



OVERVIEW OF THE 2024 SEASONAL CLIMATE PREDICTION IN BAY STATES

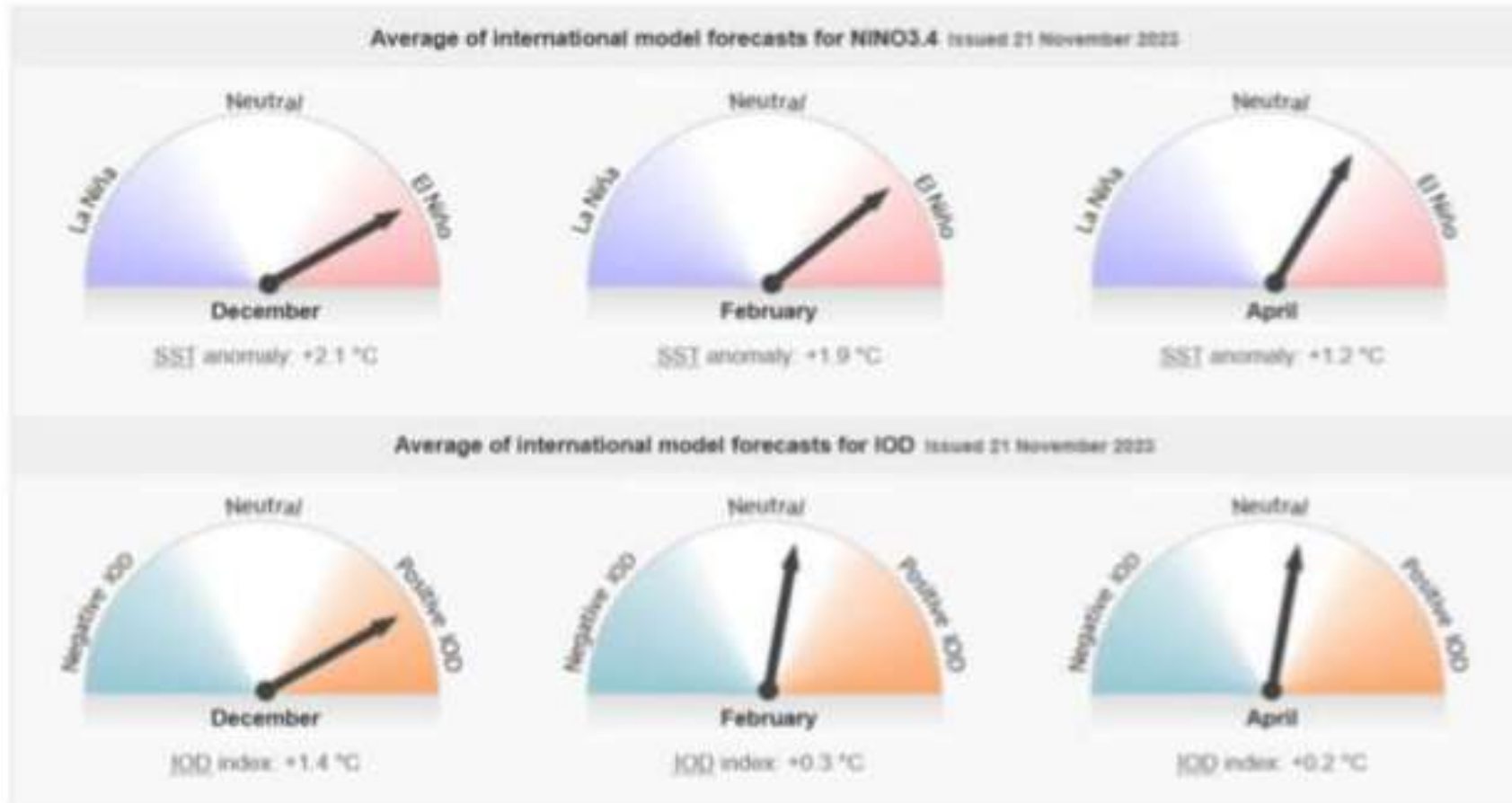
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NIGERIAN METEOROLOGICAL AGENCY

04ND APRIL, 2024

2024 SEASONAL CLIMATE PREDICTION

- ❖ 2024 predicted based on two ENSO phases;
 - ❖ El- Niño phase in the 1st half year-2024 (onset of rainfall)
 - ❖ Neutral phases – length of growing season, cessation and rainfall amount



2024 NIGERIAN SEASONAL CLIMATE PREDICTION

Onset Dates of Rainy season – *Normal to long term average*

- 2nd March at the coastal zone and southern region
- North Central states are likely to have onset in late May
- Extreme Northern states were predicted to have onset from June- July

Cessation date of rainy season – *Normal to long term average*

- Earliest cessation is anticipated to be ending September in northern fringes
- Late cessation is likely to occur between 16th-25th December over most part of the coastal region

Length of Growing Season

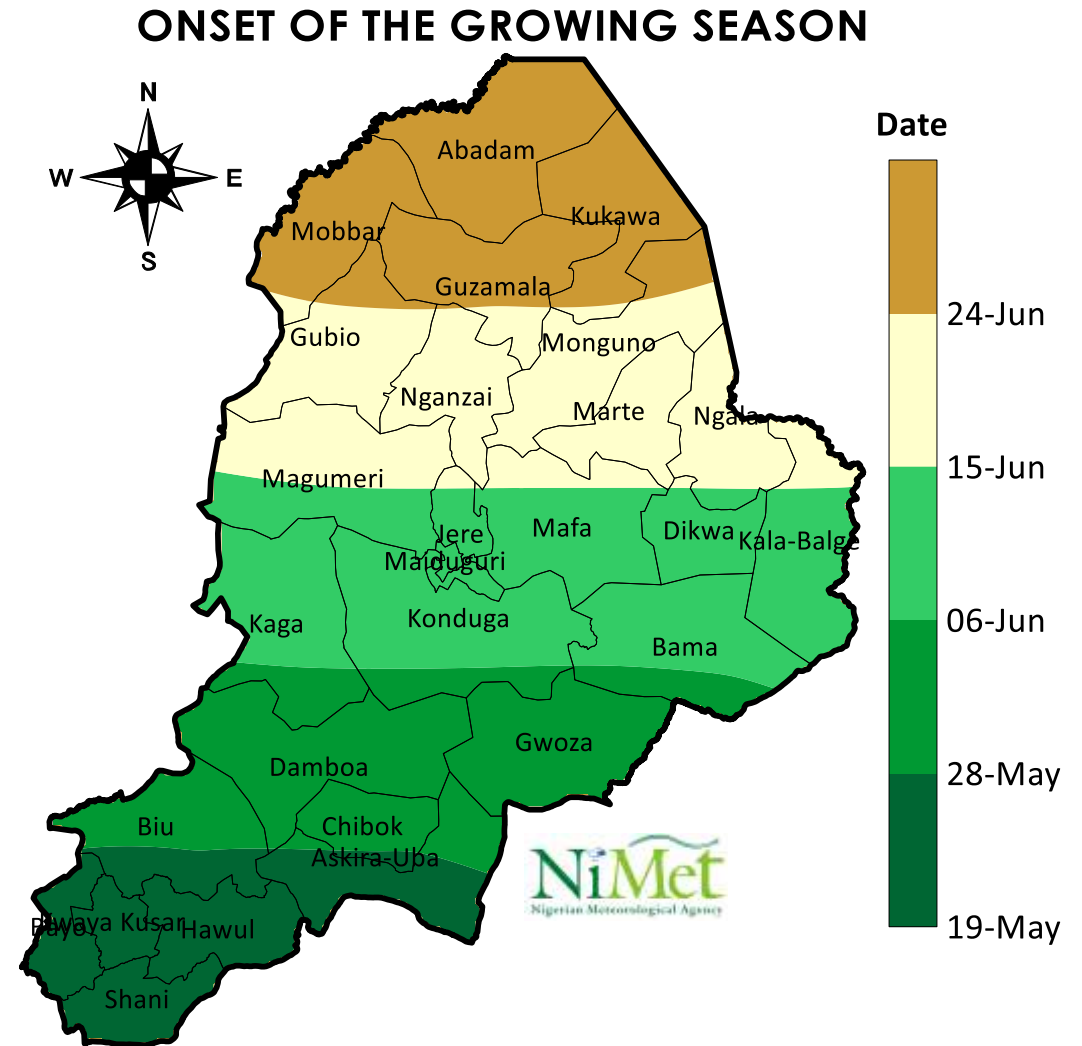
- 85 days from the extreme north to 283 days in the south south

Rainfall amount

- it's expected to vary from 420mm in the northern fringes to 3250mm in the extreme southern region

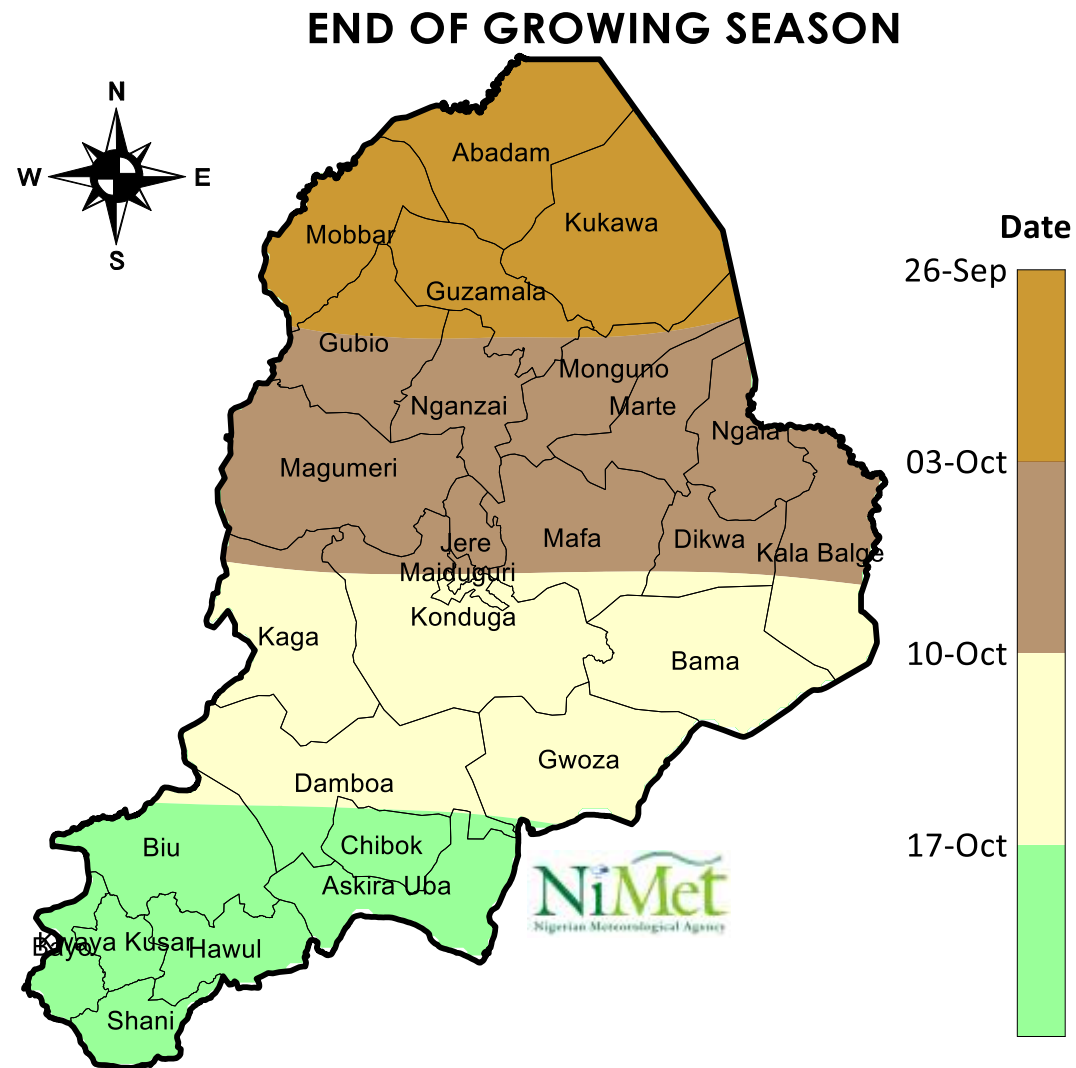
2024 Onset of Growing Season for Borno State

The onset is predicted to start on **19th May** around Shani Local Government Areas (LGAs). Chibok, Damboa, Gwoza Bama, Kaga, Konduga, Jere, Maiduguri, Mafa, Kala-Balge and their environs will likely be from **28th May to 15th of June**. The northern parts of the state such as Mobbar and Abadam are anticipated to be later from **24rd June -4th July**



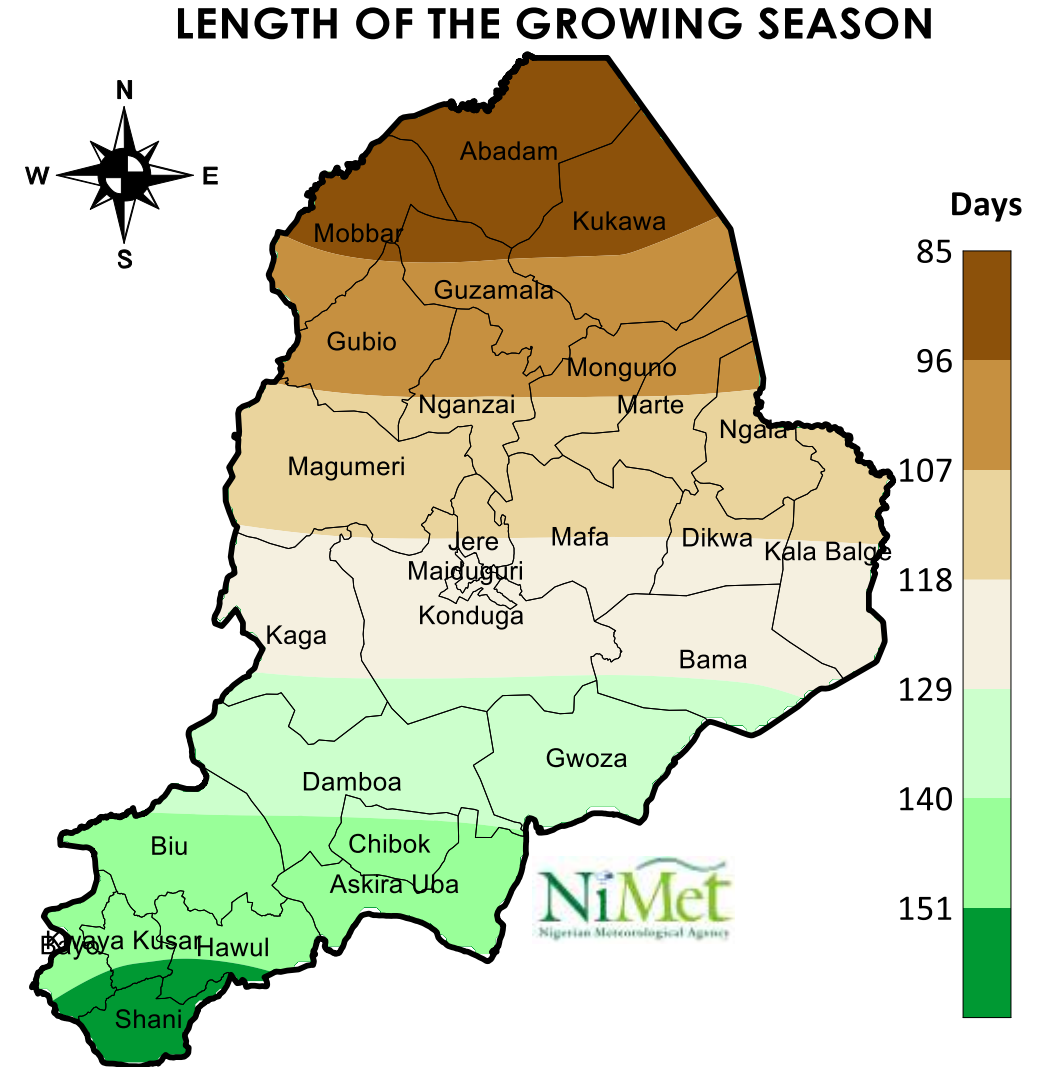
2024 Cessation for Borno State

The growing season for 2024 is likely to end from **26th September** to **17th of October**. The earliest cessation is predicted to be **26th September** around Abadam LGA's while, the latest is around **17rd October** in Shani.



2024 Length of Season for Borno State

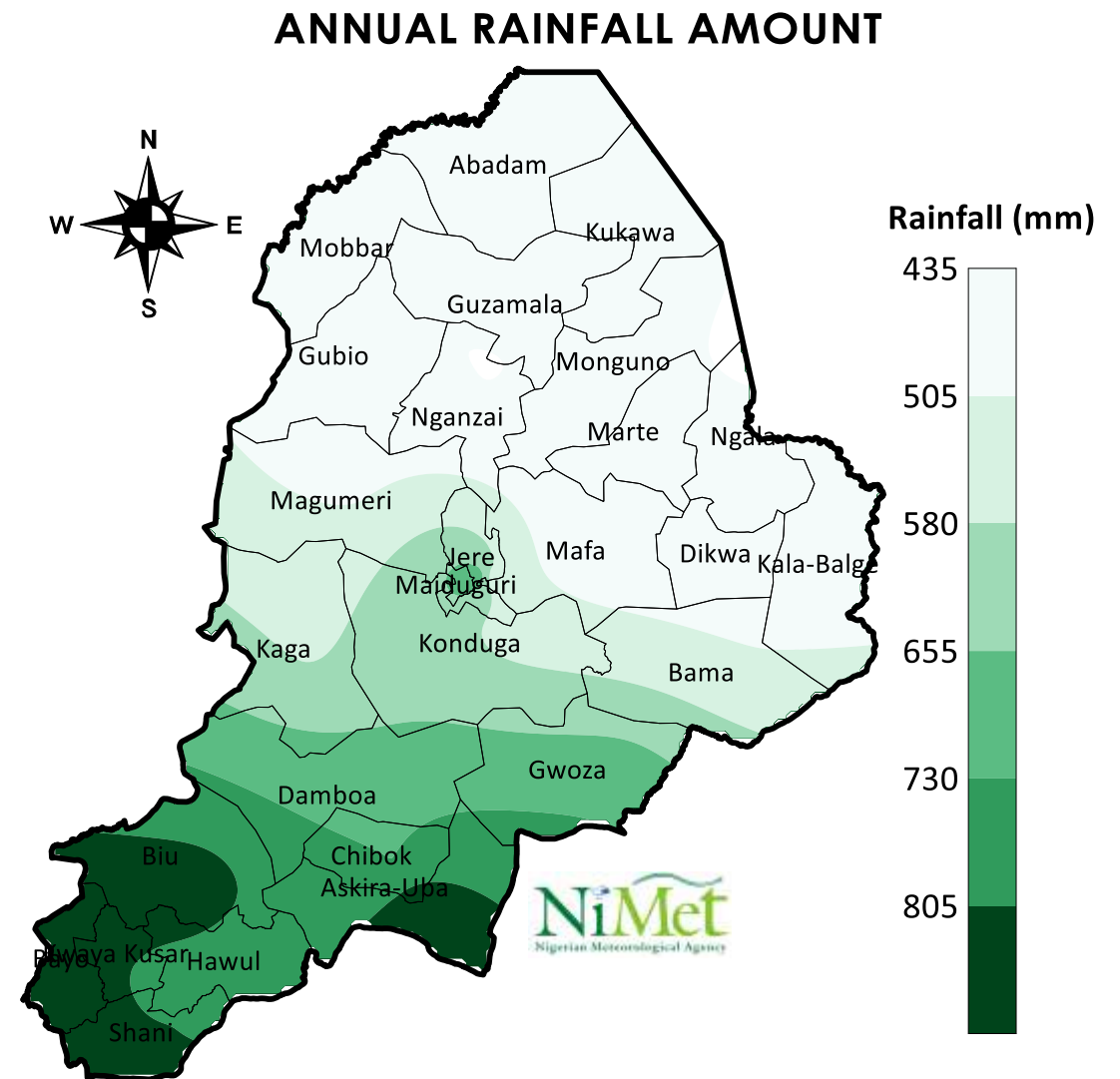
The length of the growing season is anticipated to vary between **85 to 155 days**. Abadam is predicted to have the shortest growing season of **85** days while Shani from the southern part of the state is likely to have the longest growing season of about **155** days.



2024 Predicted Rainfall Amount for Borno State

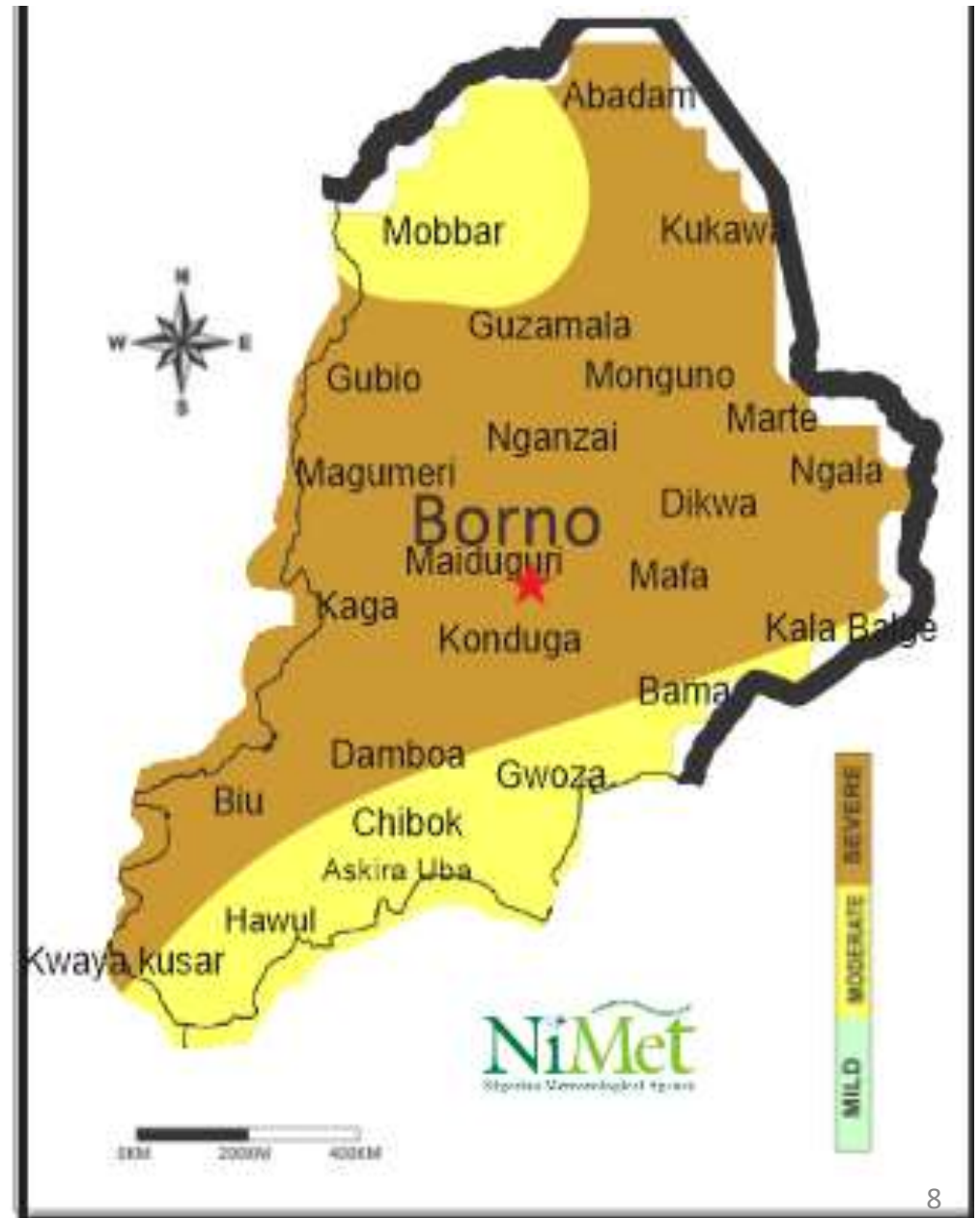
The annual rainfall for Borno State is predicted to range from **430 mm** to **806 mm** of rainfall.

Nganzai, Monguno, Gubio and its surroundings are likely to have the lowest annual rainfall amount of below 500 mm while, Bayo in the southern part of the state is anticipated to have the highest annual rainfall total of 872 mm.



2024 Forecasted Dry Spell

- **Severe dry spell** might persist for 15 days or more in most part of Borno state including Monguno, Maiduguri, Magumeri Dikwa and Kukawa
- **Moderate** dry spell might persist for about 10 days in S. Part of Borno (Chibok, Mobbar, Hawul & askira)



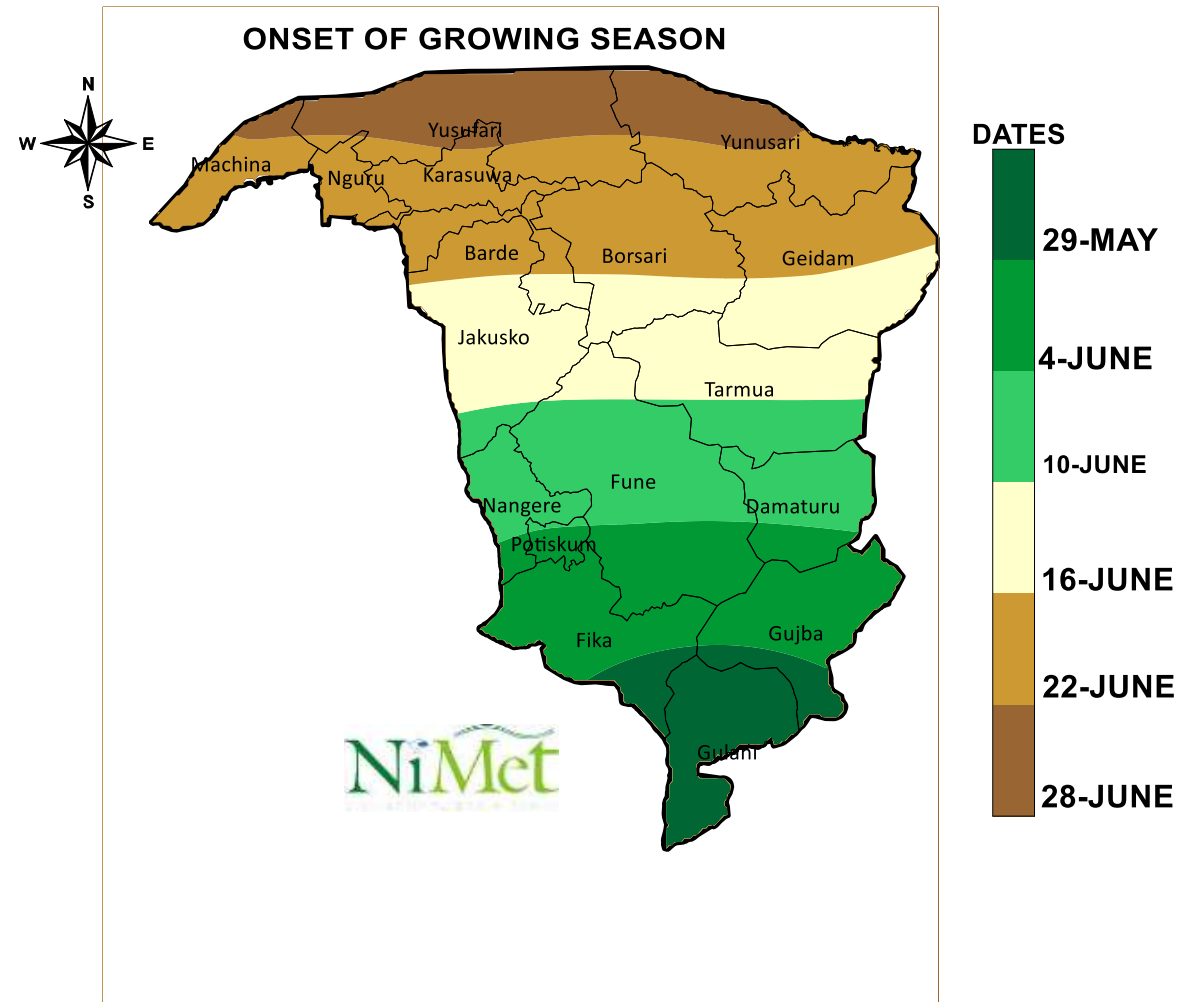
**PREDICTED ONSET AND CESSATION DATES, LENGTH OF GROWING SEASON
AND SEASONAL AMOUNT OF RAINFALL FOR BORNO STATE**

Local Government Areas	Onset	End of Season	Length of Season	Annual Rainfall (mm)
Abadam	3-Jul	26-Sep	85	463
Askira/Uba	27-May	19-Oct	145	847
Bama	7-Jun	12-Oct	127	522
Bayo	24-May	21-Oct	150	872
Biu	27-May	18-Oct	144	841
Chibok	28-May	18-Oct	142	732
Dambo	2-Jun	15-Oct	136	701
Dikwa	12-Jun	9-Oct	118	450
Gubio	22-Jun	3-Oct	103	438
Guzamala	24-Jun	1-Oct	99	440
Gwoza	2-Jun	15-Oct	135	699
Hawul	24-May	20-Oct	150	771
Jere	11-Jun	9-Oct	120	553
Kaga	8-Jun	11-Oct	126	567

Local Government Areas	Onset	End of Season	Length of Season	Annual Rainfall (mm)
Kala/Balge	15-Jun	7-Oct	114	444
Konduga	9-Jun	11-Oct	124	563
Kukawa	26-Jun	30-Sep	96	443
Kwaya Kusar	23-May	21-Oct	151	779
Mafa	13-Jun	8-Oct	116	447
Magumeri	15-Jun	7-Oct	113	493
Maiduguri	11-Jun	9-Oct	120	703
Marte	18-Jun	5-Oct	109	439
Mobbar	29-Jun	29-Sep	92	449
Monguno	20-Jun	4-Oct	106	438
Ngala	17-Jun	6-Oct	111	440
Nganzai	19-Jun	4-Oct	107	435
Shani	20-May	23-Oct	155	806

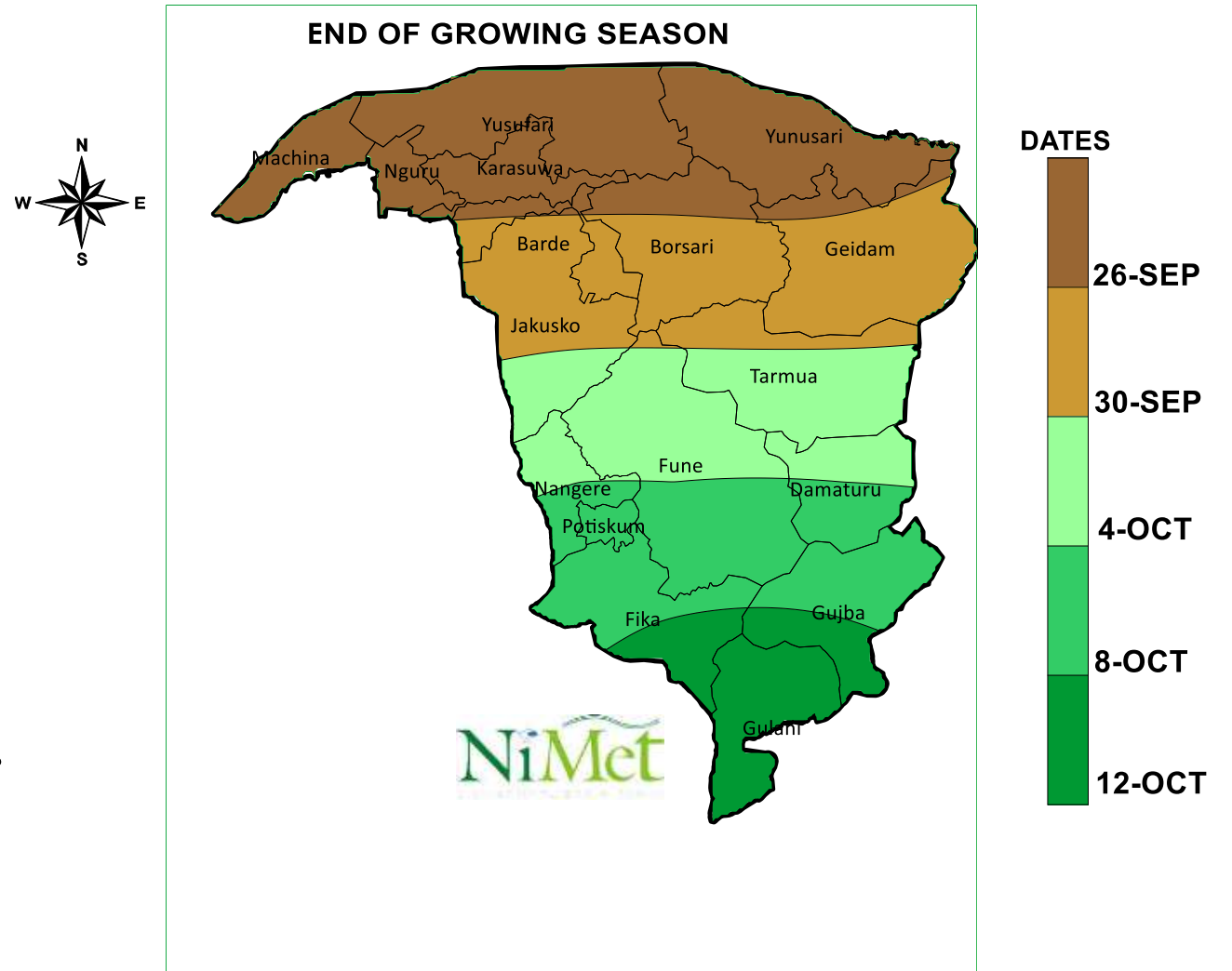
2024 Onset of Growing Season for Yobe State

The onset is anticipated to start from **29th May** in and around Gulani Local Government Areas (LGA). Places around Gujba, Fika, Potiskum, Fune, Nangere, Damaturu, and their environs is expected to be **from 1st to 10th of June**. The northern parts of the state such as Nguru, Machina, Karasuwa, Yunusari and Yusufari are anticipated to be later **from 22nd up to 28th of June**.



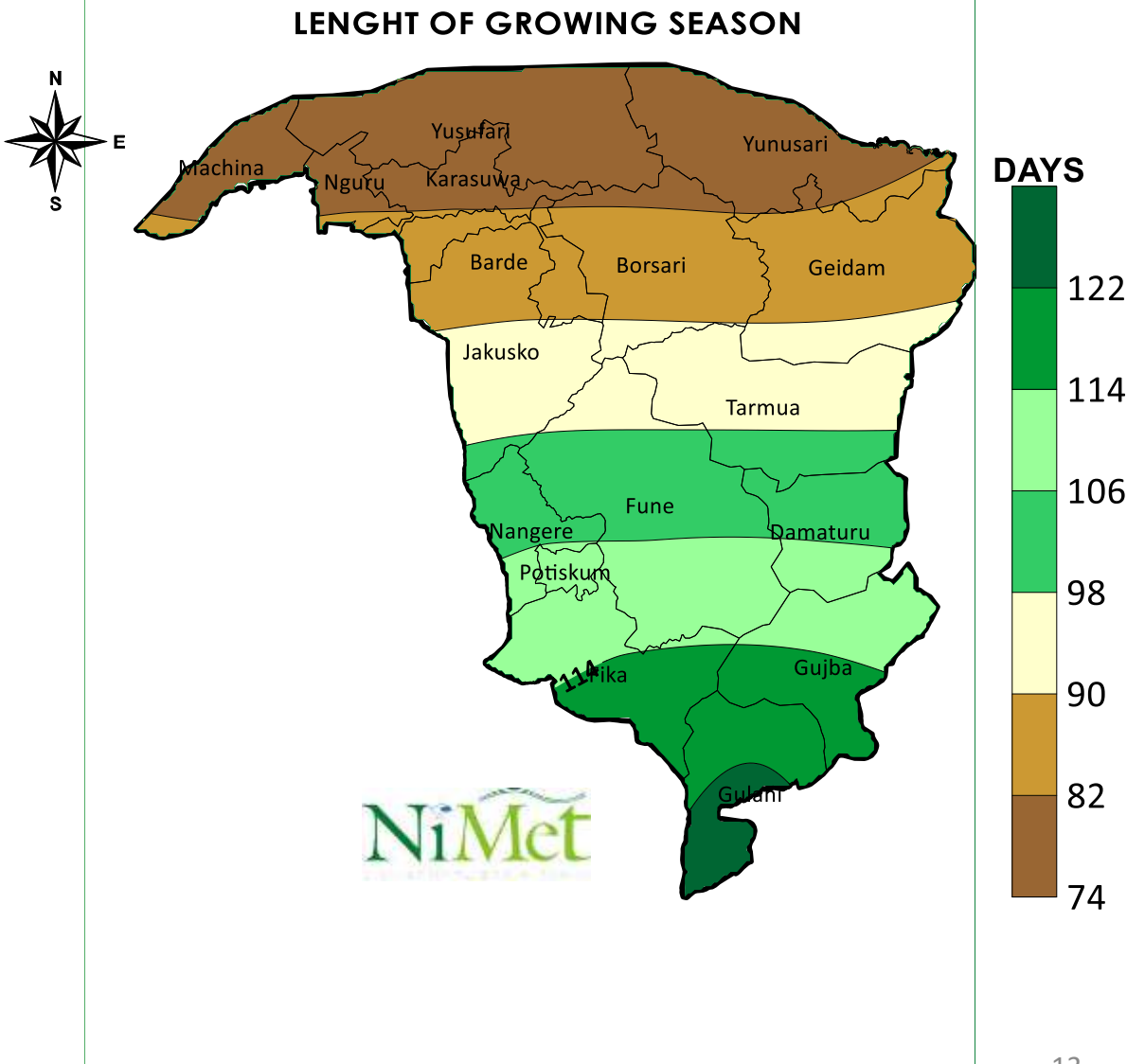
2024 End of the growing season for Yobe State

The growing season for 2024 is likely to end from **26th September to 12th of October**. The earliest cessation is predicted to be **26th September** around Yusufari LGA's while, the latest end of the growing season is around **12th of October** in Gulani Local Govt area in the southern part of the state.



2024 Length of Season for Yobe State

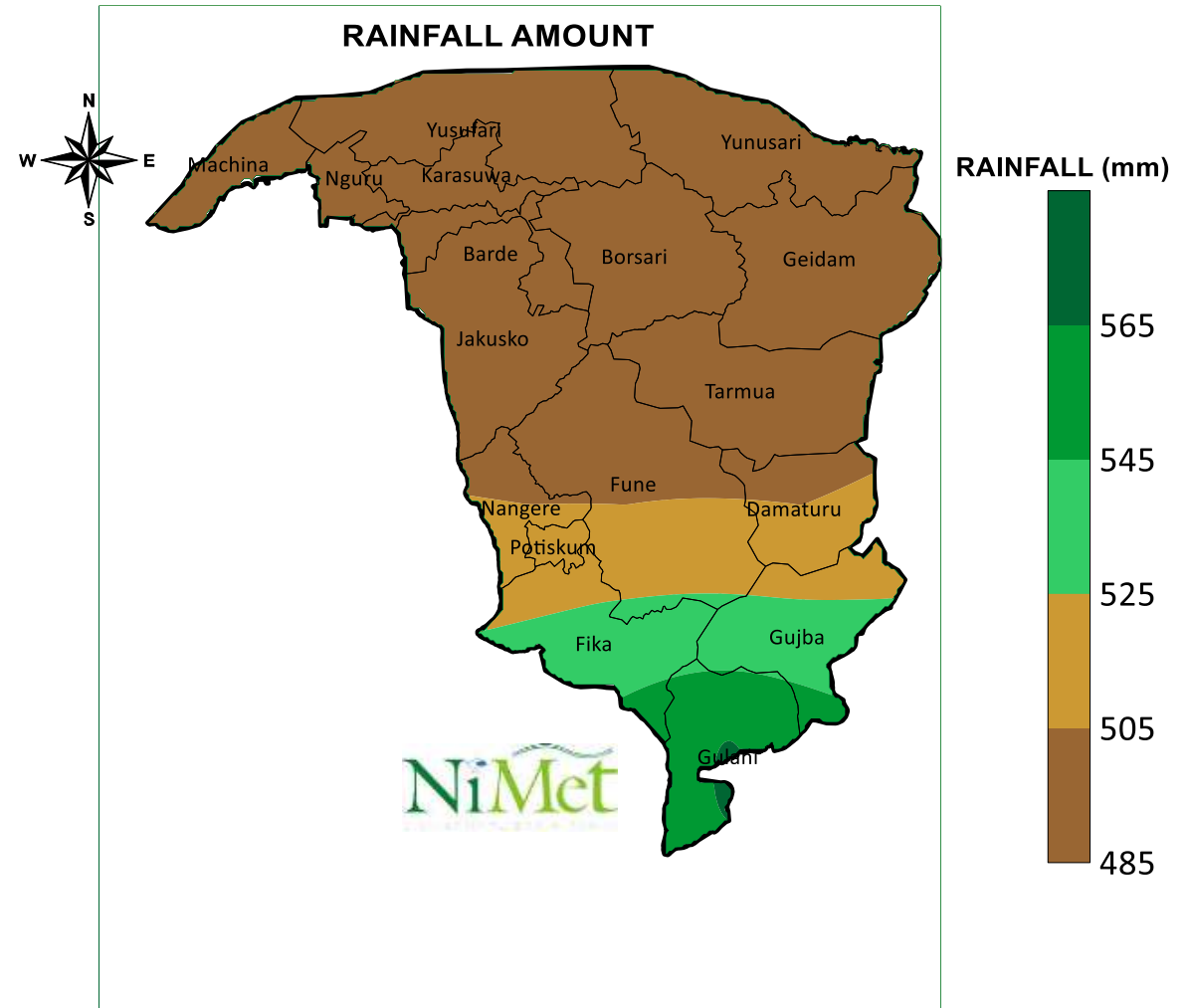
The length of growing season is anticipated to vary between **74 to 122 days**. Yusufari is predicted to have the shortest length of growing season of **75 days** while Gulani from the southern part of the state is likely to have the longest length of growing season of about **123 days**.



2024 Predicted Rainfall Amount for Yobe State

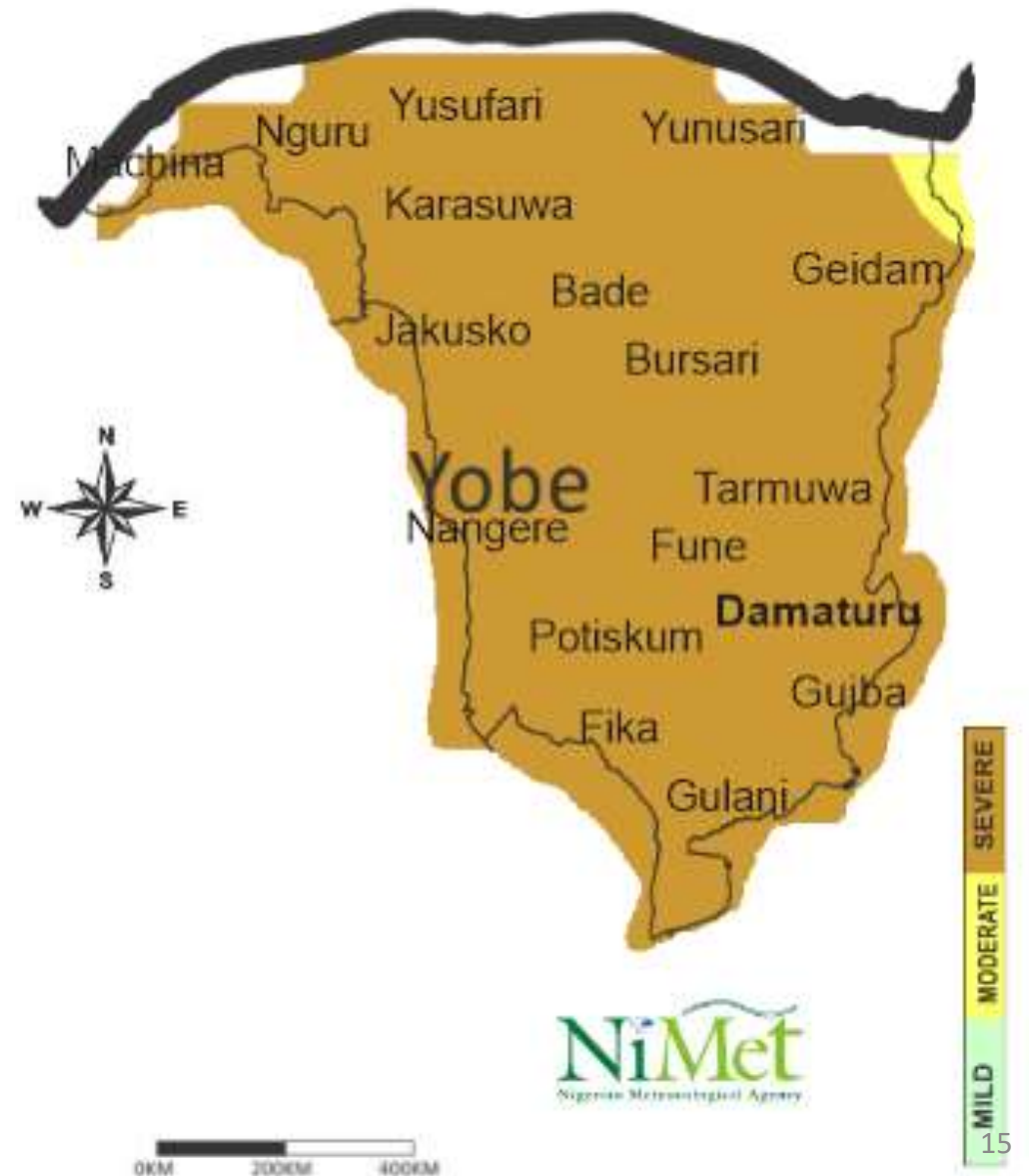
The annual rainfall for Yobe State is predicted to range from **485 mm to 565 mm** of rainfall.

Jakusko and Bursari are likely to have the lowest annual rainfall amount of **485 mm** while, Gulani in the southern part of the state is anticipated to have the highest annual rainfall total of **565 mm**.



2024 forecasted dry spell

- **Severe dry spell** might persist for 15 days or more in all all part of Yobe state
- **Moderate** dry spell might persist for about 10 days in Part of Geidam communities



ADVISORY OF THE SCP'S IMPACT ON FARMING

Use of drought resistant and improved varieties of seedlings

Input distribution before onset such as seedlings, fertilizer etc.

Delay plantation in extreme LDS period and early plantation in early onset

Avoid planting before the predicted periods

Morning & evening irrigation when necessary

Soil water conservation techniques such as mulching, water harvest etc.



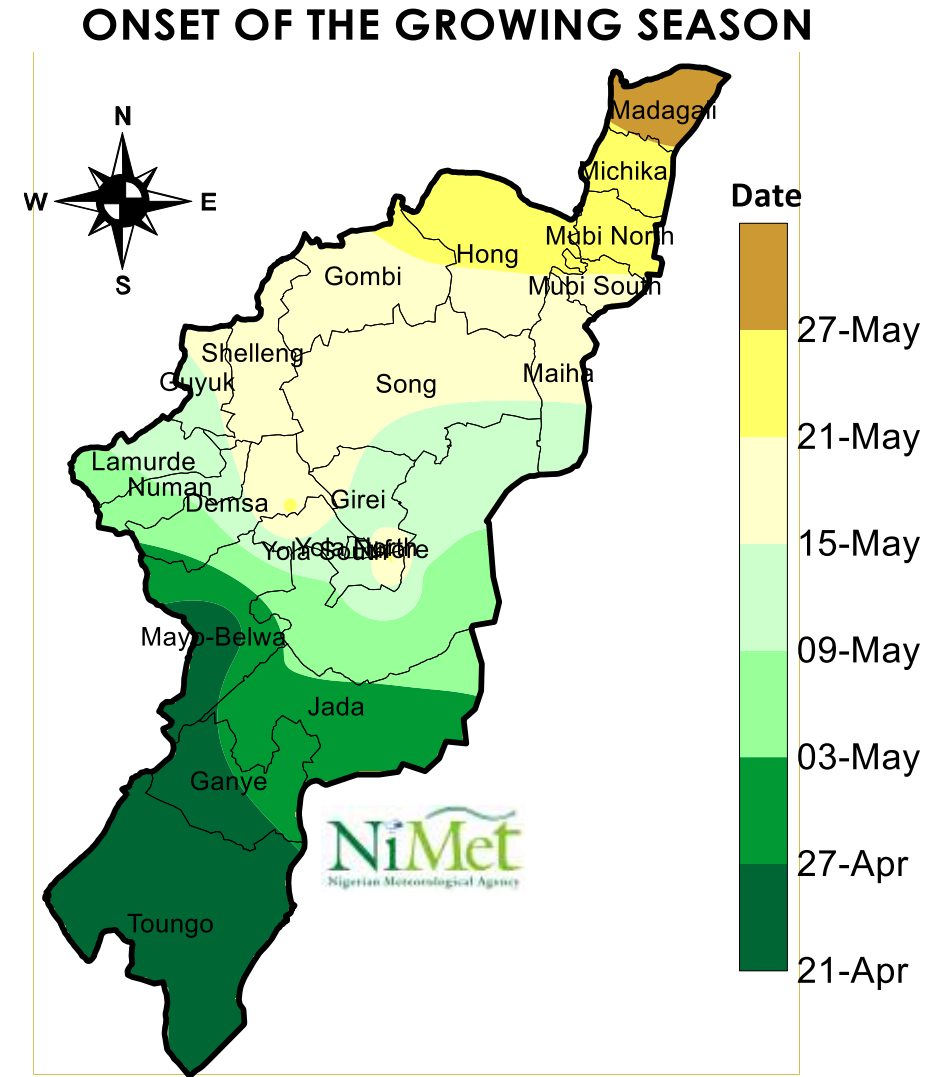
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**PREDICTED ONSET AND CESSATION DATES, LENGTH OF GROWING SEASON
AND SEASONAL AMOUNT OF RAINFALL FOR YOBE STATE**

LGA	Onset date	End of Season	Length of Season	Annual	Rainfall (mm)
Bade	24-Jun	1-Oct	86	488	
Bursari	23-Jun	2-Oct	87	488	
Damaturu	12-Jun	9-Oct	105	505	
Fika	6-Jun	12-Oct	113	528	
Fune	12-Jun	8-Oct	105	504	
Geidam	23-Jun	2-Oct	87	488	
Gujba	6-Jun	12-Oct	115	533	
Gulani	31-May	15-Oct	123	566	
Jakusko	20-Jun	4-Oct	92	488	
Karasuwa	26-Jun	30-Sep	82	491	
Machina	28-Jun	29-Sep	78	495	
Nangere	12-Jun	9-Oct	105	506	
Nguru	26-Jun	30-Sep	81	492	
Potiskum	10-Jun	10-Oct	107	511	
Tarmua	18-Jun	5-Oct	96	491	
Yunusari	29-Jun	28-Sep	77	498	
Yusufari	30-Jun	27-Sep	75	500	

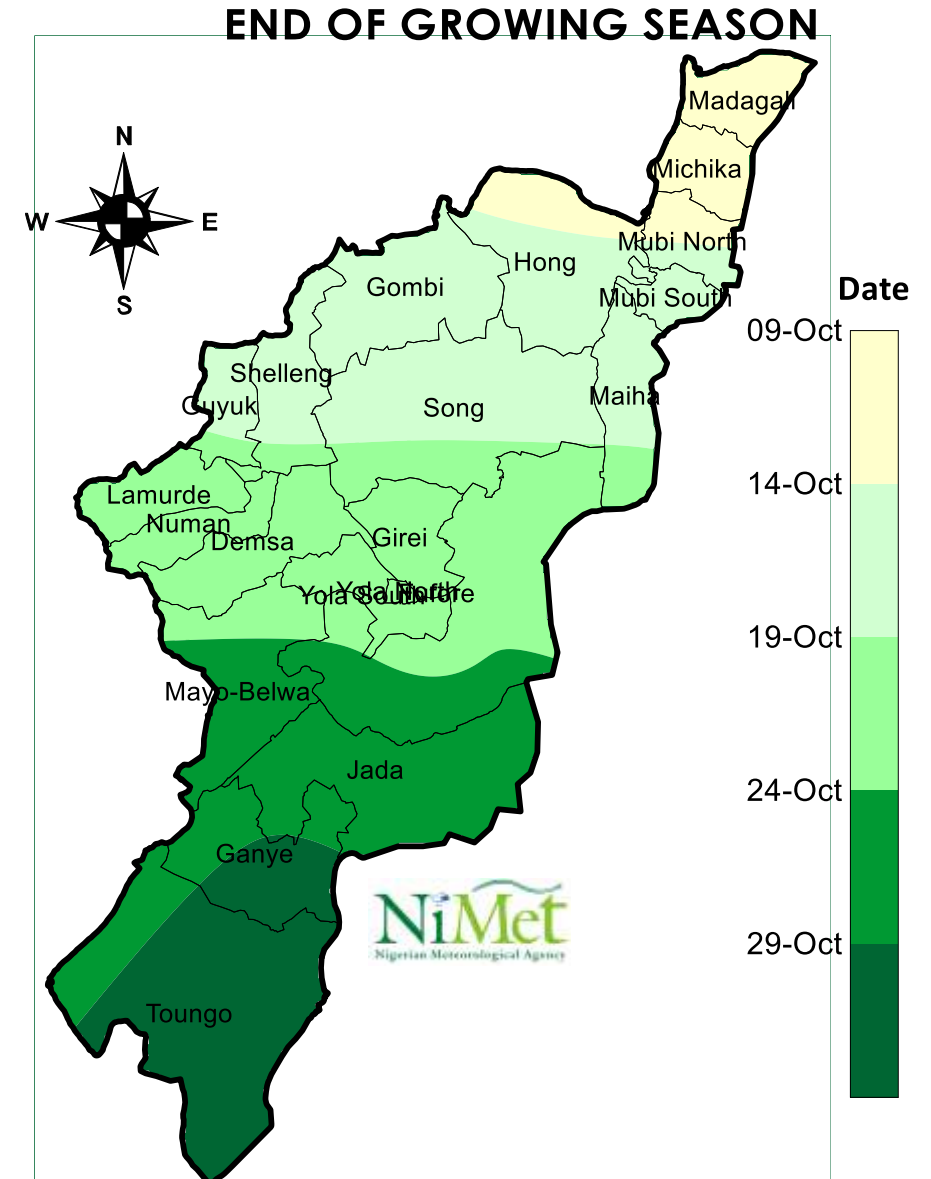
2024 Onset of Growing Season for Adamawa State

The onset is anticipated to start on the **21st of April** in and around Toungo Local Government Areas (LGAs). Places around Jimeta, Gombi, Numan, Lamurde, Song, Guyuk, Maiha and their environs are expected to be from the **3rd to the 9th of May**. The northern parts of the state such as Madagali are anticipated to be later from the **27th of May**.



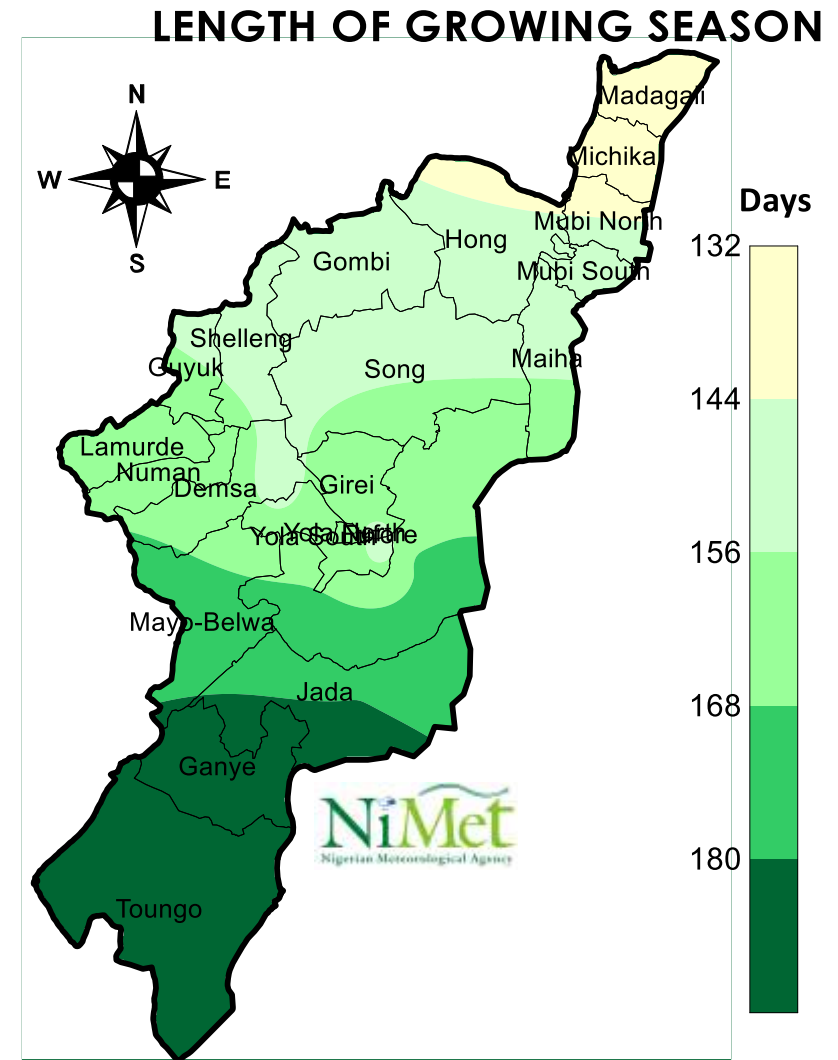
2024 Cessation for Adamawa State

The growing season for 2024 is predicted to end from **9th to 1st of November**. The earliest cessation is predicted to be **9th October** around Madagali LGA's while, the latest is from **29th October** in Ganye and Toungo LGA's .



2024 Length of Season for Adamawa State

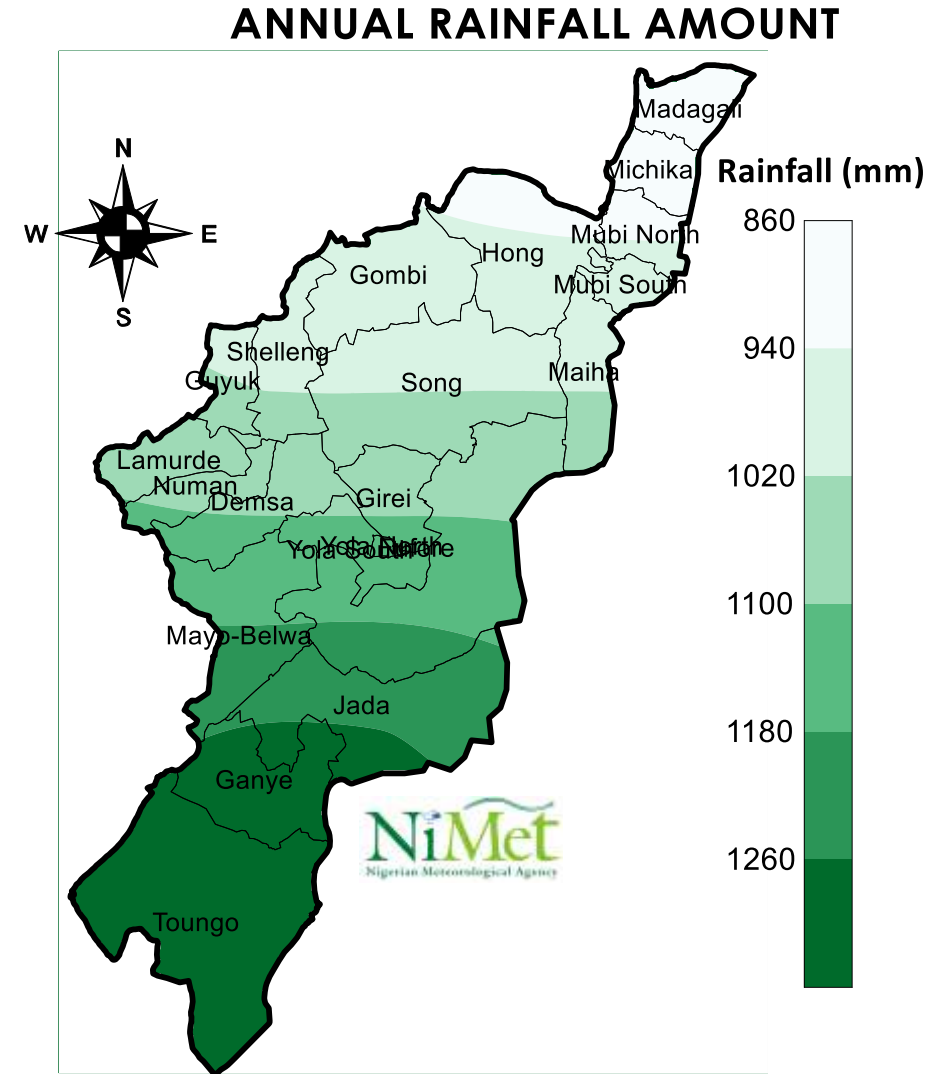
The length of the growing season is predicted to vary between **132 to 193 days**. Madagali is predicted to have the shortest growing season of **132 days** while Ganye and Toungo from the southern part of the state are expected to have the longest length of growing season of above **180 days**.



2024 Predicted Rainfall Amount for Adamawa State

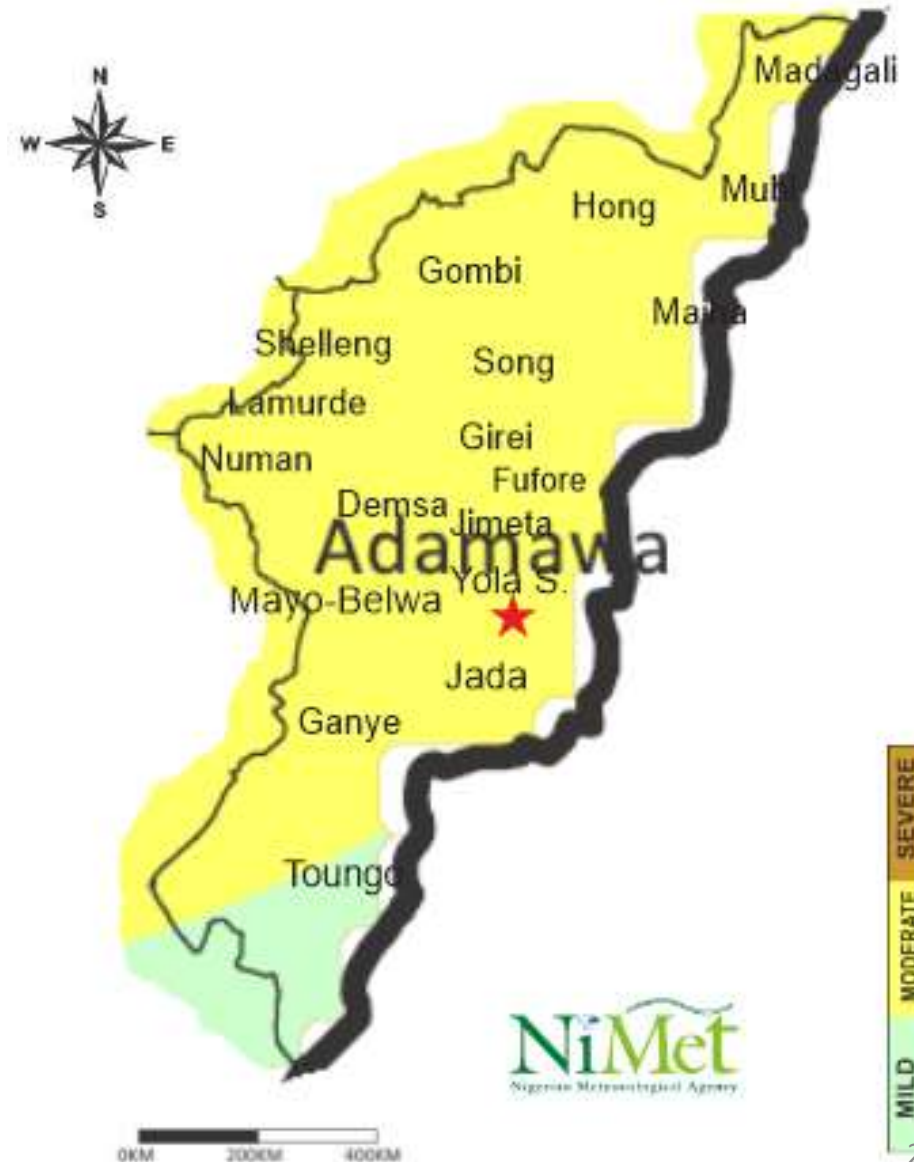
The annual rainfall for Adamawa State is anticipated to range from **860 mm to 1260 mm** of rainfall.

Madagali is likely to have the lowest annual rainfall amount of **860mm** while, Ganye and Toungo in the southern part of the state is expected to have the highest annual rainfall total of above 1260 mm.



2024 Forecasted Dry Spell

- **Moderate** dry spell might persist for about 10 days in most part of Adamawa (Ganye,Yola, Girei,Song, Madagali & Gombi)
- **Mild dry spell** might persist for less than 8 days in part of Adamawa (Toungo)



**PREDICTED ONSET AND CESSATION DATES, LENGTH OF GROWING SEASON
AND SEASONAL AMOUNT OF RAINFALL FOR Adamawa STATE**

Local Government Areas	Onset	End of Season	Length of Season	Annual Rainfall (mm)
Demsa	22-May	21-Oct	153	1095
Fufore	7-May	23-Oct	169	1140
Ganye	27-Apr	29-Oct	185	1310
Girie	20-May	15-Oct	148	965
Gombi	10-May	21-Oct	165	1093
Guyuk	15-May	18-Oct	156	1020
Hong	21-May	14-Oct	146	951
Jada	30-Apr	27-Oct	180	1251
Jimeta	8-May	22-Oct	168	1124
Lamurde	12-May	20-Oct	161	1066
Madagali	29-May	10-Oct	134	879
Maiha	15-May	18-Oct	155	1016
Mayo-Bel	2-May	26-Oct	177	1214
Michika	25-May	12-Oct	139	908

Local Government Areas	Onset	End of Season	Length of Season	Annual Rainfall (mm)
Mubi North	22-May	14-Oct	145	943
Mubi South	20-May	15-Oct	148	961
Numan	10-May	21-Oct	163	1082
Shelleng	17-May	17-Oct	153	1001
Song	15-May	18-Oct	156	1021
Toungo	25-Apr	1-Nov	193	1410
Yola North	22-May	21-Oct	151	1122
Yola South	21-May	21-Oct	151	1135