

Annexes

Annex 1: Tables

Tables of average milk production per household, main system for keeping cattle now and 10 years ago, land size, percentage of households keeping local or improved animals, percentage of cropped land, percentage of households hiring labour for dairy activities, percentage of purchased feed, percentage of cash from sale of animals in total income, main milk outlet, net cash flows per farm, per cow and per ton of milk produced and returns to labour per farm, per cow and per to of milk produced.

Total milk production per district (data from the MoA):

Districts	Total milk production (Kg)
KIAMBU	132 473 456
NYANDARUA	84 844 310
NAKURU	71 970 729
MACHAKOS	67 173 757
MURANGA	60 661 455
KIRINYAGA	56 561 483
NAROK	46 713 945
NAIROBI	0

Average milk production per household

Division	Average milk production (litres)	Std. Dev.
Kandara	5.74	5.31
Kangema	6.24	7.54
Kiharu	3.43	3.24
Gichugu	4.99	4.80
Ndia	4.76	4.15
Kasarani	22.44	37.22
Kangundo	3.13	3.46
Mwala	4.29	7.38
Kinangop	20.23	24.30
OI_Kalou	15.42	19.89
Bahati	5.66	4.68
Molo	13.84	17.81
Njoro	13.01	12.95
Rongai	14.45	26.46
Mau	8.27	8.39
Githunguri	7.54	9.95
Kiambaa	6.08	5.57
Kikuyu	4.82	7.35
Lari	5.95	6.16
Limuru	4.77	5.85
<i>Mean</i>	<i>8.75</i>	

Current main reported system for keeping cattle: percentage of households in each category

Division	System for keeping cattle			
	only grazing	Mainly grazing	only stall feeding	mainly stall feeding
Kandara	0	0	90	10
Kangema	19	19	49	13
Kiharu	5	10	72	13
Gichugu	12	23	50	15
Ndia	0	12	74	14
Kasarani	0	27	73	0
Kangundo	30	19	38	13
Mwala	59	28	13	0
Kinangop	6	82	4	8
OI_Kalou	43	40	7	10
Bahati	11	27	43	19
Molo	21	48	19	12
Njoro	30	44	9	17
Rongai	59	35	4	2
Mau	97	3	0	0
Githunguri	10	8	64	18
Kiambaa	11	6	83	0
Kikuyu	7	11	82	0
Lari	49	17	30	4
Limuru	6	13	71	10
Number of divisions where the system is dominant	5	3	12	0

Main system for keeping cattle 10 years ago: percentage of households in each category

Division	System for keeping cattle			
	only grazing	Mainly grazing	only stall feeding	mainly stall feeding
Kandara	0	2	91	7
Kangema	39	7	47	7
Kiharu	9	8	72	11
Gichugu	53	6	22	19
Ndia	11	14	58	17
Kasarani	80	0	20	0
Kangundo	36	26	21	17
Mwala	70	30	0	0
Kinangop	6	82	4	8
OI_Kalou	54	36	5	5
Bahati	22	19	46	13
Molo	44	34	14	8
Njoro	85	3	2	10
Rongai	66	29	5	0
Mau	100	0	0	0
Githunguri	18	15	49	18
Kiambaa	50	7	36	7
Kikuyu	29	18	53	0
Lari	69	16	15	0
Limuru	33	22	33	12
Number of divisions where the system is dominant	12	1	7	0

Land size (in acres)

Division	Land size	Std. Dev.
Kandara	3.10	5.64
Kangema	3.40	3.54
Kiharu	2.87	2.99
Gichugu	4.20	3.85
Ndia	3.32	3.01
Kasarani	7.09	20.28
Kangundo	7.29	8.82
Mwala	13.03	14.13
Kinangop	17.23	24.48
OI_Kalou	8.59	10.90
Bahati	2.02	2.31
Molo	5.76	5.92
Njoro	4.41	6.63
Rongai	9.45	14.45
Mau	19.11	24.07
Githunguri	2.52	2.34
Kiambaa	2.53	2.03
Kikuyu	2.01	2.33
Lari	3.61	3.25
Limuru	3.09	2.63
Mean	6.23	

Breed: percentage of households keeping local, cross-bred and pure grade animals

Division	Local	Cross-Bred	Pure Grade
Kandara	0	26	74
Kangema	0	12	86
Kiharu	1	20	71
Gichugu	0	82	12
Ndia	7	43	45
Kasarani	9	0	91
Kangundo	79	2	7
Mwala	72	3	0
Kinangop	0	46	54
OI_Kalou	0	37	60
Bahati	11	36	48
Molo	0	27	71
Njoro	5	54	41
Rongai	12	61	23
Mau	71	23	0
Githunguri	0	65	31
Kiambaa	5	52	33
Kikuyu	7	56	30
Lari	0	51	43
Limuru	6	15	64
Number of divisions where the breed is dominant	3	7	10

Sums of percentages do not always equal to 100 because of households who keep more than one breed.

Percentage of cropped land

Division	Percentage of cropped land	Std. Dev.
Kandara	99	1
Kangema	97	8
Kiharu	96	11
Gichugu	99	2
Ndia	99	3
Kasarani	100	0
Kangundo	98	7
Mwala	87	20
Kinangop	72	32
OI_Kalou	89	14
Bahati	98	8
Molo	84	24
Njoro	93	15
Rongai	89	16
Mau	98	6
Githunguri	100	0
Kiambaa	100	0
Kikuyu	100	0
Lari	100	0
Limuru	100	0
Mean	94.9	

Labour for dairy activities: percentage of households in the division hiring at least one labourer mainly for dairy activities

Division	Percentage of households
Kandara	15
Kangema	25
Kiharu	13
Gichugu	20
Ndia	11
Kasarani	36
Kangundo	16
Mwala	35
Kinangop	38
OI_Kalou	12
Bahati	13
Molo	17
Njoro	36
Rongai	22
Mau	36
Githunguri	16
Kiambaa	27
Kikuyu	24
Lari	18
Limuru	23
Mean	22.6

Percentage of purchased feed in total feed:

Division	%	Std. Dev.
Kandara	60	40
Kangema	38	43
Kiharu	47	39
Gichugu	51	48
Ndia	70	43
Kasarani	35	46
Kangundo	83	37
Mwala	33	46
Kinangop	49	43
OI_Kalou	43	45
Bahati	54	46
Molo	61	42
Njoro	53	35
Rongai	41	44
Mau	0	0
Githunguri	87	21
Kiambaa	67	40
Kikuyu	68	41
Lari	84	26
Limuru	85	19
Mean	55.4	