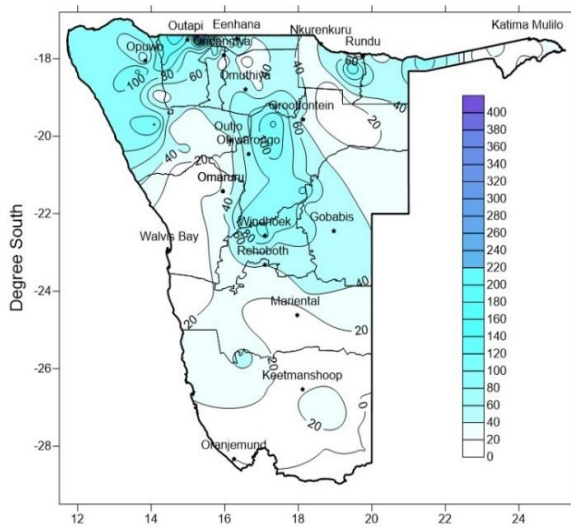




**Rainfall Performance**

Rainfall performance over Namibia has yet again been minimal with the bulk of the country receiving below-normal rainfall for the month of February. This can mostly be as a result of the present El Nino conditions over the central and eastern Pacific Ocean.

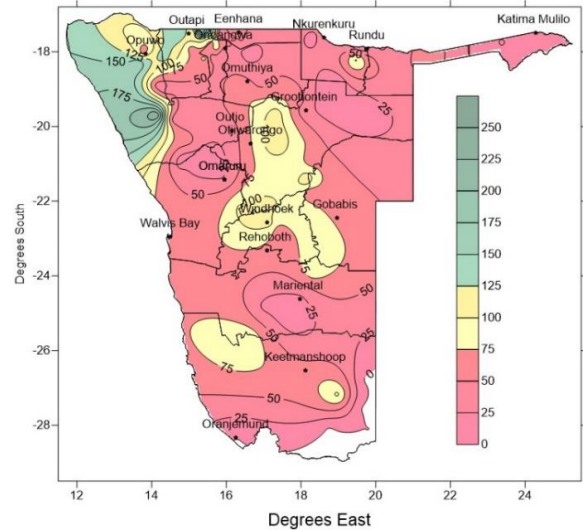


**Figure 1: February 2024 rainfall (mm)**

It is important to note that most of the rainfall was concentrated over the Northwestern and central regions but the amounts were still below normal for this time of the season compared to the long-term averages. (see Figure 1)

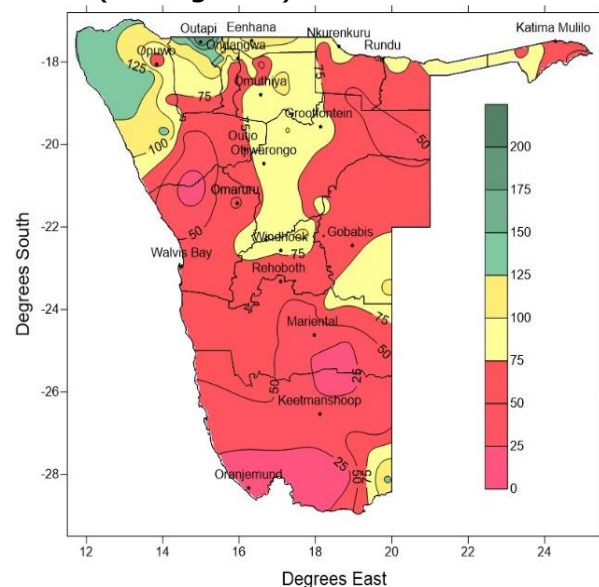
Comparing the rainfall as deviations from the normal, the rainfall performance was 75%(red) below normal for most of the country. However, pockets of normal (yellow) rainfall were observed over the Khomas, Odjzondjupa, Karas, and Kunene regions.

The Kunene region is the only region that received above normal (green) rainfall (Figure. 2)



**Figure 2: February 2024 Rainfall as a Percent of Normal**

The summary of seasonal rainfall performance from October 2023 to February 2024, portrays similar conditions as Figure 2. Drier-than-normal rainfall has been observed over the bulk of the country which is now a cause for concern as the end of the season is drawing near. (see Figure 3).



**Figure 3: October 2023 to February 2024 Rainfall as a Percentage of Normal**

## Rainfall Prediction for March to May 2024

El Niño conditions continue to be observed over the eastern and central tropical Pacific but have started weakening. However, it will continue to influence the global climate in the coming months (March to May). The predictions largely point to a 60% chance of El Niño persisting during March-May 2024 and an 80% chance of neutral conditions during April to June 2024.

The prediction for March to May 2024 indicates below-normal rainfall conditions over the bulk of the country, except over the Zambezi region which can largely expect normal conditions (see fig.4).

CCA\_ensemble - Probabilistic Forecast

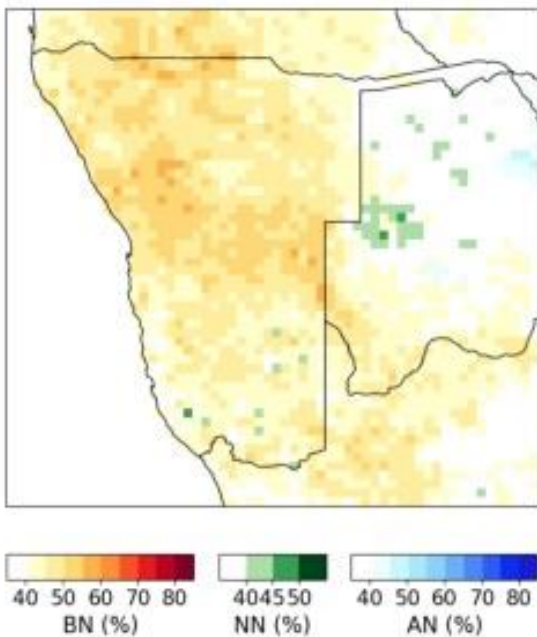


Figure 4: March to May 2024 Probabilistic Forecast

The corresponding forecast is provided in millimeters below in Figure 5. The forecast is an approximation and local variations can be anticipated.

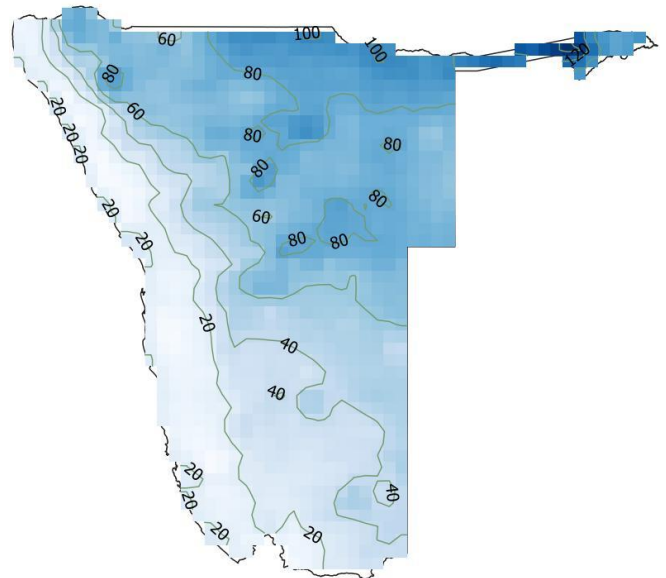


Figure 5: March to May 2024 Rainfall Forecast in millimeters

The Karas, Hardap, western Erongo and extreme western Kunene regions are expected to receive rainfall below 40 mm for the period, while the remainder of the interior is expected to receive above 60 mm. The highest amounts of rainfall approximately 120mm is anticipated over the Zambezi region.

Our ensemble deterministic forecast for the same period (March to May) shows no regaining of deficit rainfall over greater parts of the country.

**Table 1. Namibia Rainfall Performance at Specific Places – February 2024**

Station	01-10 Feb 2024	11-20 Feb 2024	21-29 Feb 2024	Highest Daily Falls (mm)	Month Total (mm)	Normal (mm)	Departure (%)	Oct 2023 - Feb 2024 Total and Relative Performance		
								Total (mm)	Normal (mm)	Departure (%)
Endundja	50.8	14	5.5	14	70.3	134	-48	393.3	387	2
Ongha	39.5	0.6	0	17.5	40.1	125	-68	482.1	425	13
Okalongo	222	60	44	143	326	120	172	575.7	319	80
Oshifo	134	7	0	45	141	106	33	424	298	42
Omafo	19	0	0	19	19	133	-86	270.4	380	-29
Onawa	39	13.5	36.4	27	88.9	110	-19	518.1	281	84
Eenhana	77.7	0	11	46	88.7	120	-26	472.8	394	20
Katima Mulilo Airport	8.7	0	15.5	10.3	24.2	123	-80	264.7	477	-45
Katima Mulilo ADC	5	0	0	3	5	148	-97	244	543	-55
Caprivi river Lodge	9	5.5	5	6	19.5	133	-85	323.8	520	-38
Outapi	72.4	9.7	44.9	39.5	127	102	25	514.3	251	105
Omauni	25.5	33.5	0.9	33.5	59.9	124	-52	417.8	442	-5
Etayi	118	40	19	60	177	115	54	372	319	17
Onesi	72.9	26	47	43	145.9	98	49	340.8	285	20
Oshikuku	47	14	47	47	108	110	-2	311.5	310	0
Kasheshe	0	0	0	0	0	118	-100	337	493	-32
Mpungu	18	3	0	8.5	21	130	-84	288.1	448	-36
Kahenge	14	35	0	35	49	133	-63	441.5	459	-4
Ongula ya Netanga	38	0	0	31	38	113	-66	225	341	-34
Tsandi	75	6	25.5	45	106.5	100	7	359	299	20
Sibinda	0	0	9.2	7.6	9.2	120	-92	432.1	499	-13
Epembe	20	35	0	35	55	122	-55	345.5	376	-8
Oshigambo	16	44	22	44	82	106	-23	361.4	313	15
Ongwediva	65	16	15	32	96	106	-9	391.4	303	29
Uukwangula	47	0	20	40	67	106	-37	284	304	-7
Okaku	35.6	0	6	27.5	41.6	106	-61	241.9	309	-22
Kongola	16	3.5	12	16	31.5	110	-71	318.3	502	-37
Ruuga	2	0	0	2	2	115	-98	196	407	-52
Omage III	2.2	0	7.4	6	9.6	111	-91	441.8	472	-6
Okahao	60	0	0	38	60	89	-33	321.7	284	13
Okaukamashe	66	0	2	50	68	102	-33	457.5	296	55
Mashare	12	12	0.5	12	24.5	115	-79	377.2	410	-8
Andimba Toivo ya Toivo Airport	17.2	0.2	15.2	15.2	32.6	100	-67	237.4	303	-22
Kaisosi	20.5	23.4	10	20.5	53.9	122	-56	403.3	435	-7
Ompundja	48.6	25.5	10.9	28.1	85	101	-16	197.6	302	-35
Rundu	13	3.2	0	12	16.2	121	-87	239	428	-44
Ngoma	8	9.5	3.5	8	21	126	-83	231.4	492	-53
Eheke	30.38	0	26.2	19	56.58	93	-39	382.5	285	34
Onayena	23	13.5	10	19	46.5	108	-57	282.7	330	-14
Sachona	2.2	5	6.8	6.8	14	118	-88	430	493	-13
Chichimane	24	1.5	0	12	25.5	118	-78	282	472	-40
Ndonga-Linena	35.5	5	0	30.5	40.5	118	-66	299.5	412	-27
Uukwiyu Uushona	0	0	28.2	28.2	28.2	94	-70	151.3	289	-48
Mukwe	30	46	21	21	97	144	-33	391.4	447	-12

Station	01-10 Feb 2024	11-20 Feb 2024	21-29 Feb 2024	Highest Daily Falls (mm)	Month Total (mm)	Normal (mm)	Departure (%)	Oct 2023 - Feb 2024 Total and Relative Performance		
								Total (mm)	Normal (mm)	Departure (%)
Opuwo	7	17	10	17	34	72	-53	86.5	210	-59
Opuwo ADC	38.6	21	14	20	73.6	72	2	145.2	210	-31
Onyulaye	0	1.4	0	1.4	1.4	107	-99	115.3	350	-67
Omakange	72	40	15	32	127	90	41	243	258	-6
Engombe	30.5	0	8.5	24	39	95	-59	255	277	-8
Okani	69.3	6	0	42.5	75.3	95	-21	342.3	277	24
Onankali	41.5	0.2	0.3	27	42	103	-59	317	322	-2
Ncamagoro	72	58	0	26	130	117	11	274	407	-33
Omuntele	50	0	0	50	50	106	-53	226.2	316	-28
Kaoko-Otavi	92.3	16.9	16.5	85	125.7	73	72	317.4	214	48
Okashana	23.3	0	13	13	36.3	103	-65	216.2	335	-35
Okapya	47.1	1.5	4.1	28.5	52.7	112	-53	364.2	384	-5
King Kauluma	32.7	0	10.2	17.5	42.9	110	-61	460	357	29
Mururani	0	0	0.6	0.6	0.6	110	-99	162.8	377	-57
Namutoni	29.6	0	5.4	28.5	35	95	-63	298.5	331	-10
Choantsas	42.6	2.5	0	16.5	45.1	103	-56	293.5	368	-20
Oruvandjai	29	0	0	15	29	72	-60	134.5	195	-31
Halali	63.7	5.2	4.8	30	73.7	101	-27	299.7	305	-2
Wilde	0	0	0	0	0	103	-100	196.5	356	-45
Okaukuejo	22.6	10.4	13.6	22	46.6	97	-52	170.8	260	-34
Galton Gate	45.5	15	0	21.5	60.5	80	-24	170.6	222	-23
Anderson Gate	15.8	16	23	17.5	54.8	106	-48	199.8	291	-31
Grootfontein Town	25.9	5.3	28.3	28.3	59.5	113	-47	306.1	401	-24
Mkata	5	0	5	5	10	104	-90	166	355	-53
Grootfontein ADC	7.9	0	25	25	32.9	109	-70	399.6	393	2
Tsumkwe	15.5	6	3.5	6	25	95	-74	174.5	349	-50
Otavi	92.3	16.9	16.5	85	125.7	114	10	386.7	384	1
Awagobibtal	2	52	12	52	66	114	-42	338	407	-17
Erwee	115	11	0	50	126	50	152	154	116	33
Anker	0	24	3.5	22	27.5	67	-59	72	158	-54
Outjo	0	21	15	15	36	96	-63	193.3	277	-30
Gam	26	0	0	13	26	91	-71	149	318	-53
Khorixas	32.1	8.2	4	24.5	44.3	70	-37	65.5	156	-58
Okamatapati	42.1	10	6.6	34	58.7	84	-30	185.3	299	-38
Okomumbonde	50.5	8	51.5	31.5	110	91	21	310.2	316	-2
LaPaloma	40.2	22	21	26	83.2	97	-14	191.6	312	-39
Sorris Sorris	0	0	0	0	0	28	-100	0	75	-100
Okondjatu	19.6	16.7	22.5	11	58.8	87	-32	172.7	306	-44
Omatjette	0	0	0	0	0	66	-100	107.1	170	-37
Otjikururume	37.5	37	5	37	79.5	91	-13	232	270	-14
Eureka	40.5	30.3	11.8	29	82.6	97	-15	214.1	303	-29
Uis	10	0	0	10	10	30	-67	10	80	-88
Rodenbeck	48	24.4	37.4	23.5	109.8	92	19	258	303	-15
Omaruru	7	5.6	10.4	8	23	85	-73	83.8	192	-56
Tubuis	22	0	0	22	22	53	-58	66	117	-44
Ondunduwazirapi	84	1	8	71	93	98	-5	200	300	-33
Steinhausen	32.3	17	0	17	49.3	93	-47	210.6	291	-28

Station	01-10 Feb 2024	11-20 Feb 2024	21-29 Feb 2024	Highest Daily Falls (mm)	Month Total (mm)	Normal (mm)	Departure (%)	Oct 2023 - Feb 2024 Total and Relative Performance		
								Total (mm)	Normal (mm)	Departure (%)
Okahua	22.1	24	42	34	88.1	90	-2	284.4	264	8
Omateva	15	8.5	49.6	30.5	73.1	78	-6	118.3	251	-53
Westenfallenhof	22.1	54.5	11.5	50	88.1	78	13	173.3	204	-15
Otjimbingwe	37	0	1	37	38	44	-14	90.5	108	-16
Bergvlug	28.3	19.8	38.5	13	86.6	93	-7	239.7	247	-3
Windhoek	60.5	48.2	7.6	34	116.3	93	25	206.9	249	-17
Pioniers Park	28	29.2	42.9	34.4	100.1	91	10	192.3	249	-23
Binsenheim	48	4.5	5	22	57.5	91	-37	157	246	-36
Walvis Bay	0.6	0	0	0.6	0.6	1	-40	0.6	1	-40
Rehoboth	35.5	0	5	27	40.5	59	-31	84.4	156	-46
Coridor13	0	30	13	30	43	67	-36	224	213	5
Gomchanas-Ost	20.9	23.6	3.5	16.7	48	54	-11	121.3	146	-17
Hoachanas	30	10	0	17	40	57	-30	75	148	-49
Maltahohe	9.2	0	0	5	9.2	45	-80	46.5	91	-49
Gochas	3	8.5	8.5	8.5	20	47	-57	28.5	141	-80
Gibeon	2.8	0	0	2.8	2.8	44	-94	27.6	105	-74
Aruab	47.6	0	0	47.5	47.6	47	1	54.4	96	-43
Tses	6	0	3	6	9	28	-68	17.4	77	-77
Bethanie	20	0	0	20	20	28	-29	31.3	64	-51
Aroab	0	0	0	0	0	30	-100	28.2	104	-73
Naos_Karas	38	0	2.5	30	40.5	38	7	70	112	-38
Snyriver-Noord	0	0	0	0	0	24	-100	69	79	-13
Karasburg	0	0	0	0	0	24	-100	4.1	69	-94
Ariamsvlei	0	0	0	0	0	22	-100	83	65	28
Oranjemund	0	0	0	0	0	8	-100	1	24	-96

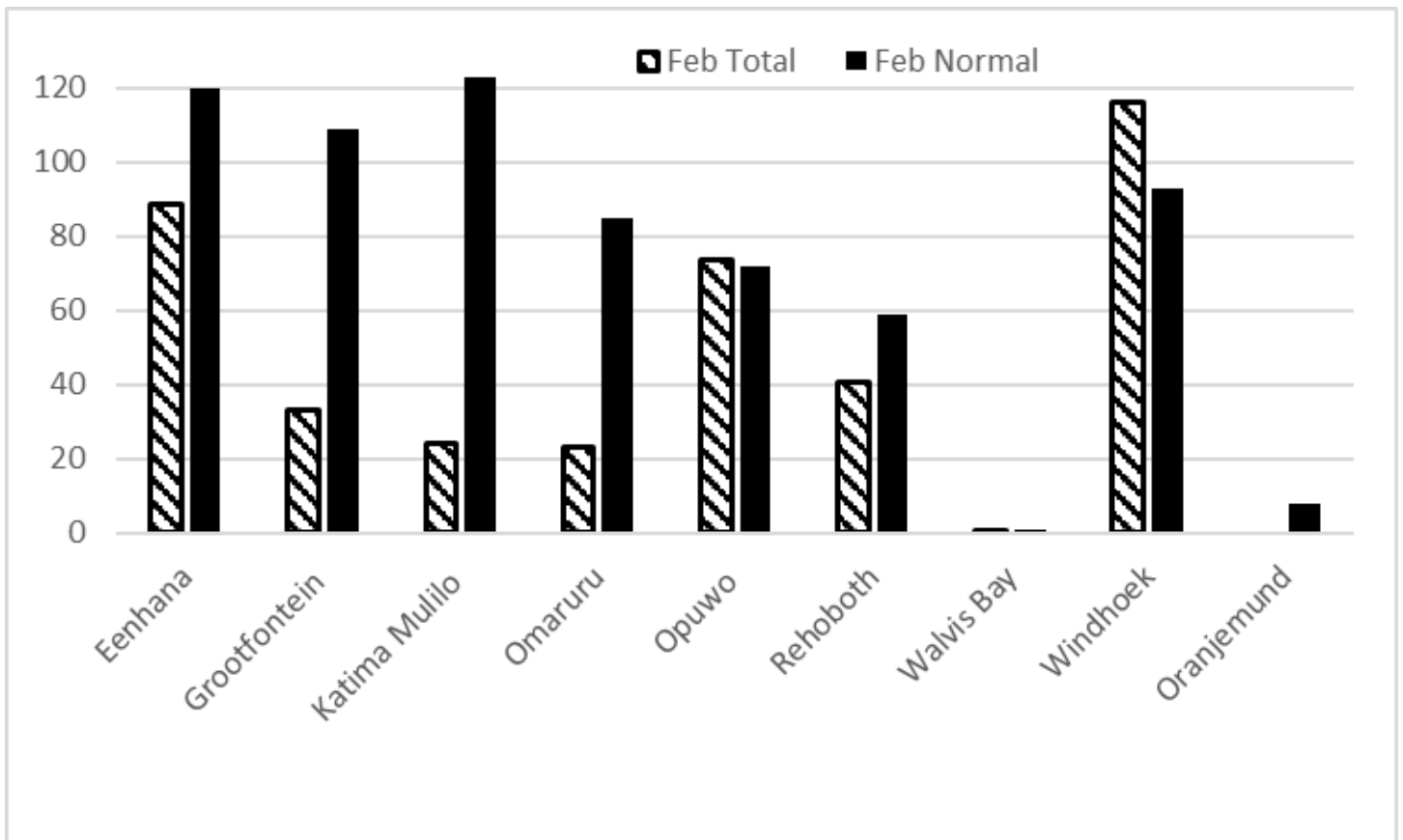


Figure 6: Progressive Chart February 2024

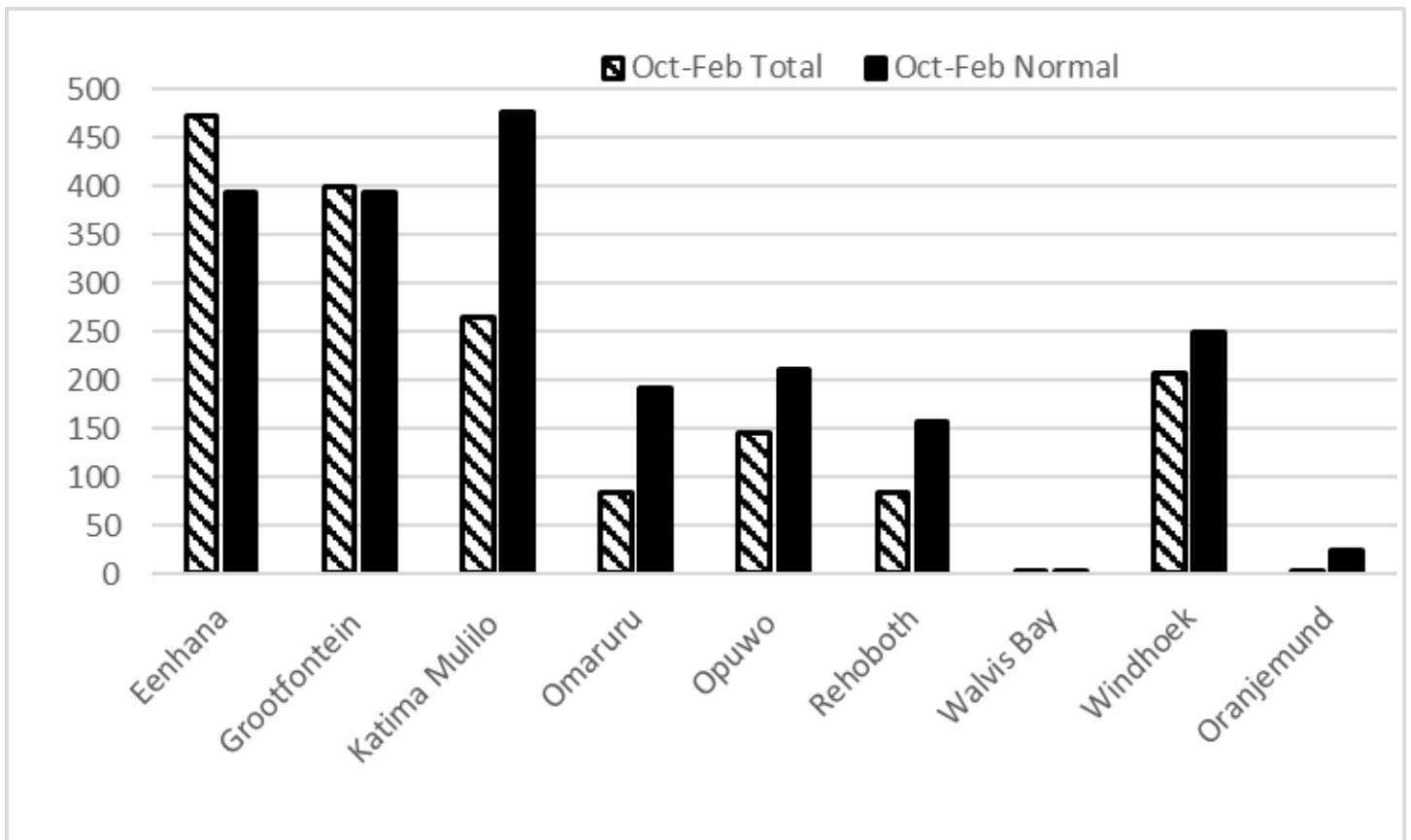


Figure 7: Progressive Chart October 2023 to February 2024