



Kenya Agricultural and Livestock Research Organization &

Crop Calendar for Selected Crops and Counties

1. Maize – Nakuru, Kericho and Uasin Gishu
2. Soya bean – Homa Bay, Migori
3. Sorghum – Bugoma
4. Potatoes – Marakwet, Nyandarua
5. Sunflower – Migori, Meru
6. Green grams – Makueni, Kitui and Embu

As requested KALRO has developed agronomic thresholds and content for the following growth stages: establishment/germination, vegetation, flowering and harvesting of the six priority crops. Four parameters were considered that is temperature, humidity, weekly and seasonal precipitation with reference to FAO (<http://www.fao.org/agriculture/seed/cropcalendar/> visited on 4th Oct 2021).

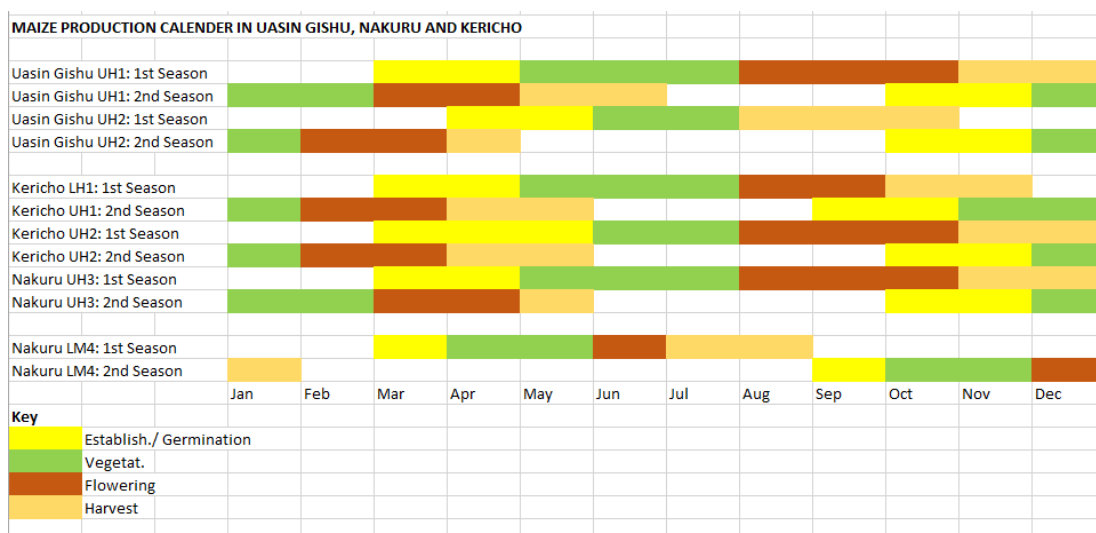
Table 1. The six priority crops, varieties and agro ecological zones where they are grown in the target counties

No.	Crop	County	Variety	Agro ecological zone
1.	Maize	Nakuru, Kericho and Uasin Gishu	Various	UH1, UH2, LH1, UH3, LM4
2.	Soya bean	Homa Bay, Migori	DPSB 19, Gazelle	UM4, LM4, LM3
3.	Sorghum	Bungoma	Gadam	LM1, LM2, LM3
4.	Potatoes	Marakwet and Nyandarua	Shangi	UH1, UH2, UM4, LH1, LH2, LH3, LH1, LH4, UM1
5.	Sunflower	Migori, Meru	Kenya Fedha, H8998	UM4, LM4, LM3

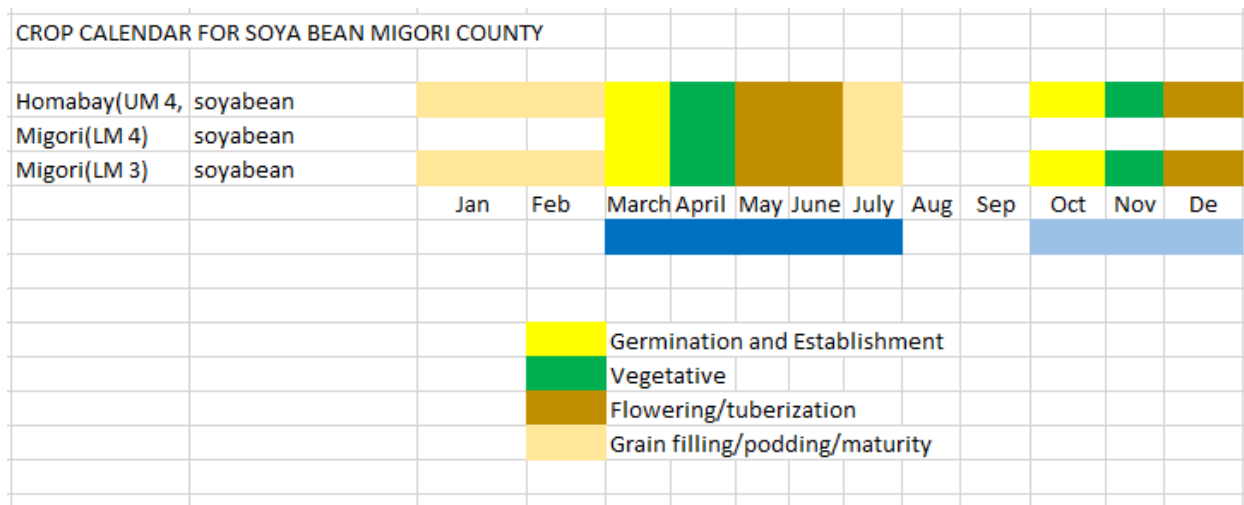
6.	Green grams	Makueni Kitui and Embu	N26, KS20	LM3,LM4, LM5
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The following are the modified Crop Calendars for the six priority crops in various counties.

1. Maize calendar for selected Counties - Uasin Gishu, Kericho and Nakuru Counties

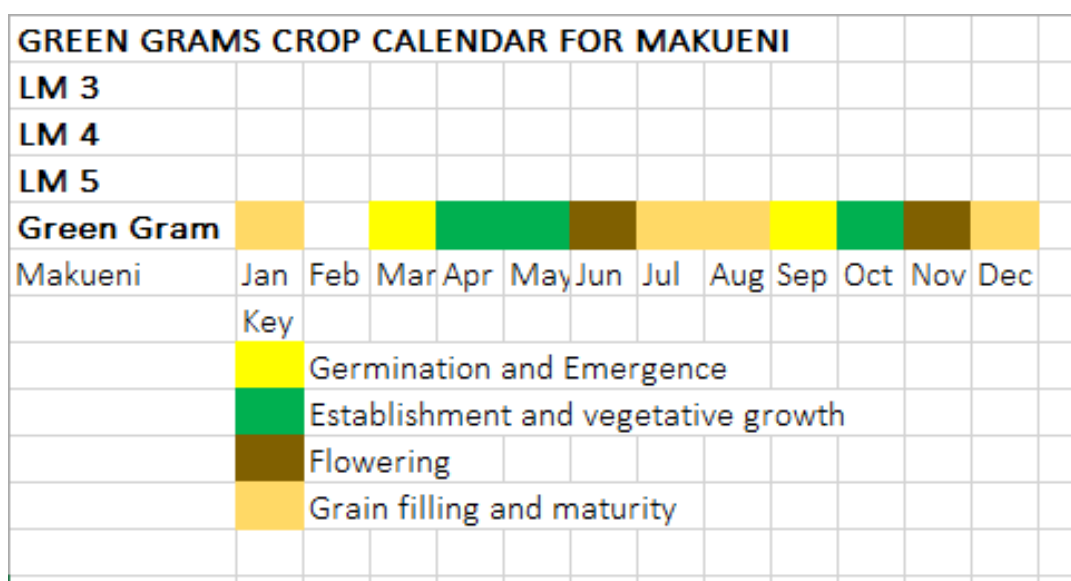


2. Soya bean calendar for Migori and Homa Bay County



3. Sorghum calendar for Bungoma County

6. Green gram crop calendar for Makueni County



Maize crop duration, GDD and coefficient

Crop	Variety	Zone	Target County	First season			Second season			GDD	Crop coefficient
				Planting date window	Harvesting date window	Duration (days)	Planting date window	Harvest date	Duration (days)		
Maize		LH1	Kericho	28/02	01/09	180-270	30/09	30/06	180-210	2,525	0.82
		LH2	Kericho	01/08	01/01	180-270	31/03	20/12	80-280	1,815	0.52
		LH3	Kericho	01/10	01/05	180-270	15/03	15/09	150-180	2,145	0.88
		LH4	Nakuru	15/03	01/08	110-150	01/09	01/01	100-150	1,615	0.58
		UH1	Uasin Gishu	31/03	20/12		31/10	31/07	120-270	2,525	0.83
		UH2	Uasin Gishu	25/03	01/10	180-270	15/10	01/05	110-120	2,260	0.76

Soya bean crop duration, GDD and coefficient

				First season (long rains)			Second season (short rains)				
Crop	Variety	Target County	Zone	Planting date window	Harvesting date window	Duration (Days)	Planting date window	Harvesting date	Duration (Days)	Growing Degree Days	
Soybean	DPSB 19	Migori	LM3	01/03 to 31/03	15/06 to 31/07	100-130	15/10 to 31/10	01/02 to 28/2	100 to 130	2150 -3300	
Soybean	Gazelle	Homabay	LM4	15/03 to 31/03	01/07 to 31/07	100-130	15/10 to 31/10	15/02 to 10/03	100-130		
Soybean	DPSB 19	Homabay	UM4, LM3, UM3	15/ 03 to 31/03	01/07 to 31/07	100-130	15/10 to 31/10	15/02 to 10/03	100-130		

Sorghum crop duration, GDD and coefficient

Crop	Variety	Zone	Target County	First season			Second season				
				Planting date window	Harvesting date window	Duration (days)	Planting date window	Harvest date	Duration (days)	GDD	Crop coefficient
Sorghum	Gadam	LM1	Bungoma	01/04	15/07	90-120	15/04	15/08	90-120	1,355	
		LM2	Bungoma	15/03	01/07	85-115	31/03	15/08	100-150	1,615	0.61
		LM3	Bungoma	01/10	15/01	85-115	31/10	15/02	100-150	1,615	0.64

Potato crop duration, GDD and coefficient

Crop	Variety	Zone	Target County	First season(long rains)			Second season(short rains)			
				Planting date window	Harvesting date window	Duration (Days)	Planting date window	Harvesting date	Duration	GDD
Potato	Shangi	UH1	Elgeyo Marak wet	01/03 to 15/04	15/06 to 31/08	106 to 137	15/10 to 31/10	15/01 to 31/03	92 to 151	1157
		UH2		15/03 to 31/03	15/06 to 31/08	92 to 153	15/08 to 15/10	15/11 to 15/03	92 to 151	1167
		UM4		15/03 to 31/03	15/06 to 15/07	92 to 106	X	X	X	939
		LH2		01/03 to 31/03	01/06 to 31/08	91 to 153	01/08 to 31/10	01/11 to 31/03	91 to 151	1157
		LH2		01/03 to 15/04	01/06 to 15/09	91 to 153	01/08 to 15/09	01/11 to 15/02	91 to 154	1167
		LH3		15/03 to 31/03	15/06 to 31/08	92 to 154	01/08 to 15/09	01/10 to 15/04	60 to 212	1376
	Shangi	LH1	Nyandarua	01/03 to 31/03	01/06 to 31/08	91 to 153	01/08 to 31/10	01/11 to 31/03	91 to 151	1157
		LH3		15/03 to 31/03	15/06 to 31/08	91 to 153	01/08 to 15/09	01/10 to 15/04	60 to 212	1366
		LH4		01/04 to 15/04	15/07 to 15/09	105 to 153	01/08 to 31/08	01/11 to 31/01	91 to 153	1195
		UH1		15/03 to 31/03	15/06 to 31/08	91 to 153	15/10 to 31/10	15/01 to 31/03	92 to 151	1157
		UH2		15/03 to 31/03	15/06 to 31/08	91 to 153	15/08 to 15/10	15/11 to 15/03	92 to 151	1157
		UMI		15/03 to 31/03	15/06 to 15/07	91 to 106				934

Sunflower crop duration, GDD and coefficient

Crop	Zone	Target County	First season (long rains)			Second season (short rains)			
			Planting date window	Harvesting date window	Planting date window	Harvesting date	Duration	GDD	Crop Coefficient
Sunflower Kenya Fedha and H8998	LM2	Migori	15/2 to 15/06	15/06 to 01/07	01/10 to 01/01	01/01 to 15/01	100-130	2350-3000	1.10
	LM3	Migori	01/03 to 01/07	01/07 to 15/07	15/10 to 15/01	15/01 to 31/01	100-130		
	LM4	Migori	15/03 to 15/07	15/07 to 31/07	15/10 to 15/01	15/01 to 31/01			
Sunflower Kenya Fedha and H8998	LM2	Meru	15/2 to 15/06	15/06 to 01/07	01/10 to 01/01	01/01 to 15/01	100-130	2350-3000	1.10
	LM3	Meru	01/03 to 01/07	01/07 to 15/07	15/10 to 15/01	15/01 to 31/01	100-130		
	LM4	Meru	15/03 to 15/07	15/07 to 31/07	15/10 to 15/01	15/01 to 31/01	100-130		

Green grams crop duration, GDD and coefficient

Crop	Variety	Zone	Target County	First season(long rains)			Second season(short rains)		
				Planting date window	Harvesting date window	Duration (Days)	Planting date window	Harvesting date	Duration (Days)
Green gram	N 26 & KS 20	LM3	Makueni	01/03 to 31/03	1/06 to 30/06	75 to 110	1/09 to 15/10	15/01 to 30/01	75 to 110
Green gram	N 26 & KS 20	LM4	Makueni	15/03 to 31/03	15/06 to 15/07		15/10 to 31/10	1/01 to 15/02	
Green gram	N 26 & KS 20	LM 5	Makueni	15/03 to 31/03	15/06 to 30/06		15/10 to 31/10	1/01 to 31/01	