PN-ACZ-247

AGRICULTURE

FY 83 CDSS Subject Analysis

June 1981
DS/PU

INTRODUCTORY NOTES

The unclassified FY 1983 CDSS's and SPSS's were examined to find out what topics in agriculture, nutrition, and rural development were most often mentioned within the context of Mission program strategy and project development.

This examination is intended to give a picture of Mission priorities as evidenced by their FY 83 program strategies. It is hoped that this picture will be of use to DSB technical offices in preparing their own strategies.

This analysis does not pretend to present a scientific or systematic survey of Mission interests. It does present a profile of relative values by comparing what topics the Missions felt important or crucial enough to mention in the context of their on-going, planned, and proposed projects and program strategy elements.

References to CDSS page numbers are given in parentheses where specific topics are mentioned.

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This paper gives summary conclusions based on an analysis of Mission interest in topics related to Agriculture.

It contains four tables:

Table 1 presents a list of subjects ranked by the number of Missions which mentioned that subject in their programming strategy.

Table 2 gives a clustered ranking of Mission interests wherein the subjects are grouped into clusters of related topics and then ranked by the number of Missions interested in the broad clusters.

Table 3 identifies the Missions which indicated an interest in specific topics.

Table 4 gives brief annotations of explicit or implicit information and TA needs mentioned by the Missions.

Agriculture Analysis

----The three major program elements of Missions are:

1. Agricultural Extension.
2. Farming Systems Research
3. National Agricultural Research Centers

These three related topics when clustered together, as shown in Table 2, rank as the subject area in which the greatest number of Missions show an interest in their programming priorities. Africa Missions show the greatest interest, with Asia and LAC showing an almost equal interest.

In the areas of Farming Systems Research, the goal is to concentrate upon research about small farms in order to produce agricultural technologies adapted to and appropriate for small farm sytems. Thus, agricultural extension is also ranked as a high priority topic as the means for bringing the results of farming systems research to the farmer/herder. The development of indigenous institutions for research and extension is also seen to be a highly important Mission strategy element.

----Topics relating to agricultural economics rank second in Table 2 as topics of Mission strategy.

----The topics of rural enterprise and off-farm employment rank third and tiftn in Table 1, and clustered in Table 2, they rank third as an area of priority Mission interest.

----Natural resources topics rank high as individual topics; irrigation/water resources is tied for third place and soils/land ranks in sixth place on Table 1. Clustered in Table 2, natural resources ranks fourth in overall interest almost in a tie with rural employment and enterprise.

----Individual topics related to agricultural economics rank as follow in Table 1: marketing---fourth and credit---seventh. Clustered in Table 2, however, these topics together rank second in Mission interest.

----From the foregoing it seems that Mission priorities for FY 83 lie in a mix of the following agricultural science and rural development topics:

1. Agricultual research and extension, with the greatest emphasis on Farming Systems Research
2. Agricultural Economics
3. Rural Employment and Enterprise
4. Natural Resource Base

----Africa Missions indicated the greatest interest in agricultural subjects, while Missions in Asia and LAC were almost equal in mentioning agricultural topics.

Table 1: CDSS AGRICULTURAL TOPICS

Topics	AFR	ASIA	LAC	NE	Total
Agricultural Extension	18	2	5		25
Farming Systems Research	15	4	4	1	24
National Agr. Res. Ctrs.	12	5	6	1	24
Irrigation/Water Resources	8	4	2	1	15
Rural Enterprise & Employment	6	3	6		15
Agricultural Marketing	9	1	3	1	14
Off-Farm Employment	3	3	4	1	11
Soils, Land Use, Range Mgmt	7	1	2	1	10
Agr. Inputs	6	2	1	1	10
Agr. Sector Planning	7	1	1	1	10
Agr. Credit	6	1	2		9
Livestock	8	1			9
Dryland Agriculture	4	1		1	6
Capture Fisheries	5				5
Agr. Price Policies	2	2	1		5
Postharvest Food Storage	4	1			5
Rainfed Agriculture	2	3			5
Hillside Agriculture	1		3		4
Integrated Livestock/Crops	3	1			4
Rice	2	2			4
Crop Diversification & intensification	1	2			3
International Agr. Res. Ctrs.	1	1	1		3
Maize/Wheat	3				3
Vegetables	3				3
Pest Mgmt.	2	1			3
Cereals	1		1		2
Aquaculture	2				2
Peanuts	2				2
Totals	143	42	42	8	235

Table 2: AGRICULTURAL TOPICS CLUSTERED

	AFR	ASIA	LAC	NE	Total
Agricultural Research					
Agricultural Extension	16	2	5		25
Farming Systems Research	15	4	4	1	24
National Agr. Res. Ctrs.	12	5	6	1	24
Int. Agr. Res. Ctrs.	1	1	1		3
	46	12	16	2	76
Agricultural Economics					
Agricultural Marketing	9	1	3	1	14
Agr. Credit	6	1	2		9
Agr. Price Policies	2	2	1		5
	17	4	6	1	28
Rural Employment and Enterprise					
Rural Employment/Enterprise	6	3	6		15
Off-Farm Employment	3	3	4	1	11
	9	6	10	1	26
Natural Resources					
Water/Irrigation	8	4	2	1	15
Soils/Land/Range Mgmt.	7	1	2		10
	15	5	4	1	25
Agricultural Productivity					
Agr. Inputs	6	2	1	1	10
Agr. Sector Planning	7	1	1	1	10
Crop Diversification/ Intensification	1	2			3
	14	5	2	2	23
Agricultural Ecozones					
Dryland Agr.	4	1		1	6
Rainfed Agr.	2	3			5
Hillside Agr.		1	3		4
	6	5	3	1	15

	AFR	ASIA	LAC	NE	TOTAL
Specific Crops					
Rice	2	2			4
Maize/Wheat	3				3
Vegetables	3				3
Cereals	1		1		2
Peanuts	2				2
	11	2	1		14
Livestock					
Livestock	8	1			9
Integrated Livestock and Crops	3	1			4
	11	2			13
Pest Control					
Postharvest Storage	4	1			5
Pest Mgmt.	2	1			3
	6	2			8
Fisneries					
Capture	5				5
Aquaculture	2				2
	7				7

Table 3, Missions Mentioning Specific Topics in Agriculture

Agricultural Extension

AFR:	Botswana (34)	Sahel Reg. (53-54)
	Burundi (36-37)	Senegal
	Ghana (40)	Sierra Leone (18)
	Guinea (16)	Sudan (48)
	Lesotho (8)	Swaziland (15)
	Malawi (52, 65)	Tanzania (37)
	Mali (40-47)	Togo (37)
	Mauritania (46-47)	Zambia (18)
	Rwanda (46, 48-49)	Zimbabwe (49)
ASIA:	Bangladesh (32-34)	Indonesia (38)
LAC:	Caribbean Regional (40)	Jamaica (44, 46)
	Dominican Republic (39-40)	Peru (3)
	Ecuador (10)	

Agricultural Inputs: Seeds, Fertilizer, etc.

AFR:	Botswana (33-34)	Malawi (65)
	Burundi (36)	Mali (46-47)
	Ghana (40)	Niger (44)
ASIA:	Sri Lanka (28-29)	Thailand (42-43)
LAC:	Caribbean Reg. (46-47)	
NE:	Egypt (53)	

Agricultural Marketing/Rural Markets

AFR:	Gambia (4)	Sahel Reg. (54-56)
	Ghana (40)	Senegal (20-21)
	Lesotho (6, 7)	Sudan (48)
	Mali (47)	Zimbabwe (50-51)
	Rwandi (46-47)	
ASIA:	Philippines (34)	
LAC:	Caribbean Reg. (46)	Panama (53)
	Jamaica ((43)	
NE:	Egypt (53)	

Agricultural Sector Planning

AFR:	Burundi (37)	Sudan (56-57)
	Lesotho (8)	Togo (35-36)
	Rwanda (47)	Zambia (14-17)
	Sahel Reg. (55-56)	
ASIA:	Indonesia (36)	
LAC:	Caribbean Reg. (46)	
NE:	Egypt (530	

Aquaculture

AFR:	Rwanda (45)	Sierra Leone (19-20)

Capture Fisheries

AFR:	Cape Verde (12-14)	Malawi (45)
	Gambia (3)	Senegal (50)
	Guinea-Bissau (12, 18, 26, 28, 33-37)	

Cereals Production

AFR:	Niger (45)
NE:	Morocco (32-35)

Crop Diversification/Intensification

AFR:	Rwanda (46, 48-49)	
ASIA:	Philippines (40-43)	Thailand (42-43)

Dryland Agriculture

AFR:	Kenya (48, 54-55)	Rwanda (48)
	Mauritania (24)	Swaziland (15)
ASIA:	Sri Lanka (29)	
NE:	Morocco (23-24, 29-36)	

Farming Systems Research

AFR:	Botswana (14)	Rwanda (19, 50)
	Burundi (12, 15, 16, 26, 36-37)	Sahel Reg. (50)
	Ghana (39-40)	Senegal (36, 38, 39, 46)
	Guinea (16)	Sierra Leone (18)
	Guinea-Bissau (35-36)	
	Lesotho (8)	Swaziland (15-21)
	Malawi (64-65)	Tanzania (37,38,56)
	Niger (31)	Zimbabwe (48-50)
ASIA:	Bangladesh (33-34)	Nepal (21-24)
	Indonesia (38)	Philippines (29-30)
LAC:	Caribbean Reg. (19, 45-46)	Ecuador (10)
	Dominican Republic (40)	Panama (49-52)
NE:	Morocco (36)	

Hillside Agriculture

ASIA:	Nepal (17, 20, 33-34)	
LAC:	Dominican Republic (40)	Jamaica (45)
	Honduras (35)	

Integrated Livestock/Crop Production

AFR:	Mali (46-47)	Senegal (38, 46)
	Sahel Regional (51)	
ASIA:	Indonesia (38)	

Capture Fisheries

AFR:	Cape Verde (12-14)	Malawi (45)
	Gambia (3)	Senegal (50)
	Guinea-Bissau (12, 18, 26, 28, 33-37)	

Cereals Production

AFR:	Niger (45)
NE:	Morocco (32-35)

Crop Diversification/Intensification

AFR:	Rwanda (46, 48-49)	
ASIA:	Philippines (40-43)	Thailand (42-43)

Dryland Agriculture

AFR:	Kenya (48, 54-55)	Rwanda (48)
	Mauritania (24)	Swaziland (15)
ASIA:	Sri Lanka (29)	
NE:	Morocco (23-24, 29-36)	

Farming Systems Research

AFR:	Botswana (14)	Rwanda (19, 50)
	Burundi (12, 15, 16, 26, 36-37)	Sahel Reg. (50)
	Ghana (39-40)	Senegal (36, 38, 39, 46)
	Guinea (16)	Sierra Leone (18)
	Guinea-Bissau (35-36)	
	Lesotho (8)	Swaziland (15-21)
	Malawi (64-65)	Tanzania (37,38,56)
	Niger (31)	Zimbabwe (48-50)
ASIA:	Bangladesh (33-34)	Nepal (21-24)
	Indonesia (38)	Philippines (29-30)
LAC:	Caribbean Reg. (19, 45-46)	Ecuador (10)
	Dominican Republic (40)	Panama (49-52)
NE:	Morocco (36)	

Hillside Agriculture

ASIA:	Nepal (17, 20, 33-34)	
LAC:	Dominican Republic (40)	Jamaica (45)
	Honduras (35)	

Integrated Livestock/Crop Production

AFR:	Mali (46-47)	Senegal (38, 46)
	Sahel Regional (51)	
ASIA:	Indonesia (38)	

International Agricultural Research Centers

AFR:	Sahel Regional (52)	
ASIA	Thailand (43)	
LAC:	Honduras (51)	

Irrigation and Water Resources

AFR:	Cape Verde (2, 9-10)	Senegal (43)
	Mauritania (45)	Swaziland (21)
	Niger (47-48)	Togo (36)
	Sahel Reg. (52, 60)	Zimbabwe (51-52
ASIA:	Bangladesh (34-35, 51-52)	Indonesia (37-38)
	India (18-19)	Sri Lanka (28-29)
LAC:	Haiti (42)	Peru (3)
NE:	Egypt (53)	

Livestock

AFR:	Botswana (31-32)	Sahel Reg. (48-49, A-19)
	Lesotho (6)	Senegal (38-46)
	Mali (46-47)	Niger (48-49)
	Mauritania (47-48, 57)	Somalia (16)
ASIA:	Indonesia (38)	

Maize/Wheat

AFR:	Kenya (25)	Senegal (37)
	Malawi (64-65)	

National Agricultural Research Centers

AFR:	Burundi (16)	Niger (45)
	Cape Verde (10)	Sahel Reg. (52)
	Guinea (15-16)	Senegal (36-40)
	Lesotho (8-9)	Sierra Leone (18-19)
	Malawi (51-52, 65)	Tanazania (33, 37-38)
	Mauritania (46-47)	Zimbabwe (14-15, 48-50)
ASIA:	Bangladesh (32,34, 51)	South Pacific (14)
	India (20)	Thailand (43)
	Indonesia (2, 34, 49)	
LAC:	Caribbean Reg. (31, 45-46, 54-55)	Honduras (34,36)
	Dominican Republic (39-40)	Jamaica (45-46)
	Ecuador (10)	Peru (3)
NE:	Morocco (31-33)	

Peanuts

AFR:	Cape Verde (96)	Senegal (40-41)

Pest Management

AFR:	Cape Verde (6)	Senegal (37)
ASIA:	India (20)	

Post-Harvest Food Storage

AFR:	Burundi (37)	Rwanda (47-48)
	Ghana (42)	Sahel Reg. (54-55)
ASIA:	Thailand (42-43)	

Rainfed Agriculture

AFR:	Sahel Reg. (48-49, A-19)	Sudan (48, 54-55)
ASIA:	Indonesia (38)	Thailand (22, 40, 42-43, 53)
	Philippines (6-7, 29-32, 40-43)	

Rural Enterprise and Employment

AFR:	Botswana (20, 30-31, 33-36)	Sahel Reg. (49)
	Ghana (41)	Senegal (34)
	Kenya (27-31)	Zimbabwe (52-53)
ASIA:	Bangladesh (38-39, 52-55)	Philippines (26-28, 32-34)
	Indonesia (42-43)	
LAC:	Caribbean Reg. (47-48)	Haiti (32-34, 42)
	Dominican Republic (44-48)	Honduras (34, 35)
	Ecuador (11-12)	Peru (3)

Soils, Land Use, Range Management

AFR:	Cape Verde (11)	Senegal (40-42)
	Mali (14-15)	Somalia (16)
	Mauritania (45)	Swaziland (21)
	Niger (48-49, 52-53)	
ASIA	Bangladesh (52)	
LAC:	Caribbean Reg. (46)	Peru (4-5)

Vegetable Production

AFR:	Cape Verde (6)	Sierra Leone (20-21)
	Mauritania (45)	

Table 4: ACR-Related Mission Information and TA Needs

AFR

Burundi	Research needs are in farming systems research, operational research in crop varieties and techniques, cropping systems and soil fertility, and crop production statistics (12)
Cape Verde	Research is needed on improved varieties of tubers, vegetables, fruits and peanuts, along with pest control, and production practices (6).
Gambia	AID/W specialists to map out Mission strategy and projects in fisheries and rural development are needed (6).
Guinea	Farm level surveys by contractors are needed on agricultural methods and economics (16).
Guinea-Bissau	Research on techno-economic aspects of capture fisheries is needed (35-36); PD&S funds will be requested in late FY 82 (36).
Kenya	There is a lack of research and information needed to assist rural women in improving their food crop productivity (43).
Lesotho	A consultant is needed to advise on farming systems research policy and coordination (8).
Malawi	Research is needed on lake fisheries management (45).
Mauritania	There are lacks in basic planning data for groundwater and vegetation and soils, as well as in research in techniques for livestock and dryland agriculture (24).
Niger	Niger's research needs for the livestock sector are statistical data and research on social/technical solutions (31).
Rwanda	There is little quantitative data on agriculture (30). The USAID will concentrate on obtaining technical, environmental, and socio-economic data on intensification and land development for strategy options (49, 51).
Sahel Regional	Lack of R&D on food crop technologies and livestock production is a constraint (16-17, 51-53). Research on soil building forage crops is needed (8-21).

Senegal	USAID/S will draw up a master development plan for the Lower Casamance, along with project proposals (41). USAID will be studying groundwater resources (43), along with other agricultural research on pest control (37) and agricultural production (38).
Sierra Leone	USAID/SL's one major project, ACRE, will address the lack of quality research data (18,20-21).
Sudan	This USAID will sponser a major research effort during the coming year to analyze constraints to agriculture and the role of the private sector (57).
Tanzania	Research is needed on the small-holder's need to intercrop (27). Research on saml1 farm conditions and practices is a priority, along with agricultural statistics (37).
Togo	Studies on agricultural credit are needed (36).
Zambia	An agricultural/rural sector analysis and assessment will be carried out in 1981 to identify economic constraints and technical/socio-economic approaches (14-16).
Zimbabwe	Research is needed on specific food crops of small scale producers (15) AID will undertake an assessment of the College of Agriculture (49).
ASIA	
Bangladesh	The Mission has proposed a policy study to recommend structural reforms to stimulate rural industry (53).
India	Eight research problem areas for a proposed research project are: soybean processing, groundnut productuon, integrated plant nutrient management, energy in agriculture, agro-forestry, pest control, plant bioregulants, and soil/water management (20). Literature reviews and sectoral strategy papers will be prepared in 1981 on irrigation and forestry, as well as a literature review on agricultural development's impact on poverty (30). USAID will need AID/W TDY assistance for analysis, design, and evaluation work (31).

Indonesia	USAID will provide consultant assistance to coordinate macro-level agricultural policy research (36). AID will also conduct feasibility studies and engineering plans in FY83 for development projects of commercial interest to U.S. contractors (58-59), along with introducing improved field data generation and a land mapping project (36).
Philippines	Research will focus on ecologically sustainable farming systems (29-32).
Thailand	Primary research areas in rainfed agriculture are crop varieties and cropping systems, and on-farm, off-farm storage. AID will also finance applied research on specific agroclimatic conditions, as well as assistance to improve data collection and analysis (43).
LAC	
Jamaica	For analytical and project design assistance, Jamaica expects to draw heavily on AID/W and contractor TDY assistance (55).
NE	
Morocco	USAID/M plans, by the end of FY81, to gather technical information (using results from the dryland research project) to use as supporting documentation for a PID in a Cereals Extension/Production project (32-34).

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