	195
LETABA	0.77	0.38	+0.39	203	0.33	19	6	5	1	0	0	93	94
LICHTENBURG	1.91	0.50	+1.41	382	0.40	26	7	7	0	0	0	128	182
LOUIS TRICHARDT	1.88	0.44	+1.44	427	0.84	19	5	5	0	0	0	108	173

TABEL II : NEERSLAG IN DUIME : SEPTEMBER 1940 (VERVOLG).

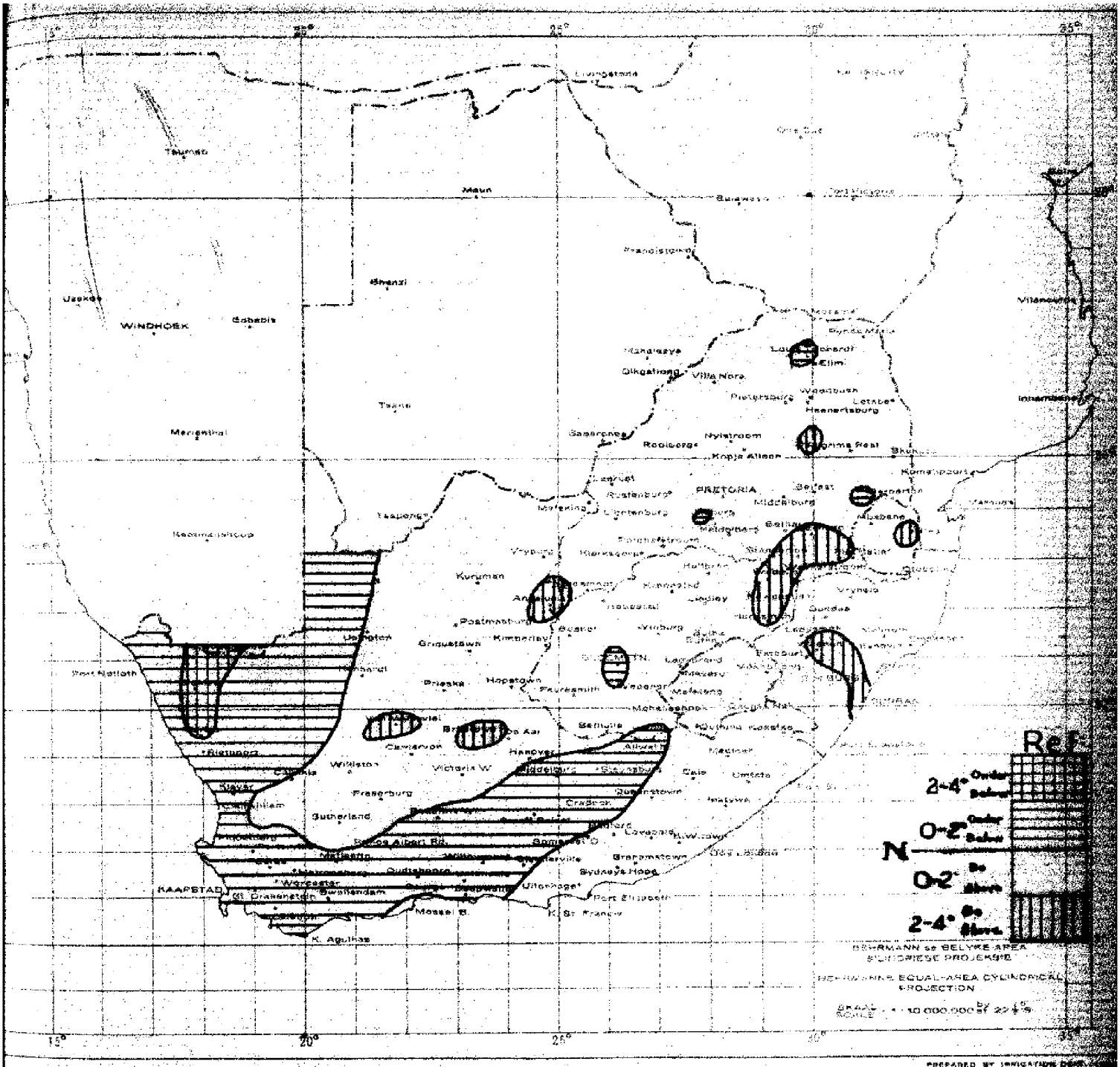
STASIE	SEPT. 1940.	NORM.	DIFF.	%	MAX. HVE. IN 24 U.	DAT.	AANTAL DAE. 0,01" of meer.	0,04" of meer.	TH.	H.	S.	VERSAMELDE NEERSLAG. Vanaf 1/1/'40 % VAN NORM.	Vanaf 1/7/'40 % VAN NORM.
MAASSTROOM	0,87	0,18	+0,69	483	0,87	1	1	1	0	0	0	33	178
MESSINA	0,00	0,08	-0,08	0	0,00	0	0	0	0	0	0	70	0
MIDDELBURG	2,05	0,86	+1,19	238	0,96	25	10	7	4	0	0	110	129
NYLSTROOM	2,79	0,54	+2,25	517	0,90	18	7	7	0	0	0	127	331
PIETERSBURG	0,52	0,30	+0,22	174	0,44	10	5	1	3	0	0	110	71
PIET RETIEF	4,63	1,74	+2,89	266	2,40	23	10	10	0	0	0	107	160
PELGRIMSRUS	3,82	0,76	+3,06	503	2,68	30	9	3	4	0	0	85	204
POTCHEFSTROOM	3,67	0,67	+3,00	547	2,10	25	8	8	4	0	0	103	260
POTGIETERSRUST	2,56	0,38	+2,18	674	0,98	30	6	6	0	0	0	121	291
PRETORIA	3,38	0,70	+2,68	483	1,02	24	10	10	6	1	0	76	218
PUNDA MARIA	0,25	0,35	-0,10	71	0,10	28	4	3	4	0	0	81	57
ROOIBERG	2,89	0,41	+2,48	706	0,83	18	6	6	1	1	0	113	252
RUSTENBURG	3,30	0,61	+2,69	542	0,89	20	10	8	11	1	0	98	254
SEKUKUNILAND	1,98	0,65	+1,33	305	0,72	30	9	8	0	0	0	93	218
STANDERTON	1,87	1,02	+0,85	183	0,56	6	5	5	1	0	0	86	101
VAALHARTZ	0,39	0,46	-0,07	85	0,22	13	6	4	0	0	0	119	60
WAKKERSTROOM	1,03	1,25	-0,22	82	0,47	19	4	3	4	0	0	104	45
WOODBUSH	5,21	1,65	+3,56	315	2,10	30	12	10	3	0	0	96	200
ZEERUST	4,04	0,39	+3,65	1037	1,07	26	8	8	5	0	0	131	488
NATAL:													
DUNDEE	[illegible]	1,66	-0,24	85	0,93	25	9	4	2	0	0	107	70
DURBAN	1,66	2,39	-0,73	69	0,99	13	9	4	2	0	0	87	61
EMPANGENI	1,64	2,56	-0,92	64	0,58	29	10	8	0	0	0	147	98
ESHOWE	3,00	3,25	-0,25	92	1,18	30	9	8	0	0	0	80	66
ESTCOURT	3,13	1,39	+1,74	226	1,32	22	8	7	8	0	0		140
HIMEVILLE	2,17	2,10	+0,07	103	0,74	24	9	6	0	0	0	106	65
KRANSKOP	3,45	1,97	+1,48	175	1,00	30	10	10	5	3	0	90	98
LADYSMITH	2,56	1,41	+1,15	182	1,26	30	9	9	8	0	0	81	94
LANDSDOWNE	1,98	2,26	-0,28	88	0,76	23	6	6	3	0	0	117	61
MELMOTH	1,87	1,52	+0,35	123	0,83	23	9	6	7	1	0	113	71
OTOBOTINI	0,61	1,28	-0,67	48	0,25	30	4	4	5	0	0	91	59
PIETERMARITZBURG	2,20	2,20	±0,00	100	0,82	30	12	7	2	0	0	99	61
PORT SHEPSTONE	1,48	3,48	-1,60	48	0,70	13	10	6	3	0	0	72	53
STANGER	3,00	2,87	+0,13	105	0,65	30	11	11	5	0	0	109	61
UMZIMKULU	1,18	1,44	-0,26	82	0,50	30	7	6	0	0	0	109	51
VRYHEID	1,40	1,58	-0,18	89	0,71	30	7	5	5	5	0	106	49
WEENEN	3,45	1,25	+2,20	276	1,74	23	6	6	5	0	0	119	158
BETSJOEANALAND:													
DIKGATLONG	1,69	0,25	+1,44	677	1,53	27	4	3	0	0	0	122	210
GABERONES	4,38	0,40	+3,98	1095	2,52	29	8	7	8	1	0	117	479
MAHALAPYE	2,16	0,29	+1,87	832	0,74	19	5	4	2	0	0	117	302
TSABONG	0,87	0,26	+0,61	335	0,23	5	5	4	0	0	0	128	143
BASOETOLAND:													
BUTHA-BUTHE	2,33	1,40	+0,93	167	1,38	22	7	6	1	1	0	93	91
MAFETENG	3,57	1,21	+2,36	295	0,86	22	9	9	0	0	0	97	181
MASERU	2,49	1,27	+1,22	196	0,55	16	9	7	5	0	0	84	120
MORIJESHOEK	3,70	1,20	+2,86	314	1,15	21	9	9	0	0	0	105	199
MOSHOESHOE	2,19	1,37	+0,82	160	-	-	-	-	-	-	-	103	104
QACHASNEK	2,81	2,01	+0,80	140	0,94	14	12	11	0	0	0	92	93
QUTHING	4,69	1,40	+3,29	336	1,20	22	12	11	0	0	0	120	204
WHITE HILL EST.	2,73	1,09	+1,64	251	0,90	21	7	7	0	0	0	91	174
SWAZILAND:													
HLATIKULU	3,16	2,22	+0,94	142	1,14	13	15	10	0	0	0	92	92
MBABANE	4,46	2,32	+2,14	192	1,30	30	12	12	2	0	0	103	115
PIGGS	1,61	1,50	+0,11	107	0,90	30	8	7	0	0	0	103	67



KAART I CHART I

September 1940 : Gemiddelde Lugdruk by Seespieël om 8·30 v.m. Die gebroke lyne dui die afwyking van die normale druk vir September aan.

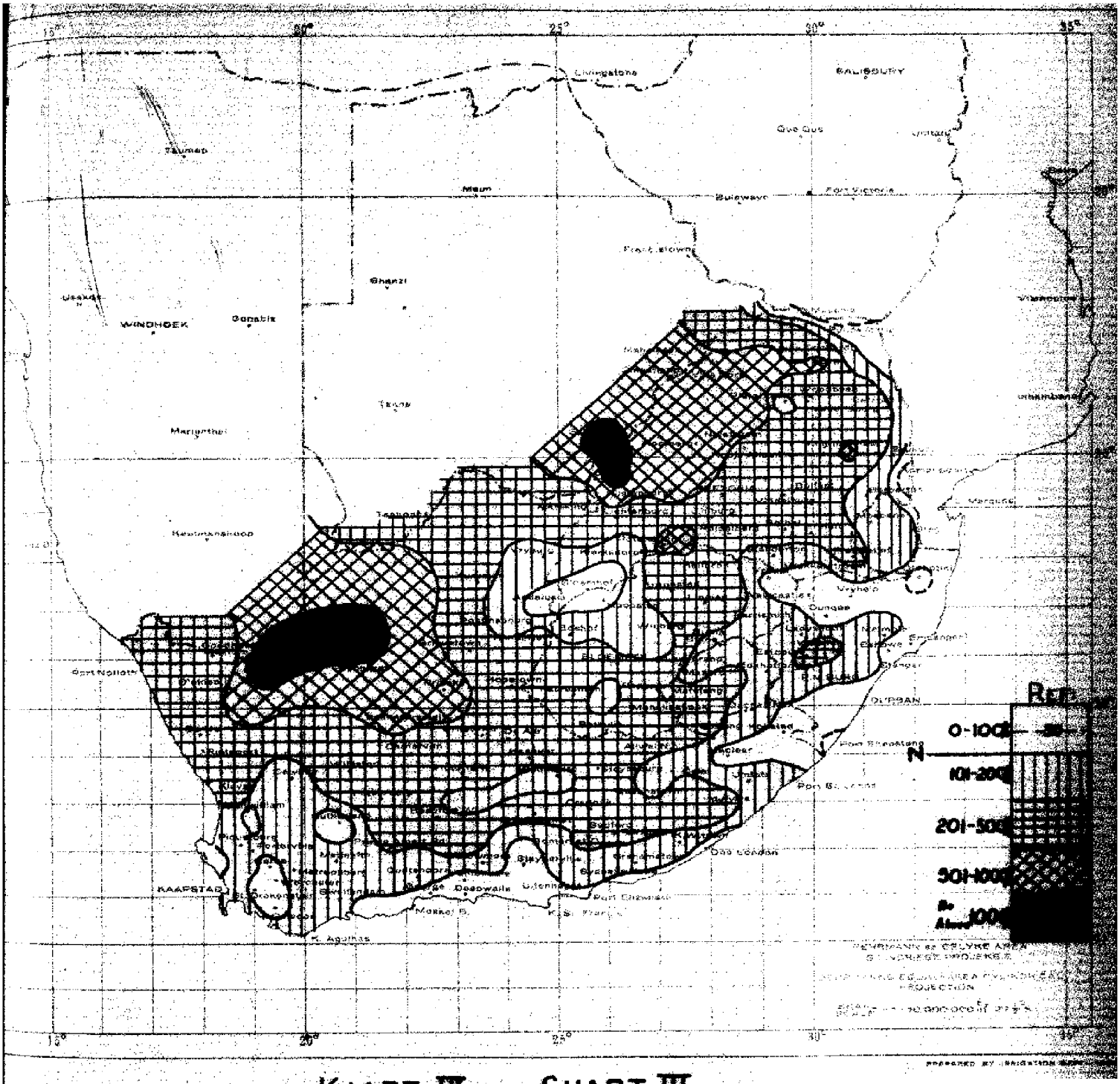
September 1940: Mean Atmospheric Pressure at M.S.L. at 8·30 a.m. The broken lines indicate the departure from the normal pressure for September.



KAART II CHART II

September 1940: Gemiddelde Temperatuur,- afwyking van die normaal in °F.

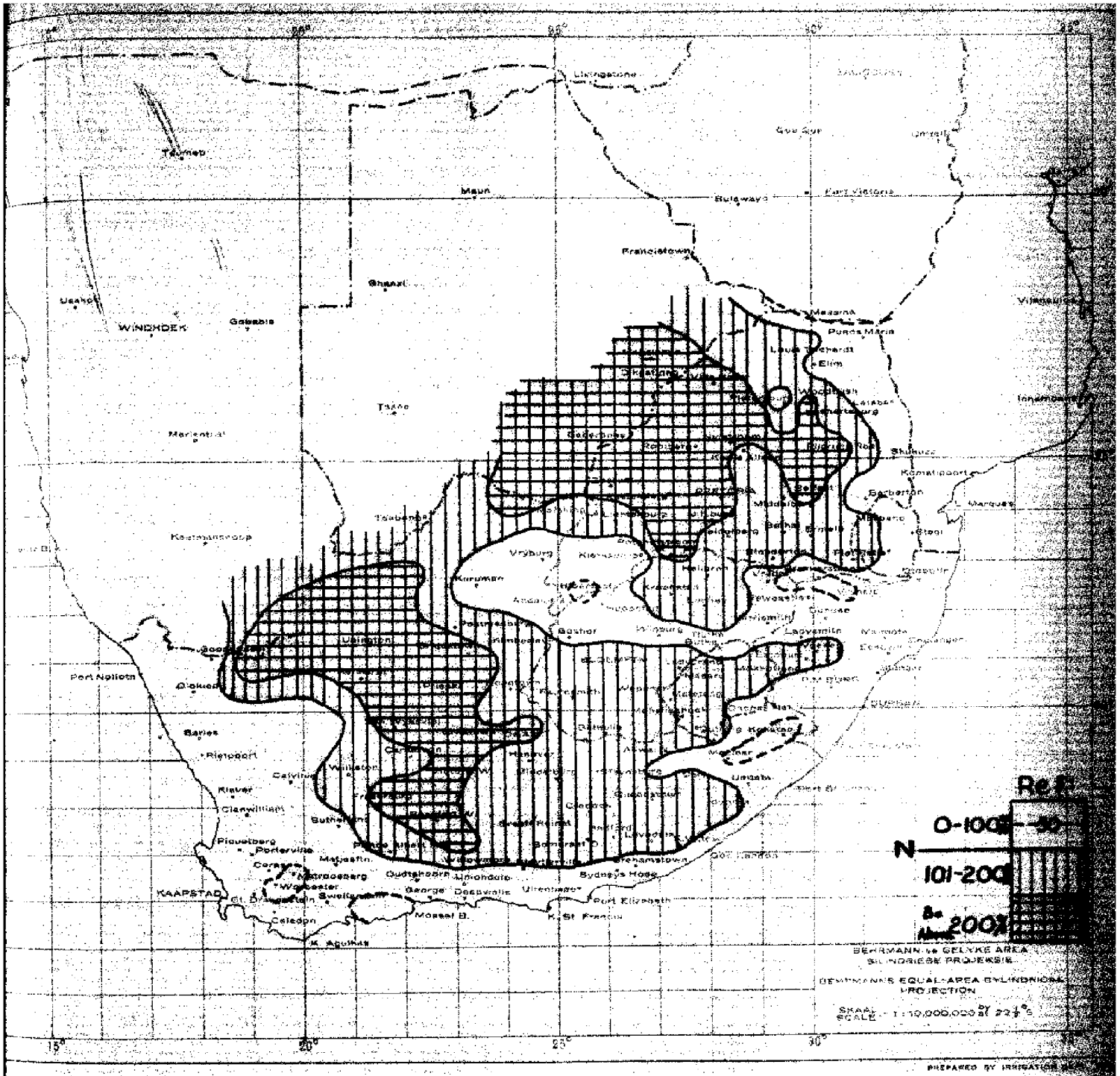
September 1940: Mean Temperature ,- departure from the normal in °F.



KAART III CHART III

September 1940: Neerslag aangegee as persentasie van die normaal.

September 1940: Precipitation shown as percentage of the normal.



KAART IV CHART IV

Seisoen Neerslag: 1ste Julie 1940 tot 30ste Sept. 1940, aangegee as persentasie van die normaal.

Seasonal Precipitation: 1st July 1940 to 30th Sept. 1940, shown as percentage of the normal.

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

VOLUME XXI | OCTOBER 1940 | No. 10

OUTSTANDING FEATURES:

A dry month - warm over the Cape Province, especially the west, and cool over the northern provinces - occasional severe frost over the Transvaal highveld and the Freestate - frequent light hailstorms in the Transvaal and Natal.

PRESSURE:

The distribution of mean atmospheric pressure is shown in Chart I. Pressure was about normal on the west coast, and above normal over the rest of the Union.

TEMPERATURE:

The departure of mean monthly temperature from the normal is shown on Chart II. Temperatures were, on the whole, above normal over the southern Freestate and over the Cape province (except around Vryburg and Kuruman). Positive departures greater than 4° F were common in the western interior Cape. Over the three northern provinces temperatures were subnormal, and considerably so over the eastern highveld and the northwestern districts of the Transvaal.

The mean temperature for the Union as a whole, as computed from data in table I, was 65.3° F or 0.1° above normal. Considering the provinces as units the mean temperature for the Cape was 2.1° above normal, and for the Transvaal, Natal and Freestate, 2.5°, 1.1° and 0.4° below normal, respectively.

Both mean maximum and mean minimum temperatures showed practically similar distributions. For the Union as a whole the mean maximum temperature was 78.8°F, or 0.3° above normal, and the mean minimum 51.8°F, or normal.

The highest temperatures of the month occurred from about the 24th to the 31st, and the following were the highest individual temperatures registered in each province: 107° at both Goodhouse and Clanwilliam (C.P.) on the 24th, 104.5° at Messina (Tvl.) on the 31st, 100° at Weenen (N) on the 31st, and 95° at Kroonstad (O.F.S.) on the 27th.

The lowest minimum temperatures occurred, as a rule, from the 17th to the 19th. The following were the lowest values registered in each province:- 28.6° at Grootfontein (C.P.) on the 9th, 28° at both Belfast and Ermelo (Tvl.) on the 18th; 36° at Ladysmith (N.) on the 18th, and 30° at Wepener (O.F.S.) on the 18th.

FROST:

Frost occurred mainly during the nights of the 18th and 19th over the Transvaal highveld, the Freestate and the northeastern interior Cape. Considerable damage was reported from several centres in the Freestate and on the eastern Transvaal highveld.

PRECIPITATION:

The distribution of precipitation, expressed as a percentage of the normal is roughly shown on Chart III. On the whole, rainfall was much below normal, except over isoluted areas, where an occasional heavy thundershower brought the monthly amount above the normal. The greater portion of the Union received less than half of the normal and large areas in the centre and northwestern Cape remained rainless.

Combining the rainfall data in table II for the different provinces, it is found that the Cape, Freestate, Natal and Transvaal showed deficits amounting respectively to 44%, 62%, 46% and 53% of their normal precipitation. Dividing the Cape province into its three principal rainfall zones, the "summer" zone showed a deficit of 55%, the "winter" zone a deficit of 29% and the "all-seasons" zone (southern Cape coastal belt) a deficit of 34%. The Union as a whole showed a deficit of 49%.

Scattered thunderstorms and showers occurred mainly during three periods, viz.:- from the 1st to 7th, 15th to 16th, and from the 28th to 29th. It is interesting to note that thunderstorms occurred on the 29th over the winter rainfall zone and the southern Cape coastal belt, where such phenomena are exceptional.

SNOW fell on two occasions, viz. on the 7th to 8th, and 16th to 17th, over the mountainous areas in the southwestern and southeastern Cape, in Basutoland and on the Drakensberg as far north as Volksrust.

HAIL: Hailstorms were fairly frequent in the Transvaal and Natal, but fortunately did not cause much damage. Only two instances of severe damage were reported from Middelburg (Tvl.) (on the 14th and 30th).

THE CUMULATIVE RAINFALL since January 1st, 1940 was below normal mainly in the western Cape, along all the coastal areas, in the Freestate, southern and northeastern Transvaal and in some of the northern districts of the Cape. Over the remainder of the Union, the rainfall was slightly above normal. Considering the provinces as units, the Freestate, Natal and Transvaal showed deficits amounting respectively to 8%, 2% and 2% of their normal rainfall for this period, whilst the Cape province showed a small surplus of 1%. In the latter province the summer rainfall zone had a surplus of 7%, whilst the "winter" and "all-seasons" rainfall zones showed deficits of 4% and 7% respectively. For the Union as a whole there was a deficit of 1%.

THE SEASONAL PRECIPITATION since July 1st, 1940, expressed as a percentage of the normal is roughly shown on Chart IV. For this period all provinces show deficits, viz., the Cape Province a deficit of 21%, the Freestate 17%, Natal 38% and the Transvaal 4%. The summer rainfall zone of the Cape province showed a deficit of 1%, the "winter" zone a deficit of 35% and the "all-seasons" zone a deficit of 32%. For the Union as a whole, there was a deficit of 19%.

On Chart IV the rather unusually dry condition of the coastal areas, especially southern and eastern coast, is clearly shown; the cumulative rainfall for the four months (July to October) amounted to just over 50% of the normal at most coast stations.

DIE UNIE VAN SUID-AFRIKA.
DEPARTEMENT VAN BESPROEIING

MAANDELIKSE WEERVERSLAG
VAN DIE
WEERKUNDIGE KANTOOR

DEEL XXI | OKTOBER 1940 | No.10

HOOFKENMERKE:

'n Droë maand; warm oor die Kaapprovinsie, vernaamlik die weste, en koel oor die noordelike provinsies; enkele kere strawwe ryp oor die Transvaalse hoëveld en die Vrystaat; dikwels ligte haelstorms oor die Transvaal en Natal.

LUGDRUK:

Die distribusie van die gemiddelde lugdruk word aangedui op Kaart I. Die lugdruk was omtrent normaal aan die Weskus, en bo normaal oor die res van die Unie.

TEMPERATUUR:

Die afwykings van gemiddelde maandelikse temperature van die normale word aangegee op kaart II. Temperature was oor die algemeen bo normaal oor die suidelike Vrystaat en oor die Kaapprovinsie (behalwe in die omgewing van Vryburg en Kuruman). Positiewe afwykings oor 4° F het algemeen voorgekom in die westelike binneland van die Kaapprovinsie. Oor die drie noordelike provinsies was die temperatuur onder normaal, vernaamlik oor die oostelike hoëveld en die noordwestelike Transvaal.

Die gemiddelde temperatuur vir die Unie as 'n geheel, soos bereken uit die gegewens in Tabel I, was 65.3° F of 0.1° bo normaal. Word die provinsies as afsonderlike eenhede beskou, dan was die gemiddelde temperatuur vir die Kaap 2.1° bo normaal, en vir die Transvaal, Natal en Vrystaat onderskeidelik 2.5°, 1.1° en 0.4° onder normaal.

Beide die gemiddelde maksimum en minimum temperature het so te sê 'n dergelike distribusie aangedui. Vir die Unie as geheel was die gemiddelde maksimum temperatuur 78.8° F, of 0.3° bo normaal, en die gemiddelde minimum 51.8° F., of normaal.

Die hoogste temperature van die maand het vanaf die 24ste tot die 31ste voorgekom, en hier volg nou die hoogste individuele waardes in elke provinsie gemeet: 107° beide te Goodhouse en Clanwilliam (K.P.) op die 24e; 104.5° te Messina (Tvl.) op die 31ste; 100° te Weenen (N.) op die 31ste, en 95° te Kroonstad (O.V.S.) op die 27ste.

Die laagste temperature het oor die algemeen van die 17e tot 19e voorgekom. Die volgende is die laagste minimum temperatuur wat in elke provinsie gemeet was: 28.6° te Grootfontein (K.P.) op die 9e; 28° te Belfast en Ermelo (Tvl.) op die 18e; 36° te Ladysmith (N.) op die 18e, en 30° te Wepener (O.V.S.) op die 18e.

RYP:

Ryp het hoofsaaklik voorgekom gedurende die nagte van die 18e en 19e en wel op die Transvaalse hoëveld, in die Vrystaat en in die noordoostelike binneland van die Kaapprovinsie. Van verskeie plekke in die Vrystaat en Transvaal is aansienlik skade gerapporteer.

NEERSLAG:

Die distribusie van die neerslag, aangegee as 'n persentasie van die normaal, word naasteby aangetoon op kaart III. Oor die algemeen was die reenval heelwat onder normaal, behalwe oor afgesonderde streke waar die normaal oorskry is deur die toevallige voorkoms van enkele swaar donderstorms. Die grootste deel van die Unie het

minder as helfte van die normaal gekry, en groot streke in die sentrale en noordwestelike Kaapprovinsie het heeltemaal geen reën gehad nie.

Word die gegewens in tabel II nou vir die verskillende provinsies saamgevat, dan vind ons dat die Kaap, Vrystaat, Natal en Transvaal tekorte aantoon wat onderskeidelik 44%, 62%, 46% en 53% van hulle normale neerslag beteken. Verdeel ons die Kaapprovinsie in sy drie vernaamste reënstreke, dan blyk dit dat die somerreënstreek 'n tekort van 55%, die winterreënstreek 'n tekort van 29% en die streek met reën in alle seisoene (suidelike Kaapse kusstreek) 'n tekort van 34% gehad het. Die Unie as geheel het 'n tekort van 49% aangetoon.

Verspreide donderstorms en buie het hoofsaaklik gedurende drie periodes plaasgevind, nl., vanaf die 1e tot 7e, 15e tot 16e en vanaf die 28e tot 29e. Dit is interessant om op te let dat donderbuie op die 29e voorgekom het in die hele winterreënstreek en die suidelike kusstreek, iets wat nogal baie min voorkom.

SNEEU het op twee geleenthede geval, nl. op die 7e en 8e, en weer op die 16e en 17e, en was beperk tot die bergagtige streke van die suidwestelike, suidelike en oostelike Kaapprovinsie, Basutoland en die Drakensberge so ver noord soos Volksrust.

HAEL:

Haelstorms het taamlik dikwels voorgekom in die Transvaal en Natal. Gelukkig het hulle oor die algemeen maar min skade veroorsaak, hoewel daar uit Middelburg berig gekom het van groot skade op die 14e en 30e.

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf 1 Januarie 1940 was onder normaal hoofsaaklik in die westelike Kaap, langs al die kusstreke, in die Vrystaat, die Suidelik en noordoostelike Transvaal en in party van die noordelike distrikte van die Kaapprovinsie. Oor die res van die Unie was die reënval ietwat bo normaal. Beskou ons nou die provinsies as eenhede, dan toon die Vrystaat, Natal en Transvaal tekorte wat respektieflik 8%, 2% en 2% van hulle normale neerslag vir hierdie periode beteken, terwyl die Kaapprovinsie 'n klein surplus van 1% toon. In laasgenoemde provinsie het die somerreënstreek 'n surplus van 7% gehad, terwyl die winterreënstreek en die streek met reën in alle seisoene tekorte van 4% en 7% aangetoon het. Vir die Unie as geheel was daar 'n tekort van 1%.

DIE SEISOEN NEERSLAG:

Die seisoen neerslag vanaf 1 Julie 1940, uitgedruk as persentasie van die normaal, word naasteby aangedui op Kaart IV. Vir hierdie periode het al die provinsies tekorte gehad, nl., die Kaapprovinsie, as geheel, 'n tekort van 21%, die Vrystaat 17%, Natal 38% en die Transvaal 4%. Die somerreënstreek van die Kaapprovinsie het 'n tekort van 1% getoon, die winterreënstreek 'n tekort van 35% en die streek met reën in alle seisoene 'n tekort van 32%. Vir die Unie as geheel het die tekort 19% van die normaal bedra. Op Kaart IV word die buitengewone droë kondisies langs die kusstreke, vernaamlik die suidelike en oostelike kus, duidelik aangedui; die versamelde neerslag vir die vier maande (Julie tot Oktober) het net die 50% merk gehaal by die meeste kusstasies.

OBSERVERS' NOTES FOR OCTOBER 1940.

AANTEKENINGE VAN WAARNEMERS VIR OKTOBER, 1940.

QUEENSTOWN (C.P.): A month of extremes in temperature, varying from 97° F to 33° F. Snow in the vicinity on the 16th. 0.71 inches of rain fell on 7 days.

Sr. M. Joseph.

PAULPIETERSBURG(N.): Dry and warm on the whole, but with unusually low minimum readings on the 17th, 18th and 19th. 2.02 inches of rain fell on 7 days, which is 1.75 inches below the average.

N. Lipscomb.

WOLMARANSSTAD (Tvl.): 'n Baie egalige maand in die begin met koue suide winde. Die daaropvolgende dae was warm met 'n droë hitte. Los buie reent het in die distrik uitgesak, maar was nie van veel betekenis nie. Ooste winde het gedurende die laaste helfte van die maand in die middag begin waai. 0.14 duim reent is aangeteken op 3 dae.

J.F. van Reneburg.

CRADOCK: This month was very changeable; some days very hot, some days very cold. Very strong south easterly winds during afternoons. Fairly calm nights. Very little rain, 0.15 inches in one day.

B. van der Merwe

ALASKA (LOUIS TRICHARDT): A sudden and big drop in temperature in the middle of the month. Very cold. 0.36 inches of rain fell on 2 days.

I.G. Rudd.

"PRETORIA" FARM (N.Tvl.): Temperatures lower than usual, except during the last week. That of the last day, 104° F, is the highest temperature recorded for the preceding twelve months. Very little thunder or lightning, conditions droughty. 0.65 inches of rain fell on 4 days.

R. Bendall.

MODDERPOORT (O.F.S.): Apart from a little rain which fell at the beginning of the month, the weather was very dry. Temperatures were high between the 11th and the 15th and there was a sudden drop with a severe frost on the 18th, which did considerable damage to wheat crops and gardens. Temperatures were again high between the 23rd and the 30. 0.77 inches of rain fell on 7 days.

John W. Eddolls.

RABONIE RANCH: Abnormally strong winds during the month. On October the 27th the highest temperature (96.0°F) recorded for 18 years in October. 0.44 inches of rain fell on 6 days.

F. Looringh van Beeck.

PORT SHEPSTONE:(N) The weather during the month has been dry; a good soaking rain is badly needed. 1.38 inches of rain fell on 11 days. Mostly in small quantities, not sufficient to do any good.

H.W. Mantle.

CHAMPAGNE(TVL.): Some very marked divergences in temperatures: 101.7°F on the 16th and 58.7°F on the 17th. A very dry month. 1.67 inches fell on 4 days.

E.C. Boyce.

BARKLY WEST (C.P.): Maximum temperature above the average. Wind at night more than usual. 0.68 inches of rain fell on 5 days.

G. Smith Houghton.

UPINGTON (K.P.): Oor die algemeen taamlik warm, veral teen die einde van die maand. Weer dikwels bewolkend, maar geen reënt is aangeteken gedurende die maand nie.

S. Malan.

GOOLDVILLE (N.TVL.): Mainly hot and dry, but some cold days. 1.81 inches of rain recorded on 7 days.

E.L. Aitken.

KRUGERSDORP (TVL.): October was very erratic as regards temperatures and very dry as compared with the average. The mean temperature was 62.3° degrees against an average of 65.3° degrees for the past 31 years. 0.94 inches of rain fell on 6 days which is 1.35 inches and 2 days below the average for the past 37 years.

Walter W. Webster.

PRIESKA (C.P.): We had no rain this month. Temperatures varied between 102°F and 42.0° F.

S.K. Visser.

MUSHROOM (TVL.): Temperature seems to have been erratic, warmer and also colder than previous months. Heavy rainfall during the month. 6.67 inches recorded on 12 days.

The Supervisor.

BELFAST (TVL.): October was fairly dry. Frost on the 8th and 18th which did a great deal of damage to crops. 1.14 inches of rain fell on 4 days.

I.W. Slabbert.

ATHOLE PROEFSTASIE (TVL.): Baie sonnige dae en min bewolkte dae. 2.27 duim reent is aangeteken op 6 dae.

A.H. du Plessis.

ESTCOURT (N.): With the exception of very cold and unpleasant weather on the 17th, 18th and 19th, which did a good deal of damage to garden crops, the month was hot and dry. 1.09 inches of rain fell on 10 days.

W. Lambrechts.

BENONI (TVL): We had a variety of weather this month. Cold, hot, wind, rain and hail. 1.15 inches of rain fell on 6 days.

The Medical Officer of Health.

HARTEBEESPOORT PROEFSTASIE (TVL.): Die maand was meestal droog met temperature hoër as gewoonlik. Hael op die 14e het skade aangerig. 2.83 duim reent is aangeteken op 3 dae.

F.M. du Toit.

CARNARVON (K.P.): Die maand was besonder warm. Die wind buitengewoon sterk in die middae. 0.65 duim reent het geval op 1 dag, wat die hoogste reenval vir Oktober is vir baie jare. Die maksimum temperatuur van 93.5° F is die hoogste temperatuur hier aangeteken in Oktober sedert 1933.

Jac. P. van Wyk.

LOSKOP IRRIGATION WORKS (TVL.): Temperatures varied between 99.3° F and 43.0°F. Rain fell on 7 days totalling 0.65 inches. We had many windy days, and on 2 days a regular gale. A very cold day on the 17th, when maximum and minimum temperatures were nearly the same, viz. 62.7°F and 62.1° F.

The Resident Engineer.

ZEERUST (TVL.): Die reenval gedurende die maand was onder normaal. Diedae was oor die algemeen taamlik warm en die kwik het tot 95° F gestyg. Baie weerlig is die laaste paar aande in die suide en suidweste gesien. 1.18 duim reent is aangeteken vir 5 dae.

C.H. Korf.

MOUNT EDGECOMBE (N.): The total rainfall for the month was 3.31 inches, which fell on 10 days. The rainfall is 0.70 inches below the average for the past 53 years. The month has been slightly cooler than the normal. The total hours of sunshine were well above the average.

The Director, S.A. Sugar Association.

LOVEDALE: (C.P) Absolute maximum and mean maximum temperatures equal to record for October. Minimum rather below normal. Rainfall just under half the normal for the month. 1.00 inches fell on 7 days.

Charles A. Pilson.

ARMOEDSVLAKTE (K.P.): Hierdie maand was uitsonderlik warm en droog. Reënval was 0.26 duim vir twee dae. Die temperatuur het geskommel tussen 96.4° F en 39.6° F. Geen donderweer was gehoor nie.

R.J.J. Briel.

GROOTFONTEIN (K.P.): 'n Droë maand, met groot variasies in temperature Ryp het voorgekom. 0.05 duim reën is aangeteken vir 2 dae.

W. v.d. Merwe.

MIDDELBURG (TVL.): With the exception of two bitterly cold days, the weather during the month was mild to warm. Hailstorms on the 14th and 30th did considerable damage to wheat and fruit crops. 1.64 inches of rain fell on 7 days.

V.P. Rose.

MONTAGU (C.P): Thunderstorm on the 29th observed in northerly direction at 11.15 p.m. Abnormally violent and claimed to be the worst thunderstorm ever experienced. Accompanied by slight precipitation of rain. Monthly rainfall above normal. 1.30 inches were recorded on 5 days.

T.D. McSweeney.

BALFOUR (C.P.): Most extraordinary variation in temperature, on the 15th in particular very little rain, and droughty conditions. 1.21 inches of rain on 6 days.

E.W. Hulse.

WEPENER (O.F.S.): The rainfall, 0.25 inches on 5 days, most disappointing after the good rains of September; frost on the 18th did considerable damage to crops and gardens.

W.T.E. Kemm, F.R.M.S.

LINDLEY (O.F.S.): Exceptionally dry during the month. Rain is very much needed. Generally cloudy for the last few days in the afternoons. 0.25 inches of rain fell on 2 days.

S.F. Gouws.

SLENT (C.P.): Fair amount of rain during the month, though on only five days of the month kept the ground moist. At the end of the month, rain was accompanied by a thunderstorm and very streng wind, which did a certain amount of damage to vineyards and exposed places. 1.46 inches of rain fell on 5 days.

R.W. Short.

GROOT DRIEFONTEIN (C.P.): Throughout the month the weather has varied greatly. The heat on the 23rd, 24th and 25th was great, yet we had snow on the 16th, 0.02 inches of rain fell on 1 day.

(Mrs.) K.N. Watermeyr.

HERMITAGE (C.P.): Outstanding features for the month were very rapid changes in both temperatures and humidity. On the whole the weather was dry and hot, with the frequent occurrence of unpleasant winds. 0.55 inches of rain fell on 3 days.

C.J. Naude.

KOPJE ALLEEN (TVL.). The rainfall for October was only 0.05" on 4 days, which is 1.99" below the average of 28 years. The mean maximum temperature was 2° F below normal. Night temperatures were also below the average. The mean minimum temperature was 3.4° F below the average of 17 years.

J. Lyall Soutter.

POTCHEFSTROOM: Owing to the heavy precipitation at the end of September, this month commenced with general weather conditions, ideal for plant growth. The mean feature during the first half being the warm days and cool nights. During the second half up to the end of the month there was a sudden rise in temperature, a lack of moisture, high atmospheric pressure and cloudless days. The rise in temperature had a very marked effect on the evaporation and soil temperatures. 0.50 inches of rain fell on 3 days.

B.D. Saayman.

SANDFLATS MOUNT CURRIE: Hot, dry and droughty, notwithstanding the showers. Thunder conditions towards the end of the month. Days cloudy and overcast with seasonable moderate to strong winds. Mainly from east and west. 1.49 inches of rain fell on 7 days.

Hewson B. Corderoy.

EMERALD DALE (N.): On the whole this month has been rather dry. Very acceptable rains fell on the 28th and 29th. An exceptionally cold spell was experienced on the 17th, 18th and 19th, when the temperature fell to as low as 36° F. 1.74 inches of rain fell on 11 days.

Max Anderson.

RANNOCK: The excessive cold on the 18th and 19th did a lot of damage to plants and trees. The later part of the month has been warm but dry. 0.77 inches of rain fell on 6 days.

K.G. Sephton.

TABLE I : TEMPERATURE AND CLOUDINESS : OCTOBER 1940.

Results of observations at 0830 S.A. Standard Time.

STATION.	AIR TEMPERATURES IN °F.								NO. DAYS.							CLOUDINESS.			
	Mean Max.	Mean Min.	Mean	Diff. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Below 37	32	27	Max. Above 90	95	100	Mean	No. Days. 0-1	2-5	6-9	10
CAPE PROVINCE:																			
ALIWAL NOORD	78.5	46.9	62.7	-0.2	91.0	31	34.0	18	2	0	0	2	0	0	2	18	9	4	0
ARMOEDSVLAKTE	84.5	51.3	67.9	-1.8	96.4	31	39.6	10	0	0	0	10	1	0	2	21	6	4	0
BEAUFORT WEST	82.1	52.9	67.5	+3.9	99.4	25	38.9	17	0	0	0	8	4	0	4	13	6	10	2
BRITSTOWN	81.3	51.2	66.3	+2.2	94.0	25	36.0	17	1	0	0	7	0	0	1	24	6	11	0
CALA	75.6	50.3	62.9	-0.7	93.5	25	33.5	18	2	0	0	4	0	0	4	11	8	9	3
CAPE L'AGULHAS	68.3	57.1	62.7	+2.6	79.0	3	48.0	16	0	0	0	0	0	0	4	7	11	10	3
CARNARVON	80.6	49.9	65.3	+2.4	93.5	24	36.2	7	2	0	0	5	0	0	3	14	8	9	0
CERES	78.2	44.4	61.3	+0.6	96.0	29	32.0	11	10	0	0	2	0	0	3	22	1	8	0
CLANWILLIAM	87.2	54.7	70.9	+5.3	103.0	24	41.0	17	0	0	0	16	12	5	2	19	7	1	4
CRADOCK	80.2	49.2	64.7	+1.2	98.0	25	35.0	18	1	0	0	6	1	0	3	14	8	8	1
DEEPWALLS, EAST LONDON (SIGNAL STATION)	73.0	57.5	65.3	+1.1	105.0	23	47.8	17	0	0	0	1	1	1	5	9	5	13	4
DODHOUSE	94.1	62.3	78.2	+2.5	107.0	24	46.0	7	0	0	0	20	17	8	2	18	8	5	0
GRAAFF REINET	82.8	53.7	68.3	+2.3	100.0	25	41.0	18	0	0	0	11	4	0	4	14	4	11	2
GRAHAMSTOWN	76.2	50.4	63.3	+3.4	99.8	25	37.4	18	0	0	0	4	3	0	4	15	5	6	5
GRIQUATOWN	81.5	51.2	66.3	+1.9	93.0	28	37.0	17	0	0	0	4	0	0	2	18	8	5	0
HIDRAKENSTEIN	78.3	52.6	65.5	+3.8	93.5	24	40.2	7	0	0	0	5	0	0	2	21	3	6	1
HOOTFONTEIN(KP)	76.8	44.2	60.5	-0.2	90.7	25	28.6	9	8	2	0	1	0	0	4	12	6	12	1
HOPETOWN	84.7	54.1	69.4	+2.1	98.0	29	38.0	17	0	0	0	11	3	0	2	14	10	7	0
IDUTYWA	73.0	50.4	61.7	+1.3	96.0	29	38.0	18	0	0	0	3	2	0	6	11	2	7	11
KENHARDT	87.9	56.3	72.1	+3.4	102.0	28	41.0	7	0	0	0	12	7	2	2	20	7	4	0
KIMBERLEY AERO	83.1	55.0	69.1	+0.6	96.8	28	35.9	17	1	0	0	10	2	0	1	20	9	2	0
KINGW'TOWN	78.6	52.5	65.5	+1.0	104.0	25	40.0	1	0	0	0	5	2	1	4	10	7	10	4
KLAVER	84.7	55.5	70.1	+4.1	100.5	22	45.7	7	0	0	0	13	7	2	3	19	2	4	6
KOKSTAD	74.1	47.4	60.7	+0.0	92.5	25	31.9	18	3	1	0	1	0	0	4	13	5	7	6
KURUMAN(SEODIN)	82.5	49.2	65.9	-1.6	92.0	28	39.0	17	0	0	0	4	0	0	3	11	10	7	0
MAFEKING	80.9	53.8	67.3	-3.6	92.8	31	43.5	17	0	0	0	2	0	0	3	13	13	5	0
MATROOSBERG AERO	74.7	45.8	60.3	+3.8	90.3	24	33.7	17	1	0	0	2	0	0	3	7	14	8	2
MOSSELBAAI AERO	69.9	55.4	62.7	+3.4	99.6	3	45.3	16	0	0	0	1	1	0	5	6	10	10	5
MOOKIEP	79.6	55.4	67.5	+4.7	93.5	23	39.0	7	0	0	0	5	0	0	3	18	5	7	1
MUDTSHOORN	83.4	51.2	67.3	+2.9	99.0	3	41.0	17	0	0	0	8	3	0	2	20	6	5	0
PT.ELIZABETH AERO	73.2	54.4	63.8	+3.0	95.0	3	42.1	18	0	0	0	1	0	0	3	15	8	6	2
PORT NOLLOTH	64.6	49.9	57.3	+1.4	91.2	18	41.0	7	0	0	0	1	0	0	6	9	6	7	9
PORT ST.JOHNS	72.8	61.1	66.9	-0.4	99.0	15	52.0	17	0	0	0	3	1	0	5	4	13	7	7
POSTMASBURG	82.8	55.9	69.3	+2.1	94.6	29	39.1	17	0	0	0	6	0	0	2	20	8	3	0
PRIESKA	87.0	56.1	71.5	+2.6	102.0	28	42.0	17	0	0	0	13	8	1	2	21	6	4	0
QUEENSTOWN	77.2	50.1	63.7	+0.0	97.0	25	33.0	18	1	0	0	3	1	0	3	13	10	4	4
RIETPOORT	82.6	52.7	67.7	+4.6	99.5	22	40.8	7	0	0	0	10	2	0	3	18	5	5	3
RIVERSDALE	78.3	51.5	64.9	+3.0	99.0	3	43.0	10	0	0	0	3	1	0	6	6	7	14	4
SOMERSET EAST	80.1	51.5	65.8	+4.0	102.2	25	36.8	18	1	0	0	10	4	1	5	9	3	10	3
SUTHERLAND	74.4	41.6	58.0	+3.7	87.0	25	30.0	17	9	2	0	0	0	0	3	14	9	7	0
UITENHAGE	79.4	53.0	66.2	+3.3	102.0	3	42.8	9	0	0	0	5	3	2	3	19	2	2	6
UMTATA	78.5	51.4	64.9	+1.1	102.0	25	39.0	9	0	0	0	5	3	1	4	10	4	6	6
UPINGTON	87.8	59.2	73.5	+3.2	103.0	28	47.2	17	0	0	0	14	7	2	1	19	11	1	0
VAN WYKSVLEI	84.7	53.1	68.9	+3.5	97.5	28	40.8	17	0	0	0	9	5	0	3	15	11	5	0
VICTORIA WEST	79.6	49.2	64.4	+2.9	92.0	25	36.0	17	1	0	0	2	0	0	2	15	11	5	0
WILLOWMORE	(78.1)	(49.0)	(63.5)	(+2.7)	(96.0)	(25)	(34.0)	(17)	(1)	(0)	(0)	(3)	(1)	(0)	(4)	(8)	(8)	(4)	(3)
WINGFIELD AERO	72.0	52.7	62.3	+2.2	86.1	2	40.8	7	0	0	0	0	0	0	4	13	6	8	4
TRANSVAAL:																			
BARBERTON	80.4	58.3	69.3	-1.7	95.2	31	43.0	18	0	0	0	5	1	0	4	15	2	7	7
BELFAST	69.4	40.7	55.1	-4.1	83.0	31	28.0	18	9	3	0	0	0	0	3	17	4	3	7
BRAKLO (TOWN)	74.0	45.7	59.9	-2.8	87.0	26	28.0	18	2	1	0	0	0	0	3	18	3	4	6
DERMISTON AERO	75.6	51.5	63.5	-2.0	87.6	31	32.9	18	2	0	0	0	0	0	3	19	4	6	2

TABLE I - TEMPERATURE AND CLOUDINESS - OCTOBER, 1940 (Continued)

STATION.	AIR TEMPERATURES IN °F								NO. DAYS							CLOUDINESS.			
	Mean Max.	Mean Min.	Mean	Dif. Norm.	Abs. Max.	Dat	Abs. Min.	Dat	Min. Below 37	32	27	Max. above 90	95	100	Mean	No. days. 0-1	2-5	6-9	10
TRANSVAAL:																			
HEIDELBERG	79.7	47.6	63.7	-1.8	93.5	31	32.6	18	3	0	0	4	0	0	3	19	5	2	5
JOUBERT PARK	76.4	51.7	64.1	-1.4	88.0	31	32.5	18	1	0	0	0	0	0	3	19	6	3	3
KLERKSDORP	82.0	52.3	67.1	-1.4	93.0	27	38.5	9	0	0	0	4	0	0	-	-	-	-	-
KOMATIPOORT	89.3				105.0	17						14	8	4	3	10	8	8	0
KOPJE ALLEEN	84.2	53.0	68.6	-3.1	98.0	31	44.0	18	0	0	0	10	1	0	2	22	3	2	4
LETABA	(91.6)	(58.8)	(75.2)	-	(106.6)	(31)	(49.0)	(4)	(0)	(0)	(0)	(10)	(7)	(5)	(5)	(8)	(0)	(6)	(5)
LOUIS TRICHARDT	77.2	54.0	65.6	-3.9	95.0	31	45.0	22	0	0	0	2	0	0	5	9	11	0	11
MESSINA	85.4	63.3	74.3	-3.0	104.5	31	53.4	18	0	0	0	13	6	1	4	15	6	4	6
MIDDELBURG	76.6	46.0	61.3	-4.0	91.0	31	34.0	18	2	0	0	1	0	0	4	11	10	4	6
NYLSTROOM	82.5	50.9	66.7	-3.2	95.0	31	38.0	19	0	0	0	4	0	0	1	22	5	4	0
PIETERSBURG AERO	77.6	49.3	63.5	-4.4	92.8	31	40.4	19	0	0	0	2	0	0	3	16	7	4	4
PIET RETIEF	76.1	50.4	63.3	-0.8	92.5	31	36.2	18	1	0	0	1	0	0	4	12	7	6	6
PILGRIMS REST	75.1	48.9	62.0	-3.3	91.6	31	36.3	18	1	0	0	1	0	0	4	14	5	6	6
POTCHEFSTROOM	81.7	51.4	66.5	-0.4	93.5	27	37.0	8	0	0	0	5	0	0	2	20	2	8	1
PRETORIA (MET)	78.2	52.0	65.1	-2.9	89.7	31	38.0	18	0	0	0	0	0	0	3	20	2	6	3
PUNDA MARIA	84.6	58.9	73.2	-	104.0	31	51.0	19	0	0	0	13	7	1	3	17	3	5	6
RUSTENBURG	82.5	53.0	67.7	-3.6	93.0	31	42.0	18	0	0	0	4	0	0	3	13	7	7	3
SEKUKUNILAND	80.3	(56.7)	(68.5)	(+0.3	94.0	31	(51.0)	(9)	(0)	(0)	(0)	1	0	0	2	19	5	4	2
STANDERTON	76.8	47.4	62.1	-1.7	91.0	26	32.0	18	3	0	0	1	0	0	3	14	6	9	0
VAALHARTZ	82.6	51.4	67.0	-1.0	94.5	28	39.6	17	0	0	0	8	0	0	1	18	10	2	0
WAKKERSTROOM	74.7	40.7	57.7	-2.8	89.1	26	30.3	20	5	3	0	0	0	0	3	20	4	4	3
WARMBAD	82.6	53.6	68.1	-2.4	95.0	31	47.0	18	0	0	0	3	0	0	4	12	9	7	3
NATAL:																			
DUNDEE	77.0	49.9	63.4	-2.4	92.2	25	38.5	18	0	0	0	3	0	0	4	14	2	8	6
DURBAN AERO	74.7	60.1	67.4	-0.5	87.4	30	49.9	19	0	0	0	0	0	0	5	10	7	6	8
EMPANGENI	79.3	60.0	69.7	-0.8	98.0	30	50.0	19	0	0	0	5	2	0	5	8	10	6	7
ESHOWE	79.3	56.1	67.7	+0.7	99.5	30	46.0	18	0	0	0	6	3	0	4	9	9	7	1
EST COURT	77.0	50.6	63.8	-1.5	94.0	31	37.0	9	0	0	0	3	0	0	4	15	3	5	8
LADYSMITH	78.9	53.0	65.9	-2.7	95.0	31	36.0	18	1	0	0	7	0	0	4	14	3	8	6
MELMOTH	77.4	54.7	66.1	-1.2	99.3	30	40.1	1	0	0	0	6	4	0	5	10	2	12	7
OTOBOTINI	84.6	60.5	72.5	-1.4	97.0	30	50.0	17	0	0	0	8	3	0	4	4	13	5	4
P'MARITZBURG	76.9	56.0	65.9	-0.8	99.0	25	43.2	9	0	0	0	5	2	0	4	11	9	2	9
PORT SHEPSTONE	72.6	60.7	66.7	-0.4	79.0	31	51.0	19	0	0	0	0	0	0	5	10	8	5	8
WEENEN	81.8	53.2	67.5	-0.8	100.0	31	36.0	18	0	0	0	7	2	0	4	16	3	1	11
O.F.S.																			
BETHULIE	80.2	50.0	65.1	+1.2	93.0	25	34.0	18	2	0	0	5	0	0	2	15	12	4	0
BLOEMFONTEIN AERO	79.8	49.3	64.5	-0.8	93.0	28	30.8	18	2	1	0	6	0	0	2	19	8	4	0
FAURESMITH	79.1	49.3	64.2	+0.8	92.7	28	33.0	18	2	0	0	5	0	0	3	21	4	5	1
KROONSTAD	82.9	48.1	65.5	-1.3	95.0	27	35.0	17	1	0	0	6	0	0	2	18	9	3	1
LADYBRAND	76.4	46.1	61.3	-1.2	88.0	28	33.0	18	4	0	0	0	0	0	1	28	1	2	0
LINDLEY	78.0	47.6	62.8	-2.2	89.0	27	34.0	18	2	0	0	0	0	0	2	15	12	3	0
WEPENER	78.4	48.2	63.3	+0.5	91.5	31	30.0	18	5	1	0	1	0	0	3	20	4	7	0
BASUTOLAND:																			
BUTHA BUTHE	76.3	45.3	60.8	-1.9	88.0	28	29.0	18	6	1	0	0	0	0	2	21	4	4	2
MASERU	76.9	49.5	63.2	-0.2	90.0	27	33.0	18	2	0	0	0	0	0	2	17	11	2	1
QACHASNEK	69.5	44.6	57.1	-0.4	83.0	31	26.5	18	6	3	1	0	0	0	3	9	14	4	2
QUTHING	75.8	46.3	61.1	-0.0	89.0	31	30.0	19	6	1	0	0	0	0	3	11	10	9	0
BECHUANALAND:																			
DIKGATLONG	88.5				102.0	31						16	8	1	5	14	9	3	5
GABERONES	84.5	54.3	69.4	-4.0	96.0	31	47.0	22	0	0	0	5	1	0	3	15	9	3	4
MAHALAPYE	86.5	56.0	71.3	-3.9	102.0	31	44.0	22	0	0	0	12	5	1	4	16	4	7	4
SERABONG	88.5	52.8	70.6	-	100.0	28	41.0	18	0	0	0	13	7	0	2	21	7	2	1
SWAZILAND:																			
BREMERSDORP	73.0	51.5	62.3	-2.8	89.0	31	39.0	18	0	0	0	0	0	0	5	11	8	2	10
PIGGS PEAK	76.5	54.2	65.3	-2.8	92.0	31	41.0	18	0	0	0	1	0	0	2	20	5	3	3

TABLE II : PRECIPITATION IN INCHES : OCTOBER 1940.

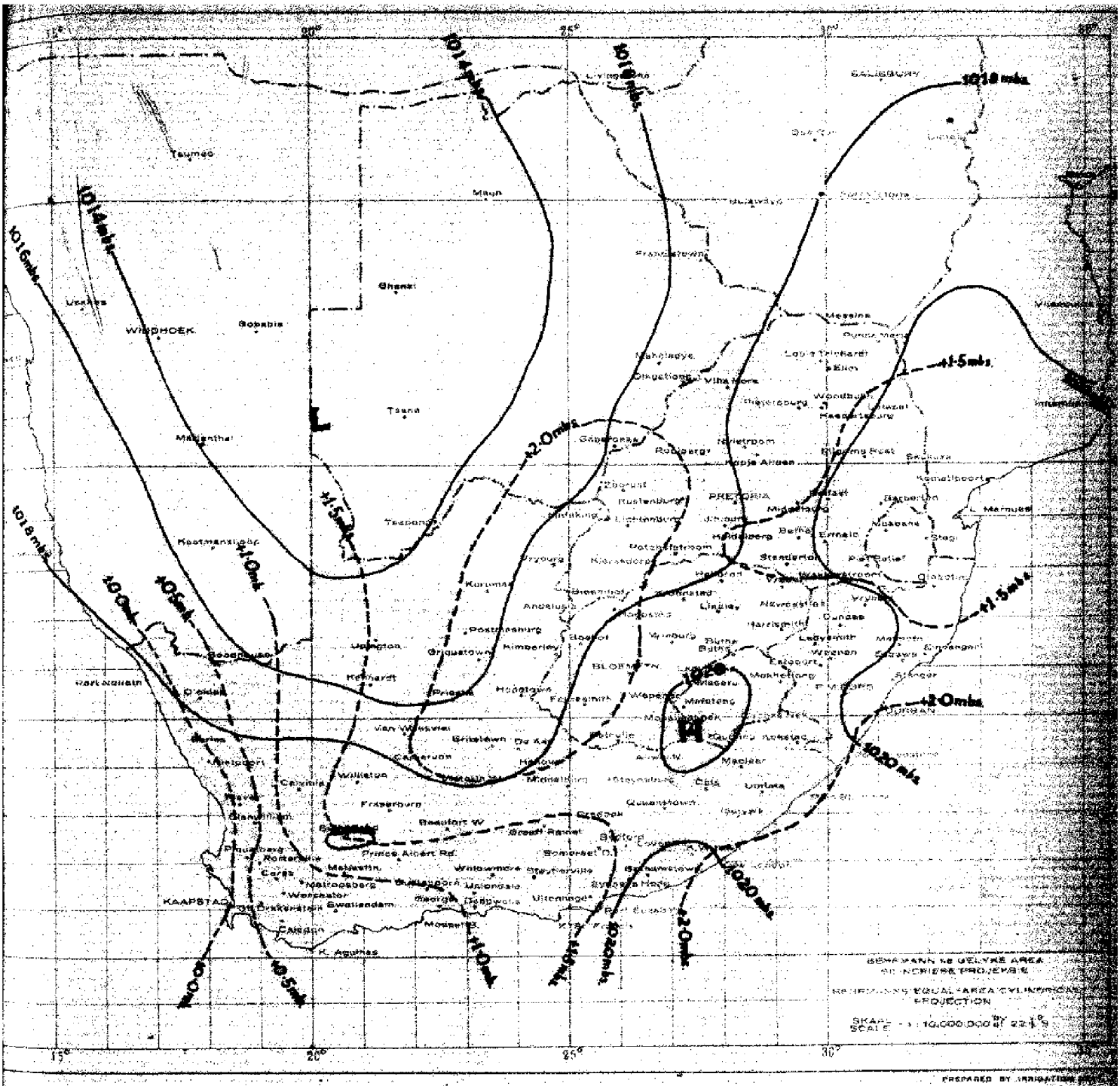
STATION.	OCT. 1940	NORM.	DIFF.	%	MAX. AMT. IN 24 H.	DATE	NO. OF DAYS 0.01" or more.	NO. OF DAYS 0.04" or more.	TH.	H.	S.	CUMULATIVE RAINFALL. From 1/1/'40 % or Norm.	CUMULATIVE RAINFALL. From 1/7/'40 % or Norm.
CAPE PROVINCE:													
ABERDEEN ROAD	0.62	0.64	-0.02	97	0.38	7	2	2	0	0	0	94	119
ALIWAL NORTH	0.17	1.36	-1.19	12	0.11	4	2	2	0	0	0	123	86
ARMOEDSVLAKTE	0.26	0.71	-0.45	37	0.20	19	2	1	0	0	0	105	59
BEAUFORT WEST	0.26	0.64	-0.38	41	0.23	15	3	1	1	0	0	110	161
BEDFORD-		2.30											
BRANDVLEI	0.00	0.16	-0.16	0	0.00	0	0	0	0	0	0	66	91
BRITSTOWN	0.31	0.53	-0.22	59	0.31	19	1	1	0	0	0	84	152
CALA	0.73	1.69	-0.96	43	0.26	29	5	4	6	0	0	115	92
CARNARVON	0.15	0.30	+0.35	216	0.65	19	1	1	2	0	3	134	193
CATHCART	1.06	1.92	-0.86	55	0.43	30	5	5	1	0	0	990	110
CRADOCK	0.15	0.82	-0.67	18	0.15	16	1	1	0	0	0	171	115
DORDRECHT	0.74	1.48	-0.74	50	0.35	29	3	3	0	0	0	116	79
FRASERBURG	0.00	0.18	-0.18	0	0.00	0	0	0	0	0	0	105	165
GOODHOUSE	0.02	0.08	-0.06	25	0.01	26	2	0	0	0	0	101	70
GRAAFF REINET	1.10	0.94	+0.16	117	0.62	7	3	3	0	0	0	149	150
GRAHAMSTOWN	1.98	2.33	-0.35	85	0.96	15	5	6	0	0	0	114	94
GRIQUATOWN	0.21	0.64	-0.43	33	0.10	19	3	3	0	0	0		
GROOTFONTEIN	0.05	0.77	-0.72	7	0.03	15	2	0	1	0	0	121	74
HANOVER	0.00	0.53	-0.53	0	0.00	0	0	0	0	0	0	144	125
HOPETOWN	0.00	0.64	-0.64	0	0.00	0	0	0	0	0	0	86	113
IDUTYWA	0.56	2.08	-1.52	27	0.18	8	4	4	0	0	0	129	95
KENHARDT	0.00	0.22	-0.22	0	0.00	0	0	0	0	0	0	93	158
KIMBERLEY	0.76	0.94	-0.18	81	0.52	21	6	5	4	0	0	107	112
KINGWILLIAMSTOWN	0.70	2.26	-1.56	31	0.25	15	6	4	0	0	0	96	76
KOKSTAD	1.46	2.41	-0.95	61	0.47	29	9	8	6	0	0	103	53
KURUMAN	0.67	0.71	-0.04	94	0.51	20	4	2	0	0	0	117	94
MACLEAR	1.32	2.33	-1.01	57	0.71	29	5	5	1	0	1	72	53
MAFEKING	0.96	1.34	-0.38	72	0.73	20	4	3	1	0	0	158	123
MATJESFONTEIN	0.00	0.39	-0.39	-	0.00	0	0	0	0	0	0		
NELSPOORT	0.18	0.47	-0.29	38	0.14	6	2	2	0	0	0	-	139
NOS LONDON	1.31	3.33	-2.02	39	0.45	16	11	5	2	0	0	88	70
PELLA	0.00	0.10	-0.10	0	0.00	0	0	0	0	0	0	229	269
PHILIPSTOWN	0.00	0.65	-0.65	0	0.00	0	0	0	0	0	0	103	149
PORT ST. JOHNS	1.70	5.22	-3.52	33	0.72	7	13	8	2	0	0	68	65
POSTMASBURG	0.15	0.64	-0.49	23	0.13	31	2	1	5	0	0	105	60
PRIESKA	0.00	0.33	-0.33	0	0.00	0	0	0	0	0	0	89	204
PRINCE ALBERT	0.00	0.22	-0.22	0	0.00	0	0	0	0	0	0	-	-
QUEENSTOWN	0.71	1.53	-0.82	46	0.24	15	5	7	2	0	0	121	93
RIETBRON	0.36	0.51	-0.15	71	0.23	6	2	2	0	0	0	121	162
RIETFONTEIN	0.00	0.22	-0.22	0	0.00	0	0	0	0	0	0	107	114
SOMERSET EAST	1.33	1.93	-0.60	69	0.55	16	3	3	2	0	0	108	132
STEYNSBURG	0.00	0.91	-0.91	0	0.00	0	0	0	0	0	0	102	117
STUTTERVILLE	0.57	0.68	-0.11	84	0.23	16	3	3	0	0	0	93	123
UMTATA	0.41	2.19	-1.78	19	0.22	16	5	2	2	0	0	82	65
UPINGTON	0.00	0.31	-0.31	0	0.00	0	0	0	0	0	0	111	238
VAALBOSCHHOEK	1.31	0.88	+0.43	149	0.72	20	4	4	4	0	0	157	190
VAN WYKSVLEI	0.04	0.25	-0.21	16	0.04	29	1	1	2	0	0	127	185
VICTORIA WEST	0.00	0.43	-0.43	0	0.00	0	0	0	0	0	0	104	139
WILLISTON	0.00	0.21	-0.21	0	0.00	0	0	0	0	0	0	117	103
CALEDON	0.67	1.72	-1.05	39	0.23	29	5	4	0	0	0	87	51
CALVINIA	0.13	0.33	-0.20	39	0.13	5	1	1	1	0	0	124	68
CERES	1.33	2.61	-1.28	51	0.66	15	3	3	1	0	0	88	59
CLANWILLIAM	0.04	0.65	-0.61	6	0.03	15	2	0	0	0	0	7	44
DARLING	1.29	1.08	+0.21	119	0.46	4	6	4	1	0	0	102	69
DARIES.	0.21	0.29	-0.08	72	0.13	16	2	2	0	0	0	94	83

TABLE II : PRECIPITATION IN INCHES : OCTOBER 1940.

STATION.	OCT. 1940	NORM.	DIFF.	%	MAX. AMT. IN 24 H.	DATE	NO. OF DAYS. 0.01" or more.	0.04" or more.	TH. K	H. ▲	S. ✱	CUMULATIVE RAINFALL. From 1/1/'40 % of Norm.	From 1/7/'40 % of Norm.
OR.DRAKENSTEIN	2.33	2.10	+0.23	111	0.87	29	8	5	1	0	0	99	70
K.L'AGULHAS	0.51	1.37	-0.86	37	0.27	15	5	3	0	0	0	137	73
KLAVER	0.32	0.52	-0.20	62	0.13	4	5	3	1	0	0	98	113
MATROOSBERG	0.78	0.48	+0.30	162	0.51	29	3	3	1	0	0	88	58
O'OKIEP	0.10	0.28	-0.18	36	0.05	28	3	1	0	0	0	80	67
PIQUETBERG	1.02	1.29	-0.27	79	0.80	15	5	2	0	0	0	83	57
PORT NOLLOTH	0.07	0.13	-0.06	54	0.05	16	2	1	0	0	0	93	129
RIETPOORT	0.29	0.37	-0.08	78	0.21	4	3	2	0	0	0	77	76
SUTHERLAND	0.02	0.39	-0.37	5	0.02	28	1	0	0	0	0	-	-
WORCESTER	0.33	0.84	-0.51	39	0.21	29	3	3	1	0	0	56	26
WINGFIELD	1.39	0.91	+0.48	153	0.16	15	7	4	1	0	0	143	90
DEEPWALLS	3.25	4.86	-1.61	67	1.65	15	9	8	0	0	0	93	68
GEORGE	1.89	3.07	-1.18	62	0.72	15	9	7	1	0	0	98	66
HUMANSDORP	1.03	2.85	-1.82	36	0.38	15	3	3	0	0	0	81	57
LADISMITH	0.99	0.87	+0.12	114	0.67	15	3	3	0	0	0	109	85
MOSSELBAY	1.58	2.16	-0.58	73	0.47	15	8	5	2	1	0	102	51
OUDTSHOORN	0.85	0.72	+0.13	118	0.35	5	4	4	1	0	0	115	95
PORT ELIZABETH	1.43	2.38	-0.95	60	0.68	15	7	4	4	1	0	74	55
RIVERSDALE	0.95	2.03	-1.08	47	0.37	29	4	4	1	0	0	89	45
SWELLENDAM	1.99	2.61	-0.62	76	1.50	15	4	3	1	0	0	103	86
SYDNEYS HOPE	1.90	2.35	-0.45	81	0.60	15	7	6	2	0	0	92	82
TWEE RIVIERE	1.21	1.87	-0.66	65	0.86	17	2	2	0	0	0	88	69
UITENHAGE	1.35	1.93	-0.58	70	0.63	16	5	4	0	0	0	83	81
UNIONDALE	0.82	0.90	-0.08	91	0.30	16	6	6	0	0	0	100	80
WILLOWMORE	0.06	0.77	-0.71	8	0.06	16	1	1	0	0	0	-	-
ORANGE FREE STATE.													
BETHULIE	0.63	0.94	-0.31	67	0.59	28	3	1	1	0	0	99	108
BLOEMFONTEIN	0.54	1.51	-0.97	36	0.33	4	4	2	3	0	0	89	96
BOSHOF	0.21	1.26	-1.05	17	0.11	21	2	2	0	0	0	89	104
EDENBURG		1.04											
FAURESMITH	0.98	0.92	+0.06	106	0.50	4	4	4	2	0	0	132	155
HARRISMITH		2.73											
HEILBRON	0.91	2.60	-1.69	35	0.74	29	3	3	0	0	0	92	93
HOOPSTAD	0.00	1.56	-1.56	0	0.00	0	0	0	0	0	0	60	15
KROONSTAD	0.49	2.21	-1.72	22	0.13	31	5	5	0	0	0	77	77
LADYBRAND	0.67	2.45	-1.78	27	0.49	4	4	2	2	0	0	81	82
LINDLEY	0.25	2.43	-2.18	10	0.20	5	2	2	0	0	0	95	85
PETRUSBURG	0.69	1.10	-0.41	63	0.43	4	3	3	2	0	0	121	113
REITZ	1.81	2.94	-1.13	62	0.80	3	7	5	0	0	0	93	95
VREDE	2.21	2.85	-0.64	78	0.92	28	5	5	0	0	0	99	107
WEPENER	0.25	1.98	-1.73	13	0.20	4	5	1	2	0	0	94	99
WINBURG	0.34	1.76	-1.42	19	0.22	4	2	2	0	0	0	88	56
TRANSVAAL:													
ALASKA	0.36	1.60	-1.24	22	0.34	1	2	1	1	0	0		76
BARBERTON	1.89	2.67	-0.78	71	0.89	16	6	4	6	1	0	114	75
BELFAST	1.14	3.08	-1.94	37	0.44	16	4	4	7	0	0	119	141
BETHAL	2.38	3.12	-0.74	76	1.15	28	7	6	3	2	0	106	95
BLOEMHOF	0.79	1.14	-0.35	69	0.76	2	2	1	0	0	0	94	56
KLIM HOSPITAL	1.47	1.71	-0.24	86	0.92	1	2	2	0	0	0		
ERMELO	1.66	3.80	-2.14	44	0.37	6	11	9	10	2	0	108	82
GERMISTON	0.45	2.32	-1.87	19	0.13	6	8	5	6	0	0	90	91
GROEN RIVIER	0.76	1.47	-0.71	52	0.68	20	2	2	0	0	0	113	118
HEIDELBERG	0.85	2.44	-1.59	35	0.22	3	8	7	9	0	0	102	69
JOUBERT PARK	0.85	2.78	-1.93	31	0.30	7	6	5	1	0	0	92	118
KLERKSDORP	0.40	1.97	-1.57	20	0.25	1	4	2	3	0	0	64	91
KOMATIPOORT	1.01	1.92	-0.91	53	0.48	17	5	5	0	0	0	-	53
KOPJE ALLEEN	0.05	1.92	-1.87	3	0.02	6	4	0	3	0	0	100	77

TABLE II : PRECIPITATION IN INCHES : OCTOBER 1940.

STATION.	OCT. 1940.	NORM.	DIFF.	%	MAX. AMT. IN 24 H.	DATE.	NO. OF DAYS. 0.01" or more	0.04" or more.	TH.	H.	S.	CUMULATIVE RAINFALL. From 1/1/'40 % of Norm	From 1/7/'40 % of Norm.
LETABA	0.16	1.21	-1.05	13	0.08	1	2	2	0	0	0	86	47
LICHTENBURG	1.02	1.75	-0.74	58	0.54	29	3	3	0	0	0	120	104
LOUIS TRICHARDT	0.90	1.94	-1.04	46	0.88	1	2	1	1	0	0	103	100
MAASSTROOM	0.00	1.01	-1.01	0	0.00	0	0	0	0	0	0	84	58
MESSINA	0.70	0.69	+0.01	102	0.39	11	3	2	0	0	0	72	70
MIDDELBURG	1.64	2.76	-1.12	59	0.49	14	7	7	7	4	0	103	85
NYLSTROOM	0.38	1.90	-1.52	20	0.20	21	2	2	0	0	0	115	138
PIETERSBURG	0.40	1.63	-1.23	25	0.26	20	4	2	2	0	0	100	39
PIET RETIEF	2.05	3.94	-1.89	52	0.82	17	6	6	0	0	0	98	98
PILGRIMS REST	1.78	2.29	-0.51	78	1.22	6	7	4	5	1	0	84	136
POTCHEFSTROOM	0.50	1.92	-1.42	26	0.35	14	3	3	3	0	0	94	128
POTGIETERSRUST	0.49	1.63	-1.14	30	0.49	20	1	1	0	0	0	112	122
PRETORIA	0.55	2.75	-2.20	20	0.36	28	3	2	6	0	0	78	95
PUNDA MARIA	0.90	1.37	-0.47	66	0.62	1	3	2	1	0	0	80	62
ROOIBERG	0.69	1.72	-1.03	40	0.58	20	3	3	0	0	0	141	125
RUSTENBURG	1.17	1.86	-0.69	63	0.62	1	5	5	0	0	0	94	144
SEKUKUNILAND	1.73	2.26	-0.53	77	0.81	7	4	4	0	0	0	95	125
STANDERTON	1.64	3.21	-1.57	51	1.00	30	6	5	1	0	0	77	70
VAALHARTZ	1.20	0.74	+0.46	162	0.62	2	6	4	6	0	0	122	108
WAKKERSTROOM	1.44	3.47	-2.03	41	0.39	6	6	6	2	0	0	94	43
WOODBUSH	1.87	4.12	-2.25	45	0.73	1	10	10	1	0	0	91	118
ZEERUST	1.18	1.35	-0.17	87	0.86	20	5	4	2	0	0	127	240
NATAL:													
DUNDEE	6.65	3.12	+3.53	213	4.75	30	7	5	1	1	0	122	147
DURBAN	1.73	4.56	-2.83	38	0.48	28	9	6	2	0	0	80	50
EMPANGENI	2.48	4.52	-2.04	55	1.00	16	10	8	0	0	0	135	80
ESHOWE	1.82	6.07	-4.25	30	0.59	7	5	4	0	0	0	73	49
ESTCOURT	1.09	2.58	-1.49	42	0.48	29	10	7	6	0	0	--	90
HUNEVILLE	2.00	3.20	-1.20	63	0.56	28	7	7	0	0	0	101	64
KRANSKOP	1.35	3.76	-2.41	36	0.40	16	10	8	0	0	0	129	67
LADYSMITH	0.86	2.90	-2.04	30	0.45	29	5	5	4	0	0	74	61
LANDSDOWNE	1.32	4.04	-2.72	79	0.67	16	5	5	2	0	0	105	48
MELMOTH	1.92	3.31	-1.39	58	0.64	17	9	7	5	0	0	105	64
OTOBOTINI	1.79	2.51	-0.72	71	0.87	5	4	4	2	0	0	88	65
PIETERMARITZBURG	2.48	3.67	-1.19	68	0.53	16	12	11	4	0	0	93	64
PORT SHEPSTONE	1.38	4.57	-3.19	30	0.84	7	10	5	3	0	0	66	45
UMZIMKULU	1.49	2.38	-0.89	63	0.45	29	6	6	1	0	0	103	56
WEENEN	0.71	2.48	-1.77	29	0.44	29	3	3	1	0	0	107	89
BECHUANALAND:													
DIKGATLONG	0.36	1.18	-0.82	31	0.31	20	3	1	3	0	0	113	114
GABERONES	1.17	1.50	-0.33	78	0.89	20	4	4	2	0	0	112	232
MAHALAPYE	0.07	1.21	-1.14	6	0.06	20	2	1	0	0	0	106	116
TSABONG	0.11	0.48	-0.37	23	0.05	4	4	1	1	0	0	121	90
BASUTOLAND:													
BUTHA-BUTHE	0.14	2.78	-2.64	5	0.09	1	2	2	0	0	0	82	46
MAFETENG	0.30	2.28	-1.98	13	0.25	5	2	1	0	0	0	87	98
MASERU	0.90	2.37	-1.47	38	0.55	4	6	5	3	0	0	79	79
MOHALIESHOEK	0.53	2.32	-1.79	23	0.35	4	3	3	0	0	0	96	109
MOKHOTLONG	1.04	2.32	-1.28	45	0.48	29	4	3	0	0	0	96	75
QACHASNEK	4.24	2.75	+1.49	154	1.72	1	10	9	1	1	0	98	120
QUTHING	0.20	2.29	-2.09	9	0.09	28	3	2	0	0	0	110	114
SWAZILAND:													
BLATTKULU	2.78	4.69	-1.91	59	1.25	16	7	6	0	0	0	87	74
MBABANE	4.17	5.33	-1.16	78	1.91	16	10	10	5	0	0	99	95
STEGI	2.85	3.31	-0.46	86	1.40	16	6	6	0	0	0	136	78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-70mbs.
-72mbs.
-74mbs.
-76mbs.
-78mbs.
-80mbs.

CHART II KAART II

October 1940: Mean Temperature; departure from the normal in °F.

Oktober 1940: Gemiddelde Temperatuur; afwyking van die normaal in °F.

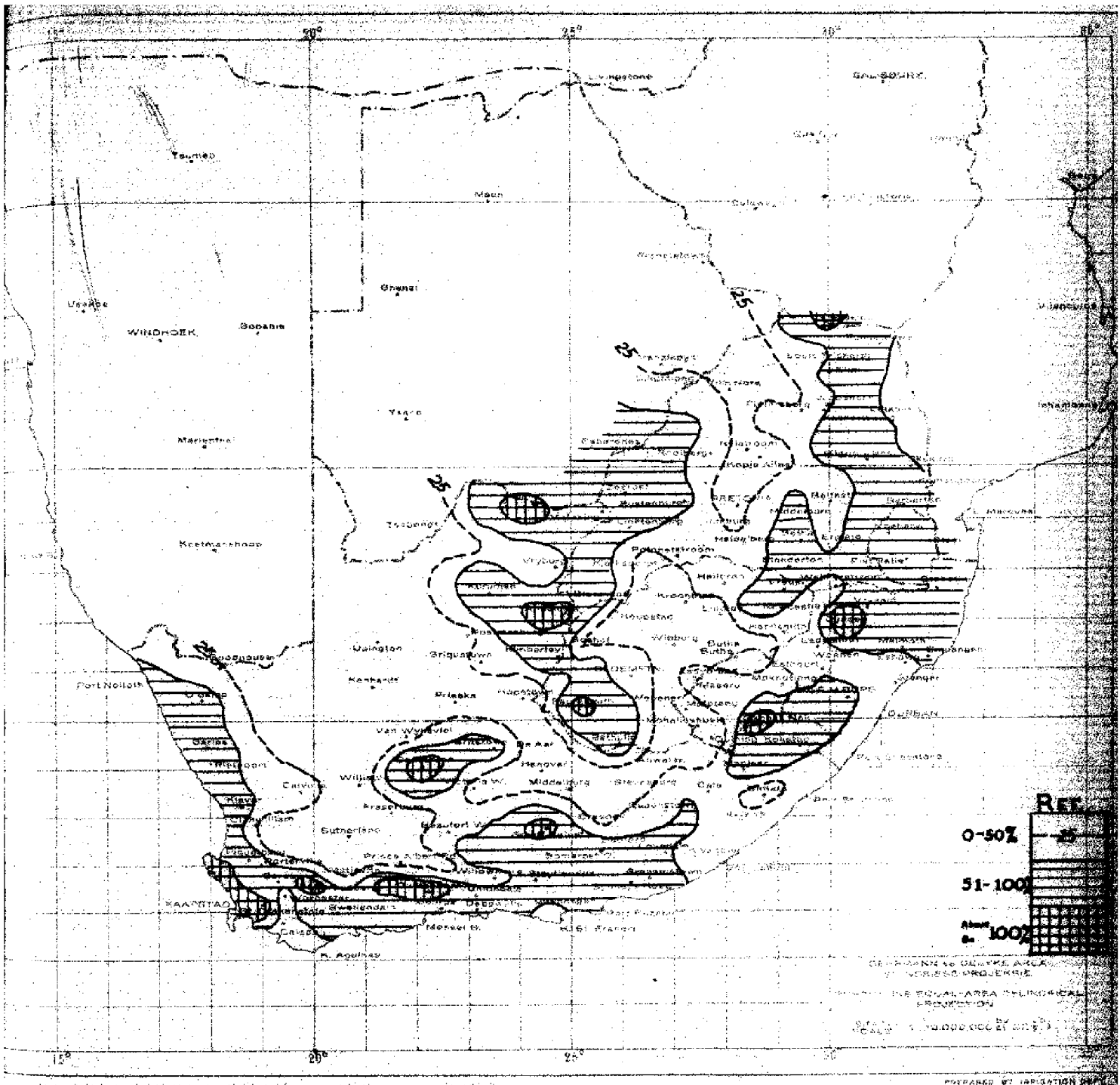

CHART III KAART III

October 1940: Precipitation shown as a percentage of the normal.

Oktober 1940: Neerslag aangegee as 'n persentasie van die normaal

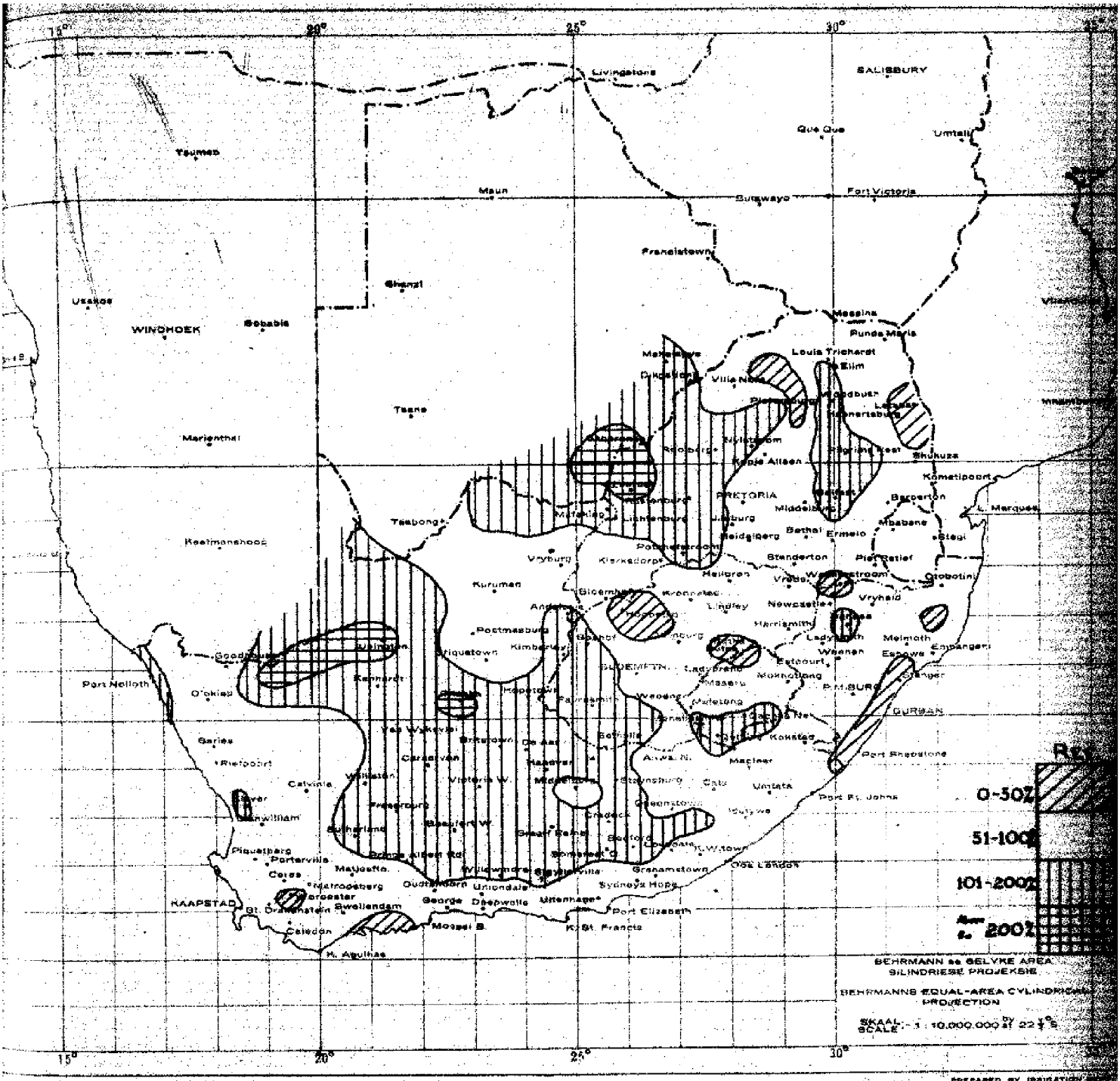

CHART IV KAART IV

Seasonal Precipitation: 1st July 1940 to 31st Oct. 1940, shown as a percentage of the normal.

Seisoen Neerslag: 1e Julie 1940 tot 31e Okt. 1940, aangegee as 'n persentasie van die norm

D I E U N I E V A N S U I D A F R I K A.

DEPARTEMENT VAN BESPROEIING.

MAANDELIKSE WEERVERSLAG

VAN DIE
WEERKUNDIGE KANTOOR.

DEEL XXI NOVEMBER 1940 NO. 11.

HOOFKENMERKE:

Koel oor die westelike helfte van die Unie en mild tot warm oor die oostelike helfte. Neerslag oor die algemeen bevredigend; buitengewoon goeie reen oor die westelike Kaapprovinsie, etlike swaar haelstorms in die sentrale en oostelike Transvaal; ligte ryp hoofsaaklik in die Vrystaat en op die suidelike Transvaalse Hoëveld.

LUGDRUK:

Die distribusie van die gemiddelde lugdruk word aangedui op Kaart I. Die lugdruk was omtrent normaal oor die kusstreek van die westelike Kaapprovinsie, en onder normaal oor die res van die Unie.

TEMPERATUUR:

Die afwykings van gemiddelde maandelikse temperature van die normale word aangetoon op Kaart II. Temperature was bo normaal hoofsaaklik oor die Transvaal, die noordelike Vrystaat, Basoetoland, suidelike Natal en die binneland van die Transkei, en onder normaal oor die res van die Unie. Die grootste negatiewe afwykings (2.4°F) het in die westelike en suidwestelike binneland van die Kaapprovinsie voorgekom.

Soos bereken uit die gegewens in Tabel I, was die algemene gemiddelde temperatuur vir die Unie as geheel 67.5°, of 0.4° onder normaal. Word die provinsies as eenhede beskou dan blyk dit dat die gemiddelde temperatuur vir die Vrystaat en Natal normaal was, vir die Transvaal 0.7° bo normaal, en in die Kaapprovinsie 1.2° onder normaal.

Gemiddelde maksimum, of dag temperature, was oor die algemeen onder normaal, behalwe oor die Transvaal waar die dae ietwat warmer as gewoonlik was. Oor die westelike Kaapprovinsie, aan die anderkant, was die gemiddelde dagtemperature aansienlik onder normaal (3 tot 5°F).

Gemiddelde minimum, of nagtemperature, was onder normaal oor die westelike Unie (naasteby wes van die 26e lengtegraad), en bo normaal oor die oostelike Unie.

Vir die Unie as geheel was die gemiddelde maksimum temperatuur 79.6°F, of 0.7° onder normaal, terwyl die gemiddelde minimum net die normaal bereik het.

Die warmste tydperk van die maand was volgende:- die 16e tot 19e, 25e tot 26e en die 29e. Die hoogste individuele maksima wat in elke provinsie gemeet was volg nou: 106° te Clanwilliam en Goodhouse (K.P.) op die 25e; 105.6° te Letaba (Tvl.) op die 17e; 103° te Otobotini (N) op die 7e, en 91.2° te Faurcsmith (O.V.S.) op die 29e.

Die koudste nagte het op die 3e, 8e en 22e tot 25e voorgekom, en die volgende is die laagste minima wat in elke provinsie gemeet was: 30° te Sutherland (K.P.) op die 22e; 39° te Belfast en Ermelo (Tvl.) op die 24e; 41° te Weenen (N) op die 24e, en 35.8° te Wepener (O.V.S.) op die 24e.

RYP:

Ligte ryp was uit die Vrystaat, die suidelike Transvaalse hoëveld en die noordoostelike Kaapprovinsie gerapporteer. Die ryp het gedurende die nagte van die 23e en 24e voorgekom.

NEERSLAG:

Die distribusie van die neerslag, uitgedruk as 'n persentasie van die normaal, word naasteby aangegee op Kaart III. Drie hoofstreke met neerslag minder as die normaal, word hierop aangetoon, nl. (1) die sentrale Kaapprovinsie, (2) die Transkei en dele van Basoetoland en suidelike Natal, en (3) die westelike Vrystaat, die westelike Transvaal en daaraan grensende distrikte van die noordelike Kaapprovinsie Oor die res van die Unie was die neerslag bo normaal. Die westelike en suidwestelike Kaapprovinsie was besonderlik begunstig, 'n feit wat duidelik deur die hoë persentasies op die kaart aangetoon word; 'n mens moet egter nie vergeet nie dat die normale neerslag vir hierdie streke baie klein is.

Word die reënval gegewens in tabel II nou saamgevat met die doel om 'n verteenwoordigende waarde vir elke provinsie of afdeling van 'n provinsie te verkry, vind ons dat die Kaap, die Vrystaat, Natal en die Transvaal surplusse toon wat onderskeidelik 26%, 17%, 42% en 19% van hulle gemiddelde normale neerslag beteken Ook het al drie die reënstreke van die Kaapprovinsie surplusse getoon, nl. die somerstreek 'n surplus van 2%, die streek met reën in alle seisoen (suidelike Kaapse kusstreek) 23%, en die winterreënstreek 176%. Vir die Unie as 'n geheel was daar 'n surplus van 21%.

Die neerslag, wat hoofsaaklik aan donderstorms te danke was, het naasteby gedurende vier tydperke geval, nl. (1) vanaf die 1e tot 4e, toe buie hoofsaaklik tot die Transvaal en Natal beperk was, hoewel ook die Kaapprovinsie en Vrystaat op die 1e reën gehad het; (2) vanaf die 6e tot 11e, toe ongestadige weer oor die hele Unie geheers het; op die 8e en 9e, besonderlik, het swaar buie van meer as 1 duim in alle provinsies uitgesak; (3) vanaf die 19e tot 22e, gedurende hierdie tydperk het die westelike, sentrale en noordelike Kaapprovinsie, die westelike en suidelike Vrystaat, en die westelike Transvaal geen reën gehad nie, terwyl die res van die Unie verspreide buie en donderstorms ontvang het; (4) vanaf die 26e tot 30e, toe buie en donderstorms hoofsaaklik beperk was tot die Transvaal en Natal, terwyl die Vrystaat en die noordelike Kaapprovinsie net op die 26e afgesonderde buie gehad het.

HAEL:

Gedurende hierdie maand het haelstorms hoofsaaklik voorgekom oor die sentrale en oostelike distrikte van die Transvaal, die binneland van Natal en oor die Vrystaat. Besonder swaar storms het die noordelike Middelburgse distrik op die 21e, die Lydenburgse distrik op die 30e, die Barbertonse distrik op die 11e en 21e, die Settlers distrik op die 22e, en Pretoria stad op die 4e geteister, en het aansienlike skade aan geboue, bome, tuine ens. berokken. Te Pretoria was die voorstad Brooklyn die slegste daarvan af; hier was die haelstene so groot soos hoendereiers, en die skade het op duisende ponde beloop. Die meeste dakpanne van die Universiteitsgeboue was so verniel dat dit verplaas moes word deur nuwe dakmateriaal; by die Weerkundige Kantoor was omtrent helfte van die vensterruite aan die suidekant stukkend geslaan. (Sien ook aantekeninge van waarnemers).

DIE VERSAMELDE NEERSLAG:

Die versamelde neerslag vanaf 1 Januarie 1940, was onder normaal naasteby oor die volgende streke:- (1) die kusstreek van Mosselbaai na Empangeni (N); (2) Basoetoland, die binneland van Natal, die oostelike en noordelike Vrystaat, die suidwestelike Transvaal en 'n deel van die sentrale Transvaal; (3) die uiterste noordelike en noordoostelike Transvaal (4) die binneland van die suidwestelike Kaap, en (5) 'n deel van die noordelike Kaapprovinsie by Hopetown, Britstown en Prieska. Oor die res van die Unie was die neerslag, vir hierdie tydperk, bo normaal. Beskou ons die provinsies as eenhede, dan toon die Kaap, Natal en die Transvaal, klein surplusse van onderskeidelik 3%, 4% en 2% van hulle normaal neerslag vir hierdie periode, terwyl die Vrystaat 'n tekort van 4% toon. Die Kaapse 'somer'- en winterreënstreke toon surplusse van 5%, en die streek met reën in alle seisoene 'n tekort van 4%. Vir die Unie as geheel was daar 'n surplus van 1%.

DIE SEISOEN-NEERSLAG:

Die seisoen neerslag vanaf 1 Julie 1940, uitgedruk as 'n persentasie van die normaal, word naasteby aangedui op Kaart IV. Vir hierdie periode het die Kaapprovinsie, die Vrystaat en Natal tekorte van onderskeidelik 11%, 2% en 7% gehad, en die Transvaal 'n surplus van 7%. Beide die winterreënstreek en die streek met reën in alle seisoene het tekorte van 19% aangetoon, terwyl die somerreënstreek van die Kaapprovinsie 'n surplus van 1% gehad het. Die Unie as 'n geheel beskou, het 'n tekort van 4% getoon.

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U N I O N O F S O U T H A F R I C A.

DEPARTMENT OF IRRIGATION

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE.

VOL. XXI. NOVEMBER 1940. NO. 11.

OUTSTANDING FEATURES:

Cool over the western half of the Union, and mild to warm over the eastern half; precipitation satisfactory on the whole; exceptional rains in the western Cape province; some severe hailstorms in the eastern and centre Transvaal; slight frost mainly in the Freestate and on southern Transvaal highveld.

PRESSURE:

The distribution of mean pressure is shown on chart I. Pressure was about normal over the western Cape coastal regions, and below normal over the remainder of the Union.

TEMPERATURE:

The departure of mean monthly temperature from the normal is shown on chart II. Temperatures were above normal mainly over the Transvaal, the northern Freestate, Basutoland, southern Natal and the interior Transkei, and below normal over the rest of the Union. The largest negative departures from the normal (2.4°F) occurred in the western and southwestern interior of the Cape province.

As computed from the data in table I, the general mean temperature for the Union as a whole was 67.5°, or 0.4° below normal. Considering the provinces as units, mean temperatures for the Freestate and Natal were normal, the Transvaal showed a mean 0.7° above normal, and the Cape province 1.2° below normal.

Mean maximum, or day-temperatures, were on the whole below normal, except over the Transvaal, where the days were slightly warmer than usual. Over the western Cape province, on the other hand, mean day temperatures were considerably below normal (3 to 5°F).

Mean minimum, or night temperatures, were below normal over the western Union (roughly west of the 26th meridian) and above normal over the eastern Union.

For the Union as a whole the mean maximum temperature was 79.6°, or 0.7° below normal, whilst the mean minimum just reached the normal.

The warmest periods of the month were as follows: 16th to 19th, 25th to 26th, and the 29th. The highest individual maxima in each province were: 106° at Clanwilliam and Goodhouse (C.P.) on the 25th; 105.6° at Letaba (Tvl.) on the 17th; 103° at Otobotini (N) on the 7th and 91.2° at Fauresmith (O.F.S.) on the 29th.

The coldest nights occurred on the 3rd, 8th and 22nd to 25th and the following were the lowest minima registered in each province: 30° at Sutherland (C.P.) on the 22nd; 39° at Belfast and Ermelo (Tvl.) on the 24th; 41° at Weenen (N.) on the 24th, and 35.8° at Wepener (O.F.S.) on the 24th.

FROST:

Slight frost was reported from the Freestate, the southern Transvaal highveld, and the northeastern interior of the Cape. The frost occurred on the nights of the 23rd and 24th.

PRECIPITATION:

The distribution of precipitation expressed as a percentage of the normal, is roughly shown on Chart III. Three main areas of sub-normal precipitation are shown, viz. (1) the central Cape province, (2) the Transkei and parts of Basutoland and southern Natal, and (3) the western Freestate, western Transvaal and adjoining districts of the northern Cape province. Over the remainder of the Union precipitation was above normal. The western and southwestern Cape were specially favoured, a fact which is well illustrated by the high percentages on the map, though it must be borne in mind that the normal rainfall for these areas is small.

Combining the rainfall data in table II with a view to obtaining a representative figure for each province or subdivision of a province it is found that the Cape, Freestate, Natal and the Transvaal show surplusses amounting respectively to 26%, 17%, 42% and 19% of their normal precipitation. All the rainfall zones

of the Cape province show surplusses, viz., the 'summer' zone 2%, the 'all-seasons' zone (southern Cape coastal belt) 23%, and the 'winter' zone 176%. For the Union as a whole there was a surplus of 21%.

Precipitation resulting mostly from thunderstorms, occurred roughly during 4 periods, viz:

(1) from the 1st to 4th, when showers were confined mainly to the Transvaal and Natal, though also the Cape province and Freestate had rain on the 1st;

(2) from the 6th to 11th, when unsettled weather prevailed over the whole Union; particularly on the 8th and 9th, heavy showers of over 1 inch were recorded in all provinces;

(3) from the 19th to 22nd; during this period the western, centre and northern Cape, the western and southern Freestate and the western Transvaal remained rainless, whilst the rest of the Union received scattered showers and thunderstorms;

(4) from the 26th to 30th, during which showers and thunderstorms were confined mainly to the Transvaal and Natal, whilst the Freestate and northern Cape province received isolated showers on the 26th.

HAIL:

Hailstorms during this month were mainly confined to the central and eastern districts of the Transvaal, interior Natal and Freestate. Especially severe storms visited the northern Middelburg district on the 21st, the Lydenburg district on the 30th, the Barberton district on the 11th and 21st, the Settlers district on the 22nd, and Pretoria on the 4th, causing considerable damage to trees buildings, etc. At Pretoria the centre of the storm passed over the eastern suburb of Brooklyn, where the hailstones were about the size of hens eggs, and damage was estimated in thousands of pounds. Most of the tiled roofs of the University buildings were so badly perforated that entirely new roofing had to be substituted; at the Meteorological Office about half of the window panes on the south side were smashed. (See also observers' notes).

THE CUMULATIVE RAINFALL:

The cumulative rainfall since January 1st was below normal roughly over the following areas:- (1) the coastal zone from Mosselbay to Empangeni (N.); (2) Basutoland, interior Natal, the eastern and northern Freestate, the southwestern Transvaal; and portion of the central Transvaal; (3) the extreme northern and northeastern Transvaal; (4) the interior southwestern Cape and (5) a portion of the northern Cape province around Hopetown, Britstown and Prieska. Over the remainder of the Union, precipitation for this period was above normal. Taking the provinces as units the Cape, Natal and the Transvaal show small surplusses amounting respectively to 3%, 4% and 2% of their normal precipitation for this period, whilst the Freestate shows a deficit of 4%. The Cape 'summer'- and 'winter' rainfall zones show a surplus of 5%, and the 'all seasons' zone a deficit of 4%. For the Union as a whole there was a surplus of 1%.

THE SEASONAL RAINFALL:

The seasonal rainfall from 1st July 1940, expressed as a percentage of the normal, is roughly shown on Chart IV. For this period the Cape, Freestate and Natal show deficits of 11%, 2% and 7% respectively, and the Transvaal a surplus of 7%.

Both the 'winter' and 'all-seasons' zones of the Cape province show deficits of 19%, whilst the Cape summer rainfall zone had a surplus of 1%. The Union considered as a whole, showed a deficit of 4%.

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AANTEKENINGE VAN WAARNEMERS VIR NOVEMBER, 1940.

OBSERVERS' NOTES FOR NOVEMBER 1940.

BADPLAATS (CAROLINA): Die dae was oor die algemeen aangenaam, met 'n paar warm dae wat uitsonderlik was. Donderweer het gepaard gegaan met skerp blitse en donderslae. Bietjie hael somtyds tussenin - so groot as duifeiers. 7.60 duim reën is aangeteken vir 15 dae.

I.M. van Rooyen.

PRETORIA (HATFIELD): Terrific hailstorm on the 4th at 1715 hours. Average size of hail stones 1¾ inches diameter. Largest measured 3 inches. Extensive damage done to tiled roofs, windows and gardens. 5.46 inches of rain fell on 12 days.

H.J.F. Burroughs.

"PRETORIA" FARM (PIETERSBURG): Temperatures higher than usual during this month. Many thunderstorms. Rainfall above average. 6.49 inches of rain fell on 10 days.

R. Bendall.

HARTEBEESPOORT PROEFSTASIE (BRITS): Die reënval vir die maand was normaal. Hael was erg in die streek en skyn baie wyd verspreid te wees vanjaar. Vanaf die 14e tot die 21ste was die temperature hoog en die weer droog. 5.06 duim reën is aangeteken vir 9 dae.

Die Verantwoordelike Beampte.

ESTCOURT: With the exception of a heavy rain on the 8th, the month was dry and hot. Generally cloudy and windy. Slight hail on the 30th. 4.19 inches of rain fell on 12 days.

W. Lambrechts.

FAURESMITH (O.V.S.): Die weer was hierdie maand droog, warm en windering, nieteenstaande ons in die begin van die maand goeie reëns gehad het. 1.30 duim is aangeteken vir 6 dae.

A.J. v.d. Walt.

ARMOEDSVLAKTE (VRYBURG): Hierdie maand was droog en baie warm. Temperature het geskommel tussen 99° F en 43.6°F. 0.92 duim reën is aangeteken vir 3 dae.

R.J.J. Briel.

PORT SHEPSTONE (N.): The weather during the month has been dull and gloomy. Frequent light rains. 4.66 inches of rain fell on 21 days.

H.W. Mantle.

SANDFLATS (Mt. CURRIE): Excepting good gentle rains during period 7th to 11th, the conditions can be said to have been dry and droughty. 1.99 inches of rain fell on 7 days.

Hewson B. Corderoy

MONTAGU: Wind and weather mild in morning, but developing into gusty weather in afternoons. 1.84 inches of rain fell on 5 days.

T.D.McSweeney.

CRADOCK: The weather for the month has been generally mild, with the exception of a few hot days. Cool during nights. 1.27 inches of rain fell on 3 days.

B. v.d. Merwe.

BARBERTON: Die swaarste donderstorm wat ons die afgelope jaar ondervind het, het op die 21ste om 7 uur oor die dorp losgebars. Die neerslag was 1.55 duim en was vergesel van enkele haelstene ongeveer half duim in deursnee. Hael was ook waargeneem op die 30ste. 'n Kwaai haelstorm het op die 11e, 10 myl ten noorde van Barberton losgebars en aansienlike skade aangerig. 8.04 duim reën is aangeteken vir 15 dae.

L.J. Marais.

SEVEN RIVERS (STELLENBOSCH): Very cold and wet month; mean temperatures 4°F below average for last 10 years. The most difficult season I have experienced. 3.74 inches of rain fell on 13 days.

H.G. Lemon.

MODDERPOORT: A little rain fell at the beginning of the month, followed by good soaking rains on the 8th and 9th, which were badly needed. Remainder of the month rather dry. There was a cold spell during the week-end 23rd to 25th. Slight ground frosts being registered on the 23rd and 24th. 4.91 inches of rain fell on 10 days.

John W. Eddolls.

POTCHEFSTROOM: Temperature het baie geskommel en warm en koue dae was kenmerkend. Die aanhoudende noordwestelike winde was nog 'n uitstaande weerstoestand gedurende die afgelope maand. Die reënval van 2.51 duim vir 4 dae was swak versprei.

B.D. Saaymann.

MOUNT EDGECOMBE (VERULAM): Temperatures for this month were above normal. The total hours of sunshine were below the normal. There were four mornings on which the sky was free from clouds and 16 mornings on which it was completely overcast. 8.25" fell on 17 days.

The Director, S.A. Sugar Experiment Station.

WOLMARANSSTAD: In die begin was die weer koel met reën tussenin. Toe weer warm en droog sonder reën. Daarna koue suide winde en effentjies ryp maar nie skade nie. Daarop volg toe weer 'n drukkende hitte met droogte. Oor die algemeen 'n onegalige maand. 2.86 duim reën vir 6 dae.

J.F. van Rensburg.

DARLING: Weather very unsettled and variable. Winds variable. 1.39 inches of rain fell on 7 days.

P. Drake.

MARITZBURG (MENTAL HOSPITAL): Very strong wind on the 20th, which did quite a lot of damage. 5.48 inches of rain fell on 18 days.

S.H. Harris.

LADYSMITH (NATAL): Taamlike koue weer gedurende die maand, asook hael in dele van die distrik. 3.25 duim reën is aangeteken vir 9 dae.

E.C. Viljoen

DOHNE PROEFPLAAS (STUTTERHEIM): Nieteenstaande die reën bly dit droog en warm, met warm winde. 2.24 duim reën is vir 10 dae aangeteken.

J.H.K. Kruger.

MIDDELBURG (TVL.): Conditions generally speaking very satisfactory. Good rains, but rather heavy and severe thunder. 6.48 inches of rain fell on 12 days.

V.P. Rose.

WEPENER (O.F.S.): Ground frost was recorded on the 24th which did some damage to gardens; otherwise the month was hot, with welcome rains at the beginning of the month. Rainfall registered 4.05 inches on 8 days.

W.T.E. Kemm, F.R.M.S.

LOUISVALE (C.P.): Sudden drop in temperature from the 8th to the 9th, with early rains over 3 days, steady and continuous. 2.14 inches of rain were recorded on 3 days.

Brian T. Mennell.

PRIESKA (C.P.): Temperatures varied between 99.6°F and 49.4°F. Rain fell on 4 days, totalling 0.76 inches.

S.K. Visser.

HERMITAGE (ADDO): This month was characterised by two initial weeks of uncertain weather, rain seeming imminent at any time, but on each occasion such promising weather was frustrated by fairly strong south easterly winds. The latter half of the month was hot, dry and windy. 1.41 inches of rain fell on 4 days.

C.J. Naude.

NELSPRUIT (TVL.): Haelstorm op die 23ste, vergesel van wind wat ongeveer 42 myl per uur gewaai het. Temperature het geskommel tussen 96°F en 55.8°F. 'n Tweede haelstorm op die 30ste. Haelstene almal buitengewoon groot, maar min. 7.61 duim reën is aangeteken vir 15 dae.

G.S. Mare.

BRITSTOWN (KP): 'n Kort stofstorm op die 6e doen skade aan huise. 0.58 duim reën is aangeteken vir 2 dae.

J. v.d. Walt.

BUFFELSPOORT (RUSTENBURG): A south west wind, force over "6" on the 18th at 19.00 hours to midnight damaged buildings on neighbouring farm. A south wind on the 30th, force "7", at 17.30 tot 18.15 hours damaged fruit. 3.23 inches of rain fell on 9 days.

R. Redpath.

CAPE HERMES (C.P.): Good soaking rains during the month; 5.42 inches on 20 days. Winds usually light in the mornings, but strengthening towards afternoons.

G.L. Robinson.

LINDLEY (O.F.S.): Very good rains have fallen during this month, but drought is setting in again the last few days. 5.34 inches of rain fell on 7 days.

S.F. Gouws.

UPINGTON (K.P.): Warm oor die algemeen met 'n paar koue dae tussenin. 1.54 duim reën is aangeteken vir 3 dae.

S. Malan.

SEKUKUNILAND (TVL.): After extreme heat early in the month, copious rains set in. Rainfall well above the average for November. A hailstorm was experienced on the 27th. 12.87 inches of rain fell on 14 days.

Q.J. van Rensburg.

FRAAI UITZICHT (SENEKAL, O.V.S.): Die maand was bitter droog. Na elke bietjie reën waai die dorre winde die vogtigheid baie gou weer weg. Die aarde hier was vir etlike jare nog nooit goed nat nie. 2.91 duim reën is aangeteken vir 8 dae.

J.D. Kirchner.

RANNOCK (BARKLY EAST, C.P.): Hot and dry generally, with heavy frost on the 24th. The rains fell early in the month. 2.70 inches of rain fell on 6 days.

Mrs. K.G. Sephton.

GROOTFONTEIN (MIDDELBURG, KAAP): Die eerste helfte van die maand was taamlik reelmatig met sagte reën oor twee dae versprei. Die laaste helfte van die maand was uiters droog, met koel tot koue nagte en warm dae. 1.90 duim reën is aangeteken vir 5 dae.

W. v.d. Merwe.

NOTTINGHAM ROAD (STRATHEARN, Natal): Cold, dull weather. 2.23 inches of rain fell on 21 days.

Miss E.J. Smythe.

MOSSEL BAY: Threatening weather and heavy rains, but no thunder and lightning. Very gusty on the 9th. Wind reached gale force on the 26th at 16.10 hours. 2.73 inches of rain fell on 11 days.

The Meteorological Officer.

RIETPOORT (VAN RHYNSDORP, C.P.): Very welcome rains fell, exceeding those in corresponding month of previous year. 1.28 inches fell on 3 days.

M. Hudson.

BALFOUR (SEYMOUR, C.P.): Terrific rainstorm on afternoon of the 10th, causing Buxton River to overflow banks, submerge orange groves, uprooting 18 year old navel trees and doing considerable damage in washing away soil. 4.13 inches of rain fell in 2½ hours. Monthly rainfall 4.90 inches on 6 days.

E.W. Hulse.

KOPJE ALLEEN (TVL.): Although very little of it was felt at this station, the wind, hail and rain on the 22nd did considerable damage on adjoining farms and at "Settlers". The rainfall for the month was 4.47 inches on 13 days, which is 0.55 inches above the average.

J. Lyall Soutter, F.R.M.S.

LADYBRAND, O.V.S.: Groot verspoelings veroorsaak deur storm gedurende nag van die 9e. Besonder droog teen einde van die maand. 5.71 duim reën is aangeteken vir 8 dae.

Die Regeringsbosbouer.

EMERALD DALE (IXOPO, NATAL): After a comparatively dry spring the rainfall this month has been very good. 4.89 inches of rain fell on 20 days.

Max Anderson.

SAAIFONTEIN (HANOVER): Baie ongunstige klimaat. Ryp doen skade op sommige plekke. Reënval 0.90 duim vir 3 dae.

S.J. du P. Roos

GROENVLEI (RUSTENBURG): Die grootste hitte bekend in die bosveld. Geen siektes. Geen ooste as reën wegbly. Weer baie stormagtig met fyn hael gemeng. Reënval 1.38 duim vir 2 dae.

J.A. Erasmus.

ELANDSFONTEIN (POTCHEFSTROOM): Droog, lokale buie val op sommige plase en dan nog vergesel van hael. Reënval 2.67duim vir 6 dae.

P.J. Davidz.

JANE FURSE HOSPITAL, MIDDELBURG: Terrific hailstorm, about midnight on the 21st. 50 Windows in hospital and many elsewhere broken. Local crops destroyed. Hail stones the size of hens' eggs; as far as I can gather the belt of big hail stones was 3 or 4 miles wide. It was here travelling east, but at Magnet Heights (7 miles away) it changed its course to north east. It went along the Lulu mountains but did not cross them. Rainfall 6.74 inches on 14 days.

H.M. Alston.

LYDENBURG (CLYDE): Heavy hailstorm on the 30th, which lasted for half an hour. Hail as large as tennis balls. Heavy showers followed. Much damage to window panes and fruit trees and gardens.

P. BENEKE.

TABEL I : TEMPERATUUR EN BEWOLKTHEID :
NOVEMBER 1940.

Resultate van waarnemings om 0830 S.A. Standaard Tyd.

STASIE.	LUG TEMPERATURE IN ° F.								AANTAL DAE.						BEWOLKTHEID.				
	Gem. Max.	Gem. Min.	Gem.	Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Onder 37	32	0°	Max. 90	95	Bo. 100°	Gem.	Aantal 0-1	2-5	6-9	10
KAAPPROVINSIE:																			
ALIWAL NOORD	79.3	52.7	66.0	+0.2	91.0	19	39.0	24	0	0	0	1	0	0	2	16	10	4	0
ARMOEDSVLAKTE	88.2	55.9	72.1	+0.2	99.0	30	43.6	23	0	0	0	12	7	0	3	18	4	7	1
BEAUFORT WES	81.0	52.9	66.9	-1.6	96.0	25	42.9	24	0	0	0	5	1	0	5	16	3	9	3
BRITSTOWN	81.6	53.0	67.3	-2.6	93.0	30	41.0	3	0	0	0	3	0	0	2	21	4	3	3
CALA	76.1	53.1	64.6	+0.0	93.5	19	40.0	24	0	0	0	2	0	0	3	11	5	7	4
KAAP L'AGULHAS	68.1	57.0	62.5	-1.0	71.0	25	52.0	22	0	0	0	0	0	0	6	4	8	11	7
CARNARVON	80.2	49.3	64.7	-2.4	93.0	6	41.0	24	0	0	0	2	0	0	3	16	5	6	3
CERES	77.9	49.2	63.5	-2.7	94.0	25	38.0	3	0	0	0	4	0	0	3	16	4	10	1
CLANWILLIAM	85.6	54.9	70.3	-2.4	106.0	25	48.0	8	0	0	0	9	5	1	3	17	3	4	4
CRADOCK	80.8	51.9	66.3	-1.0	97.0	19	42.0	24	0	0	0	5	2	0	3	17	7	3	1
DEEPWALLS	67.1	51.9	56.5	-1.6	90.5	25	44.2	23	0	0	0	1	0	0	6	6	9	10	6
EOS LONDON	72.5	59.7	66.1	-0.7	87.3	25	52.5	24	0	0	0	0	0	0	5	9	6	9	6
GOODHOUSE	91.1	60.3	75.7	-4.0	106.0	25	51.5	8	0	0	0	16	9	5	2	22	4	4	0
GRAAFF REINET	83.8	54.4	69.1	-0.3	98.0	26	41.9	24	0	0	0	10	3	0	4	13	6	6	3
GRAHAMSTOWN	73.8	53.3	63.5	+0.2	96.4	25	42.2	12	0	0	0	1	1	0	4	11	8	4	7
GRIQUATOWN	81.4	51.5	66.5	-1.1	92.0	19	42.0	11	0	0	0	4	0	0	4	15	3	7	6
GT.DRAKENSTEIN	75.2	52.5	63.9	-3.1	92.5	25	42.2	18	0	0	0	1	0	0	3	14	7	6	4
GROOTFONTEIN (K)	77.0	46.0	61.5	-3.0	88.9	6	34.8	24	2	0	0	0	0	0	4	11	7	9	4
HOPETOWN	84.4	55.6	70.0	-1.5	96.0	29	46.0	24	0	0	0	11	1	0	3	15	3	12	0
IDUTYWA	72.9	53.8	63.3	-0.2	94.0	26	44.0	24	0	0	0	3	0	0	7	7	1	5	12
KENHARDT	86.0	55.4	70.7	-2.8	99.0	6	48.0	23	0	0	0	11	4	0	1	23	3	3	1
KIMBERLEY AERO	85.5	57.2	71.3	+0.1	97.7	19	42.7	24	0	0	0	10	2	0	2	16	10	2	2
KINGW'TOWN	77.7	57.2	67.5	+0.0	99.0	25	48.0	23	0	0	0	3	1	0	5	6	11	6	4
KLAVER	79.7	56.0	67.9	-2.8	96.8	25	46.0	8	0	0	0	6	2	0	4	16	2	8	4
KOKSTAD	74.2	52.1	63.1	+0.2	94.5	19	38.8	24	0	0	0	4	0	0	6	7	4	9	5
KURUMAN(SEODIN)	84.3	53.0	68.7	-1.2	94.0	18	41.0	10	0	0	0	8	0	0	4	12	9	4	4
MAFEKING	86.6	58.8	72.7	+0.6	97.8	17	45.0	10	0	0	0	10	5	0	3	5	17	8	1
MATROOSBERG	70.7	46.1	58.4	-3.5	88.5	25	36.2	22	1	0	0	0	0	0	4	15	4	9	3
MOSSELBAAI	69.2	54.8	62.0	+0.0	81.8	25	47.9	24	0	0	0	0	0	0	5	9	7	7	6
O'OKIEP	75.4	50.9	63.1	-3.6	90.5	25	42.0	8	0	0	0	1	0	0	2	19	5	4	2
OUDTSHOORN	82.2	52.6	67.4	+0.1	100.0	25	42.0	24	0	0	0	2	2	0	2	16	7	6	2
PT.ELIZABETH	72.0	56.6	64.3	+0.6	84.4	13	47.0	12	0	0	0	0	0	0	5	12	5	6	3
PORT NOLLOTH	66.0	51.8	58.9	+0.4	95.0	24	45.0	4	0	0	0	2	0	0	4	13	4	5	4
PORT ST.JOHNS	72.8	63.7	68.3	-0.8	84.0	6	58.0	24	0	0	0	0	0	0	7	1	9	7	13
POSTMASBURG	83.4	56.8	70.1	-0.6	95.3	19	44.2	11	0	0	0	8	1	0	3	16	4	6	4
PRIESKA	86.5	58.4	72.5	-1.2	99.6	29	49.4	24	0	0	0	14	5	0	3	19	4	4	3
QUEENSTOWN	78.9	54.4	66.7	+0.0	94.0	19	42.0	24	0	0	0	5	0	0	5	9	9	6	6
RIETPOORT	77.2	52.7	64.9	-3.9	94.8	24	42.4	8	0	0	0	3	0	0	4	12	8	7	3
RIVERSDALE	75.2	52.3	63.7	-2.3	98.0	25	44.0	24	0	0	0	1	1	0	6	6	7	10	7
SOMERSET OOS	81.0	54.0	67.5	+1.6	96.8	19	43.8	24	0	0	0	8	3	0	5	9	5	11	5
SUTHERLAND	71.2	40.6	55.9	-2.2	86.0	26	30.0	22	5	3	0	0	0	0	3	15	8	5	3
UITENHAGE	78.8	55.5	67.1	+0.2	103.8	25	49.5	3	0	0	0	3	1	1	5	15	3	2	10
UMTATA	77.6	56.7	67.1	+0.6	98.0	26	46.0	24	0	0	0	5	1	0	6	5	5	5	11
UPINGTON	85.0	57.3	71.1	-4.3	102.2	6	50.7	23	0	0	0	9	5	1	2	18	7	2	2
VAN WYKSVLEI	84.3	53.3	68.8	-1.7	99.6	6	45.4	22	0	0	0	10	2	0	3	15	8	5	3
VICTORIA WES	79.3	50.5	64.9	-1.4	93.0	6	41.0	24	0	0	0	2	0	0	2	16	9	5	1
WILLOWMORE	77.7	50.3	64.0	-1.1	96.0	25	37.0	25	0	0	0	2	1	0	4	11	4	7	4
WINGFIELD	72.3	53.6	62.9	-1.8	87.7	25	42.4	18	0	0	0	0	0	0	5	9	4	13	3
TRANSVAAL:																			
BARBERTON	82.4	62.9	72.7	+1.2	94.0	16	53.4	25	0	0	0	8	0	0	5	8	3	13	6
BELFAST	72.4	49.4	60.9	+0.6	85.0	17	39.0	24	0	0	0	0	0	0	4	12	8	5	5
EMKELO(DORP)	77.4	52.0	64.7	+1.2	89.0	18	39.0	24	0	0	0	0	0	0	5	8	10	3	5

TABEL I : TEMPERATUUR EN BEWOLKTHEID :

NOVEMBER 1940. (Vervolg)

Resultate van waarnemings om 0830 S.A. Standaard Tyd.

STASIE.	LUG TEMPERATURE IN °F.								AANTAL DAE.						BEWOLKTHEID.			
	Gem. Max.	Gem. Min.	Gem.	Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Onder 37	32	27°	Min. Bo 90	95	100°	Gem.	Aantal 0-1	2-5	6-9	Dae. 10
GERMISTON	77.8	56.1	66.9	+1.6	87.8	17	44.0	24	0	0	0	0	0	0	5	10	8	8	4
HEIDELBERG	81.3	55.1	68.2	+1.7	92.0	27	45.8	24	0	0	0	3	0	0	5	11	6	8	5
JOUBERT PARK	78.5	56.1	67.3	+0.9	88.0	17	43.5	24	0	0	0	0	0	0	4	11	11	5	3
KLERKSDORP	84.5	58.4	71.5	+0.4	95.0	17	47.8	10	0	0	0	5	0	0	3	14	7	8	1
KOMATIPOORT	90.6	-	-	-	110.0	1	-	-	-	-	-	12	8	4	5	1	11	14	0
KOPJE ALLEEN	86.6	59.7	73.1	+0.5	97.2	17	51.0	26	0	0	0	11	2	0	4	9	9	9	3
LETABA	(91.8)	67.3	(79.5)	-	105.6	(17)	50.5	25	0	0	0	(13)	(11)	(6)	6	9	1	7	8
LOUIS TRICHARDT	82.8	61.9	72.3	+1.8	96.0	17	52.0	26	0	0	0	5	3	0	5	5	12	8	7
MESSINA	90.9	69.3	80.1	+1.5	103.6	17	59.7	25	0	0	0	17	13	5	4	11	7	7	5
MIDDELBURG	79.6	54.0	66.7	-0.3	89.0	17	43.0	25	0	0	0	0	0	0	5	9	5	12	3
NYLSTROOM	85.8	58.4	72.1	+1.0	96.0	17	48.0	25	0	0	0	9	1	0	4	9	9	9	3
PIETERSBURG	81.5	57.7	69.6	+0.3	93.5	17	45.3	26	0	0	0	1	0	0	5	10	4	12	4
PIET RETIEF	77.0	56.2	66.6	+1.2	92.0	17	42.0	24	0	0	0	3	0	0	7	4	6	8	11
PELGRIMS RUS	79.1	55.7	67.4	+1.1	90.5	17	44.4	26	0	0	0	2	0	0	5	11	4	7	8
POTCHEFSTROOM	84.7	57.0	70.9	+1.4	94.0	17	45.0	11	0	0	0	9	0	0	3	18	2	9	1
PRETORIA(MET.)	80.5	58.0	69.3	+0.5	91.3	17	48.8	24	0	0	0	2	0	0	5	10	6	9	6
PUNDA MARIA	90.1	67.6	78.9	-	104.0	17	58.0	25	0	0	0	16	11	2	5	13	3	3	11
RUSTENBURG	87.1	58.6	72.9	+0.2	97.0	18	49.0	25	0	0	0	9	1	0	6	3	9	13	4
SEKUKUNILAND	80.8	60.0	70.4	+0.7	93.0	17	51.0	26	0	0	0	1	0	0	4	12	9	7	3
STANDERTON	77.3	54.3	65.8	-0.4	90.0	17	43.0	25	0	0	0	0	0	0	4	8	9	13	2
VAALHARTZ	86.8	52.8	69.3	-1.0	95.6	29	39.1	5	0	0	0	10	1	0	3	15	6	7	2
WAKKERSTROOM	74.1	(46.9)	(60.5)	(-1.0	85.3	18	(31.6)	(5)	(4)	(1)	(0)	0	0	0	6	6	7	7	10
ZEERUST	86.8	59.6	73.2	+0.9	97.0	17	49.0	10	0	0	0	10	5	0	4	9	9	9	3
NATAL:																			
DUNDEE	78.0	56.1	67.1	-0.2	91.4	17	43.0	24	0	0	0	2	0	0	7	6	4	9	12
DURBAN	76.8	65.2	71.0	+1.4	91.2	19	57.0	24	0	0	0	1	0	0	7	6	4	8	12
EMPANGENI	81.5	65.2	73.3	+0.4	100.0	16	55.0	24	0	0	0	7	2	0	6	4	9	6	11
ESHOWE	80.2	60.3	70.3	+1.6	102.0	17	53.0	25	0	0	0	6	2	1	4	9	7	9	1
ESTCOURT	77.9	56.0	66.9	-0.7	93.0	16	42.0	24	0	0	0	3	0	0	6	6	6	8	10
LADYSMITH	80.1	58.4	69.3	-1.6	97.0	16	47.0	24	0	0	0	6	2	0	6	7	4	5	14
MELMOTH	77.7	58.3	68.0	-0.3	99.2	16	49.6	24	0	0	0	8	2	0	6	7	5	7	11
OTOBOTINI	86.7	65.2	75.9	-0.2	103.0	7	58.0	25	0	0	0	6	4	1	6	2	5	8	9
PIETERM'BURG	78.5	(60.1)	(69.3)	(+0.5	100.4	19	(54.0)	(13)	(0)	(0)	(0)	6	4	1	7	5	5	5	15
PORT SHEPSTONE	74.5	64.2	69.3	-0.3	81.6	16	56.0	24	0	0	0	0	0	0	7	4	1	13	13
WEENEN	81.4	59.1	70.3	-0.8	98.0	16	41.0	24	0	0	0	6	2	0	6	7	5	3	15
O.V.S.																			
BETHULIE	80.4	50.9	65.7	-1.3	91.0	29	39.0	24	0	0	0	3	0	0	3	14	10	6	0
BLOEMFONTEIN	80.5	52.2	66.3	-1.4	90.4	29	40.3	24	0	0	0	1	0	0	3	15	12	1	0
FAURESMITH	80.6	52.6	66.6	-0.3	91.2	29	40.3	24	0	0	0	2	0	0	3	17	4	7	0
HARRISMITH	80.2	49.9	65.1	+1.5	90.0	16	38.0	22	0	0	0	0	0	0	4	10	9	11	0
KROONSTAD	84.9	54.6	69.7	+1.2	94.0	30	44.0	24	0	0	0	9	0	0	3	13	9	5	3
LADYBRAND	77.4	51.0	64.2	+0.1	87.0	19	38.0	24	0	0	0	0	0	0	3	17	2	5	6
LINDLEY	(80.2)	(53.7)	(66.9)	(+0.6	(88.0)	(18)	(47.0)	(11)	(0)	(0)	(0)	(0)	(0)	(0)	(4)	4)	(9)	(8)	(0)
WEPENER	79.7	51.9	65.8	-0.1	89.8	19	35.8	24	1	0	0	0	0	0	4	15	4	10	1
BASUTOLAND:																			
BUTHA BUTHE	77.6	51.3	64.5	+0.1	86.0	18	44.0	25	0	0	0	0	0	0	4	13	9	5	3
MASERU	78.6	53.6	66.1	+0.6	89.0	19	38.0	24	0	0	0	0	0	0	3	13	12	2	3
QACHASNEK	70.6	48.8	59.7	+1.0	83.0	19	32.0	24	1	0	0	0	0	0	4	11	9	3	7
QUTHING	79.7	51.5	65.6	+1.8	89.0	18	35.0	24	1	0	0	0	0	0	3	12	12	0	6

TABEL I : TEMPERATUUR EN BEWOLKTHEID :
NOVEMBER 1940. (Vervolg)

Resultate van waarnemings om 0830 S.A. Standaard Tyd.

STASIE.	LUG TEMPERATURE IN °F								AANTAL DAE						BEWOLKTHEID.			
	Gem. Max.	Gem. Min.	Gem.	Vers. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min. Onder : 37	32	27°	Max. Bo. 90	95	100	Gem.	Aantal Dae. 0-1	2-5	6-10
BECHUANALAND:																		
DIKGATLONG	91.7	-	-	-	105.0	18	-	-	-	-	-	18	10	3	5	10	9	3
GABERONES	90.4	62.7	76.5	+1.2	102.0	17	54.0	10	0	0	0	16	10	2	4	7	15	4
MAHALAPYE	91.0	64.4	77.7	+1.0	104.0	17	55.9	11	0	0	0	18	10	2	(5)	(7)	(3)	(8)
TSABONG	91.9	56.6	74.3	-	103.0	29	42.0	10	0	0	0	18	14	3	4	15	5	7
SWAZILAND:																		
MBABANE	78.2	57.5	66.9	+0.9	92.0	16	46.0	24	0	0	0	1	0	0	6	4	7	6
STEGI	78.2	60.1	69.1	+0.8	94.0	7	50.0	24	0	0	0	3	0	0	4	10	7	8

TABEL II : NEERSLAG IN DUIME : NOVEMBER 1940.

STASIE.	NOV. 1940	NORM.	VERS.	%	MAX. HVD. IN 24 U.	DAT.	AANTAL DAE. 0,01" of meer.	0,04" of meer.	TH.	H.	S.	VERSAMELDE NEERSLAG. Vanaf 1/1/'40 % Van Norm.	Vanaf 1/7/'40 % van Norm.
KAAPPROVINSIE:													
ABERDEEN WEG	0.25	0.71	-0.46	35	0.25	9	1	1	0	0	0	88	97
ALIWAL NOORD	3.08	2.12	+0.96	145	1.42	9	6	6	3	0	0	107	110
ARMOEDSVLAKTE	0.92	1.61	-0.69	57	0.85	8	3	2	0	0	0	99	58
BEAUFORT WES	0.26	0.78	-0.52	33	0.14	9	3	2	1	1	0	104	126
BRANDVLEI	0.68	0.28	+0.40	242	0.39	8	3	3	0	0	0	78	123
BRITSTOWN	0.58	0.74	-0.16	78	0.52	8	2	2	0	0	0	84	127
CALA	2.52	2.62	-0.10	96	1.34	9	6	6	1	0	0	113	94
CARNARVON	0.61	0.71	-0.10	86	0.50	8	3	2	0	0	0	129	151
CRADOCK	1.27	1.07	+0.20	119	0.70	9	3	3	0	0	0	165	117
DORDRECHT	3.02	2.55	+0.47	118	1.24	9	5	5	0	0	0	116	94
FRASERBURG	0.22	0.43	-0.21	51	0.15	9	2	2	0	0	0	102	130
GOEDEHOOP	1.08	0.10	+0.98	1080	0.53	8	4	3	1	0	0	-	-
GRAAFF REINET	1.14	1.38	-0.24	83	0.71	9	3	3	2	0	0	141	128
GRAHAMSTOWN	2.74	2.30	+0.44	119	1.15	8	10	6	0	0	0	114	101
GRIQUATOWN	1.06	0.96	+0.10	110	0.68	9	4	3	0	0	0	-	-
GROOTFONTEIN	1.90	1.58	+0.32	120	1.16	8	5	3	0	0	0	119	93
HANOVER	0.93	1.29	-0.36	72	0.83	8	2	2	0	0	0	135	102
HOPETOWN	1.53	1.35	+0.18	113	0.54	9	5	5	3	0	0	89	113
IDUTYWA	2.31	2.92	-0.61	79	0.56	9	9	9	1	0	0	122	90
KENHARDT	1.91	0.42	+1.49	454	0.81	11	4	4	0	0	0	121	275
KIMBERLEY	1.58	1.56	+0.02	101	0.58	2	5	5	2	0	0	106	107
KING W'TOWN	2.06	2.65	-0.59	78	0.78	10	9	9	0	0	0	94	76
KOKSTAD	2.04	4.04	-2.00	51	1.00	8	13	9	8	0	0	95	52
KURUMAN	1.20	1.41	-0.21	85	0.71	6	3	3	5	0	0	114	89
MACLEAR	2.76	3.69	-0.93	75	0.92	8	10	10	0	0	0	75	62
MAFEKING	0.98	2.50	-1.52	39	0.72	8	7	5	3	0	0	140	81
MATJESFONTEIN	1.30	0.36	+0.94	361	1.05	9	2	2	0	0	0	-	-

TABEL II : NEERSLAG IN DUIME :
NOVEMBER 1940. (Vervolg)

STASIE.	NOV. 1940	NORM.	VERSK.	%	MAX. HVD. IN 24 U.	DAT.	AANTAL DAE. 0.01" of meer.	0.04" of meer.	TH.	H.S. ▲	✱	VERSAMELDE NEERSLAG Vanaf 1/1/'40 % van Norm.	Vanaf 1/7/'40 % van Norm.
NELSPOORT	1.10	0.76	+0.34	145	0.93	9	4	3	0	0	0		
OOS LONDEN	3.10	3.25	-0.15	95	0.73	8	11	9	3	1	0	89	77
PELLA	1.00	0.22	+0.78	454	0.56	9	2	2	0	0	0	245	340
PHILIPSTOWN	1.56	1.31	+0.25	119	1.00	8	4	3	1	1	0	105	137
PORT ST.JOHNS	5.42	4.45	+0.97	122	1.64	11	18	15	4	0	0	74	79
POSTMASBURG	0.86	1.02	-0.16	84	0.37	8	5	4	2	0	0	103	70
PRIESKA	0.76	0.83	-0.07	92	0.36	8	4	3	0	0	0	90	152
QUEENSTOWN	1.66	2.19	-0.53	76	0.54	9	7	7	2	0	0	116	87
RIETBRON	0.32	0.59	-0.27	54	0.32	9	1	1	0	0	0	115	134
RIETFONTEIN	2.00	0.47	+1.53	426	2.00	8	1	1	1	0	0	132	244
SOMERSET OOS	2.67	2.38	+0.29	112	1.44	11	6	4	2	0	0	108	126
STEYNSBURG	3.26	1.56	+1.70	209	1.90	9	4	4	0	0	0	115	153
STEYTLERVILLE	0.42	0.88	-0.46	48	0.31	9	2	2	0	0	0	88	102
UMTATA	2.45	2.81	-0.36	87	0.65	9	9	8	5	0	0	82	73
UPINGTON	1.54	0.53	+1.01	291	1.18	8	3	3	1	1	0	126	260
VAALBOSCHHOEK	0.69	1.78	-1.09	39	0.69	8	1	1	1	0	0	141	113
VAN WYKSVLEI	0.76	0.51	+0.25	149	0.35	8	3	3	0	0	0	127	173
VICTORIA WES	0.92	0.84	+0.08	110	0.74	9	3	2	1	0	0	104	128
WILLISTON	0.60	0.38	+0.22	158	0.56	8	2	2	0	0	0	120	116
CALEDON	2.63	1.45	+1.18	181	0.87	9	11	9	0	0	0	94	69
CALVINIA	1.11	0.44	+0.67	252	0.71	8	5	5	0	0	0	131	93
CERES	2.49	1.75	+0.74	142	1.22	21	6	6	0	0	0	91	69
CLANWILLIAM	0.54	0.24	+0.30	225	0.39	9	4	3	0	0	0	76	55
DARLING	1.39	0.83	+0.56	168	0.62	9	7	7	1	0	0	105	77
GARIES	1.98	0.17	+1.81	1164	1.30	9	4	4	0	0	0	130	160
G.DRAKENSTEIN	2.92	1.73	+1.19	169	0.76	19	10	8	0	0	0	102	80
K.L'AGULHAS	4.37	1.18	+3.19	370	2.35	9	11	9	0	0	0	154	115
KLAVER	1.48	0.23	+1.25	644	0.77	8	3	3	0	0	0	115	147
MATROOSBERG	1.96	0.27	+1.69	726	1.34	9	7	5	0	0	0	108	102
O'OKIEP	2.65	0.15	+2.50	1766	2.00	9	6	3	0	0	0	122	163
PIQUETBERG	1.28	1.02	+0.26	126	0.47	7	5	4	0	0	0	86	64
PORT NOLLOTH	1.17	0.06	+1.11	1950	0.73	9	4	3	0	0	0	139	227
RIETPOORT	1.28	0.21	+1.07	609	1.16	8	3	2	0	0	0	94	116
SUTHERLAND	1.43	0.51	+0.92	280	1.00	9	3	3	0	0	0		111
WORCESTER	1.39	0.54	+0.85	257	0.88	9	6	4	0	0	0	64	47
WINGFIELD	1.57	0.68	+0.89	231	0.60	19	11	6	0	0	0	147	103
DEEPWALLS	4.83	4.14	+0.69	117	1.15	22	14	12	0	0	0	95	78
GEORGE	3.18	3.28	-0.10	97	0.78	10	13	10	0	0	0	97	73
HUMANSDORP	2.51	2.27	+0.24	110	1.34	10	4	4	0	0	0	84	66
LADISMITH	2.30	1.13	+1.17	204	1.48	9	4	4	0	0	0	118	110
MOSSEL BAY	2.73	2.06	+0.67	133	0.68	10	11	7	0	0	0	105	68
OUDTSHOORN	1.12	0.90	+0.22	124	0.60	7	3	3	1	0	0	116	102
PT.ELIZABETH	4.09	1.88	+2.21	218	2.14	10	9	7	0	0	0	86	83
RIVERSDALE	2.42	1.56	+0.86	155	1.11	9	9	8	0	0	0	95	67
SWELLENDAM	4.44	2.45	+1.99	181	1.33	9	10	9	0	0	0	110	106
SYDNEYS HOPE	1.76	2.17	-0.41	81	0.48	10	7	6	1	0	0	91	84
TWEE RIVIEREN	0.36	1.54	-1.18	23	0.36	16	1	1	0	0	0	82	60
UITENHAGE	1.68	1.58	+0.10	106	1.39	11	4	4	0	0	0	85	86
UNIONDALE	0.97	0.98	-0.01	99	0.32	9	8	7	0	0	0	100	84
WILLOWMORE	0.32	0.66	-0.34	49	0.32	9	1	1	0	0	0		103

TABEL II : NEERSLAG IN DUIME :

NOVEMBER 1940. (Vervolg)

STASIE.	NOV. 1940	NORM.	VERSK.	%	MAX. HVD. In 24 U.	DAT.	AANTAL DAE. 0.01" of meer.	0.04" of meer.	TH.	H.	S.	VERSAMELDE NEERSLAG. Vanaf 1/1/'40 % van Norm	Vanaf 1/7/'40 % van Norm.
O.V.S.:													
BETHULIE	1.91	1.68	+0.23	114	0.87	8	6	4	4	1	0	100	110
BLOEMFONTEIN	5.56	2.54	+3.02	219	2.35	9	7	5	3	0	0	107	151
BOSHOF	2.13	2.15	-0.02	99	0.55	8&9	7	7	0	0	0	91	73
FAURESMITH	1.30	1.63	-0.33	80	0.78	8	6	4	4	1	0	126	122
HARRISMITH	4.65	3.76	+0.89	124	1.75	9	12	9	2	0	0		
HEILBRON	4.34	3.93	+0.41	111	1.55	8	6	6	0	0	0	96	101
HOOPSTAD	2.40	2.73	-0.33	88	2.40	8	1	1	0	0	0	65	50
KROONSTAD	2.39	3.10	-0.71	77	0.92	9	9	7	4	0	0	77	77
LADYBRAND	5.71	3.81	+1.90	150	2.75	8	8	5	5	0	0	92	112
LINDLEY	5.34	3.46	+1.88	154	1.35	8	7	6	0	0	0	105	116
PETRUSBURG	1.29	1.74	-0.45	74	0.93	8	3	3	0	0	0	115	95
REITZ	3.17	4.04	-0.87	76	1.94	8	8	8	0	0	0	90	88
VREDE	4.79	3.90	+0.89	123	2.08	8	8	8	0	0	0	103	92
WEPENER	4.05	2.94	+1.11	138	1.99	9	8	4	5	0	0	99	115
WINBURG	3.28	3.19	+0.09	103	2.20	8	4	4	4	0	0	91	79
TRANSVAAL:													
BARBERTON	8.04	4.47	+3.57	180	1.86	10	15	12	13	2	0	126	128
BELFAST	5.87	5.19	+0.68	115	1.72	8	13	12	9	0	0	118	127
BETHAL	7.30	4.95	+2.35	147	2.57	8	15	14	9	0	0	114	121
BLOEMHOF	1.53	2.24	-0.71	68	1.05	8	2	2	0	0	0	91	52
ELIM HOSPITAL	2.56	3.42	-0.86	75	0.73	9	7	7	1	0	0		
ERMELO	6.74	5.14	+1.60	131	1.93	8	15	12	17	1	0	113	105
GERMISTON	6.73	4.46	+2.27	151	2.63	8	10	10	14	3	0	103	123
GROENRIVIER	1.69	3.19	-1.50	53	1.20	8	13	11	14	3	0	102	80
HEIDELBERG	5.48	4.80	+0.68	114	2.38	8	12	10	15	0	0	105	94
JOUBERT PARK	5.42	5.26	+0.16	103	2.62	8	13	10	6	3	0	94	109
KLERKSDORP	1.76	3.28	-1.52	54	1.13	9	6	5	3	0	0	62	45
KOMATIPOORT	7.86	3.07	+4.79	256	-	-	-	-	3	1	0		148
KOPJE ALLEEN	4.47	3.68	+0.79	121	1.38	22	13	10	16	1	0	104	101
LETABA	3.24	2.78	+0.46	117	1.34	10	6	5	3	0	0	91	87
LICHTENBURG	1.50	3.13	-1.63	48	1.14	8	2	2	0	0	0	109	75
LOUIS TRICHARDT	3.01	3.66	-0.65	82	0.83	10	8	8	8	0	0	100	91
MAASSTROOM	2.99	2.50	+0.49	120	1.45	23	3	3	0	0	0	91	96
MESSINA	2.95	2.38	+0.57	124	0.96	8	7	7	0	0	0	83	108
MIDDELBURG	6.48	4.98	+1.50	130	2.90	9	13	12	11	1	0	108	109
NYLSTROOM	4.02	3.61	+0.41	111	1.16	9	10	9	17	1	0	114	124
PIETERSBURG	6.38	2.92	+3.46	218	2.85	9	11	9	6	0	0	122	138
PIET RETIEF	5.17	5.06	+0.11	102	1.20	8	16	15	2	0	0	99	100
PELGRIMSRUS	7.60	4.87	+2.73	156	1.28	30	17	13	13	0	0	95	147
POTCHEFSTROOM	2.51	3.24	-0.73	77	1.29	8	4	4	2	0	0	91	103
POTGIETERSRUS	3.54	4.20	-0.66	84	1.16	10	8	8	0	0	0	106	98
PRETORIA	5.33	4.93	+0.40	108	1.90	8	4	4	0	0	0	84	102
PUNDA MARIA	5.23	3.78	+1.45	138	4.20	8	7	4	11	0	0	90	110
ROOIBERG	2.10	3.79	-1.69	55	0.49	9	9	9	-	-	-	124	84
RUSTENBURG	1.26	3.54	-2.28	36	0.31	10	7	6	-	-	-	84	87
SEKUKUNILAND	12.87	3.72	+9.15	346	2.86	27	13	12	5	1	0	142	240
STANDERTON	5.98	4.47	+1.51	134	2.20	9	17	15	7	0	0	87	100
VAALHARTZ	0.84	1.29	-0.45	65	0.69	8	3	3	4	0	0	115	89
WAKKERSTROOM	7.18	4.92	+2.26	146	2.13	22	18	14	11	2	0	104	90
WOODBUSH	7.39	7.47	-0.08	99	1.87	8	18	14	4	0	0	92	108
ZEERUST	2.54	2.87	-0.33	89	1.21	8	6	5	3	0	0	120	154

TABEL II : NEERSLAG IN DUIME :

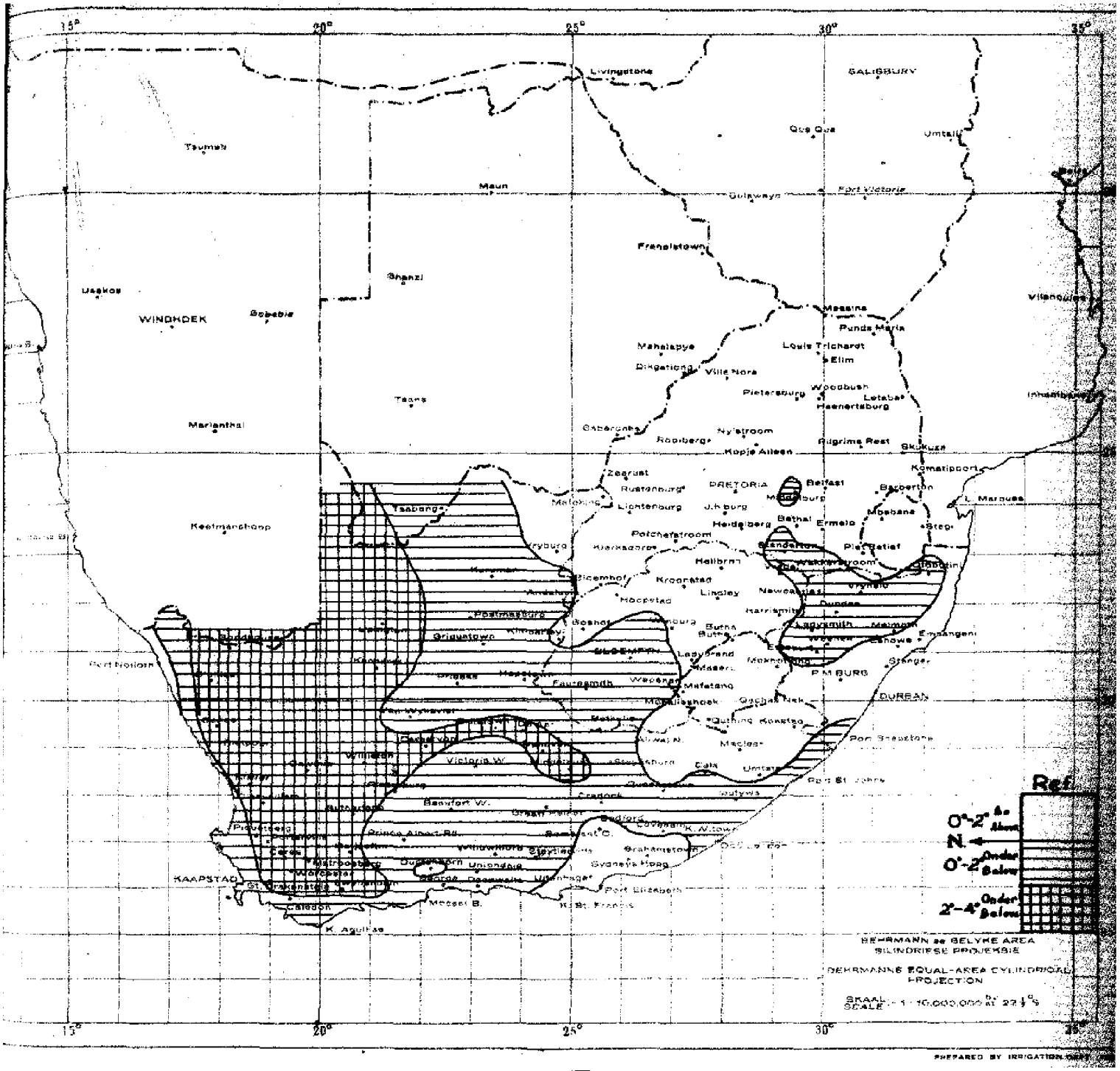
NOVEMBER 1940. (Vervolg)

STASIE.	NOV. 1940.	NORM.	VERSK.	%	MAX. HVD. IN 24 U.	Dat.	0.01" of meer	0.04" of meer	TH.	H ▲	S. ✱	Vanaf 1/1/ 40 % van Norm.	Vanaf 1/7/'40 % van Norm.
NATAL:													
DUNDEE	5.37	4.58	+0.79	117	2.25	8	13	12	4	1	0	121	134
DURBAN	7.22	3.76	+3.46	192	2.13	18	15	12	0	0	0	93	90
EMPANGENI	8.94	4.49	+4.45	199	2.31	11	17	13	6	0	0	142	115
ESHOWE	9.97	6.63	+3.34	150	2.00	9	14	14	3	0	0	84	84
ESTCOURT	4.19	3.65	+0.54	115	3.04	8	12	10	12	1	0		100
HILLEVILLE	3.78	4.47	-0.69	85	1.61	9	14	11	0	0	0	98	72
KRANSKOP	6.61	4.41	+2.20	150	1.33	8	19	19	1	0	0	132	98
LADYSMITH	3.25	3.71	-0.46	88	2.26	8	9	9	4	0	0	76	72
LANDSDOWNE	10.14	4.13	+6.01	246	3.41	8	7	7	2	0	0	123	118
MELMOTH	5.49	4.08	+1.41	135	1.47	9	17	14	11	0	0	110	91
OTOBOTINI	6.01	2.96	+3.05	203	2.20	9	11	11	7	0	0	105	118
PIETERM'BURG	5.48	4.49	+0.99	122	2.07	8	18	15	5	0	0	98	86
PORT SHEPSTONE	4.66	4.38	+0.28	106	0.87	8	21	17	8	0	0	71	61
UMZIMKULU	5.18	3.49	+1.69	148	1.53	8	15	14	1	1	0	114	94
WEENEN	3.42	3.80	-0.38	90	2.05	8	9	8	5	0	0	104	90
BETSJOEANALAND:													
DIKGATLONG	4.00	2.73	+1.27	147	1.82	3	9	8	0	0	0	119	133
GABERONES	1.48	3.23	-1.75	46	0.72	8	4	3	4	0	0	100	126
MAHALAPYE	1.23	2.70	-1.47	46	0.61	4	5	5	0	0	0	95	75
TSABONG	0.11	0.96	-0.85	11	0.07	10	3	1	1	0	0	109	53
BASOETOLAND:													
BUTHA BUTHE	4.95	4.35	+0.60	114	1.31	8	9	9	2	1	0	87	77
MAFETENG	2.96	3.28	-0.32	90	1.29	8	4	4	0	0	0	87	95
MASERU	4.63	3.55	+1.08	130	2.65	8	7	6	5	0	0	89	101
MOHALESHOEK	2.75	3.23	-0.48	85	0.31	9	4	4	0	0	0	95	99
MOKHOTLONG	1.04	3.26	-2.22	32	0.78	9	8	7	0	0	0	86	87
QACHASNEK	3.04	4.46	-1.42	68	1.53	9	6	6	0	0	0	94	98
QUTHING	3.05	3.43	-0.38	89	1.35	9	6	6	3	1	0	107	104
SWAZILAND:													
HLATIKULU	7.35	6.19	+1.16	118	1.33	9	19	17	0	0	0	92	93
MBABANE	8.14	6.75	+1.39	121	1.45	8	19	18	5	1	0	103	105
STEGI	5.16	3.37	+1.79	153	2.20	9	13	12	0	0	0	139	106

KAART I CHART I

Nov. 1940: Gemiddelde Lugdruk by seespieël (om 8·30 v.m.). Die gebroke lyne dui die afwyking van die normale druk vir November aan.

Nov. 1940: Mean Atmospheric Pressure at M.S.L. (at 8·30 a.m.). The broken lines represent the departure from the normal pressure for November.



KAART II CHART II

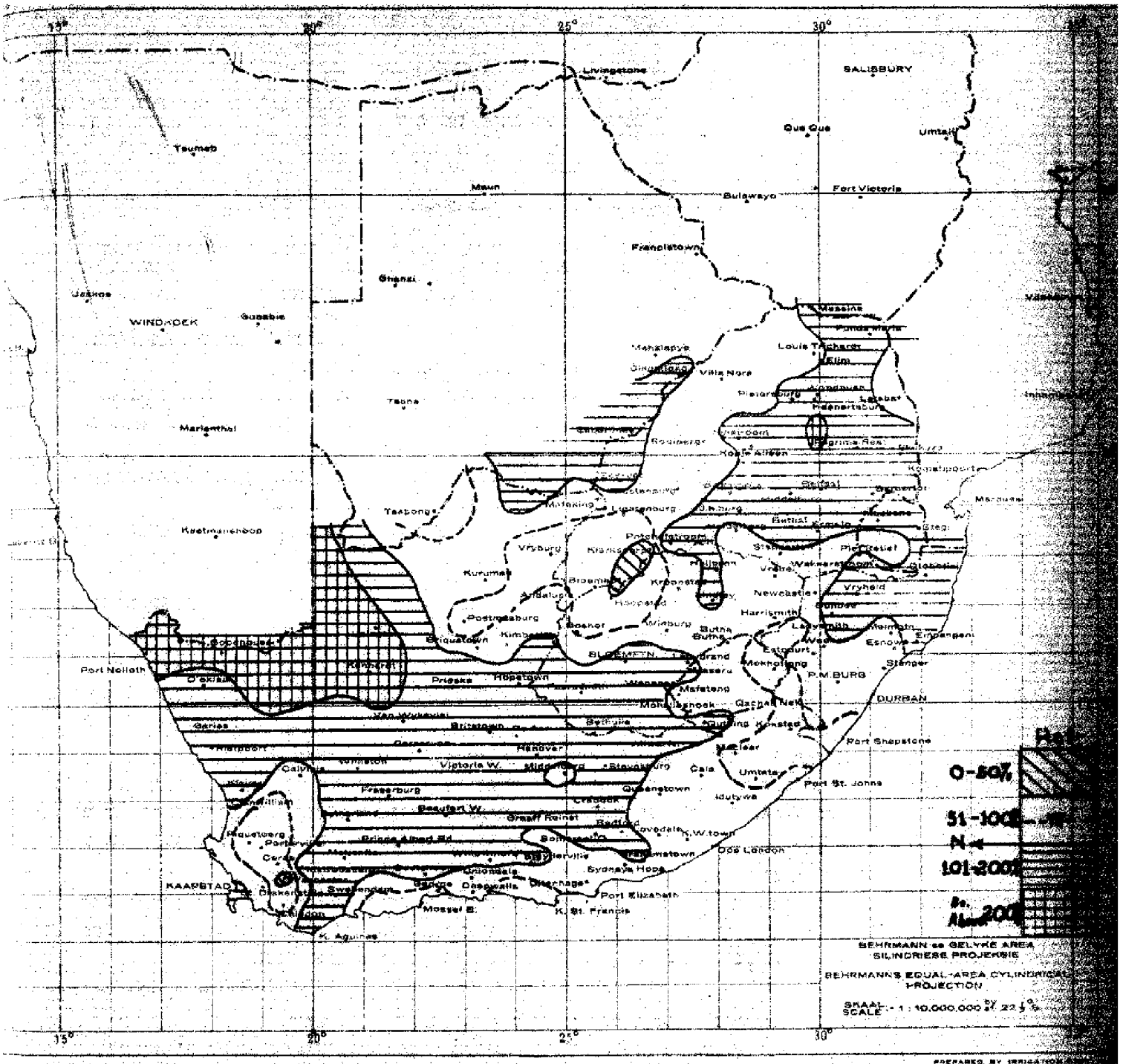
Nov. 1940: Gemiddelde Temperatuur: afwyking van die normaal in °F.

Nov. 1940: Mean Temperature: departure from the normal in °F.

KAART III CHART III

November 1940: Neerslag aangegee as persentasie van die normaal

November 1940: Precipitation shown as percentage of the normal



KAART IV CHART IV

Seisoen-Neerslag: 1ste Julie 1940 tot 30ste November 1940, aangegee as persentasie van die normaal.

Seasonal Precipitation: 1st July 1940 to 30th November 1940, shown as percentage of the normal.

UNION OF SOUTH AFRICA

DEPARTMENT OF IRRIGATION.

MONTHLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE.

VOL. XXI . DECEMBER 1940 NO. 12.

OUTSTANDING FEATURES:

Temperatures mainly above normal - hot during first half of the month; Precipitation above normal over the northern provinces and below over the Cape province, especially the southern and southeastern coastal zone.

ATMOSPHERIC PRESSURE:

The distribution of mean atmospheric pressure is shown on Chart I. Pressure was above normal over the western Cape and over the eastern interior of the Union, and about normal over the central Cape and along the southeastern coast.

TEMPERATURE:

Mean temperatures for the month were above normal over the whole Union except along the west and southwest coastal zone. In the centre of the Union, along the Natal coast and in the northern Transvaal, positive departures exceeded 2°F. (See Chart II and table I.)

As computed from data in table I, the mean temperature for the Union as a whole was 72.8° F, or 1.8° above normal. Considering the provinces separately, the mean temperatures for the Cape, Transvaal, Natal and Freestate were above normal by 1.5°, 1.7°, 1.7° and 3.0° respectively.

Mean maximum- or day-temperatures, were mainly above normal except over the western Cape, around East London, Queenstown and Idutywa in the southeastern Cape, and at a few stations in the Transvaal and interior Natal.

Mean minima, or night-temperatures, were above normal over practically the whole Union.

Taking the Union as a whole, the mean maximum temperature was 84.7°F, or 1.4° above normal, and the mean minimum 60.7° or 2.2° above normal.

High temperatures over 90°F occurred on some or other date practically all over the Union, whilst temperatures exceeding 100°F were not uncommon. On the whole the highest temperatures occurred from the 9th to 12th, and on the 16th and 17th. The following were the highest individual maxima registered in each province:- 111.2° at Goodhouse (C.P.) on the 16th; 106° at Letaba (E.Tvl.) on the 9th; 103° at Otobotini (Natal) on the 23rd, and 101° at Bethulie (O.F.S.) on the 17th.

The lowest minimum temperatures were registered mainly from the 1st to the 4th, on the 15th and 16th and on the 23rd, and the following were the lowest values pertaining to each province:- 42° at Sutherland (C.P.) on the 1st; 45° at Belfast (Tvl.) on the 4th; 52° at Estcourt (N.) on the 3rd, and 48° at Lindley (O.F.S.) on the 1st.

PRECIPITATION:

The distribution of precipitation, expressed as a percentage of the normal, is roughly shown on Chart III. Generally speaking, the rainfall over the three northern provinces and the northern Cape districts adjoining the Transvaal, was above normal, whilst the remainder of the Cape province shows a subnormal rainfall. The southern and western interior Cape received no precipitation worth mentioning.

Considering the provinces as units, the Freestate, Natal and Transvaal showed surplusses amounting respectively to 9%, 35% and 48% of their normal rainfall, whilst the Cape province showed a deficit of 40%. Of the latter province, the summer rainfall zone showed a deficit of 28%, the winter rainfall zone a deficit of 47% and the 'all-seasons' rainfall zone (southern Cape coastal belt) a deficit of 72%. For the Union taken as a whole there was a surplus of 17%.

Thunder conditions prevailed practically throughout the month over the three northern provinces and the eastern interior of the Cape province. During the first half of the month thundershowers were mostly isolated, but from about the 17th rain was more generally distributed. From the 18th to the 23rd especially, heavy showers exceeding 1 inch of rain were very frequent in the three northern provinces. The southwestern and southern Cape coastal zone received occasional very light showers.

HAIL:

Hail storms, although fairly frequent mainly during the first half of the month, did not cause appreciable damage. Only one report of severe damage was reported from the district of Reitz (O.F.S.)

THE ANNUAL PRECIPITATION:

The annual precipitation (1st January to 31st December 1940), expressed as a percentage of the normal is roughly shown on Chart IV. It will be seen that precipitation was below normal along the coastal zone from about Cape Agulhas to Empangeni (N.) as well as over large areas in the interior Cape province, in the Freestate and northern Transvaal. As computed from data in Table II, the Transvaal and Natal taken as units, both showed a surplus of 9%, the Cape province a deficit of 3%, whilst precipitation for the Freestate as a whole just reached the normal. The 'summer' and 'winter' rainfall zones of the Cape province showed surplusses of 1% and 4% respectively, and the 'all-seasons' rainfall zone a deficit of 20%. For the Union as a whole there was a surplus amounting to 3% of its normal annual rainfall.

THE SEASONAL RAINFALL:

The seasonal rainfall from 1st July 1940, expressed as a percentage of the normal, is roughly shown on Chart V. For this period the Freestate, Natal and Transvaal considered as units showed surplusses amounting respectively to 4%, 1% and 22% of their normal rainfall, whilst the Cape province showed a deficit of 17%. The 'summer', 'all-seasons' and 'winter' rainfall zones of the latter province showed deficits of 10%, 29% and 17% respectively. For the Union as a whole there was a surplus of 1%.

U N I E V A N S U I D A F R I K A.

DEPARTEMENT VAN BESPROEIING.

MAANDELIKSE WEERVERSLAG.

VAN DIE

WEERKUNDIGE KANTOOR.

DEEL XXI. DESEMBER 1940. No. 12

HOOFKENMERKE:

Temperature hoofsaaklik bo normaal - baie warm gedurende die eerste helfte van die maand; neerslag bo normaal oor die noordelike provinsies en onder normaal oor die Kaapprovinsie, veral die suidelike en suidoostelike Kaapse kusstreke.

LUGDRUK:

Die distribusie van die gemiddelde lugdruk word op Kaart I aangetoon. Die lugdruk was bo normaal oor die westelike Kaapprovinsie en oor die oostelike binneland van die Unie, en omtrent normaal oor die sentrale Kaap en langs die suidoostelike kus.

TEMPERATUUR:

Gemiddelde temperature vir hierdie maand was bo normaal oor die hele Unie behalwe oor die westelike en suidwestelike kusstreke. In die middeldele van die Unie, langs die Natalse kus en in die noordelike Transvaal het positiewe afwykings 2°F oorskry. (Sien Kaart II en tabel I).

Soos bereken uit die gegewens in tabel I, was die gemiddelde temperatuur vir die Unie as 'n geheel 72.8°F, or 1.8° bo normaal. Word die provinsies as eenhede beskou, dan bly dit dat die gemiddelde temperature vir die Kaap, Transvaal, Natal en Vrystaat onderskeidelik 1.5°, 1.7°, 1.7° en 3.0° bo normaal was.

Gemiddelde maksimum-, of dagtemperature, was hoofsaaklik bo normaal behalwe oor die westelike Kaap, in die nabyheid van Oos Londen, Queenstown en Idutywa in die suid-oostelike Kaap, en by 'n paar stasies in die Transvaal en in die Natalse binneland.

Gemiddelde minima, of nagtemperature, was bo normaal oor bykans die hele Unie.

Vir die Unie as geheel was die gemiddelde maksimum temperatuur 84.7°F, of 1.4° bo normaal, en die gemiddelde minimum 60.7°, of 2.2° bo normaal.

Hoë temperature bo 90°F het op een of ander datum oor byna die hele Unie voorgekom; tewens was temperature bo 100°F ook by baie stasies aangeteken. Oor die algemeen het die hoogste temperature vanaf die 9e tot 12e, en op die 16e en 17e voorgekom. Die volgende was die hoogste individuele maksima wat in elke provinsie aangeteken is:- 111.2° te Goodhouse (K.P.) op die 16e; 106° te Letaba (Oos Tvl.) op die 9e; 103° te Otobotini (N.) op die 23e, en 101° te Bethulie (O.V.S.) op die 17e.

Die laagste minimum temperature was geregistreer hoofsaaklik vanaf die 1e tot 4e en op die 15e, 16e en 23e, en die volgende was die laagste waardes in elke provinsie:- 42° te Sutherland (K.P.) op die 1e; 45° te Belfast (Tvl.) op die 4e; 52° te Estcourt (N.) op die 3e, en 45° te Lindley (O.V.S.) op die 1e.

NEERSLAG:

Die distribusie van die neerslag, aangegee as 'n persentasie van die normaal, word naasteby aangetoon op Kaart III. Algemeen gesproke, was die reënval bo normaal oor die drie noordelike provinsies en die noordelike Kaapse distrikte wat aan die Transvaal grens, terwyl die neerslag oor die res van die Kaapprovinsie onder normaal was. Die suidelike en westelike binneland van die Kaapprovinsie het so te sê geen reën ontvang nie.

Beskou ons die provinsies as eenhede, dan toon die Vrystaat, Natal en Transvaal surplusse wat onderskeidelik 9%, 35% en 48% van hulle normale neerslag beteken, terwyl die Kaapprovinsie 'n tekort van 40% toon. In laasgenoemde provinsie het die somerreënstreek 'n tekort van 47%, die streek met reën in alle seisoene (suidelike kusstreek) 'n tekort van 72%, en die winterreënstreek 'n tekort van 47% getoon. Vir die Unie as geheel geneem was daar 'n surplus van 17%.

Onweerstoestande het bykans dwarsdeur die maand oor die noordelike provinsies en die oostelike binneland van die Kaapprovinsie geheers. Gedurende die eerste helfte van die maand het daar hoofsaaklik los donderbuie uitgesak, maar vanaf die 17e was die reën meer algemeen versprei gewees. Veral vanaf die 18e tot 23e het hewige buie van meer as 1 duim, dikwels oor die noordelike provinsies voorgekom. Die suidwestelike en suidelike kusstreke van Kaapland het net af en toe ligte buie ontvang.

HAEL:

Hoewel haelstorms gedurende die eerste helfte van die maand nogal dikwels voorgekom het, het hulle nie baie skade gedoen nie. Net een geval van aansienlike skade deur hael is van Reitz (O.V.S.) gerapporteer.

DIE JAARLIKSE NEERSLAG:

Die jaarlikse neerslag (1 Januarie tot 31 Desember 1940), aangegee as 'n persentasie van die normaal, word naasteby aangetoon op Kaart IV. Van die kaart sien ons dat die neerslag onder normaal was langs die kusstreke vanaf naasteby Kaap Agulhas tot by Empangeni (Natal), sowel as oor groot streke in die binneland van die Kaapprovinsie, in die Vrystaat en in die noordelike Transvaal. Soos bereken uit gegewens in tabel II het beide die Transvaal en Natal (as eenhede beskou) 'n surplus van 9% getoon, die Kaapprovinsie 'n tekort van 3%, terwyl die neerslag oor die Vrystaat net die normaal behaal het. Die 'somer'- en winterreënstreke van Kaapland het surplusse van onderskeidelik 1% en 4% getoon, en die streek met reën in alle seisoene 'n tekort van 20%. Vir die Unie as geheel geneem, was daar 'n surplus wat 3% van sy normale neerslag bedra.

DIE SEISOEN NEERSLAG:

Die seisoen neerslag vanaf 1 Julie 1940 word naasteby aangedui op Kaart V. Vir hierdie periode het die Vrystaat, Natal en Transvaal (as eenhede beskou) surplusse van onderskeidelik 4%, 1% en 22% getoon, terwyl die Kaapprovinsie 'n tekort van 17% getoon het. Die 'somer'- en 'winter'- en suidelike kusstreke van laasgenoemde provinsie het tekorte van onderskeidelik 10%, 17% en 29% gehad. Vir die Unie as geheel was daar vir hierdie tydperk 'n surplus van 1%.

OBSERVERS' NOTES FOR DECEMBER 1940.

AANTEKENINGE VAN WAARNEMERS VIR DESEMBER 1940.

MODDERPOORT (O.F.S.): Rain fell at fairly frequent intervals throughout the month, but not in sufficient quantities. There were several hot spells, during which the ground became very dry. 2.68 inches of rain fell on 12 days.

John W. Eddolls.

QUEENSTOWN (C.P.): The prevailing wind was from the SE, but the month was extremely hot. Rain fell on 7 days, totalling 1.93 inches.

Sister Mary Joseph

PUNDA MARIA: The greatest amount of rain in 24 hours since records at Punda Maria started fell on the 31st, when 6.07 inches of rain were recorded. 8.64 inches of rain fell during the month on 12 days.

Captain M. Rowland Jones.

NEWCASTLE (N.): This has been an extremely hot month. Thunderstorms were fairly frequent. 3.13 inches of rain were recorded on 8 days.

Sr. M. Scholastica.

RABONIE RANCH (HOOPSTAD): Maximum December rainfall since 1905. Also maximum temperatures for years. 6.11 inches of rain fell on 13 days.

F. Looringh van Beeck.

ERMELO (TVL.): A remarkable feature of this month was the oppressive nature of the heat, though the temperature never exceeded 88°F. Good rains fell, well distributed. 7.24 inches were recorded on 17 days.

R.N. Marillier.

LINDLEY (O.F.S.): General good rains since the middle of this month. Generally cloudy in the afternoons throughout the month. 3.43 inches of rain fell on 10 days.

S.F. Gouws.

LOVEDALE (C.P.): Very little rainfall during month. Ground dry. SE prevailing wind. 1.38 inches of rain fell on 10 days.

C. Pilson

NOTTINGHAM ROAD (STRATHEARN) (Natal): Hot days and bad thunderstorms with hail. Rain fell on 20 days totalling 6.11 inches.

Miss E. Smythe.

PORTERVILLE (C.P.): Die wind het hierdie maand feitlik nooit in die voormiddag gewaai nie, maar gereeld elke dag taamlik sterk vanaf 3 uur n.m. tot omtrent half-ag. 'n Baie droë maand.

W.J. du Toit.

WEPENER (O.F.S.): Consistently hot days with frequent thunderstorms. Although rainfall was 5.24 inches on 12 days, one storm produced 2.67 inches of this. The month was a dry one, as the rainfall was not effective, being in shower form.

W.T.E. Kemm, F.R.M.S.

POTCHEFSTROOM: Hoë temperature, tekort aan vog, en die byna aanhoudende noordwestelike winde het plantegroei baie agteruit gesit gedurende die eerste helft van die maand. Spoedige en gunstige veranderings is egter teweeggebring as gevolg van sagte deurdringende neerslag en etlike harde buie. 'n Uitstaande weerkenmerk gedurende die

afgelope maand was hoë temperature. 4.68 duim reën is aangeteken vir 11 dae.

B.D. Saayman

PIETERMARITZBURG (NATAL): Rain fell on every day with only four exceptions, giving a total rainfall of 7.72 inches.

A.E. Hepple.

WILLOWMORE: Distrik nog steeds baie droog. Laaste paar dae van maand baie warm. Geen reën is gedurende die maand aangeteken nie.

L.J. STRYDOM.

ALASKA (LOUIS TRICHARDT): At 4 a.m. on the 10th terrific thunder and lightning. Worst dry storm ever experienced. One cow killed on farm. 5.36 inches of rain fell on 10 days.

I.G. Rudd.

ATHOLE (NAVORSINGSSTASIE, ERMELO): Taamlik haal op die 10e. Baie reën, warm dae. 9.43 duim reën is aangeteken vir 15 dae.

A.H. du Plessis.

RIETPOORT (VAN RYNSDORP): On the whole the month was comparatively cool, except for the last few days. Very dry. 0.05 inches of rain fell on 1 day.

B. Hudson.

TABORA (O.F.S.): Very wet month with heavy cloudbursts in parts. 5.57 inches of rain fell on 18 days.

A. Kern

LOSKOP DAM (MIDDELBURG, TVL.): Temperatures varied between 102.4°F and 60.5°F Rain fell on 16 days totalling 7.95 inches We had several thunderstorms accompanied by heavy squalls. Moderately warm during days and close at night.

C.A. Blaeser.

ZEERUST: 7.08 duim reën het gedurende hierdie maand geval; Die vorige helfte van die maand was ondraaglik droog en warm.

C.H. Korf.

DOHNE (WEIDINGNAVORSINGSTASIE, STUTTERHEIM): Warm en bedompig. Harde neerslae en sagte motreëns. 3.44 duim reën is aangeteken vir 11 dae.

J.H.K. Krüger.

BADPLAATS (CAROLINA, TVL.): Klimaat taamlik lekker met uitsondering van 'n paar warm dae. Reënval besonder goed. Haal was min, en geen skade is aangerig nie. 8.57 duim reën is aangeteken vir 14 dae.

F.J. Stoltz

HERMITAGE (ADDO, C.P.): This month was very hot and dry and windy. 0.32 inches of rain fell on 3 days.

C.J. Naude.

BELFAST: Die reënval vir hierdie maand was 5.13 duim vir 10 dae. Die eerste twee weke was dit baie droog en warm. Vanaf die 22ste het die goeie reëns begin.

F.W. Slabbert.

PILGRIMS REST (TVL.): Very hot days at beginning of month with little rain. Most of the rain after the 19th. 6.77 inches of rain were recorded on 18 days.

D.C. Diespecker.

UPINGTON, K.P.: 'n Warm, droë maand met min reen of donderstorms. 'n Donderstorm vergesel van sterk wind en haelop die middag van die eerste het skade gedoen deur huise se dakke af te waai en bome te ontwortel. 0.31 duim reen is aangeteken vir 2 dae.

S. Malan

VAALHARTZ (IRRIGATION WORKS): 3.13 inches of rain fell on 11 days and slight precipitation on 4 days. Steady winds from N to NW mainly. Days hot.

P. Gettliffe.

PADDOCK (N.): Very cloudy throughout the month and ground very wet, due to constant drizzle and rain, and no sunshine. Quite a lot of thunder and lighthing. 4.94 inches of rain were recorded on 22 days.

I.F. Harrison.

ARMOEDSVLAKTE (VRYBURG): Dit was gedurende hierdie maand baie warm en gedurende die eerste drie weke baie droog. Temperature het geskommel tussen 101°F en 52.6°F. 2.77 duim reën is aangeteken vir 8 dae.

R.J.J. Briel.

HARTEBEESPOORT PROEFSTASIE (BRITS): Vir twee weke aaneen was die dagtemperature besonder hoog. Die nagtemperature was ook aanhoudend hoog. Vanaf die middel van die maand het dit koeler geword na die sagte reëns begin het. 3.88 duim reën is aangeteken vir 14 dae.

J. Sellschop.

LADYBRAND (O.V.S.): Dae baie warm en nagte benoud. Droogte uiteindelik gebreek teen einde van maand. 3.24 duim reën is aangeteken vir 9 dae.

P.H. de Waal.

LADYSMITH (NATAL): Swaar donder en weerlig gedurende die maand. Ook is heelwat diere getref deur weerlig en gedood. 10.27 duim reën is aangeteken vir 16 dae.

E.C. Viljoen.

MONTAGU: Hot and dry. Generally calm in mornings. Strong to very strong west and south west winds in afternoons and early mornings. 0.08 inches of rain fell on 1 day.

T.D. McSweeney.

MOUNT EDGECOMBE: The mean temperature for this month shows a rise of 4.8°F over last month and is 2.7°F above the December mean. Mainly cloudy. 4.04 inches of rain were recorded on 22 days. Rainfall below the average for December.

The Director, South African Sugar Association.

"PRETORIA" FARM (PIETERSBURG, TVL.): Extremely hot and humid. Average maximum temperature the highest since 1935. 5.21 inches of rain were recorded on 14 days.

R. Bendall.

FAURESMITH (VELDRESERWE): Dit was'n besonder droë en warm maand. Selfs die nagte was warm, en op die 10e is slegs 'n minimum van 70.3°F geregistreer. 1.00 duim reën is aangeteken vir 5 dae.

P.J. Rossouw.

LOUISVALE: Prevalence of high temperatures throughout the month, in spite of continuous southerly winds. 0.16 inches of rain were recorded on 2 days.

Brian T. Mennell

MOCHUDI, B.P.: The atmosphere was particularly dry during the month, owing to intense heat. 5.04 inches of rain were recorded on 16 days.

The Assistant District Commissioner.

KAPPA (REITZ, O.V.S.): Haelstorm op die 17e. Alles is weggeslaan. Haelkorrels so groot soos hoender- en duifeiers. Reënval 6.57 duim vir 11 dae.

N. van Rensburg.

VAN RHYNSDORP, K.P.: Droog en taamlik warm, druiwe en lusernoes baie mooi. Koringoes bevredigend. Geen rapport van siektes of peste ontvang nie. Reënval 0.05 duim vir 1 dag.

Magistraatskantoor.

SAAIFONTEIN (HANOVER, K.P.): Baie warm en dor dae, veld baie droog. Reënval 0.18 duim vir 1 dag.

S.J. Roos.

NORTH CLIFF, CATHCART, C.P.: A storm on the 7th was the worst seen here for years. Trees that have been standing on adjoining farm were snapped up like match wood. Rainfall 2.51 inches on 7 days.

Sinclair Arnold.

ZAND RIVER (WATERBERG): Very little thunder; a good month. The rain was badly needed. Rainfall 7.55 inches on 13 days.

R.M. Armstrong.

KLIPDRIFT (LICHTENBURG): Aan die begin van die maand was dit baie droog. Na die einde het mooi reëns geval. Gesaaides, veld en vee is mooi. Reënval 4.52 duim vir 7 dae.

P.J.W. Schutte.

CUMBERLAND (KRUGERSDORP): Die eerste helfte van Desember was dor en droog. Die lug was vreeslik bedompig, met droë westewinde. Die reëns het meer in buie geval sonder wind. Na die reën het die temperatuur verander en die lug was koel met oos en noordooste winde. Reënval 2.81 duim vir 2 dae.

P.J. van Niekerk.

VAALBANK (EDENBURG): During December terrific heat. Veld dried up rapidly. Rainfall 1.06 inches on 2 days.

D.J. Jacobs.

TABLE I : TEMPERATURE AND CLOUDINESS : DECEMBER 1940.

Results of observations at 0830 S.A. Standard Time.

STATION.	AIR TEMPERATURES IN °F.								NO. DAYS						CLOUDINESS.				
	Mean Max.	Mean Min.	Mean.	Diff. Norm.	Abs. Max.	Date	Abs. Min.	Date	Min. Below: 37	32	27	Max. ab. 90	95	100	Mean	No. of days. 0-1	2-5	6-9	10
CAPE PROVINCE:																			
ALIWAL NORTH	88.1	59.2	73.7	+3.8	98.0	17	51.0	14	0	0	0	11	1	0	3	18	7	6	0
ARMOEDSVLAKTE	92.8	63.5	78.1	+2.8	101.0	17	52.6	15	0	0	0	21	11	2	5	9	8	14	0
BEAUFORT WEST	90.5	59.8	75.1	+2.8	99.3	10	52.0	27	0	0	0	19	5	0	2	23	2	6	0
BRITSTOWN	92.3	63.4	77.9	+3.2	102.0	18	55.0	14	0	0	0	21	11	1	1	24	4	2	0
CALA	80.9	58.2	69.5	+2.0	98.0	17	51.0	4	0	0	0	4	2	0	5	8	6	7	0
C.L'AGULHAS	72.6	61.4	67.0	+0.8	78.0	12	53.0	16	0	0	0	0	0	0	5	3	15	13	0
CARNARVON	(90.8)	(58.5)	(74.7)	(+2.4)	(100.6)	(17)	(48.1)	(14)	(0)	(0)	(0)	(12)	(3)	(1)	(3)	(14)	(2)	(6)	(0)
CERES	84.4	54.8	69.6	-0.5	90.0	18	48.0	5	0	0	0	0	0	0	1	23	3	4	0
CLANWILLIAM	95.1	59.4	77.3	+1.4	106.0	16	55.0	4	0	0	0	24	17	6	2	23	2	5	0
CRADOCK	88.9	57.5	73.2	+2.0	102.0	10	50.0	23	0	0	0	13	5	1	2	26	0	2	3
DEEPWALLS	71.8	55.4	63.6	+0.0	82.5	10	50.3	27	0	0	0	0	0	0	6	6	7	8	10
EAST LONDON	75.2	63.4	69.3	-0.2	82.9	12	56.1	16	0	0	0	0	0	0	5	9	6	9	7
GOODHOUSE	100.1	67.9	84.0	-0.9	111.2	16	59.0	4	0	0	0	29	26	19	2	17	5	4	3
GRAAFF REINET	91.0	59.5	75.3	+1.4	104.0	10	53.0	28	0	0	0	17	8	2	3	16	6	8	1
GRAHAMSTOWN	80.0	57.7	68.9	+3.0	101.2	10	46.0	16	0	0	0	3	2	1	3	17	4	4	3
GRIQUATOWN	90.8	60.0	75.4	+2.7	99.0	17	51.0	1	0	0	0	17	4	0	3	16	8	4	3
G.DRAKENSTEIN	82.6	56.3	69.5	-1.0	94.0	31	48.1	16	0	0	0	3	0	0	3	18	5	8	0
GROOTFONTEIN	87.8	52.5	70.1	+1.2	97.6	17	43.3	16	0	0	0	14	3	0	4	12	10	6	4
HOPETOWN	96.0	65.1	80.5	+4.4	108.0	17	58.0	3	0	0	0	26	20	4	3	11	14	6	0
IDUTYWA	75.1	57.7	66.4	+0.6	101.0	12	50.0	2	0	0	0	1	1	1	6	6	9	5	11
KENHARDT	96.1	63.7	79.9	+0.6	106.0	17	54.0	3	0	0	0	27	19	3	1	24	7	0	0
KIMBERLEY AERO	92.8	65.2	79.0	+3.7	102.0	17	56.4	3	0	0	0	22	12	1	3	15	7	9	0
KINGW'TOWN	81.8	61.3	71.5	+0.9	104.0	10	51.0	16	0	0	0	3	2	1	5	7	6	5	13
KLAVER	85.6	59.0	72.3	-0.4	99.4	16	53.0	23	0	0	0	6	2	0	3	19	5	6	1
KOKSTAD	78.0	55.8	66.9	+1.1	95.2	17	49.0	23	0	0	0	3	1	0	5	12	3	6	10
KURUMAN(SEODIN)	90.1	59.9	75.0	+1.3	99.0	17	50.0	1	0	0	0	12	5	0	3	13	10	7	0
MAFEKING	87.3	64.3	76.1	+2.4	97.3	16	57.0	3	0	0	0	13	3	0	5	3	11	17	0
MATROOSBERG AERO	81.0	51.1	66.1	+0.6	89.5	16	43.6	27	0	0	0	0	0	0	2	16	9	3	1
MOSSELBAY AERO	73.4	59.9	66.7	+1.2	80.3	10	52.7	16	0	0	0	0	0	0	6	7	6	12	6
O'OKIEP	83.6	56.9	70.3	-0.2	95.6	16	47.0	14	0	0	0	3	1	0	2	21	3	6	1
OUDTSHOORN	(89.2)	(56.5)	(72.9)	(+0.7)	(99.0)	(2)	(48.0)	(27)	(0)	(0)	(0)	(9)	(3)	(0)	(2)	(10)	(4)	(3)	(0)
P.ELIZABETH AERO	76.9	61.0	68.9	+1.8	87.4	20	52.3	16	0	0	0	0	0	0	5	11	5	8	1
PORT NOLLOTH	64.8	52.9	58.9	-0.4	69.0	13	49.0	31	0	0	0	0	0	0	6	8	7	4	12
PORT ST.JOHNS	77.7	67.8	72.7	+1.1	84.0	10	62.0	23	0	0	0	0	0	0	7	1	9	8	13
POSTMASBURG	92.1	66.0	79.1	+4.3	100.8	17	54.7	4	0	0	0	21	11	1	3	14	13	3	1
PRIESKA	97.5	68.8	83.1	+3.9	107.5	17	60.2	3	0	0	0	27	21	9	2	23	4	3	1
QUEENSTOWN	83.7	59.1	71.4	+0.6	101.0	17	51.0	23	0	0	0	7	5	1	5	12	4	10	3
RIETPOORT	83.0	56.9	69.9	+0.6	106.2	30	50.0	24	0	0	0	8	1	1	3	16	5	5	2
RIVERSDALE	82.7	58.2	70.5	+1.6	96.0	2	42.3	9	0	0	0	3	1	0	5	11	6	8	2
SOMERSET EAST	85.8	58.4	72.1	+2.4	103.6	10	49.5	27	0	0	0	10	3	2	4	12	4	9	3
SUTHERLAND	81.4	49.1	65.3	+1.4	90.0	17	42.0	1	0	0	0	0	0	0	1	20	5	2	0
UMTATA	(82.7)	(60.9)	(71.8)	(+2.3)	(100.0)	(12)	(55.0)	(23)	(0)	(0)	(0)	(4)	(2)	(0)	(7)	(4)	(4)	(6)	(10)
UPINGTON	95.5	66.2	80.9	+0.3	107.8	17	56.4	3	0	0	0	25	15	9	2	16	10	5	5
VAN WYKSVLEI	94.4	61.5	78.1	+1.8	105.0	17	52.2	14	0	0	0	24	15	4	2	20	7	3	1
WILLOWMORE	(87.5)	(56.5)	(72.1)	(+4.5)	(97.0)	(12)	(46.0)	(2)	(0)	(0)	(0)	(10)	(3)	(0)	(3)	(8)	(8)	(5)	(10)
VICTORIA WEST	90.4	57.7	74.1	+4.0	99.0	17	48.0	21	0	0	0	16	4	0	1	19	11	1	0
WINDFIELD AERO	75.7	58.4	67.1	+0.0	86.9	31	48.1	30	0	0	0	0	0	0	4	15	4	11	1
TRANSVAAL:																			
BARBERTON	83.9	65.7	74.9	+1.4	94.8	9	58.0	1	0	0	0	6	0	0	6	7	3	12	9
BELFAST	74.0	52.3	63.1	+1.4	83.0	9	45.0	4	0	0	0	0	0	0	5	7	6	13	6
ERMELO	78.7	54.6	66.7	+1.5	88.0	9	50.0	2	0	0	0	0	0	0	6	9	5	6	11
GERMISTON AERO	78.7	59.5	69.1	+2.5	87.5	10	53.6	3	0	0	0	0	0	0	6	5	4	15	6
HEIDELBERG	82.5	57.9	70.2	+1.1	93.1	10	51.1	4	0	0	0	6	0	0	6	8	4	11	8

TABLE 1 : TEMPERATURE AND CLOUDINESS : DECEMBER 1940.

Results of observations at 0830 S.A. Standard Time.

STATION.	AIR TEMPERATURES IN ° F.								NO. DAYS						CLOUDINESS.				
	Mean Max.	Mean Min.	Mean.	Diff. Norm.	Abs. Max.	Dat.	Abs. Min.	Dat.	Min.Below: 37	32	27	Max.abov 90	95	100	Mean	No. of Days 0-1	2-5	6-9	10
JOUBERT PARK	79.8	58.4	69.1	+1.2	90.0	10	52.5	3	0	0	0	0	0	0	6	6	9	5	11
KLERKSDORP	87.9	63.2	75.5	+2.3	95.8	9	57.0	4	0	0	0	14	1	0	3	13	9	6	3
KOMATIPOORT	(94.8)	(69.5)	(82.1)	(+1.1)	105.0	(18)	(65.0)	(2)	(0)	(0)	(0)	(17)	(14)	(7)	(6)	(1)	(7)	(14)	(9)
KOPJE ALLEEN	86.5	63.1	74.8	+1.0	99.0	9	56.3	3	0	0	0	11	2	0	6	7	7	8	9
LETABA	94.7	70.8	82.7	-	106.0	9	62.4	4	0	0	0	21	16	12	4	12	5	3	10
LOUIS TRICHARDT	82.9	64.7	73.8	+2.5	94.0	15	60.0	8	0	0	0	3	0	0	7	1	9	8	13
MESSINA	93.9	73.3	83.6	+3.7	103.0	15	66.4	7	0	0	0	22	16	7	6	4	9	9	9
MIDDELBURG	81.4	57.7	69.5	+1.0	92.0	9	50.0	3	0	0	0	1	0	0	7	2	10	11	8
NYLSTROOM	84.7	61.8	73.3	+1.2	96.0	9	56.0	3	0	0	0	7	1	0	6	4	11	7	9
PIETERSBURG AERO	82.4	61.1	71.7	+0.8	92.4	13	54.0	6	0	0	0	3	0	0	6	6	6	12	7
PIET RETIEF	80.5	59.5	70.0	+2.3	91.5	8	51.0	5	0	0	0	2	0	0	6	5	6	9	11
PILGRIMS REST	79.7	59.1	69.4	+1.5	89.7	9	53.5	6	0	0	0	0	0	0	6	6	5	13	7
POTCHEFSTROOM	87.2	61.7	74.5	+2.8	96.0	11	55.0	15	0	0	0	12	2	0	5	11	5	12	3
PRETORIA (MET)	81.1	61.0	71.1	+0.4	91.3	9	55.5	15	0	0	0	2	0	0	7	6	4	10	11
PUNDA MARIA	92.6	70.2	81.4	-	104.0	9	63.0	7	0	0	0	20	13	5	5	8	8	5	10
RUSTENBURG	88.3	63.6	75.9	+1.6	98.0	20	57.0	15	0	0	0	14	6	0	7	1	7	3	12
SEKUKUNILAND	80.9	64.1	72.5	+1.5	91.0	9	57.0	1	0	0	0	1	0	0	5	9	5	6	11
STANDERTON	80.2	57.8	69.0	-0.2	90.0	9	51.0	15	0	0	0	0	0	0	5	3	13	15	6
VAALHARTZ	91.7	61.9	76.8	+3.8	100.6	17	50.2	15	0	0	0	20	6	1	3	10	14	6	6
WAKKERSTROOM	76.7	54.1	65.4	+1.3	87.0	9	45.3	12	0	0	0	0	0	0	6	7	6	8	12
ZEERUST	88.5	64.8	76.7	+2.7	99.0	9	56.0	15	0	0	0	15	6	0	6	5	8	15	8
NATAL:																			
DUNDEE	82.3	59.7	71.0	+1.6	94.2	13	53.0	5	0	0	0	5	0	0	6	6	7	8	9
DURBAN AERO	81.7	69.3	75.5	+2.9	90.0	17	61.8	2	0	0	0	0	0	0	6	6	6	10	9
EMPANGENI	85.7	66.8	77.3	+2.0	99.0	8	62.0	2	0	0	0	9	3	0	6	2	13	6	9
ESHOWE	(83.2)	(64.3)	(73.7)	(+2.4)	(97.5)	(8)	(57.0)	(3)	(0)	(0)	(0)	(5)	(2)	(0)	(5)	(3)	(13)	(7)	(8)
EST COURT	81.4	59.1	70.3	+0.7	94.0	13	52.0	3	0	0	0	6	0	0	6	5	6	14	6
LADYSMITH	84.8	61.3	73.1	-0.4	99.0	12	54.0	3	0	0	0	10	2	0	7	4	6	11	10
MELMOTH	81.4	62.4	71.9	+1.9	96.2	8	53.2	5	0	0	0	7	1	0	7	3	5	13	9
OTOBOTINI	(91.3)	(70.1)	(80.7)	(+2.6)	(103.0)	(23)	(64.0)	(6)	(0)	(0)	(0)	(12)	(8)	(2)	(7)	(0)	(8)	(6)	(16)
P.M.BURG(M.H.)	81.4	63.3	72.3	+1.4	96.0	17	58.0	23	0	0	0	6	1	0	7	3	11	3	14
PORT SHEPSTONE	80.3	69.0	74.7	+2.5	88.0	6	60.5	2	0	0	0	0	0	0	7	1	11	9	10
WEENEN	87.0	62.6	74.8	+0.9	99.0	13	57.0	3	0	0	0	11	8	0	4	10	11	1	9
O.F.S:																			
BETHULIE	90.0	59.8	74.9	+3.2	101.0	17	53.0	1	0	0	0	16	3	1	3	15	8	5	3
BLOEMFTN.AERO	87.3	60.3	73.8	+1.9	97.0	17	54.8	3	0	0	0	13	1	0	3	13	10	8	6
FAURESMITH	89.9	60.6	75.3	+4.1	99.8	17	53.5	3	0	0	0	17	4	0	4	7	13	11	6
KROONSTAD	89.2	61.0	75.1	+3.4	96.0	12	54.0	3	0	0	0	14	3	0	4	10	9	11	5
LADYBRAND	84.2	56.1	70.1	+2.5	92.0	18	50.0	23	0	0	0	4	0	0	6	15	5	4	7
LINDLEY	84.0	58.7	71.3	+2.8	91.0	9	45.0	1	0	0	0	1	0	0	3	5	25	1	5
WEPENER	86.6	59.9	73.3	+3.4	97.0	17	52.8	1	0	0	0	8	2	0	4	13	5	10	8
BASUTOLAND:																			
BUTHA BUTHE	82.0	65.4	68.7	+1.2	90.0	18	50.0	3	0	0	0	0	0	0	3	15	8	5	3
MASERU	85.2	59.6	72.4	+3.5	94.0	17	53.0	3	0	0	0	5	0	0	4	10	9	11	6
QACHASNEK	76.8	53.5	65.1	+3.0	88.0	17	47.0	2	0	0	0	0	0	0	4	11	7	4	6
QUTHING	84.2	56.5	70.3	+3.2	93.0	17	50.0	4	0	0	0	2	0	0	4	11	9	5	5
BECHUANALAND:																			
DINGATLONG	92.3	-	-	-	105.0	15	-	-	-	-	-	17	14	5	5	8	7	3	13
GABERONES	90.5	66.7	78.6	+2.9	102.0	15	59.0	16	0	0	0	18	15	2	6	5	10	6	10
MAHALAPYE	89.8	67.5	78.7	+1.6	101.0	15	59.0	3	0	0	0	17	12	2	6	8	6	5	12
TSABONG	96.5	66.9	81.7	-	105.0	9	57.0	4	0	0	0	28	19	7	4	8	11	11	11
SWAZILAND:																			
MBABANE	79.1	60.2	69.7	+2.3	92.0	8	53.0	2	0	0	0	1	0	0	7	9	0	8	14
STEGI	83.4	53.4	73.4	+2.5	94.0	26	56.0	2	0	0	0	4	0	0	4	14	7	4	6

TABEL II : PRECIPITATION IN INCHES : DECEMBER 1940.

STATION.	DEC. 1940.	NORM.	DIFF.	%	MAX. AMNT. IN 24 H.	DATE	NO. OF DAYS. 0.01" or more.	0.04" or more.	TH.	H.	S.	CUMULATIVE RAINFALL. From 1/1/40 % of Norm.	From 1/7/40 % of Norm.
CAPE PROVINCE:													
Summer Rainfall Area:													
ABERDEEN ROAD	0.00	1.15	-1.15	0	0.00	0	0	0	0	0	0	77	67
ALIWAL NORTH	2.09	2.26	-0.17	93	0.95	23	10	9	3	0	0	121	105
ARMOEDSVLAKTE	2.77	2.01	+0.76	138	1.11	20	8	7	9	0	0	104	70
BEAUFORT WEST	0.00	0.94	-0.94	0	0.00	0	0	0	0	0	0	95	95
BRANDVLEI	0.00	0.19	-0.19	0	0.00	0	0	0	0	0	0	75	108
BRITSTOWN	0.44	0.79	-0.35	56	0.36	12	2	2	0	0	0	82	108
CALA	2.88	3.18	-0.30	91	1.17	3	7	7	2	1	0	110	92
CARNARVON	0.01	0.49	-0.48	2	0.01	20	1	0	0	0	0	120	119
CATHCART	1.29	3.41	-2.12	38	0.76	3	4	3	1	1	0	78	71
CRADOCK	0.26	1.22	-0.96	21	0.16	3	3	2	0	0	0	151	90
DORDRECHT	1.34	3.15	-1.81	43	0.53	21	8	8	..	0	0	106	77
FRASERBURG	0.00	0.52	-0.52	0	0.00	0	0	0	0	0	0	94	95
GOODHOUSE	0.01	0.13	-0.12	8	0.01	19	1	0	0	0	0	142	195
GRAAFF REINET	0.16	1.41	-1.25	11	0.08	12	3	2	3	0	0	127	99
GRAHAMSTOWN	0.77	2.15	-1.38	36	0.25	30	9	6	0	0	0	107	88
GRIQUATOWN	1.16	1.22	-0.06	95	0.70	2	4	4	2	0	0	..	..
GROOTFONTEIN	0.12	1.58	-1.46	8	0.06	12	2	2	7	0	0	106	68
HOPETOWN	0.20	1.13	-0.93	18	0.20	3	1	1	0	0	0	82	87
IDUTYWA	2.13	3.05	-0.92	70	0.60	21	11	7	4	0	0	115	84
KENHARDT	0.10	0.41	-0.31	24	0.10	22	1	1	0	0	0	114	211
KIMBERLEY	3.08	1.68	+1.40	183	1.31	4	6	6	8	1	0	115	131
KINGWILLIAMSTOWN	0.93	2.71	-1.78	34	0.23	22	6	6	..	0	0	87	66
KOKSTAD	5.16	4.61	+0.55	112	1.03	17	19	15	16	2	0	125	172
KURUMAN	3.67	1.69	+1.98	217	1.70	21	9	8	6	0	0	125	136
MACLEAR	4.26	5.10	-0.85	83	1.20	26	7	7	..	0	0	75	69
MAFEKING	6.98	3.45	+3.53	202	1.86	20	10	8	13	0	0	151	131
MATJESFONTEIN	0.00	0.35	-0.35	0	0.00	0	0	0	0	0	0	..	..
NELSPOORT	0.00	0.87	-0.87	0	0.00	0	0	0	0	0	0	..	105
EAST LONDON	3.43	2.98	+0.45	115	0.87	7	14	11	4	0	0	91	84
PELLA	0.00	0.23	-0.23	0	0.00	0	0	0	0	0	0	228	243
PORT ST. JOHNS	2.57	5.42	-2.85	47	0.67	13	16	14	5	0	0	71	72
POSTMASBURG	1.12	1.23	-0.11	91	0.33	12	6	4	4	0	0	102	77
PRIESKA	1.46	0.76	+0.70	192	0.81	12	3	3	2	0	0	98	164
PRINCE ALBERT RD.	0.00	0.37	0.37	0	0.00	0	0	0	0	0	0	103	52
QUEENSTOWN	1.93	2.80	-0.87	69	0.79	3	7	6	7	1	0	110	81
RIETBRON	0.00	0.73	-0.73	0	0.00	0	0	0	0	0	0	104	101
RIETFONTEIN	0.00	0.36	-0.36	0	0.00	0	0	0	0	0	0	125	186
SOMERSET EAST	0.83	2.80	-1.97	30	0.39	7	7	4	4	0	0	100	100
STEYNSBURG	0.43	1.58	-1.15	27	0.43	3	1	1	0	0	0	106	117
STEYTLERVILLE	0.00	1.01	-1.01	0	0.00	0	0	0	0	0	0	79	76
UMTATA	2.43	3.31	-0.88	73	0.87	12	12	8	8	0	0	82	73
UPINGTON	0.31	0.45	-0.14	69	0.30	2	2	1	3	1	0	122	209
VAALBOSCHHOEK	2.01	2.34	-0.33	86	0.89	2	9	6	9	1	0	132	109
VAN WYKSVLEI	0.11	0.39	-0.28	28	0.11	20	1	1	1	0	0	121	143
VICTORIA WEST	0.07	0.90	-0.83	8	0.05	13	2	1	2	0	0	95	93
Winter Rainfall Area:													
CALEDON	0.11	1.11	-1.00	10	0.09	12	2	1	0	0	0	89	64
CALVINIA	0.08	0.24	-0.16	33	0.08	12	1	1	0	0	0	129	89
CERES	1.20	1.04	+0.16	115	0.60	13	2	2	0	0	0	90	64
CLANWILLIAM	0.00	0.13	-0.13	0	0.00	0	0	0	0	0	0	74	53
DARLING	0.31	0.40	-0.09	78	0.05	10	4	3	0	0	0	106	77

TABEL II : PRECIPITATION IN INCHES : DECEMBER 1940

STATION.	DEC. 1940.	NORM.	DIFF.	%	MAX. AMNT. In 24 H.	DATE	NO. OF DAYS, 0.01" or more	0.04" or more	TH.	H.	S.	CUMULATIVE RAINFALL. From 1/1/40 % of Norm.	From 1/7/40 % of Norm.
									W	A	✱		
CARIES	0.07	0.11	-0.04	64	0.07	13	1	1	0	0	0	128	156
G.DRAKENSTEIN	0.43	0.99	-0.56	43	0.30	12	3	3	0	0	0	100	78
CAPE L'AGULHAS	0.49	0.78	-0.29	63	0.12	19	8	6	0	0	0	150	110
KLAVER	0.37	0.14	+0.23	264	0.37	13	1	1	0	0	0	118	159
MATROOSBERG	0.00	0.21	-0.21	0	0.00	0	0	0	0	0	0	105	97
OTOKIEP	0.10	0.18	-0.08	67	0.10	13	1	1	0	0	0	121	158
PIQUETBERG	0.00	0.63	-0.63	0	0.00	0	0	0	0	0	0	83	60
PORT NOLLOTH	0.02	0.07	-0.05	29	0.02	7	1	0	0	0	0	136	216
RIETPOORT	0.05	0.14	-0.09	36	0.05	12	1	1	0	0	0	93	113
SUTHERLAND	0.00	0.34	-0.34	0	0.00	0	0	0	0	0	0	-	101
WORCESTER	0.18	0.36	-0.18	50	0.18	13	1	1	0	0	0	66	47
WINGFIELD	0.52	0.55	-0.03	95	0.22	10	4	3	0	0	0	146	102
All Seasons Rainfall Area:													
GEORGE	1.28	3.80	-2.52	34	0.32	19	10	8	0	0	0	90	64
HUMANSDORP	0.58	2.18	-1.60	27	0.44	18	2	2	0	0	0	79	61
DEEPWALLS	2.61	4.62	-2.01	57	0.60	25	10	10	0	0	0	92	74
LADISMITH	0.00	1.16	-1.16	0	0.00	0	0	0	0	0	0	108	90
MOSSEL BAY	0.33	1.87	-1.54	18	0.12	12	6	3	0	0	0	98	60
OUDTSHOORN	0.00	0.87	-0.87	0	0.00	0	0	0	0	0	0	106	85
PORT ELIZABETH	0.43	1.71	-1.28	25	0.14	28	6	3	?	0	0	82	75
RIVERSDALE	0.25	1.57	-1.32	16	0.20	3	3	1	0	0	0	88	58
SWELLENDAM	0.96	2.91	-1.96	33	0.26	21	5	4	0	0	0	103	92
SYDNEYS HOPE	1.05	2.28	-1.23	46	0.33	13	8	7	2	0	0	87	76
TWEERIVIEREN	0.00	1.92	-1.92	0	0.00	0	0	0	0	0	0	63	43
UNIONDALE	0.07	0.77	-0.70	9	0.05	2	2	1	1	0	0	110	82
WILLOWMORE	0.00	0.89	-0.89	0	0.00	0	0	0	0	0	0	-	79
ORANGE FREE STATE:													
BETHULIE	1.85	1.87	-0.02	99	0.53	22	10	6	9	0	0	100	107
BLOEMFONTEIN	2.22	2.26	-0.04	98	0.67	2	10	9	-	0	0	106	136
BOSHOF	1.34	2.08	-0.74	64	0.77	3	8	6	-	-	0	88	71
FAURESMITH	1.00	1.59	-0.59	63	0.66	2	5	3	8	0	0	118	105
HEILBRON	5.46	4.19	+1.27	130	1.90	19	9	9	-	-	0	101	111
KROONSTAD	4.32	3.73	+0.59	116	2.30	2	10	10	7	1	0	83	91
LADYBRAND	3.24	3.55	-0.31	91	1.04	28	9	9	5	0	0	92	106
LINDLEY	3.43	3.86	-0.43	89	0.86	23	10	9	-	-	0	102	107
PETRUSBURG	2.42	1.59	+0.83	152	1.60	2	6	6	3	0	0	119	112
REITZ	5.74	4.67	+1.07	123	2.23	19	12	9	-	-	0	96	99
VREDE	6.37	4.25	+2.12	150	1.35	19	8	8	-	-	0	111	111
WEPENER	3.24	2.89	+0.35	112	2.67	21	12	9	12	0	0	101	114
WINBURG	2.26	2.83	-0.57	80	0.75	20	8	8	6	0	0	89	79
TRANSVAAL:													
BARBERTON	6.39	4.68	+1.71	137	3.35	22	14	10	12	0	0	128	131
BELFAST	5.13	5.12	+0.01	100	1.84	28	10	10	7	0	0	116	118
BETHAL	10.50	4.82	+5.68	218	4.62	26	15	13	-	-	0	128	163
BLOEMHOF	2.90	2.31	+0.59	125	0.70	13	6	6	-	-	0	96	83
ELIM HOSPITAL	2.57	4.61	-2.04	56	0.83	27	8	8	4	0	0	-	-
ERMELO	7.24	4.83	+2.41	150	2.49	27	17	14	16	0	0	118	119
GERMISTON	4.79	4.36	+0.43	110	1.29	20	18	15	18	0	0	104	118
GROENRIVIER	5.63	3.37	+2.26	167	2.40	22	9	9	-	-	0	113	119
HEIDELBERG	7.64	4.15	+3.49	184	2.09	20	20	16	18	0	0	117	131
JOUBERT PARK	9.00	5.76	+3.24	156	1.95	9	20	18	-	0	0	105	126
KLEINKSDORP	4.64	4.01	+0.63	116	0.81	21	15	13	4	0	0	71	72
KOMATIPOORT	2.34	3.92	-1.58	60	0.68	30	9	8	-	-	0	-	116
KOPJE ALLEEN	8.03	3.70	+4.33	217	2.88	22	17	17	17	0	0	122	142
LETABA	2.85	3.35	-0.50	85	1.40	27	8	7	-	-	0	89	85
LICHTENBURG	5.37	3.61	+1.76	148	1.92	20	9	9	?	0	0	115	103
LOUIS TRICHARDT	5.87	4.36	+1.21	128	2.70	?	13	11	7	0	0	103	105
MAASSTROOM	3.62	3.08	+0.56	118	1.15	2	6	6	-	-	0	96	106

TABEL II : PRECIPITATION IN INCHES : DECEMBER 1940.

STATION.	DEC. 1940	NORM.	DIFF.	%	MAX. AMT. IN 24 H.	DATE	NO. OF DAYS. 0.01" or more.	0.04" or more.	TH.	H.	S.	CUMULATIVE RAINFALL. From 1/1/40 % of Norm.	From 1/7/40 % of Norm.
MESSINA	4.20	2.85	+1.35	147	2.61	31	9	6	-	-	⊜	96	126
MIDDELBURG	3.88	4.88	-1.00	80	1.15	29	12	10	12	0	0	104	99
NYLSTROOM	11.61	3.73	+7.88	312	3.78	27	19	18	6	0	0	144	191
PIETERSBURG	3.09	3.54	-0.45	87	0.72	22	11	7	8	0	0	116	118
PIET RETIEF	9.90	6.52	+3.38	152	1.67	10	15	15	8	0	0	109	118
PILGRIMS REST	6.77	5.21	+1.56	130	1.11	22	18	14	9	0	0	100	71
POTCHEFSTROOM	4.68	4.01	+0.67	117	2.26	23	11	10	-	0	0	96	108
POTGIETERSRUST	7.59	3.88	+3.71	196	1.71	23	13	13	-	-	0	120	134
PRETORIA	8.95	4.61	+4.34	194	1.82	19	20	17	15	2	0	101	132
PUNDA MARIA	8.64	4.85	+3.79	178	6.07	31	12	10	14	0	0	106	140
ROOIBERG	7.71	3.59	+4.12	215	1.83	28	13	13	-	-	0	134	131
RUSTENBURG	11.61	3.86	+7.75	301	4.34	23	14	10	5	0	0	118	164
SEKUKUNILAND	2.41	3.51	-1.10	69	0.60	9	13	11	-	-	0	131	183
STANDERTON	6.29	4.49	+1.80	140	1.85	20	15	13	-	0	0	96	113
VAALHARTZ	3.13	1.61	+1.52	195	1.18	22	11	10	10	0	0	125	127
WAKKERSTROOM	8.44	4.83	+3.61	175	1.61	1	15	12	12	1	0	115	116
WOODBUSH	13.37	10.18	+3.19	131	1.95	22	18	18	7	1	0	98	118
ZEERUST	7.08	3.24	+3.84	218	1.59	21	13	10	7	0	0	136	179
NATAL:													
DUNDEE	8.02	5.69	+2.33	141	1.33	21	20	18	14	3	0	124	136
DURBAN	3.15	4.58	-1.43	69	1.02	14	16	10	6	0	0	90	85
EMPANGENI	3.70	4.26	-0.56	87	1.13	21	12	11	-	0	0	137	109
ESHOWE	10.59	7.71	+2.88	137	3.87	23	11	11	-	0	0	91	99
ESTCOURT	7.13	4.68	+2.45	152	2.32	21	18	17	23	2	0	-	119
HIMEVILLE	9.01	5.63	+3.38	160	1.39	20	17	17	-	2	0	108	107
KRANSKOP	11.47	4.91	+6.56	234	2.83	7	19	16	4	0	0	146	137
LADYSMITH	10.27	5.08	+5.19	202	1.92	2	16	16	12	2	0	97	118
LANDSDOWNE	4.18	4.49	+0.31	93	2.00	19	8	8	3	0	0	119	106
MELMOTH	11.80	4.58	+7.02	254	4.50	20	14	14	8	0	0	130	141
OTOBOTINI	2.30	3.65	-1.35	63	0.96	2	9	9	7	0	0	98	100
PIETERM'BURG	7.72	5.63	+2.09	137	1.25	21	27	26	12	0	0	104	102
PORT SHEPSTONE	2.64	4.93	-2.29	54	0.61	13	17	13	8	0	0	69	89
STANGER	6.33	5.58	+0.75	113	1.15	13	17	12	4	0	0	-	-
UMZIMKULU	4.86	3.76	+1.10	129	1.05	13	17	16	4	0	0	112	105
WEENEN	5.94	4.15	+1.79	143	1.25	20	12	12	11	0	0	110	107
BECHUANALAND:													
DIKGATLONG	7.85	3.12	+4.73	252	1.80	29	15	12	-	-	0	142	161
GABERONES	6.73	3.52	+3.21	191	1.91	20	12	11	11	0	0	115	151
MAHALAPYE	9.78	3.01	+6.77	325	1.84	28	13	13	-	-	0	134	174
TSABONG	1.51	1.10	+0.41	137	0.71	2	4	4	1	0	0	112	83
BASUTOLAND:													
BUTHA BUTHE	5.48	4.58	+0.90	120	1.20	22	13	12	-	-	0	92	90
MAFETENG	5.08	3.30	+1.78	154	2.87	21	8	8	-	-	0	95	112
MASERU	2.47	3.43	-0.96	72	0.70	28	9	9	-	-	0	86	92
MOHALESHOEK	6.13	3.32	+2.81	185	1.80	21	12	11	-	-	0	106	125
MOKHOTLONG	4.19	4.15	+0.04	101	0.84	23	17	14	-	-	0	89	72
QACHASNEK	5.21	5.66	-0.45	92	1.23	22	19	16	10	2	0	94	96
QUTHING	6.02	3.96	+2.06	152	1.31	21	18	16	9	1	0	113	119
SWAZILAND:													
HLATIKULU	6.39	7.68	-1.29	83	1.10	22	17	15	6	0	0	91	89
MBABANE	5.11	8.54	-3.43	60	1.00	22	19	18	-	0	0	96	90
STEGI	2.37	4.88	-2.51	49	0.50	27	8	8	-	-	0	125	86

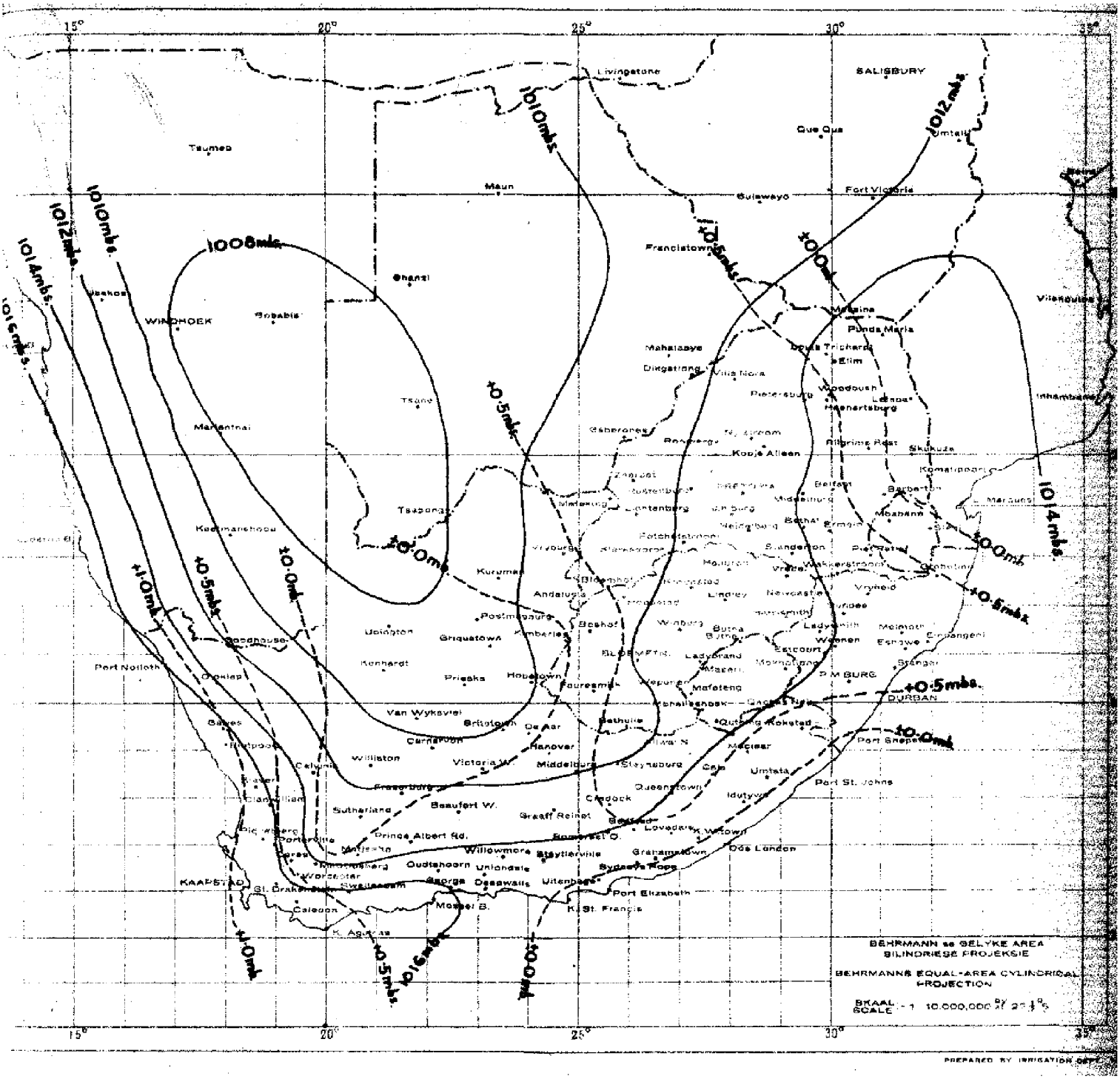


CHART I KAART I

December 1940: Mean Atmospheric Pressure at 8·30 a.m. (at M.S.L.). The broken lines represent the approximate departure from the normal.

Desember 1940: Gemiddelde Lugdruk om 8·30 v.m. (by Seespieël). Die gebroke lyne dui naasteby die afwyking van die normaal aan.

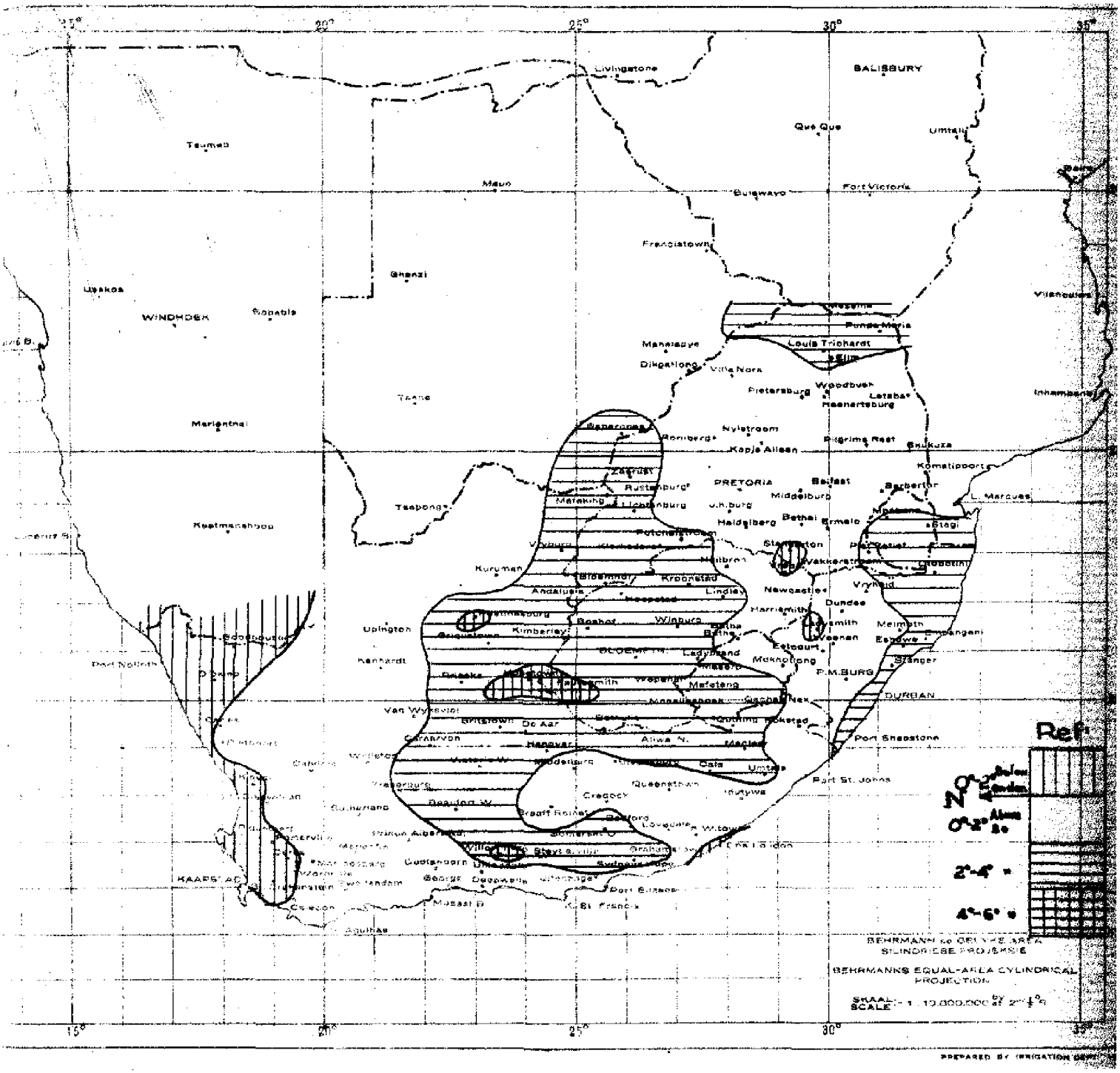


CHART II KAART II

December 1940: Mean Temperature : departure from the normal in °F.

Desember 1940: Gemiddelde Temperatuur : afwyking van die normaal in °F.

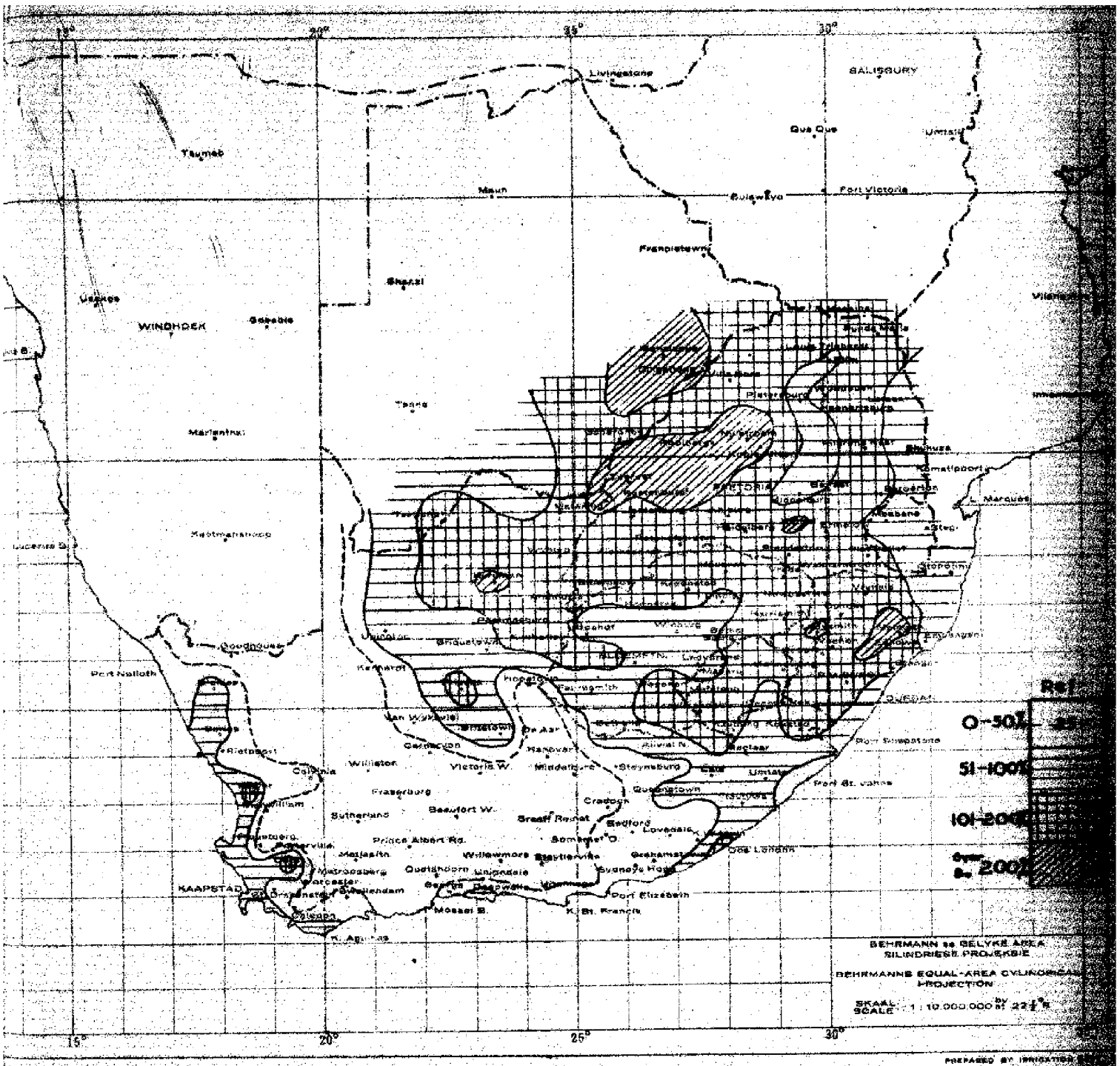


CHART III KAART III

December 1940: Precipitation shown as percentage of the normal.

Desember 1940: Neerslag aangedui as persentasie van die normaal

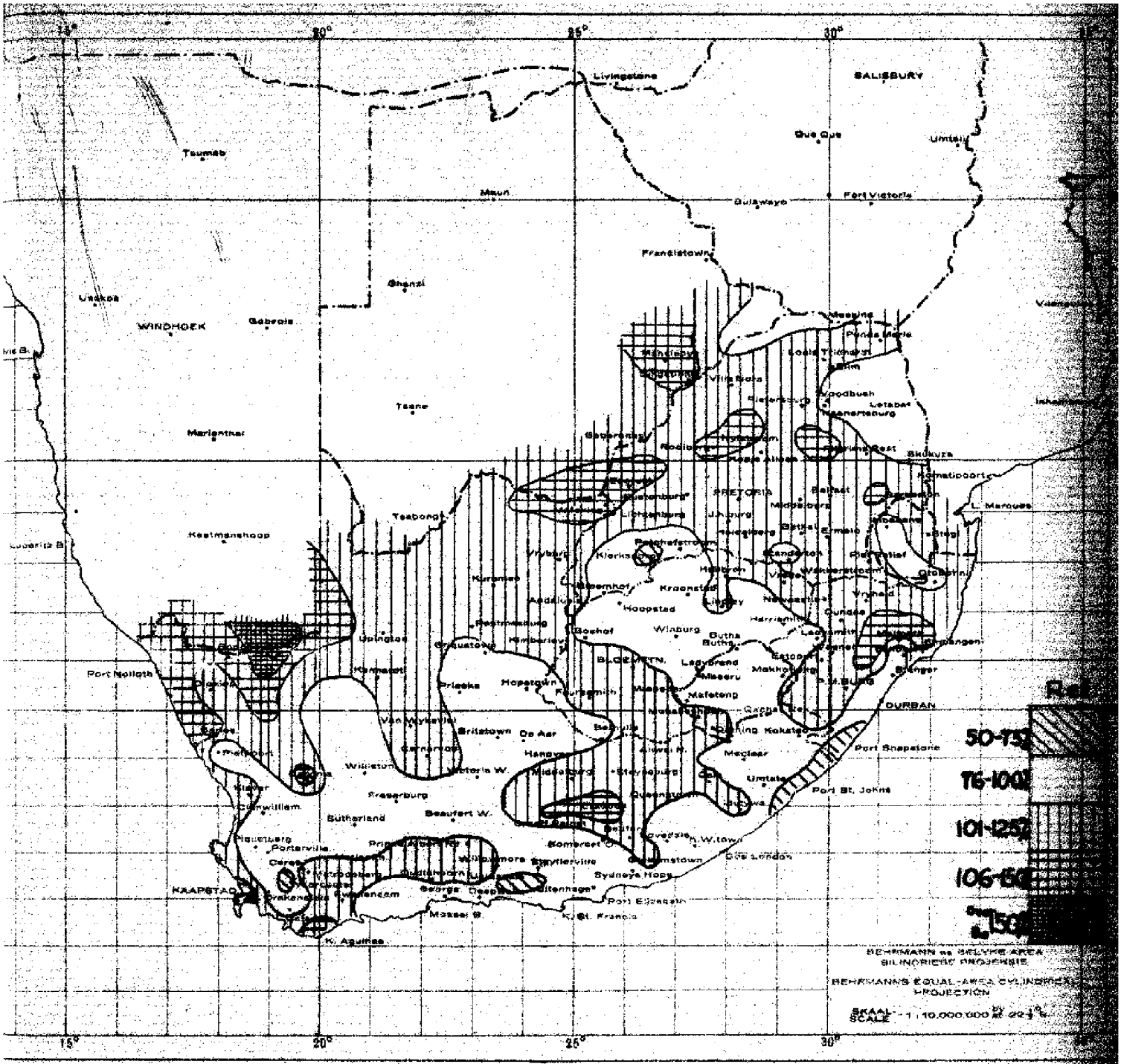


CHART IV KAART IV

Annual Precipitation for 1940 shown as a percentage of the normal.

Jaarlikse Neerslag vir 1940 aangedui as n persentasie van die normaal.

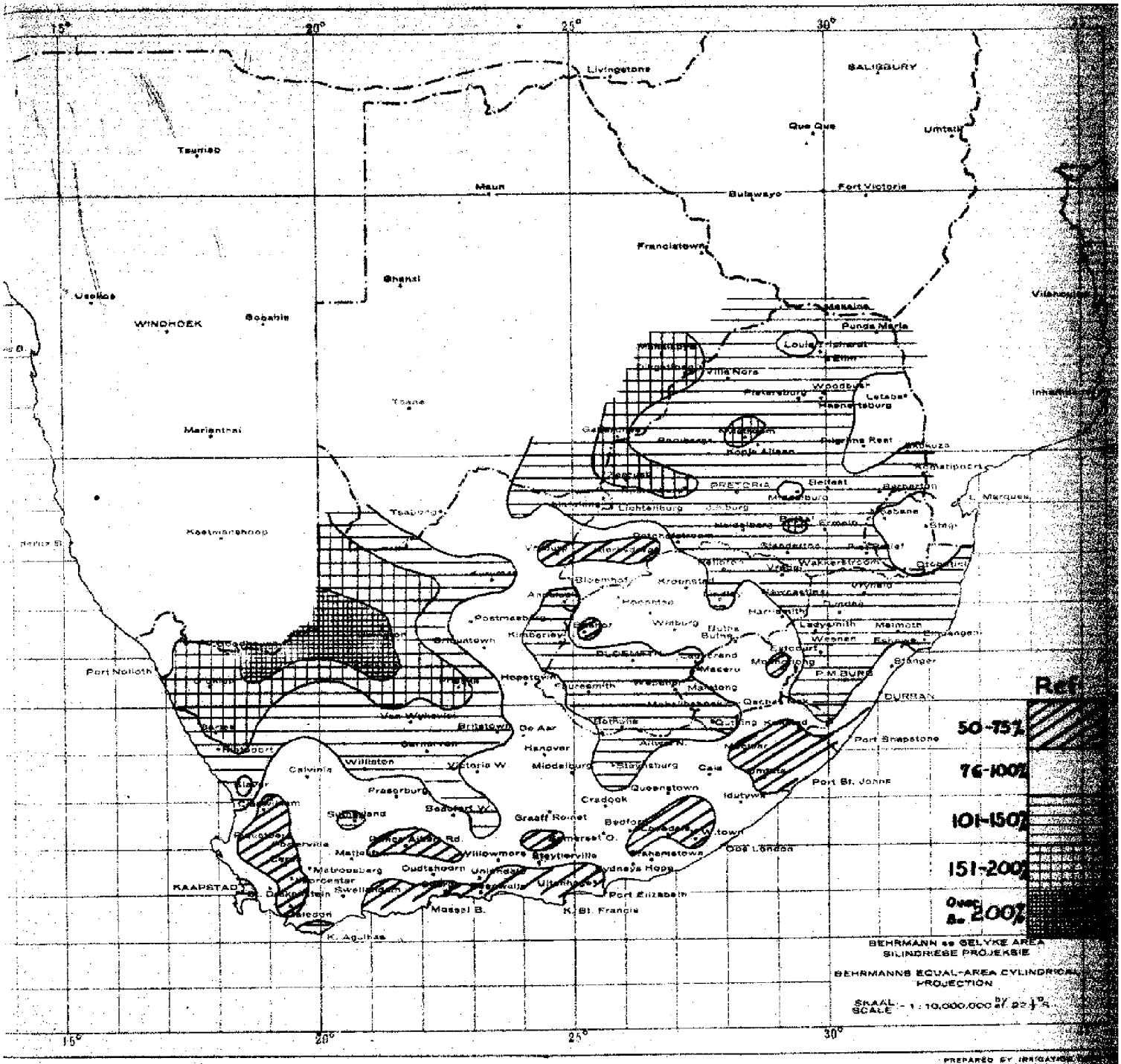


CHART V KAART V

Seasonal Precipitation: 1st July 1940 to 31st December 1940, shown as percentage of the normal.

Seisoen Neerslag: 1e Julie 1940 tot 31e Desember 1940, aangedui as persentasie van die norm.

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