

Table A1.2 Number of households (1989 census) for survey sub-locations

Cluster	District	Sub-location	Total	Total	Sample		
			Population	Households	Calculated	Sampled	
3	Bungoma	Kimilili Township	5,949	1,402	105	59	
		Kimilili	14,557	2,590	19	19	
		Kamukuywa	16,944	2,938	19	19	
		South Nalondo	17,029	2,,479	12	15	
		Kibingei	18,121	3,098	19	19	
	Kakamega	Surungai	3,221	551	5	15	
		Samitsi	8,271	1,301	11	15	
	Kisii	Bomariba	12,135	2,306	25	27	
	Nandi	Ndubeneti	1,927	361	8	15	
		Lelwak	2,070	374	8	15	
		Songoliet	2,386	420	8	15	
		Kapchorwa	7,770	1,237	8	15	
		Chepkongony	8,286	1,922	18	18	
	Rachuonyo	Kawere Kamagak	5,780	1,155	13	15	
Kachieng		6,179	1,292	17	16		
4	Kakamega	Shisejeri	5,560	961	50	57	
		Shitoli	6,783	1,321	39	41	
		Musoli	7,478	1,429	28	28	
		Shibuname	7,550	1,588	52	52	
		Shivagala	10534	2,119	49	49	
	Nyamira	Mwabundusi	7,020	1,291	41	41	
		Boikeira	15,869	2,794	27	26	
	Vihiga	Gimamoi	4,767	852	43	31	
		Kapsotik	5,740	1,002	42	42	
		Gavudunyi	7,909	1,437	44	45	
		Magui	3,469	618	52	50	
		Mahanga	5,815	1,072	47	47	
		Mbihi	6,591	1,244	84	60	
	5	Kakamega	Shikulu	7,958	1,519	24	23
		Kisii	Bogitaa	5,572	1,151	19	20
			Bomokora	7,436	1,464	23	23
			Bomorenda	14,001	2,646	44	44
Nyamira		Magwagwa	8,878	1,521	21	26	
Rachuonyo		Kakangutu West	2,882	637	12	16	
		North Kachien	3,513	574	11	17	
		Kajiel	2,670	547	11	18	
		Kamser Seka	4,870	885	17	17	
		Kanyapir	4,376	856	19	19	
5	Rachuonyo	Komulo Njira	3,325	693	42	42	
6	Bungoma	West Nalondo	13,728	2,155	16	15	

Cluster District	Sub-location	Total	Total	Sample	
		Population	Households	Calculated	Sampled
	North Nalondo	14,353	2,182	13	15
Kisii	Kiamokama	4,914	938	43	42
	Mogweko	5,455	891	29	34
	Boguche	5,772	959	25	16
	Ichuni	6,580	1,253	39	40
	Metembe	10,237	1,807	23	23
Nandi	Kaptildil	2,439	403	6	15
	Arwos	3,020	520	12	15
	Cheboite	5,777	899	11	15
Nyamira	Girango	8,474	1,504	30	29
	Bomwagamo	11,587	2,097	24	24
	Bocharia	14,579	2,789	45	45
	Bonyaruande	14,826	2,503	27	27
	Mwagechure	16,196	2,766	30	30
Vihiga	Gimarakwa	4,777	851	31	43
	Chagenda	3,990	788	16	16
Totals			72,249	1,556	1,575
Percentages				2.15	2.18

Annex 2 Feedback from research teams

Farmers' feedbacks were carried out in two sites per district from Monday 23rd October to Thursday 2nd November 2000. Staff feedback review meeting held at the Naselica hotel in Kisumu 23rd to 24th may 2001.

The way forward:

The participants agreed that future reviews of survey findings should be shared with a larger group of sector stakeholders, so as to have a more conclusive discussion on the way forward. Notable exclusions in the meeting were the veterinary section (private and public), and other developmental organizations in the region (NGO's, Lake Basin Development Authority, etc). After extensive discussions the following were identified as constraints and the expected players to address them through suggested opportunities.

	CONSTRAINT	OPPORTUNITY	PLAYERS
1.	Poor adoption of available technologies. Failure by extension agents to understand farmers' objectives and choice of enterprise. Policy constraints contributing to poor adoption	Understanding why technologies are not adopted; understanding the farmers' choice of enterprise and management practices	SDP through studies and surveys, NALEP, Private NGO's
2.	Inadequate technology transfer mechanisms. Poor contacts between extension and farmers. Inadequate livestock management ability among farmers. Poor entrepreneurship skills	NALEP approach, group extension, decentralisation of GoK operational funds at district level, payment for education by end-user	Farmers, extension and services providers – private and public
3.	Lack of credit facilities.	Revolving funds in kind (heifer-in-trust); strengthening farmer groups; participatory monitoring and evaluation by the groups and participating institutions.	NGO's, CBOs development projects, banks
4.	Poor marketing systems, Collapsed infrastructure, collapsed co-operatives	Collective action, strengthening farmer groups, development of milk marketing information	SDP, extension agents, KDB, processors, NGOs, CBOs input suppliers, KEBS
5.	High start-up capital for dairy systems	Consideration of alternatives to dairy cows – dairy goats, etc.	HPI, Kenya dairy goats association, KARI, Farm Africa

In his closing remarks, Mr. Wycliffe Omutsani, PLPO Western Province lauded the efforts and requested that data collected and information derived from the survey be shared with extension staff and other

collaborators. He also called for attention to cultural issues that may impeding adoption of technology and development of the dairy industry in general (e.g. the practise of witchcraft) deserve some attention in future studies. Other areas that should merit more studies include milk marketing structure and organisation and constraints.

Annex 3 List of supervisors and enumerators

ILRI

William Thorpe	Field Manager
Steven Staal	Agricultural Economist
Julius Nyangaga	Research Assistant
Michael Waithaka	Research Officer
Patrick Wanjohi	Research Assistant
Liston Njoroge	Research Assistant

KARI

Apollo Orodho	Centre Director, Kakamega
Felista Makini	Centre Director, Kisii
Kinyua Muriuki	Technical Officer
Meschack Ojowi	Research Officer
Patrick Mudavadi	Research Officer

MOARD

Hezekiah Muriuki	Project Manager
Angela Wokabi	Senior Livestock Production Officer
George Gichungu	Senior Livestock Production Officer
Wycliffe Omutsani	PLPO, Western
Jacktone Okumbe	PLPO, Nyanza
Titus Mutisya	Bungoma
Phillip Lang'at	Nandi
Henry Anjira	Kakamega
Timothy Wesonga	Kakamega
Simon Wesechere	Vihiga
Dickson Mottanya	Nyamira
Alice Manoti	Kisii
Willam Nyambaga	Rachuonyo

Enumerators

Name	sub-location	District
Maurice Watela	North Nalondo	Bungoma
Joseph Lubumbu	South Nalondo	Bungoma
Charles Aluda	Kibingei	Bungoma
Simiyu Khaemba	Kamukuywa/Kimilili	Bungoma
Gabriel Wakhanu	Cheboite	Nandi
Ann Yegon	Kaptidil/Kapchorwa	Nandi
John Bor	Arwos/Ndubenei	Nandi
Ignatius Rotich	Songoliet/Lelwak	Nandi
Lumiti Gaitano	Shivagala/Shikulu	Kakamega
Joseph Odhiambo	Surungai/Samitsi	Kakamega

Adonijah Adipo	Musoli/Shisejeri	Kakamega
William Ligono	Shitoli/Shibuname	Kakamega
Arthur Chunguli	Gimamoi/Gimarakwa	Vihiga
Peter Noyi	Kapsotik/Gavundunyi	Vihiga
Alex Adala	Chagenda/Mahanga	Vihiga
Ezakiel Ngaira	Magui/Mbihi	Vihiga
Martin Oyugi	Magui/Mbihi	Vihiga
Wycliffe Wafula	Samitsi/Shibuname/Shitoli	Kakamega
Samuel Onguso	Bonyarorande	Nyamira
Charles Kubwa	Magwagwa/Bonyengwe	Nyamira
Jackson Monte	Bomwagamo	Nyamira
Jones Mumbo	Bocharia and Girango	Nyamira
Patrick Mariita	Mwabundusi/Mwageginre	Nyamira
Bernard Muthini	Bomokora/Bomorenda	Kisii
Arthur Ahona	Ichuni/Matibo	Kisii
Oirongo Joseph	Bogitaa/Bomariba	Kisii
Leonard Omariba	Kiamokama/Bogeche	Kisii
David Otundo	Metembe/Mogweko	Kisii
Edith Kiche	Kachieng/North Kachien	Rachuonyo
Wilson Owino	West Kakangutu/Kawere Kamagak	Rachuonyo
Kennedy Osoro	Kanyipir/Kamser Seka	Rachuonyo
Dennis Omondi	Kajiei/Komulo Njira	Rachuonyo