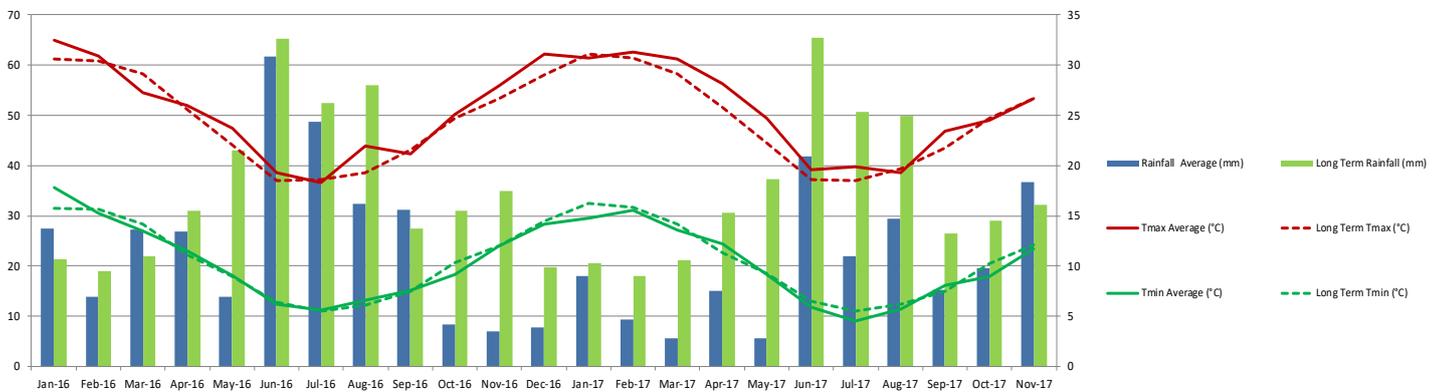


Western Cape monthly rain & temperatures 2016/17 expressed as overall average of 30 weather stations



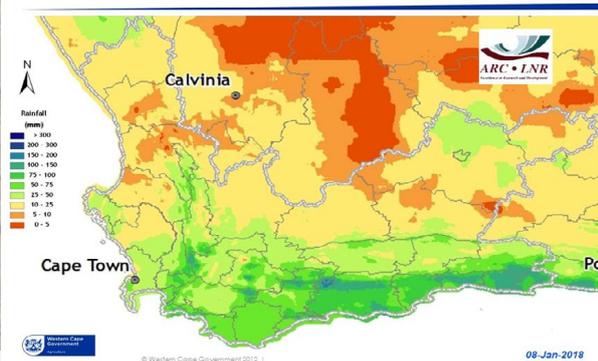
November 2017 Climate Summary

Rainfall during November (slide1) occurred over most of the province, though more to even higher intensity in the southern coastal areas. When viewing rainfall against the historical long term means (slide 2), then normal to above normal rainfall occurred over most of the province (green and blue shading).

Slide 3 presents data from specific weather stations, containing total monthly rainfall, mean monthly maximum (Tmax) and minimum temperatures (Tmin) for November 2017, including corresponding historical long

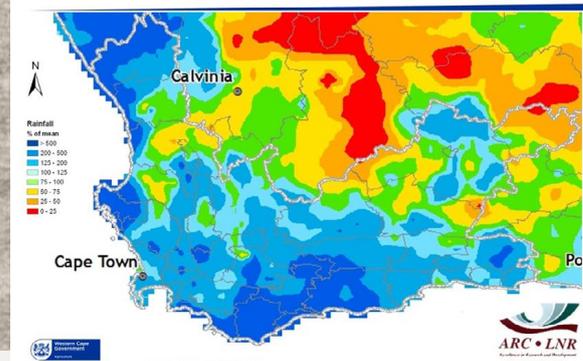
term means (LTA). Rainfall for November on average was reasonably normal, i.e. the overall mean of all these weather stations was 36mm (long term mean 32mm), 17mm more than October, and 30mm more than November 2016. Half of these weather stations each recorded a total monthly rainfall ranging between 3 (Vredendal) to 29mm (eg. Citrusdal). Conversely, the weather station near Heidelberg recorded the highest monthly rainfall (110mm), which was well above average, followed by Mossel Bay (88mm), George (79mm) and Swellendam (70mm).

Slide 1: Total Rainfall (mm) in the Western Cape for November 2017



Slide 1

Slide 2: Rainfall (% of LTM) in the Western Cape for November 2017



Slide 2

As for temperatures (slide 3): November experienced normal monthly Tmax's (Celsius), resulting in an overall average of 26.7 degrees, ranging from 21.1 (George, LTA 21.5) to 31.6 degrees (Citrusdal, LTA 31.8). Monthly Tmax anomalies ranged between -1 (Ashton) to 1.3 degrees (Oudtshoorn).

Monthly early morning temperatures (Tmin) for November obtained from the various weather stations presented an overall average of 11.7 degrees (LTA 12.1), with Tmin's at the various weather stations ranging between between 8.9 (Murraysburg) to 15.0 degrees (Klawer), both less than their LTA's. As in the case of Tmax, Monthly Tmin anomalies ranged between -1 to 0.8 degrees, clearly indicating no extreme outliers.

November	Altitude (m)	WS Active	Rainfall (mm)		Temperature (°C)		Temperature (°C)	
			Monthly total	Monthly LT	Mean daily max.	Mean daily min.	2016	LT
Locality	Above Sea Level	Years	2016	LT	2016	LT	2016	LT
Ashton (Prospect)	156	4	55.1	20.1	26.1	27.1	11.6	12.5
Aurora (Sand)	103	10	6.2	17.5	27.7	27.7	10.9	11.2
Barrydale (Die Vlokte)	716	8	78	55.5	23.6	23.7	9.5	9.3
Bredasdorp (Prinskraal)	12	9	55.9	53.9	22.5	22.7	12.4	12.3
Caledon (Dunghys Park)	189	9	40.6	53.6	25	24.5	11.7	12.7
Caledon (Protem)	280	6	63.5	40.6	25.1	25	11.9	12.3
Citrusdal	161	14	28.9	14.3	31.6	31.8	11.7	12.3
Clanwilliam (Middelton)	407	10	11.6	24.8	27.4	26.9	10.4	10.6
De Rust (Rooivier)	581	8	20.3	28.8	28.1	28.3	11.4	11.7
Elandsbaai (Sandberg)	102	14	9.2	11.8	28.1	28	9.8	9.8
George (Oulieniqu)	204	9	78.9	107.6	21.1	21.5	11.5	11.9
Grabouw (Smarag)	213	10	46.2	54.8	23.4	23.2	11.6	11.9
Heidelberg (Voorstekop)	246	12	110.7	49.7	24.5	24.6	12.3	13
Hopefield (Koperfontein)	61	10	17	21	27.4	27.5	12.2	11.8
Klawer	79	8	9.1	21.5	30.7	30.7	15	14.2
Koue Bokkeveld (De Keur)	947	14	17	33.4	24.1	23.1	9	9.2
Ladismith (Buffelskloof)	468	8	55.7	26.7	27	27.1	10.6	10.5
Lutzville (Lower)	18	12	12.7	13.1	27.5	27.6	11.8	11.8
Malmesbury (Langgewens)	181	10	21	28.1	26.9	26.6	12.6	12.8
Marnewille (Kropkraal)	840	8	4.1	8.6	30.2	30.8	13.4	14.1
Mosselbaai (Patsysfontein)	203	10	88.4	87.2	22.4	22.6	11.8	12.4
Murraysburg	1193	11	5	13.4	26.7	27.5	8.9	9.3
Oudtshoorn RF	302	14	27.4	15.1	30	28.7	10.9	11.4
Paarl (Eureka)	131	6	56.6	32.7	26.5	25.9	13.8	14.5
Pieterberg (Pools)	161	8	13	12.9	29.6	30	13.2	12.5
Porterville	126	9	30	27	28.6	28.3	12.6	13.1
Prince Albert (Swartbult)	460	8	6.9	11.9	30.7	30.9	14.9	15.1
Rawsonville (Du Toitskloof)	259	16	68.6	34.4	27.3	27.5	11.8	12
Rietbron	826	11	11.8	15.1	27.5	28.2	11.5	12.2
Riversdal (Uitkyk)	156	10	82	48.5	24.3	24.2	11.7	12.3
Riviersandarend (Rietpoel)	323	10	38.1	47.4	23.5	23.3	10.4	11.2
Robertson RF	156	14	39.6	25.5	26.2	27.1	11.7	12.6
Sandveld (Riviera)	90	14	15.5	18.6	30.8	29.9	11.1	11.3
Stellenbosch (Elsenburg CIAT)	227	11	37.9	50.5	26.4	25.2	12.1	12.8
Stellenbosch (Pleurbaix)	125	26	31.2	34.1	26.5	26.1	11.9	12.7
Swellendam (Naspy)	104	10	70.4	37.8	24.5	24.8	12.2	12.7
Vredendal (Vliegveld)	43	12	3.3	11.1	28.2	27.9	11.5	11.9
Worcester (veidresene)	361	17	27.7	21.7	27.1	27	13.1	13.3

Overall water level of the provincial state dams remained poor at 34% (27th November), compared to last year's 54% (slide 4). It can clearly be seen that the dams situated in the southern coastal areas benefited from the good rains, while in the western side those dams actually decreased in water content.

Rains in the southern coastal areas during the past few months have resulted in some restoration in growing conditions (slide 5). The Swartland and Ruens wheat production areas clearly show crops maturing and becoming ready for harvesting, or even parts where crops have already been harvested. However large parts still indicate persistent drought conditions.

Predictions indicate that La Nina will at least be present during the February to April 2018, implying increased probability for above normal rainfall in the summer rainfall areas. According to the SAWS forecast of 26th November for the period Dec-Jan-Feb, the Western Cape is to experience above normal temperatures.

Slide 4: State dam levels in Western Cape during November 2017

Dam	Nearest Town	Full capacity (million m³)	27 th November		30 th October	
			2017	(2016)	2017	(2016)
Theewaterskloof	Villiersdorp	480	23	(46)	27	(51)
Brandvlei	Worcester	284	30	(50)	33	(55)
Voelvlei	Tulbagh	158	27	(63)	29	(70)
Berg River	Franschhoek	127	65	(67)	68	(72)
Clanwilliam	Clanwilliam	121	33	(87)	39	(98)
Floriskraal	Laingsburg	50	2	(11)	3	(13)
Gamka	Beaufort West	2	0	(28)	0	(32)
Kammanassie	Oudtshoorn	34	5	(13)	5	(29)
Stompdrift	De Rust	49	3	(13)	4	(23)
Wolwedans	Groot Brak	25	86	(99)	82	(96)
Garden Route	George	10	76	(75)	63	(73)
Korentte-Vette	Riversdale	8	63	(91)	51	(96)
Duivenhoks	Heidelberg	6	99	(99)	91	(98)
Totals	Winter Rainfall	1 581	36	(58)	39	(64)
	Other Rainfall	273	22	(32)	20	(38)
	Western Cape	1 854	34	(54)	36	(60)

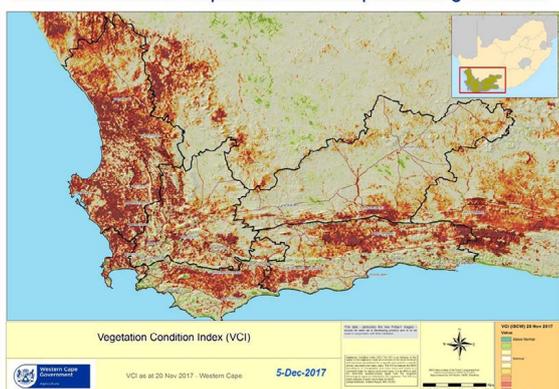
Source Department of Water & Sanitation (DWS) 5-Dec-2017



Locality of slide www.elsenburg.com/gant-took/gant-outlook

Slide 4

Slide 5: NDVI difference map for November compared to long-term mean



Slide 5

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