



Ministry of Agriculture and Livestock Development
State Department for Livestock Development
P.O. Box 30028 Nairobi



Emergency Locust Response Program
P.O. Box 30028,
Nairobi



Kenya Agricultural & Livestock Research Organization
P.O. Box 57811-00200,
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Kenya Climate Smart Agriculture Project
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Guidelines on Sustainable Ruminant Feeds and Nutrition Security for Kenya

CHAPTER 5 FEED AND NUTRITION SECURITY OUTPUTS, OUTCOMES AND IMPACTS

APPENDICES

Appendix 1. Per capita demand and supply of animal products

Year	Human population		
2019	47, 584, 263		
2025	59, 981, 314		
2030	66, 449, 654		
Current and projected Per capita consumption of dairy food products			
	Dairy Cattle	Dairy Goats	Beef
Per capita consumption (WHO)	200	2	9
Demand of animal products			
Required 2019	5,234,268,930	95,168,526.00	408,000,000
Required 2025	8,997,197,100	119,962,628.00	514,295,579
Required 2030	9,967,448,100.00	132,899,308.00	797,395,848
Supply of animal products			
Produced 2019	4,200,000,000	34,312,500	408,000,000
Produced 2025	10,749,311,784	119,962,628	719,775,768
Produced 2030	16,109,310,125	132,899,308	877,135,433



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Appendix 2. Feed balance by County

County	Actual feed availability and use as DM (MT)	Livestock DM requirement as DM (MT)	Feed balance as DM based on actual feed availability and use (%)
Isiolo	681,759.90	934,303.00	-27
Tana River	1,302,760.20	1,126,815.20	15.6
Mandera	480,598.30	5,908,617.00	-92
Wajir	1,359,466.20	4,165,370.40	-67.4
Garissa	1,223,573.80	4,150,103.60	-70.5
Marsabit	1,269,229.00	2,683,134.80	-52.7
Samburu	559,140.80	656,448.90	-14.8
Turkana	1,498,228.90	85,43,141.2	-82.5
Narok	1,339,777.30	2,928,223.50	-54.2
Baringo	459,071.40	1,132,105.60	-59.4
Laikipia	286,584.90	542,852.00	-47.2
West Pokot	390,964.10	1,112,180.10	-64.8
Kajiado	905,438.80	1,381,552.80	-34.5
Nyeri	154,703.10	342,888.50	-55
Makueni	349,853.00	687,291.60	-49.1
Embu	253,843.90	384,577.70	-34
Tharaka Nithi	533,611.10	309,327.70	72.5
Meru	285,038.00	887,262.80	-68
Kitui	336,519.50	1,052,278.60	-68
Taita/Taveta	255.388.6	331,609.10	-23
Lamu	147,232.60	378,595.80	-61.1
Kilifi	340,251.70	476,591.50	-28.6
Kwale	253,903.70	412,929.80	-38.5
Nairobi	40,567	66,641.90	-39.1
Mombasa	5,183.90	12,648.62	-59
Machakos	217,873.18	943,115.30	-76.9
Kiambu	527,835.40	574,317.40	-8
Muranga	306,834.10	496,101.20	-38.2
Nyandarua	309,998.00	726,350.00	-57.3
Kirinyanga	284,570.20	229,272.20	24.1



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Appendix 2. Feed balance by County

Nakuru	1,330,928.70	1,486,901	-10.5
Bomet	187,248.95	678,416	-72.4
Nandi	233,266.30	647,437.70	-177.6
Kericho	195,565.90	691,329.60	-71.7
Elgeyo Marakwet	531,106.60	751,678.50	-29
Uasin Gishu	820,216.80	678,502.40	20.8
Trans-Nzoia	555,599.80	366,758.80	51.5
Kisii	545,862.90	504,232.70	8.3
Nyamira	239,431.30	273,450.50	-12.4
Migori	426,223.00	810,158.90	-47.4
Kisumu	609,028.40	440,692.80	38.2
Siaya	259,368	727,412.83	-64.3
Homabay	1058563.8	1532695.7	-31
Kakamega	408,273.30	780,537.70	-47.7
Bungoma	464,415.50	683,339.40	-32
Vihiga	168,760.00	289,556.80	-41.7
Busia	118,325.60	369,700	-68

National Feed Balance for Kenya

Country	Feed balance					
	Based on potential feed availability (%)			Based on actual feed availability and use (%)		
	Dry matter	Metabolisable energy	Crude protein	Dry matter	Metabolisable energy	Crude protein
ASAL	-28.9	-51.2	-9.7	-63.9	-75.3	-56.3
Non-ASAL	13	-36.6	-33.8	-33.3	-57.6	-60.8
National	-17.7	-36.6	-33.9	-55.8	-57.4	-60.7



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Appendix 3. Livestock mortalities due to drought by County

County	Species	Livestock Population	Livestock Deaths	Livestock Mortalities (%)
Marsabit	Sheep	1,052,437	511,054	49
Marsabit	Cattle	268,882	122,780	46
Marsabit	Goats	1,208,668	535,972	44
Kajiado	Cattle	652,856	258,854	40
Isiolo	Cattle	285,210	112,500	39
Marsabit	Camels	283,327	82,841	29
Isiolo	Goats	850,000	212,500	25
Samburu	Cattle	369,399	73,879	20
Isiolo	Sheep	1,198,000	179,700	15
Samburu	Sheep	651,787	97,768	15
Wajir	Sheep	2,231,725	265,286	12
Wajir	Cattle	893,032	89,942	10
Kajiado	Sheep	1,244,854	121,020	10
Wajir	Goats	3,190,511	237,777	7
Taita	Cattle	175,349	11,643	7
Laikipia	Sheep	364,951	20,000	5
Samburu	Goats	826,119	41,305	5
Wajir	Camels	1,184,033	44,079	4
Wajir	Donkeys	169,527	7,364	4
Total		17,100,667	2,490,292	14.56



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Appendix 4. Livestock numbers and TLUs by County

County	Livestock Type	Livestock Numbers	Total TLUs
Isiolo	Cattle	293162	205213.4
	Sheep	669354	66935.4
	Goat	738442	73844.2
	Donkey	28109	14054.5
	Camel	49510	49510
	Total	1778577	409557.5
Tana River			
Mandera	Cattle	863625	604537.5
	Sheep	1164238	116423.8
	Goat	3415484	341548.4
	Donkey	208126	104063
	Camel	1016790	1423506
	Total	6668263	2590078.7
Wajir	Cattle	751725	
	Sheep	625824	
	Goat	1597562.00	
	Donkey	160604	
	Camel	667,487	
	Total	3803202	
Garissa	Cattle	982938	688056.6
	Sheep	994684	99468.4
	Goat	1916190	191619
	Donkey	196453	98226.5
	Camel	529895	741853
	Total	4620160	1819223.5
Marsabit	Cattle	286671	200669.7
	Sheep	2686049	268604.9
	Goat	1671737	167173.7
	Donkey	122642	61321
	Camel	317223	317223



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Appendix 4. Livestock numbers and TLUs by County

	Total	5084322	1014992.3
Samburu	Cattle	168721	118104.7
	Sheep	413807	41380.7
	Goat	807805	80780.5
	Donkey	17893	8946.50
	Camel	38546	38546.00
	Total	1446772	287758.40
Turkana	Cattle	1932108	1352475.6
	Sheep	3968848	396884.8
	Goat	6033152	603315.2
	Donkey	748254	374127
	Camel	1018136	1018136
	Total	13700498	3744938.6
Narok			
Baringo	Cattle	487155	341008.5
	Sheep	372635	37263.5
	Goat	901878	90187.8
	Donkey	9143	4571.5
	Camel	10192	10192
	Total	1781003	483223.3
Laikipia			
West Pokot	Cattle	518,900.0	363,230.0
	Sheep	540,600.0	54,060.0
	Goat	570,960.0	57,096.0
	Donkey	14,010.0	7,005.0
	Camel	6,140.0	6,140.0
	Total	1,650,610.0	487,531.0
Kajiado			
Nyeri	Cattle	181,982.00	127,387.40
	Sheep	125,899.00	12,589.90



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Appendix 4. Livestock numbers and TLUs by County

	Goat	94,722.00	9,472.20
	Donkey	1,717.00	858.50
	Camel	0	0
	Total	404,320.00	150,308.00
Makueni	Cattle	265095	185566.5
	Sheep	118485	11848.5
	Goat	670885	67088.5
	Donkey	73550	36775
	Camel	0	0
	Total	1128015	301278.5
Embu	Cattle	194361	136052.7
	Sheep	59261	5926.1
	Goat	255112	25511.2
	Donkey	2178	1089
	Camel	3	3
	Total	510915	168582
Tharaka Nithi	Cattle	146451	102515.7
	Sheep	77970	7797
	Goat	223380	22338
	Donkey	5890	2945
	Camel	0	0
	Total	453691	135595.7
Meru			
Kitui	Cattle	431389	
	Sheep	81585	
	Goat	906591.00	
	Donkey	121022	
	Camel	0	
	Total	1540587	
Taita/Taveta	Cattle	169536	118675.2
	Sheep	45450	4545
	Goat	179769	17976.9



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Appendix 4. Livestock numbers and TLUs by County

	Donkey	2194	1097
	Camel	2192	3068.8
	Total	399141	145362.9
Lamu	Cattle	251,516	176061.2
	Sheep	27,095	2709.5
	Goat	162,988	16298.8
	Donkey	6546	3273
	Camel	5	7
	Total	448,150	198349.5
Kilifi	Cattle	251,516	176061.2
	Sheep	48,284	4828.4
	Goat	274,205	27420.5
	Donkey	941	470.5
	Camel	33	46.2
	TOTAL	574,979	208826.8
Kwale	Cattle	196463	137524.1
	Sheep	54578	5457.8
	Goat	363061	36615.9
	Donkey	1145	572.5
	Camel	600	840
	Total	615847	181010.3
Nairobi	Cattle	32,855	22,998.50
	Sheep	15,303	1,530.30
	Goat	35,088	3,508.80
	Donkey	1,131	791.7
	Camel	274	383.6
	Total	84,651	29,212.90
Mombasa	Cattle	5,683	3,978.10
	Sheep	803	80.3
	Goat	14,462	1,446.20
	Donkey	20	14
	Camel	16	22.4
	Total	20,984	5,541.00



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Machakos	Cattle	485,952	340,166.40
	Sheep	154,196	15,419.60
	Goat	412,108	41,210.80
	Donkey	23,348	16,343.60
	Camel	200	280
	Total	1,075,804	413,420.40
Kiambu	Cattle	314,036	219,825.20
	Sheep	137,772	13,777.20
	Goat	98,057	9,805.70
	Donkey	11,925	8,347.50
	Camel	0	-
	Total	561,790	251,755.60
Muranga	Cattle	283,436	198,405.20
	Sheep	46,055	4,605.50
	Goat	140,824	14,082.40
	Donkey	537	375.9
	Camel	0	-
	Total	470,852	217,469.00
Nyandarua	Cattle	374,685	262,280
	Sheep	376,215	37,622
	Goat	114,960	11,496
	Donkey	9,985	6,990
	Horses	15	14
	Total	875,860	318,402
Kirinyanga	Cattle	125,347	87,742.90
	Sheep	18,121	1,812.10
	Goat	74,500	7,450.00
	Donkey	4,997	3,497.90
	Camel	0	0
	Total	222,965	100,502.90
Nakuru	Cattle	758,916	531,241.20
	Sheep	554,044	55,404.40
	Goat	324,015	32,401.50



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	Donkey	46,348	32,443.60
	Camel	0	0
	Total	1,683,323	651,490.70
Bomet	Cattle	370,955	259,668.50
	Sheep	105,970	10,597.00
	Goat	73,411	7,341.10
	Donkey	28,259	19,781.30
	Camel	0	0
	Total	578,595	297,387.90
	Nandi	Cattle	325,320
Sheep		267,924	26,792.40
Goat		219,307	21,930.70
Donkey		10,516	7,361.20
Horses		0	0
Total		823,067	283,808
Kericho	Cattle	394,749	276,324.30
	Sheep	62,683	6,268.30
	Goat	83,180	8,318
	Donkey	17,340	12,138
	Camel	0	0
	Total	557,952	303,048.60
Elgeyo Marakwet	Cattle	371,474	260,031.80
	Sheep	358,379	35,837.90
	Goat	302,221	30,222.10
	Donkey	4,673	3,271.10
	Camel	100	140
	Total	1,036,847	329,502.90
Uasin Gishu	Cattle	382,980	268,086
	Sheep	170,762	17,076.20
	Goat	86,963	8,696.30
	Donkey	5,081	3,556.70
	Camel	3	4.2
	Total	645,789	297,419



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Trans-Nzoia	Cattle	198,520	138,964
	Sheep	122,280	12,228
	Goat	33,210	3,321
	Donkey	8,940	6,258
	Camel	0	0
	Total	362,950	160,771
Kisii	Cattle	290,953	203,667.10
	Sheep	44,192	4,419.20
	Goat	108,521	10,852.10
	Donkey	2,993	2,095.10
	Camel	0	0
	Total	446,659	221,033.50
Nyamira	Cattle	159,262	111,483.40
	Sheep	19,227	1,922.70
	Goat	46,993	4,699.30
	Donkey	1,123	786.1
	Camel	0	0
	Total	226,605	118,891.50
Migori	Cattle	392,505	274,754
	Sheep	337,827	33,783
	Goat	404,294	40,429
	Donkey	4,682	3,277
	Camel	0	0
	Total	1,139,308	352,243
Kisumu	Cattle	224,610	157,227
	Sheep	181,490	18,149
	Goat	147,410	14,741
	Donkey	4,357	3,049.90
	Camel	0	0
	Total	557,867	193,167
Siaya	Cattle	379459	265621.3
	Sheep	165022	16502.2
	Goat	308442	30844.2



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	Donkey	8426	5898.2
	Horses	0	0
	Total	861349	318865.9
Homabay	Cattle	801,349	560944.3
	Sheep	437,569	43756.9
	Goat	552,927	55292.7
	Donkey	16961	11872.7
	Camel	0	0
	Total	1,808,806	671866.6
	Kakamega	Cattle	446,393
Sheep		138,978	13,897.80
Goat		117,479	11,747.90
Donkey		5,761	4,032.70
Camel		0	0
Total		708,611	342,153.50
Bungoma	Cattle	387,478	271,234.60
	Sheep	126,209	12,620.90
	Goat	122,942	12,294.20
	Donkey	4,852	3,396.40
	Camel	0	0
	Total	641,481	299,546.10
Vihiga	Cattle	1,78,470	124,929
	Sheep	4,800	480
	Goat	13,100	1,310.00
	Donkey	300	210
	Camel	0	0
	Total	18200	126,929
Busia	Cattle	446,393	312,475.10
	Sheep	138,978	13,897.80
	Goat	117,479	11,747.90
	Donkey	5,761	4,032.70
	Camel	0	0
	Total	708,611	342,153.50



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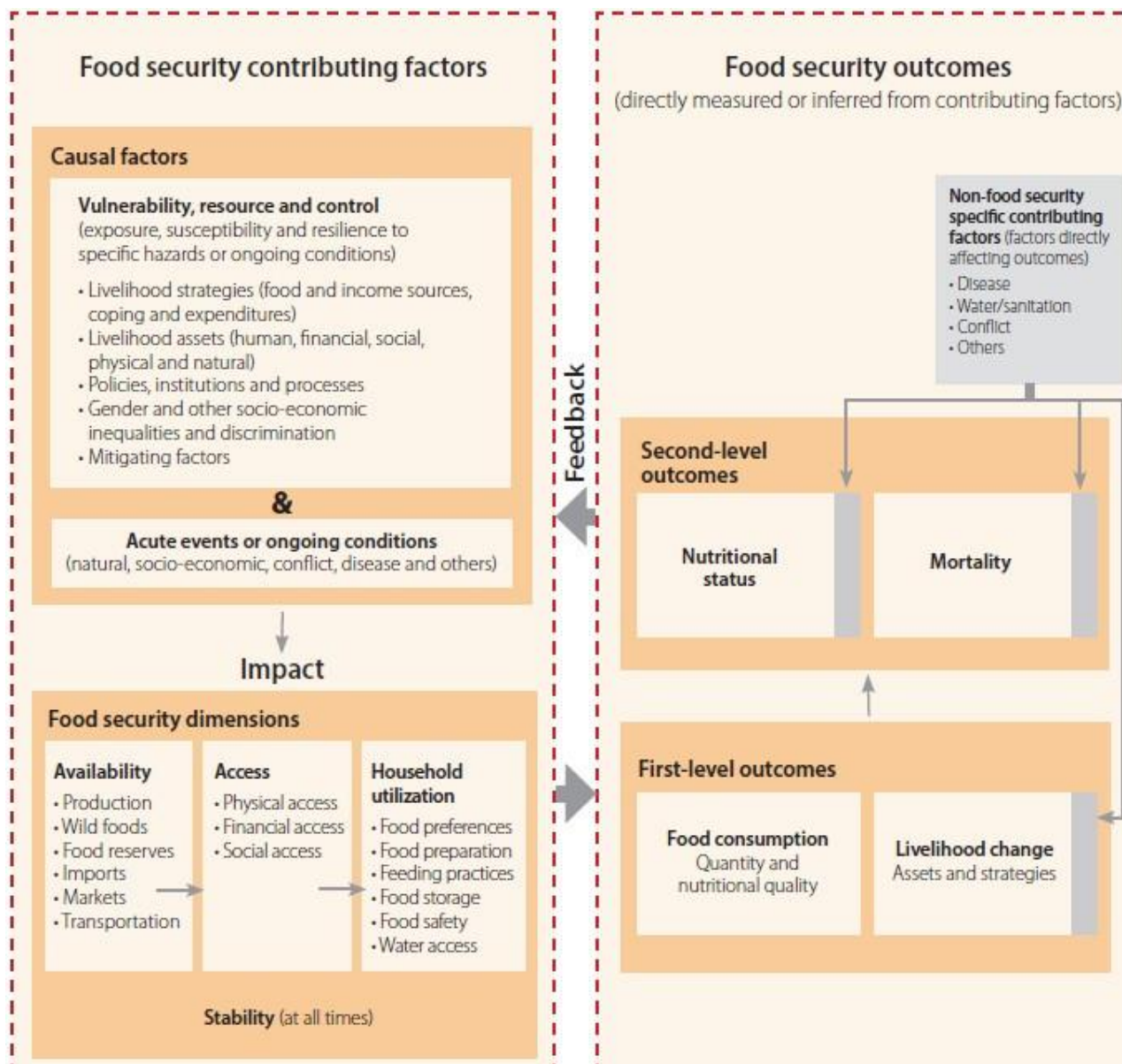


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Appendix 5. Integrated Food Security classification food security analytical framework





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Appendix 6. Body condition scoring

Body condition score	Description of condition	Weight change needed (ppounds) to reach optimal condition before calving
1	Emaciated	Gain 350
2	Very thin	Gain 300-350
3	Thin	Gain 200-300
4	Borderline	Gain 150-200
5	Moderate	Gain weight of fetus only (100 pounds)
6	Good	Gain weight of fetus only (100 pounds)
7	Fleshy	No weight gain needed
8	Fat	Can probably lose 100 pounds
9	Extremely fat	Can probably lose 150 pounds



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Guidelines on Sustainable Ruminant Feeds and Nutrition Security for Kenya

Appendix 7. Pasture condition scoring

Score	Description
Score 1. Poor	Sparse vegetation cover with significant bare ground.
	Weeds dominate the pasture.
	Grasses are stunted, weak, and lack vigor.
	Very low productivity and forage availability.
Score 2. Fair	Some vegetation cover, but still noticeable bare ground.
	Moderate weed presence.
	Grasses show moderate vigor and growth.
	Moderate productivity and forage availability
Score 3. Good	Adequate vegetation cover with minimal bare ground.
	Few weeds present.
	Grasses are healthy, vigorous, and actively growing.
	Good productivity and forage availability.
Score 4. Very Good	Dense vegetation cover with minimal bare ground.
	Negligible weed presence.
	Grasses exhibit excellent vigor, uniform growth, and high leaf density.
	Very high productivity and abundant forage availability.

Pasture condition scoring is a method used to assess the quality and health of pastureland. It involves evaluation of various factors such as grass species composition, density, height, vigour, and weed presence.