The development study on integrated watershed management in the western hills of Nepal : socio-economic baseline survey : databook (4)

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Japan International Cooperation Agency (JICA)
His Majesty's Government of Nepal

THE DEVELOPMENT STUDY
ON
INTEGRATED WATERSHED MANAGEMENT
IN THE WESTERN HILLS OF NEPAL

SOCIO-ECONOMIC BASELINE SURVEY

DATABOOK (4)
(GIS Maps)

JANUARY 1998

JAPAN FOREST TECHNICAL ASSOCIATION (JAFTA)
KOKUSAIKOGYO CO., LTD.

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List of Socio-Econimic Condition Maps Prepared by GIS

Map No.	Contents	Area covered	Scale
Administrative Boundary			
01	VDC name	5 model areas	1/200,000
02	VDC name & Ward No.	Parbat North	1/75,000
03	VDC name & Ward No.	Parbat South	1/75,000
04	VDC name & Ward No.	Kaski East	1/75,000
05	VDC name & Ward No.	Kaski North	1/100,000
06	VDC name & Ward No.	Kaski West	1/100,000
Ward Characteristics - 1			
A-1	Population Density	5 model areas	1/200,000
A-2	Proportion of Occupational Caste Households	5 model areas	1/200,000
A-3	Proportion of Households Whose Farm Have Been Regularly Damaged by Flood	5 model areas	1/200,000
A-4	Proportion of Households Whose Farm Have Been Regularly Damaged by Land Slide	5 model areas	1/200,000
A-5	Proportion of Households Whose Farm Have Been Regularly Damaged by Soil Erosion	5 model areas	1/200,000
A-6	Degree of People's Concern about Terrace Maintenance	5 model areas	1/200,000
A-7	Degree of People's Concern about Land Slide & Soil Erosion	5 model areas	1/200,000
A-8	Degree of People's Concern about Flood	5 model areas	1/200,000
A-9	Degree of People's Concern about Forest Resource	5 model areas	1/200,000
A-10	Average Walking Distance to the Closest Motorable Road	5 model areas	1/200,000
A-11	Average Livestock Unit per ha	5 model areas	1/200,000
A-12	Average Farm Size per person	5 model areas	1/200,000
A-13	Proportion of Absent Family Members	5 model areas	1/200,000
A-14	Proportion of Population Without Formal Education (15 - 60 years old)	5 model areas	1/200,000
A-15	Proportion of Organizational Members Among Adult Population	5 model areas	1/200,000
A-16	Proportion of Households Facing Severe Water Shortage in the Dry Season	5 model areas	1/200,000
A-17	Proportion of Households Facing Severe Difficulty in Obtaining Fuelwood	5 model areas	1/200,000
A-18	Average Annual Per Capita Consumption of Fuelwood	5 model areas	1/200,000
A-19	Average Walking Distance to Fuelwood Forest (one way)	5 model areas	1/200,000
A-20	Proportion of Households Whose Cereal Production do not Meet the Home Demand	5 model areas	1/200,000
A-21	Average Deficit Months of Cereals	5 model areas	1/200,000
A-22	Proportion of Households Having Toilet at Home	5 model areas	1/200,000
A-23	Proportion of Households Facing Severe Difficulty in Obtaining Livestock Feed in the Dry Season	5 model areas	1/200,000
A-24	Proportion of Households Who Own Private Forest	5 model areas	1/200,000
A-25	Proportion of Households Belonging to Forest Users' Group (formal & informal)	5 model areas	1/200,000
Degree of People's Desire for Lessening Work Load			
B-1	Fetching Drinking Water (female)	5 model areas	1/200,000
B-2	Cooking (female)	5 model areas	1/200,000
B-3	Shopping in bazaar (male)	5 model areas	1/200,000
B-4	Plowing farm land (male)	5 model areas	1/200,000
B-5	Transportation of farm manure (female)	5 model areas	1/200,000
B-6	Threshing of cereals (female)	5 model areas	1/200,000
B-7	Milling of cereals (female)	5 model areas	1/200,000
B-8	Terrace maintenance (male)	5 model areas	1/200,000
B-9	Collection of fodder (female)	5 model areas	1/200,000
B-10	Collection of fuelwood (female)	5 model areas	1/200,000

List of Socio-Economic Condition Maps Prepared by GIS

Map No.	Contents	Area covered	Scale
Degree of People's Concern and Interest about :			
C-1	Food availability	5 model areas	1/200,000
C-2	Fodder availability	5 model areas	1/200,000
C-3	Fuelwood availability	5 model areas	1/200,000
C-4	Drinking water availability	5 model areas	1/200,000
C-5	Crop productivity	5 model areas	1/200,000
C-6	Cash income	5 model areas	1/200,000
C-7	Motorable road	5 model areas	1/200,000
C-8	Foot trail	5 model areas	1/200,000
C-9	* Not prepared	5 model areas	1/200,000
C-10	Irrigation	5 model areas	1/200,000
C-11	Electric supply	5 model areas	1/200,000
C-12	Communication facility (telephone)	5 model areas	1/200,000
C-13	Labor abailability	5 model areas	1/200,000
C-14	Education of children	5 model areas	1/200,000
C-15	Education of myself	5 model areas	1/200,000
C-16	Health condition	5 model areas	1/200,000
C-17	Family planning	5 model areas	1/200,000
C-18	Sanitation	5 model areas	1/200,000
C-19	* Not prepared	5 model areas	1/200,000
C-20	* Not prepared	5 model areas	1/200,000
C-21	* Not prepared	5 model areas	1/200,000
C-22	Worship of God	5 model areas	1/200,000
C-23	Meeting about community development	5 model areas	1/200,000
Ward Characteristics - 2			
D-1	Proportion of Households Using Biogas	5 model areas	1/200,000
D-2	Proportion of Woman-Headed Households	5 model areas	1/200,000
D-3	Average Total Number of Trees Owned by Households	5 model areas	1/200,000
D-4	* Not prepared	5 model areas	1/200,000
D-5	Average Total Number of Fuelwood Trees Owned by Households	5 model areas	1/200,000
D-6	* Not prepared	5 model areas	1/200,000
D-7	Average Total Number of Horticulture Trees Owned by Households	5 model areas	1/200,000
D-8	Average Yield of Paddy (khet)	5 model areas	1/200,000
D-9	Average Yield of Wheat (khet)	5 model areas	1/200,000
D-10	Average Yield of Maize (bari)	5 model areas	1/200,000
D-11	Average Yield of Finger Millet (bari)	5 model areas	1/200,000
D-12	Annual Cropping Intensity in khet land	5 model areas	1/200,000
D-13	Annual Cropping Intensity in bari land	5 model areas	1/200,000
Experience of Participation in Collective Activity about :			
E-1	Fodder availability	5 model areas	1/200,000
E-2	Fuelwood availability	5 model areas	1/200,000
E-3	Land Slide (prevention and rehabilitation)	5 model areas	1/200,000
E-4	Flood)protection)	5 model areas	1/200,000
E-5	Forest resource	5 model areas	1/200,000
E-6	Terrace maintenance / rehabilitation	5 model areas	1/200,000
E-7	Foot trail (construction and rehabilitation)	5 model areas	1/200,000
E-8	Drinking water supply	5 model areas	1/200,000
E-9	Community meeting	5 model areas	1/200,000

List of Socio-Economic Condition Maps Prepared by GIS

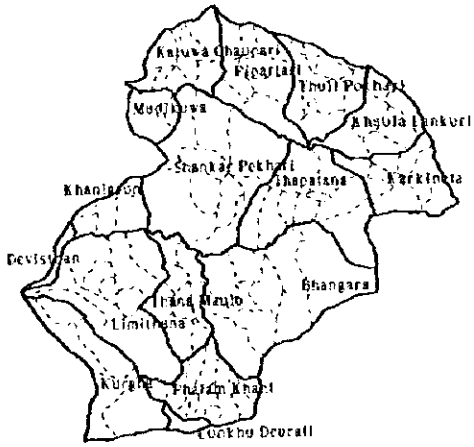
Map No.	Contents	Area covered	Scale
Proportion of Adults Having Received External Assistance about :			
E-10	Fodder availability	5 model areas	1/200,000
E-11	Fuelwood availability	5 model areas	1/200,000
E-12	Land Slide (prevention and rehabilitation)	5 model areas	1/200,000
E-13	Flood (protection works)	5 model areas	1/200,000
E-14	Forest resource	5 model areas	1/200,000
E-15	Terrace maintenance / rehabilitation	5 model areas	1/200,000
E-16	Foot trail (construction and rehabilitation)	5 model areas	1/200,000
E-17	Drinking water supply	5 model areas	1/200,000
E-18	Community meeting	5 model areas	1/200,000
Priority of People's Concern & Interest about :			
F-1	Food availability	5 model areas	1/200,000
F-2	Fodder availability	5 model areas	1/200,000
F-3	Fuelwood availability	5 model areas	1/200,000
F-4	Drinking water availability	5 model areas	1/200,000
F-5	Crop productivity	5 model areas	1/200,000
F-6	Cash income	5 model areas	1/200,000
F-7	Motorable road	5 model areas	1/200,000
F-8	Foot trail	5 model areas	1/200,000
F-9	Terrace Maintenance	5 model areas	1/200,000
F-10	Irrigation	5 model areas	1/200,000
F-11	Electric supply	5 model areas	1/200,000
F-12	Communication facility (telephone)	5 model areas	1/200,000
F-13	Labor abailability	5 model areas	1/200,000
F-14	Education of children	5 model areas	1/200,000
F-15	Education of myself	5 model areas	1/200,000
F-16	Health condition	5 model areas	1/200,000
F-17	* Not prepared	5 model areas	1/200,000
F-18	* Not prepared	5 model areas	1/200,000
F-19	Land Slide & Soil Erosion	5 model areas	1/200,000
F-20	Flood	5 model areas	1/200,000
F-21	Forest Resource	5 model areas	1/200,000
F-22	Worship of God	5 model areas	1/200,000
F-23	Meeting about community development	5 model areas	1/200,000
Priority of People's Desire for Lessening Work Load			
G-1	Fetching Drinking Water (female)	5 model areas	1/200,000
G-2	Cooking (female)	5 model areas	1/200,000
G-3	Shopping in bazaar (male)	5 model areas	1/200,000
G-4	Plowing farm land (male)	5 model areas	1/200,000
G-5	Transportation of farm manure (female)	5 model areas	1/200,000
G-6	Threshing of cereals (female)	5 model areas	1/200,000
G-7	Milling of cereals (female)	5 model areas	1/200,000
G-8	Terrace maintenance (male)	5 model areas	1/200,000
G-9	Collection of fodder (female)	5 model areas	1/200,000
G-10	Collection of fuelwood (female)	5 model areas	1/200,000
Social Infrastructure & Others (based on VDC/Ward Profile)			
H-1	School	5 model areas	1/200,000
H-2	Health Post	5 model areas	1/200,000
H-3	Drinking Water Facility	5 model areas	1/200,000
H-4	Electric Supply	5 model areas	1/200,000
H-5	Existance of Formal Community Forest	5 model areas	1/200,000
H-6	Wards that Reported Flood Damage in the past	5 model areas	1/200,000
H-7	Wards that Reported Land Slide Damage in the past	5 model areas	1/200,000

List of Socio-Econimic Condition Maps Prepared by GIS

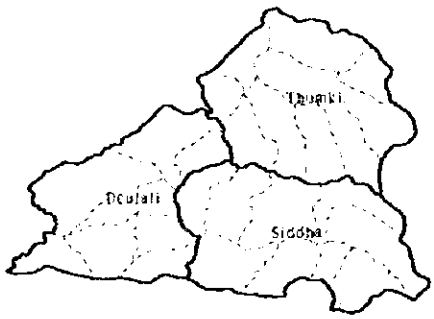
Map No.	Contents	Area covered	Scale
Topography (Elevation)			
1-1	Elevation	5 model areas	1/200,000
1-2	Elevation	Parbat North	1/75,000
1-3	Elevation	Parbat South	1/75,000
1-4	Elevation	Kaski East	1/75,000
1-5	Elevation	Kaski North	1/100,000
1-6	Elevation	Kaski West	1/100,000
Land Use			
1-7	Present Land Use (Forest and Agricultural Land)	5 model areas	1/200,000

Kaski West

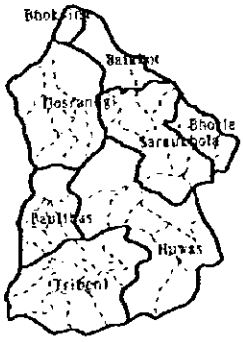
Kaski North



Parbat North



Kaski East

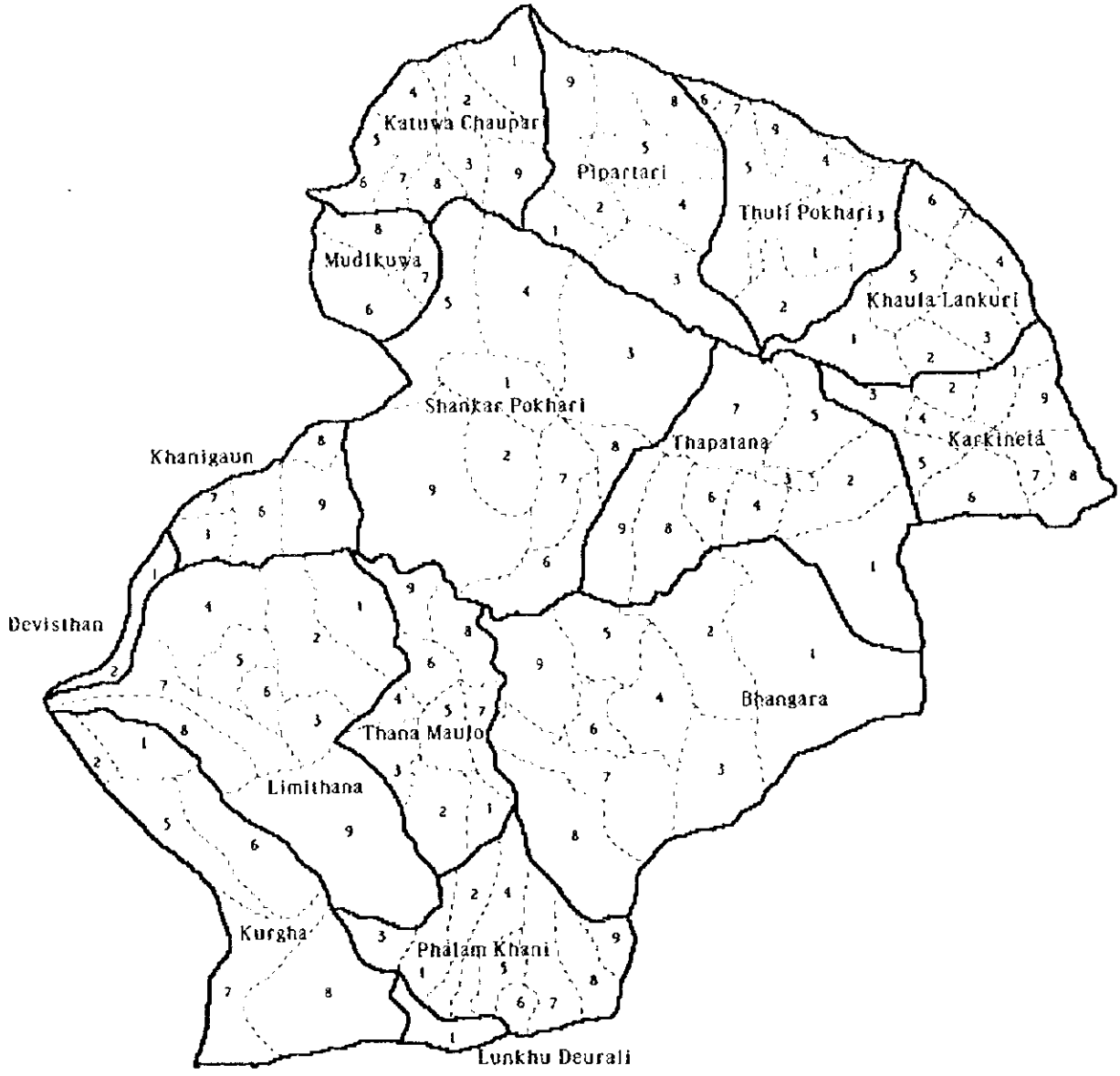


Parbat South

Scale : 1/200,000

0 2 4 6 8 10 kilometers

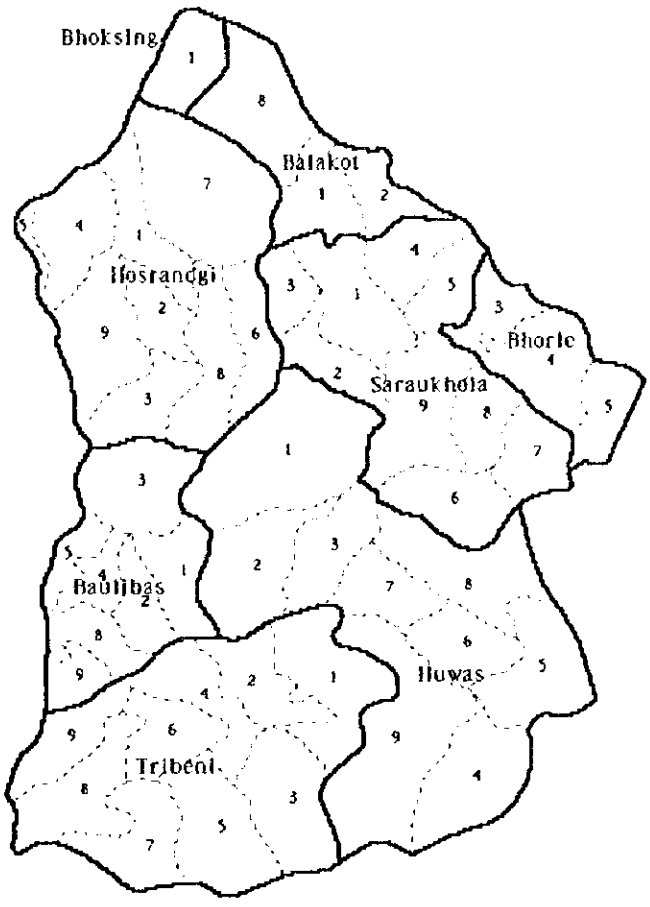
Parbat North Model Area



Scale : 1/75,000

0 1000 2000 3000 meters

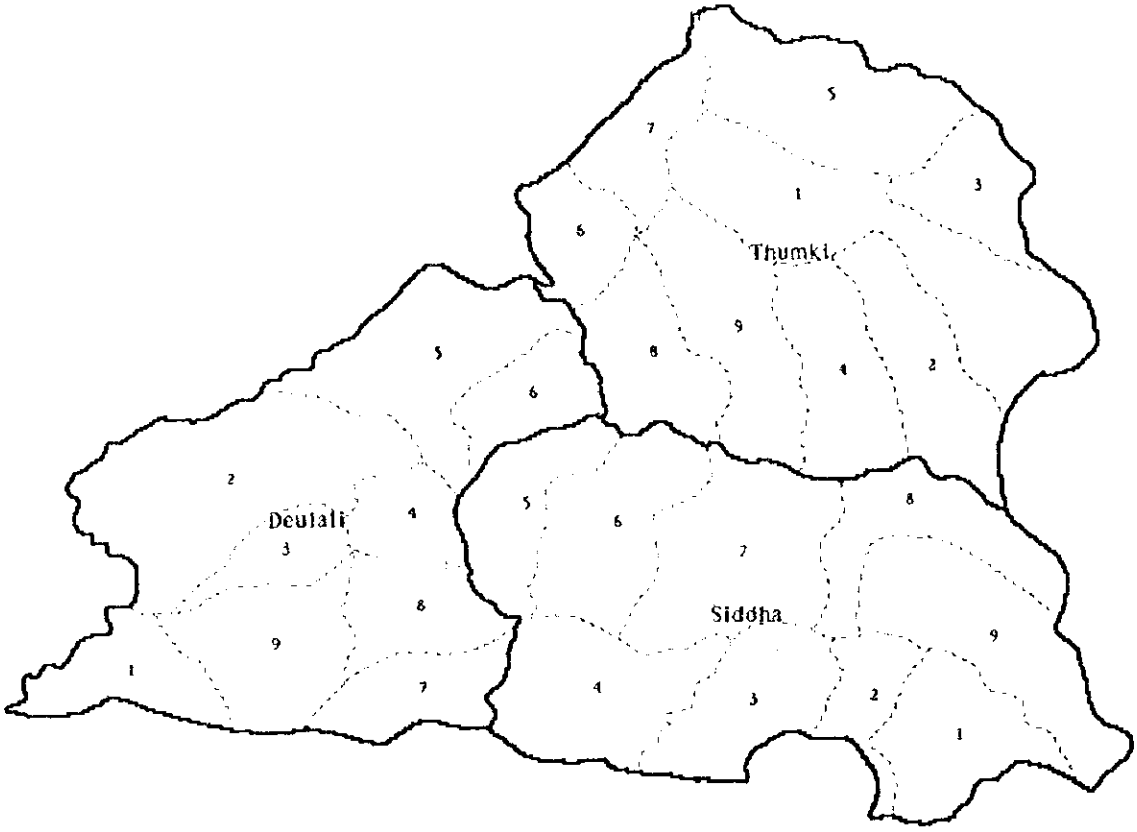
Parbat South Model Area



Scale : 1/75,000

0 1000 2000 3000 meters

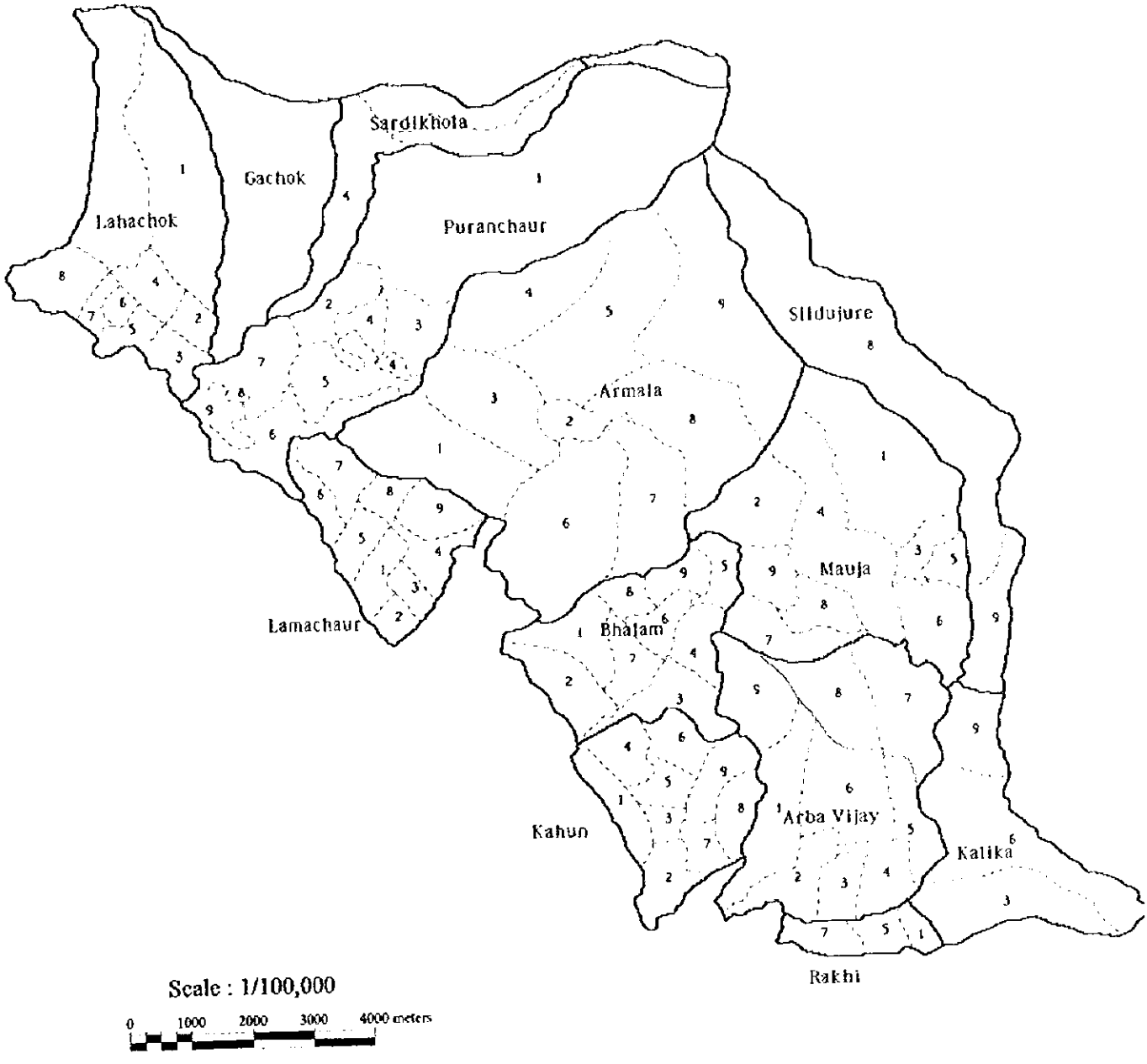
Kaski East Model Area



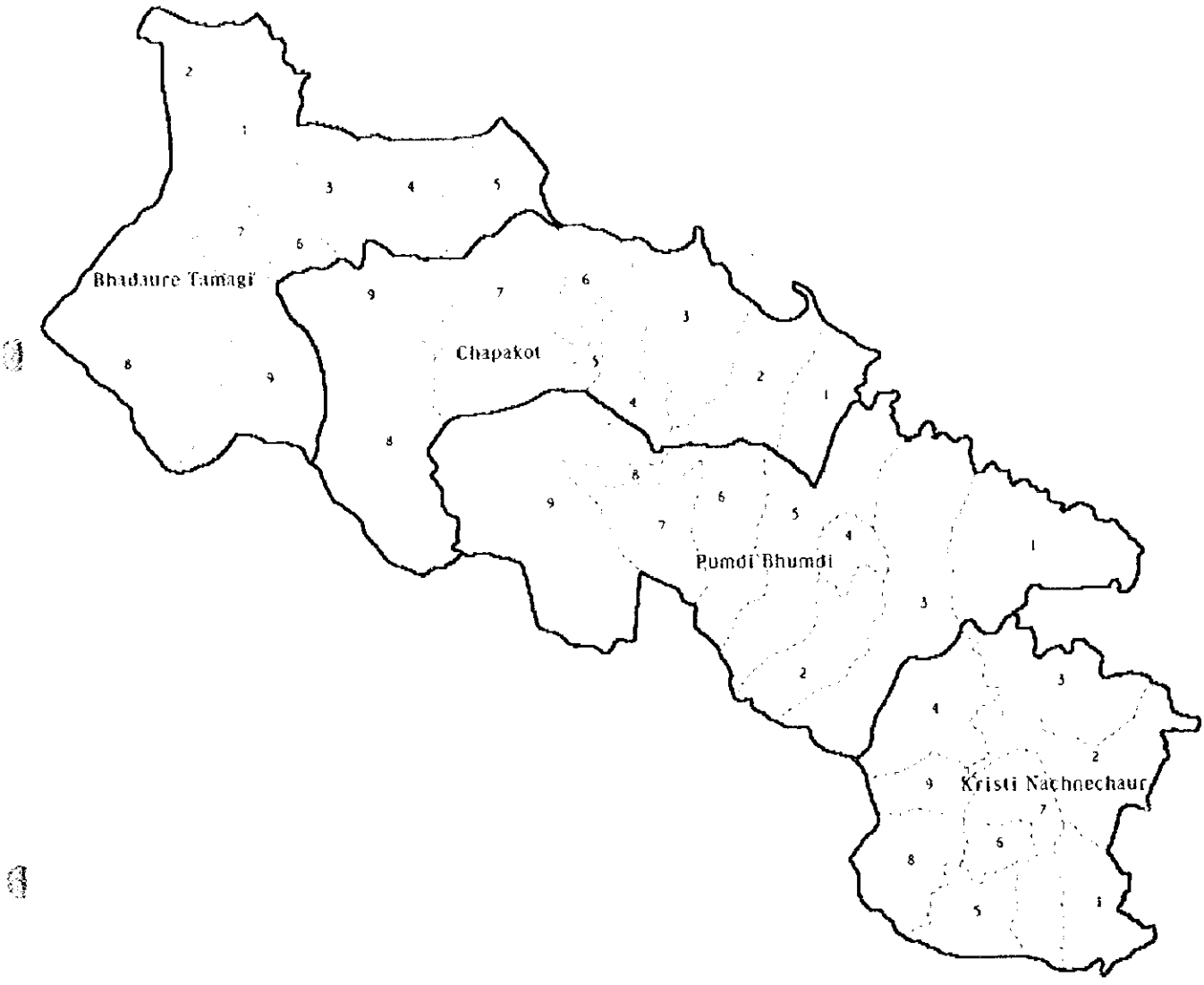
Scale : 1/75,000

0 1000 2000 3000 meters

Kaski North Model Area

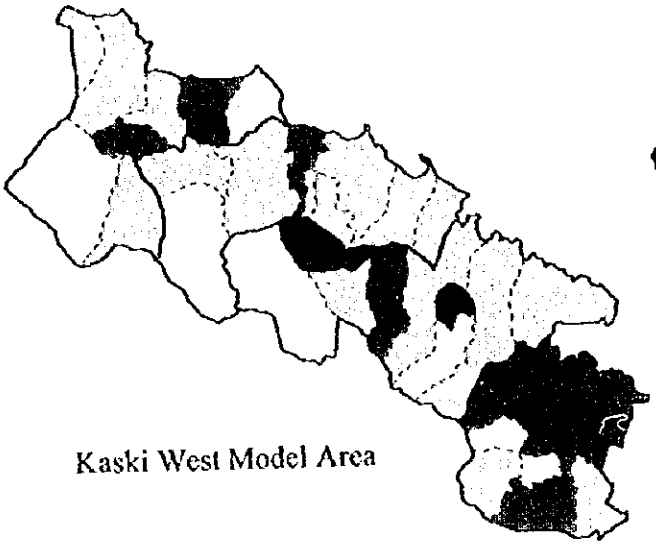


Kaski West Model Area

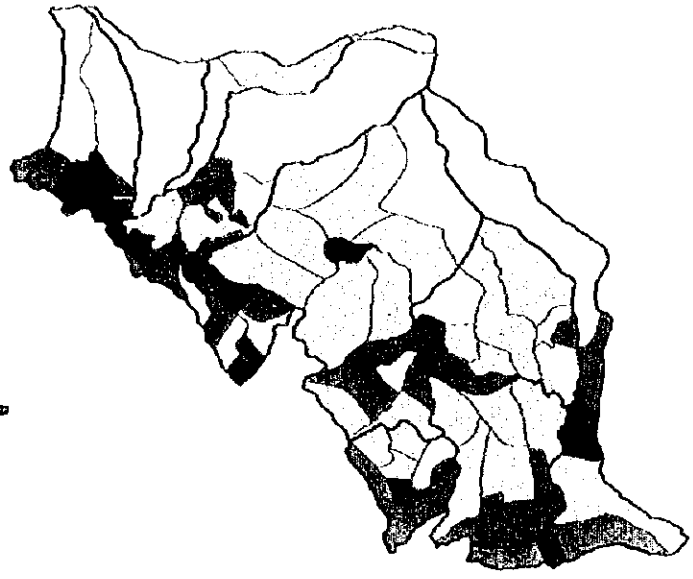


Scale : 1/100,000

0 1000 2000 3000 4000 meters

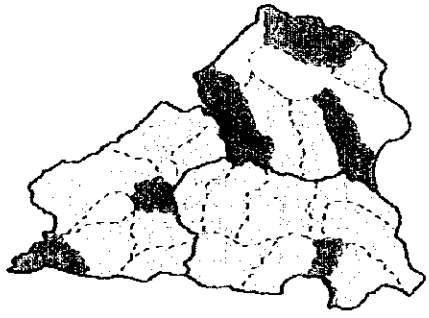


Kaski West Model Area

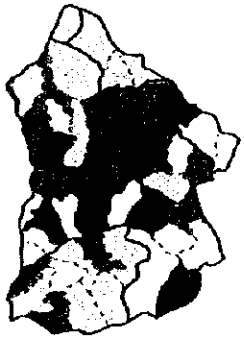


Kaski North Model Area

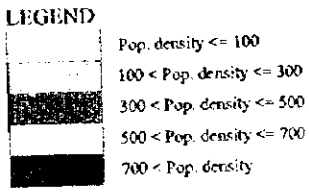
Parbat North Model Area



Kaski East Model Area

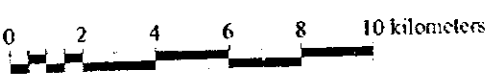


Parbat South Model Area

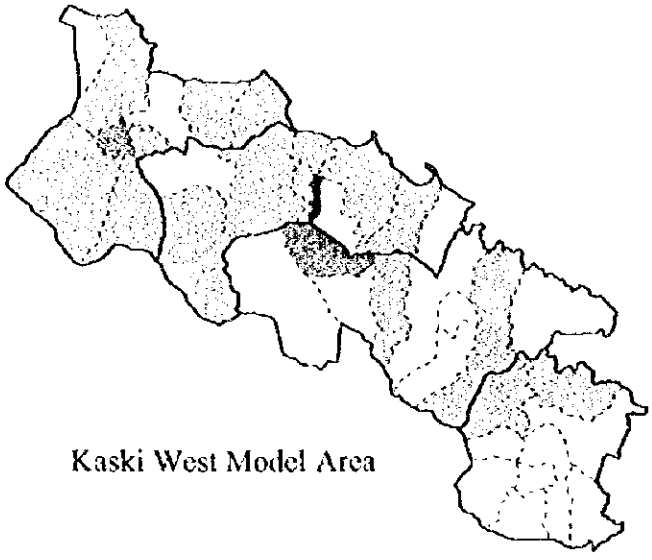


Data Source:
Population data by Ward : VDC/Ward Profile
Ward area : Measurement by GIS

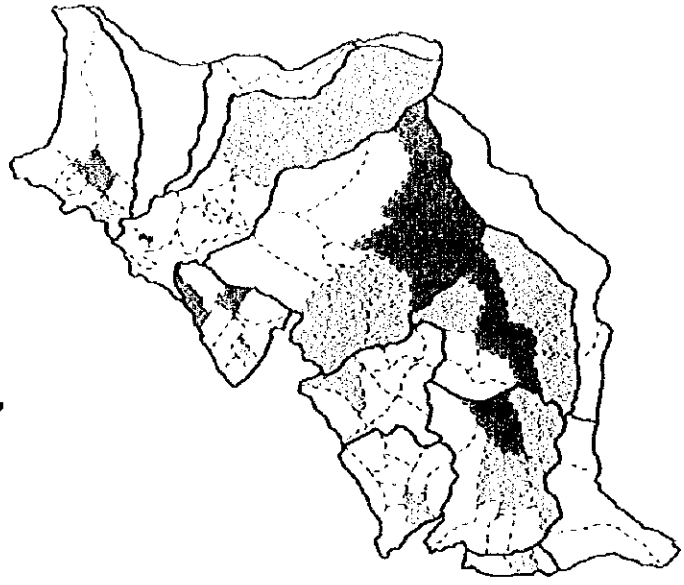
Scale : 1/200,000



Population Density (persons per km2)

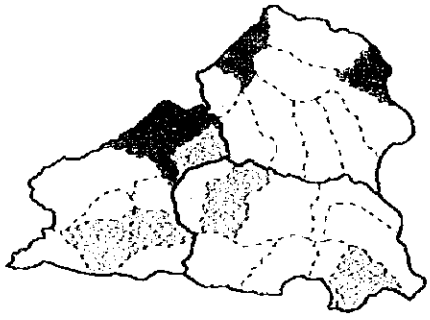


Kaski West Model Area

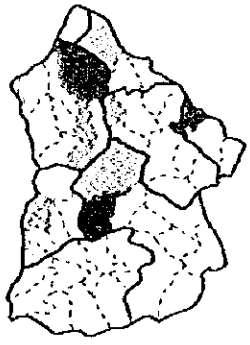


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

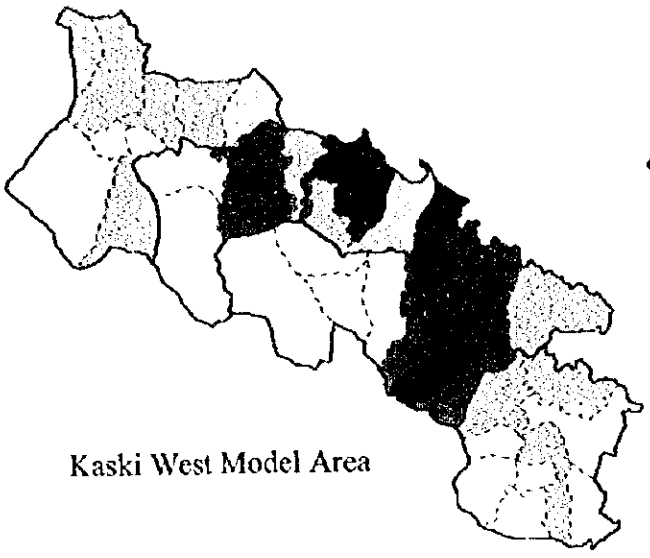
- Ratio = 0%
- 0%< Ratio <=20%
- 20%< Ratio <=40%
- 40%< Ratio <=60%
- 60%< Ratio <=80%
- 80%< Ratio

Data Source:
Household data by Ward : VDC/Ward Profile

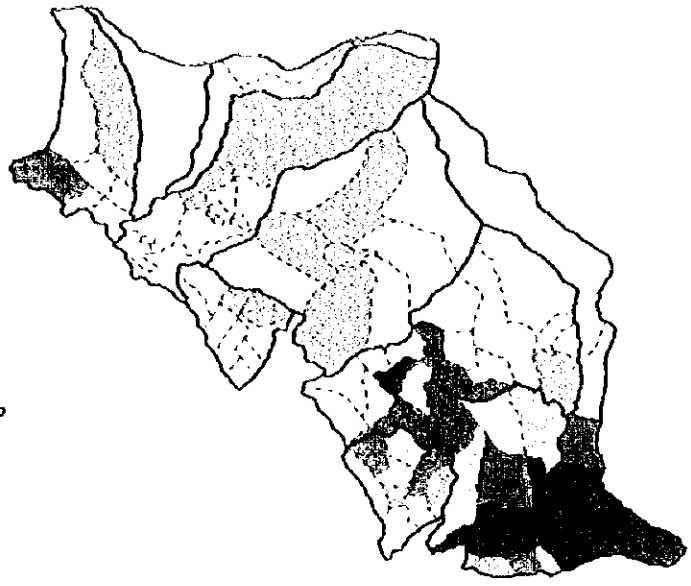
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Occupational Caste Households

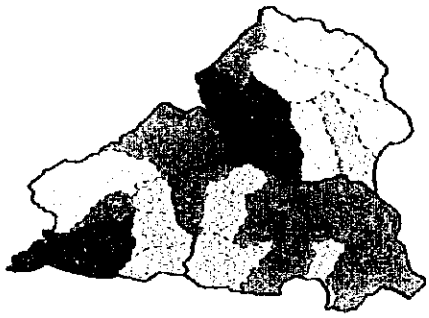


Kaski West Model Area

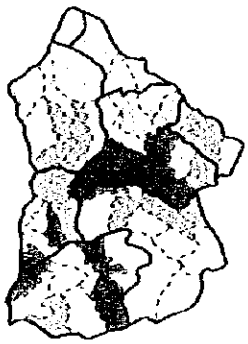


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

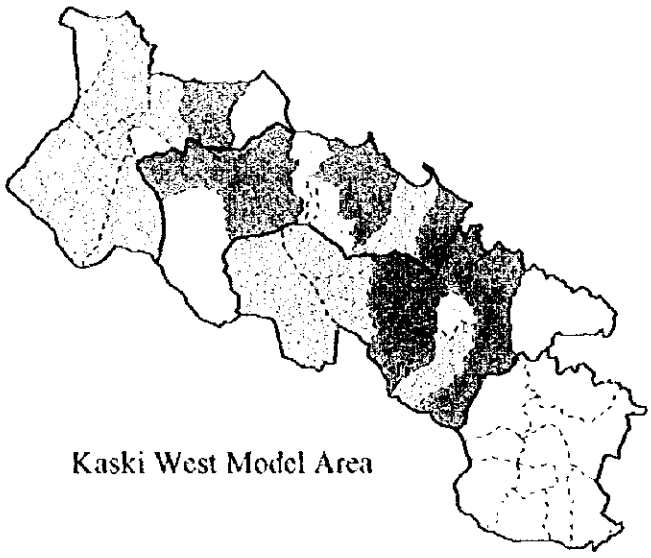
- Damage Ratio = 0%
- 0% < Damage Ratio <=5%
- 5% < Damage Ratio <= 10%
- 10% < Damage Ratio <= 20%
- 20% < Damage Ratio <= 30%
- 30% < Damage Ratio

Data Source:
Household Survey (Q-III-2)

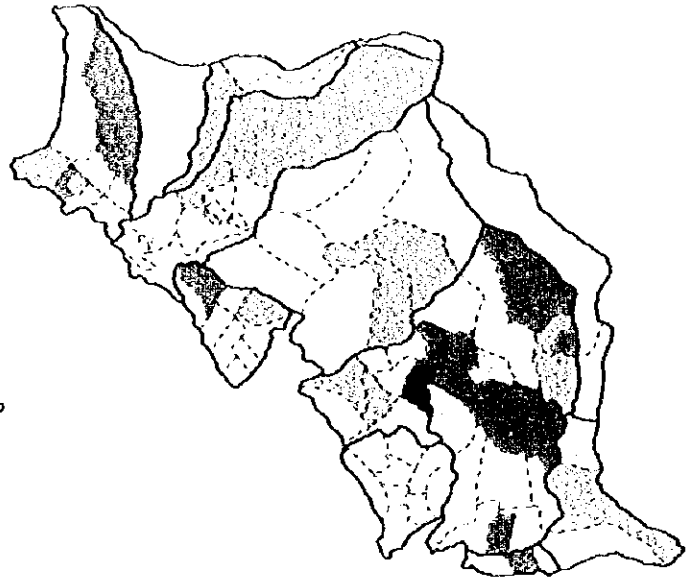
Scale : 1/200,000

0 2 4 6 8 10 kilometers

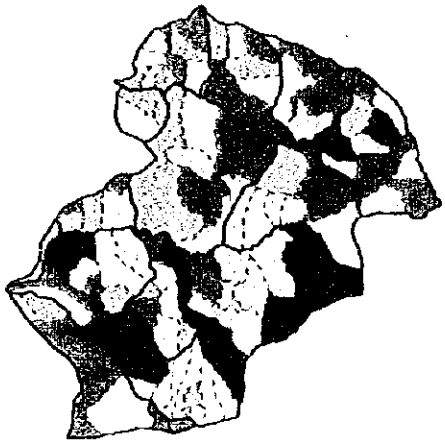
Proportion of Households Whose Farms Have Been Regularly Damaged By Flood (%)



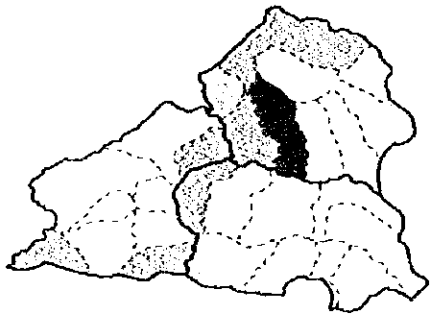
Kaski West Model Area



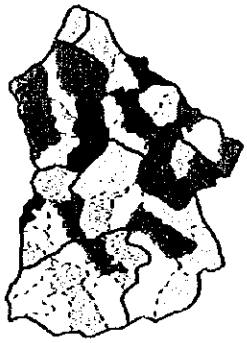
Kaski North Model Area



Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

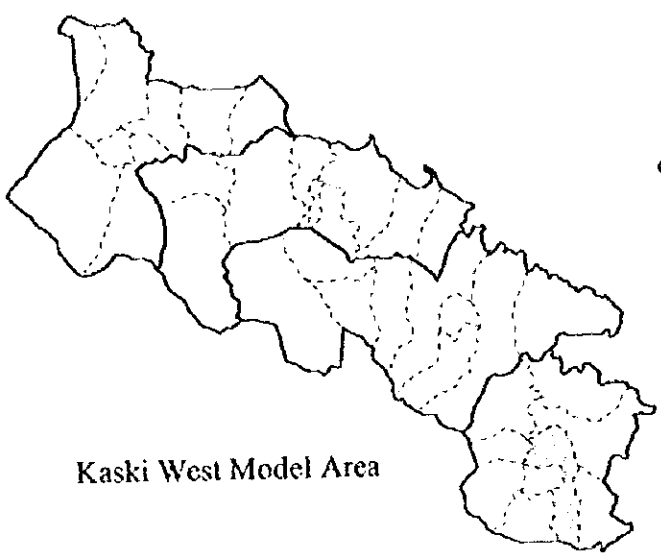
- Damage Ratio = 0%
- 0% < Damage Ratio <= 5%
- 5% Damage Ratio <= 10%
- 10% < Damage Ratio <= 20%
- 20% < Damage Ratio <= 30%
- 30% < Damage Ratio

Data Source:
Household Survey (Q-III-2)

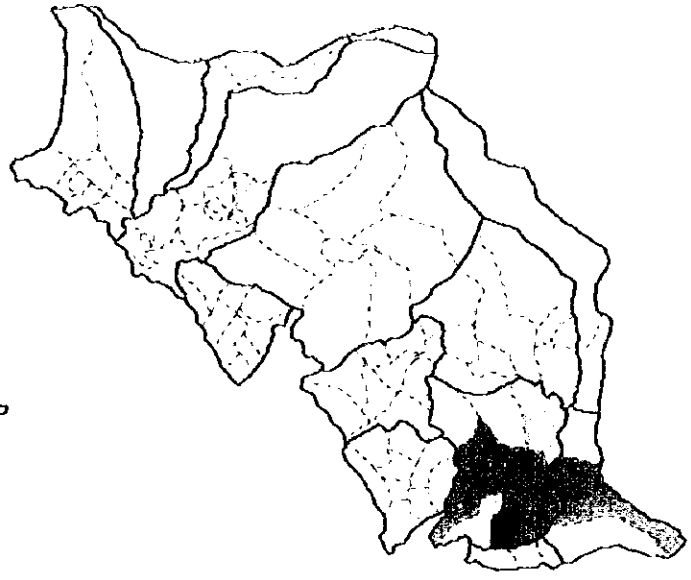
Scale : 1/200,000

0 2 4 6 8 10 kilometers

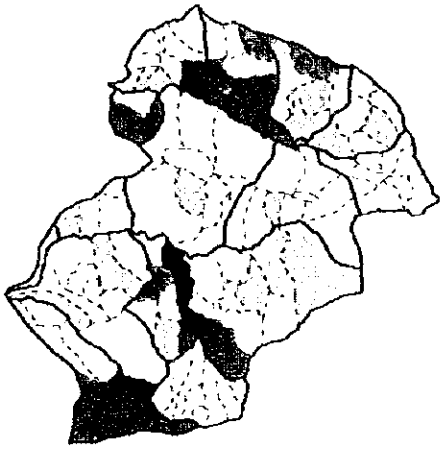
Proportion of Households Whose Farms Have Been Regularly Damaged By Land Slide (%)



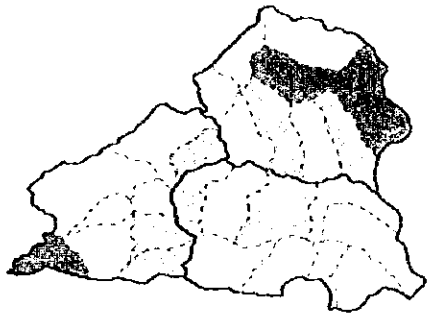
Kaski West Model Area



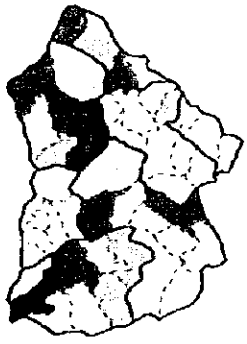
Kaski North Model Area



Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

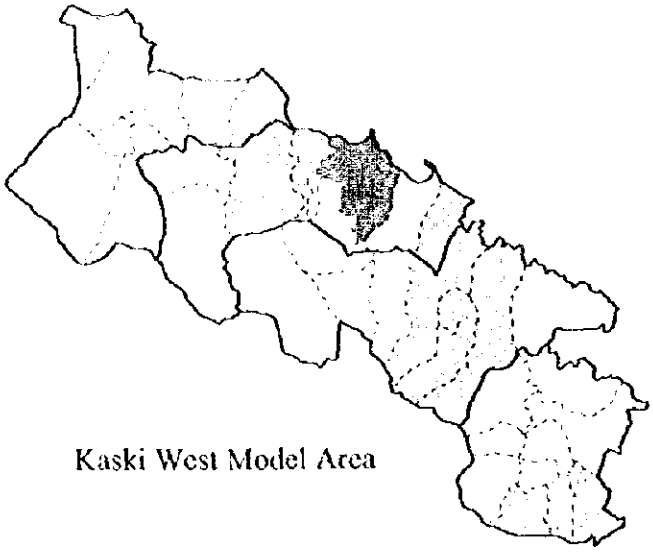
- Damage Ratio = 0%
- 0% < Damage Ratio <= 5%
- 5% < Damage Ratio <= 10%
- 10% < Damage Ratio <= 20%
- 20% < Damage Ratio <= 30%
- 30% < Damage Ratio

Data Source:
Household Survey (Q-III-2)

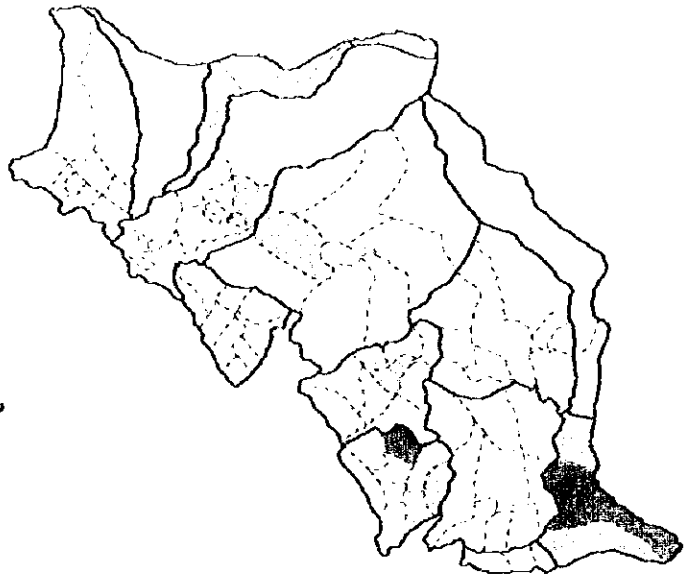
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Households Whose Farms Have Been Regularly Damaged By Soil Erosion (%)

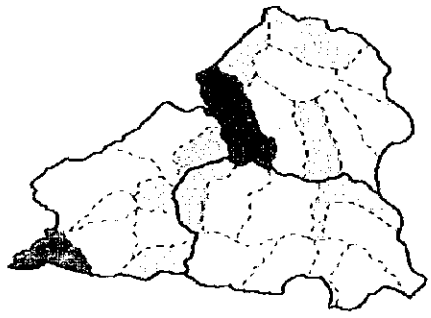


Kaski West Model Area

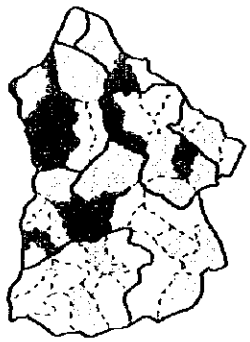


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100

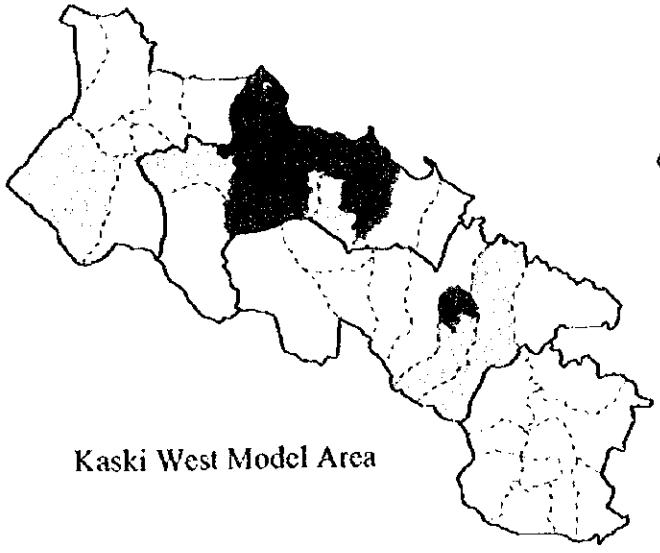
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-B-9: both sex)

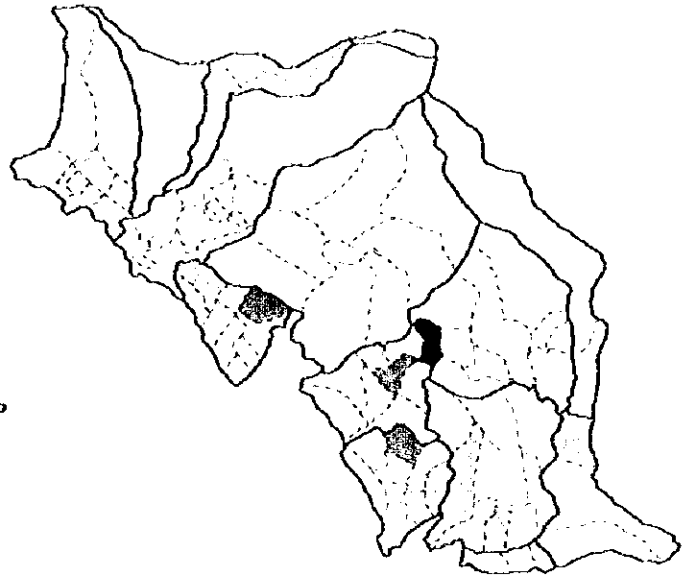
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Terrace Maintenance)

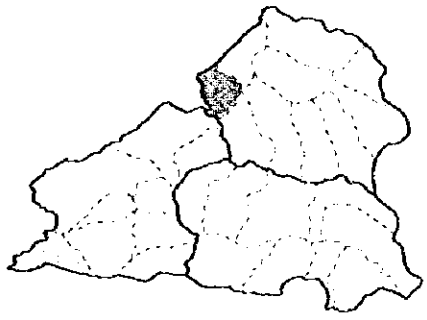


Kaski West Model Area

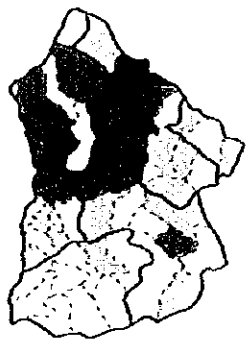


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100

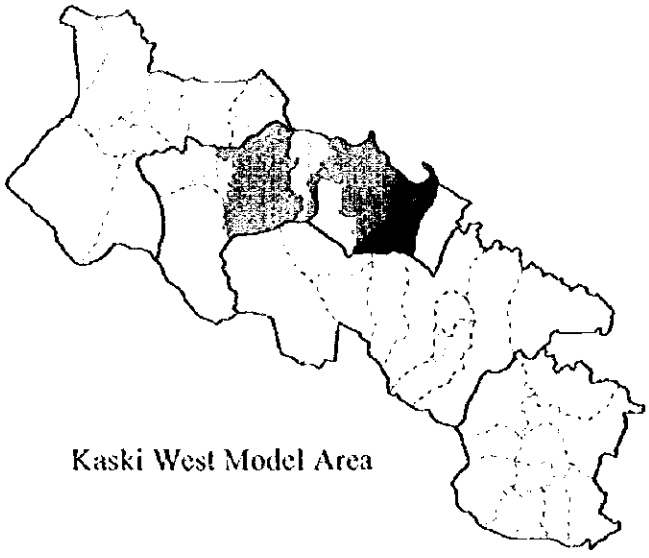
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-B-19)

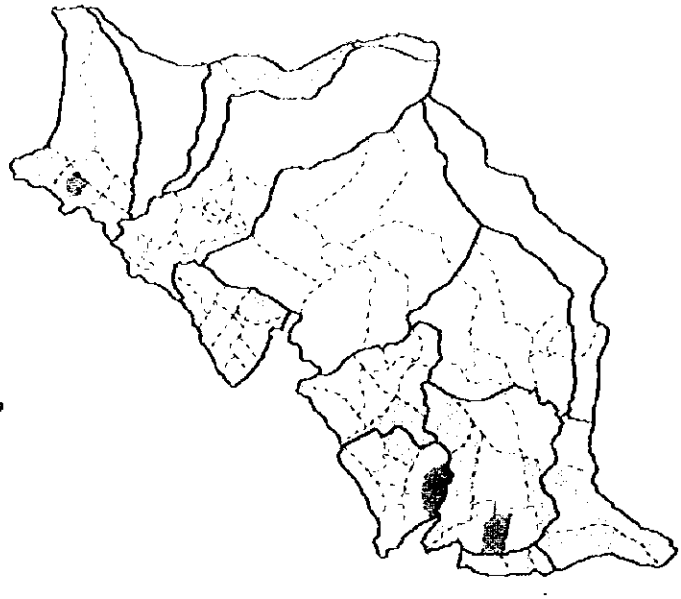
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Land Slide & Soil Erosion)

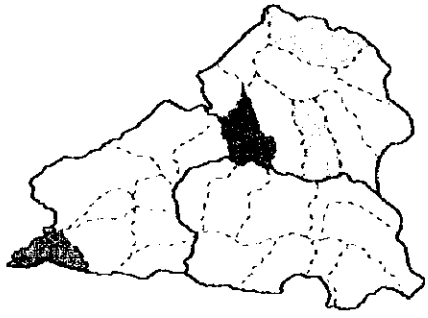


Kaski West Model Area

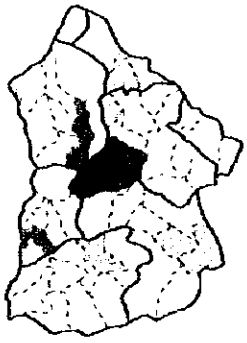


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100

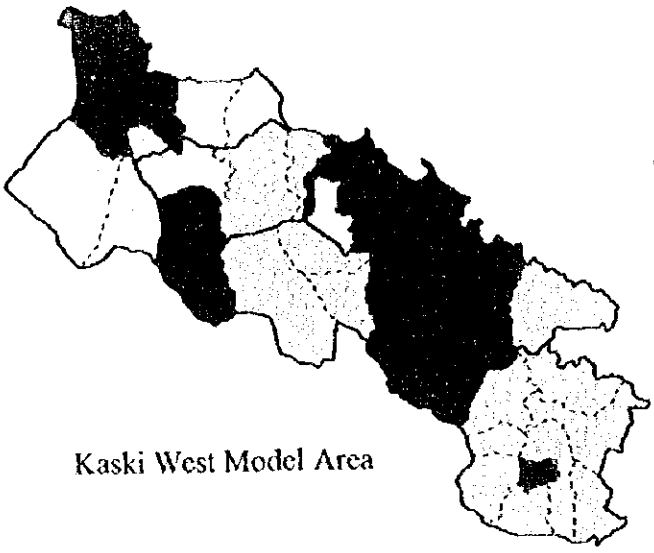
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-B-20: both sex)

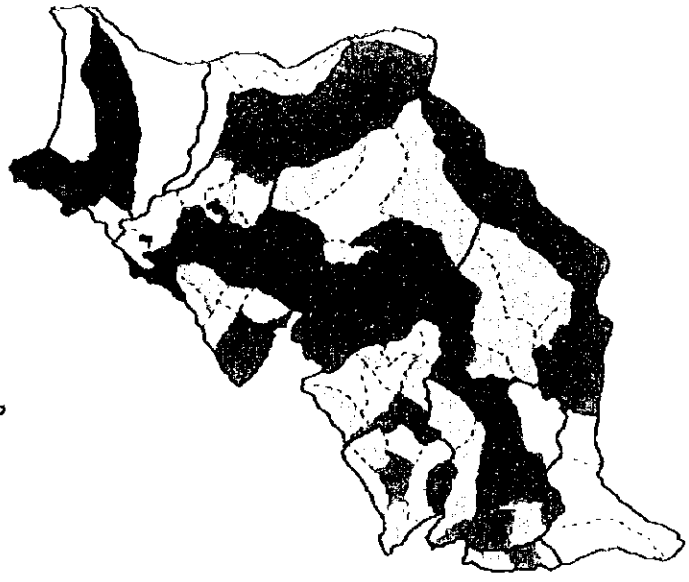
Scale : 1/200,000

0 2 4 6 8 10 kilometers

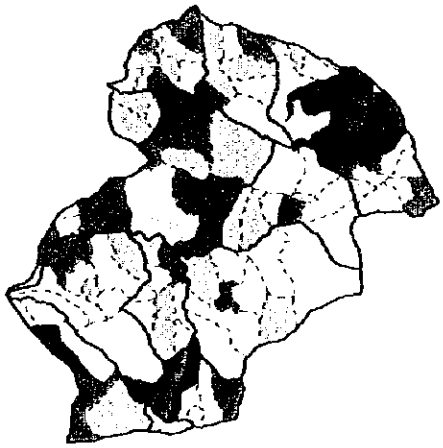
Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Flood)



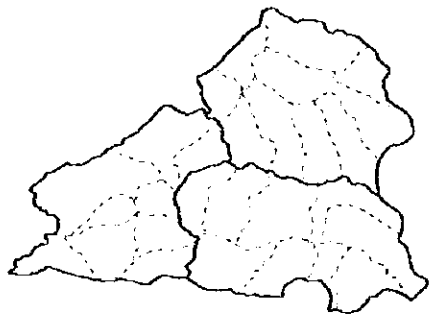
Kaski West Model Area



Kaski North Model Area



Parbat North Model Area



Kaski East Model Area

Parbat South Model Area

LEGEND

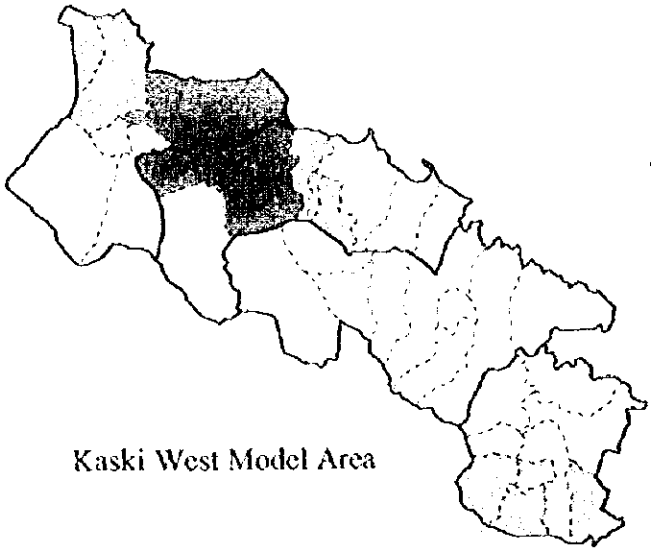
- Score <= 50 points
- 50 < Score <= 60 points
- 60 < Score <= 70 points
- 70 < Score <= 80 points
- 80 < Score <= 90 points
- 90 points < Score

Data Source:
Household Member Survey (Q-B-21)

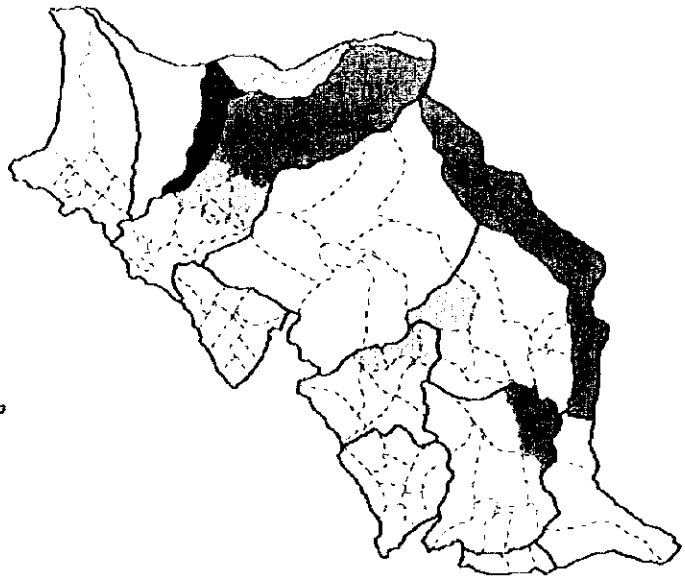
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern on Forest Resource (expressed by score)

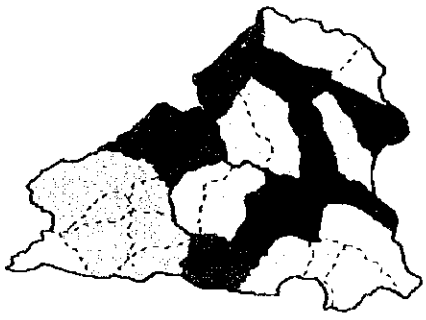


Kaski West Model Area



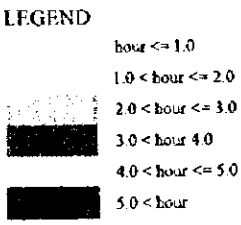
Kaski North Model Area

Parbat North Model Area



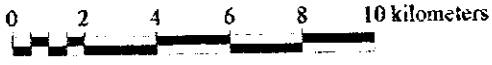
Kaski East Model Area

Parbat South Model Area

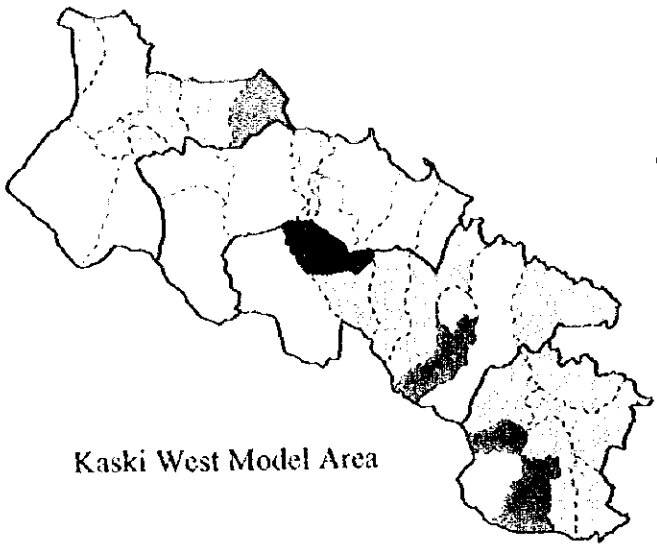


Data Source:
VDC/Ward Profile

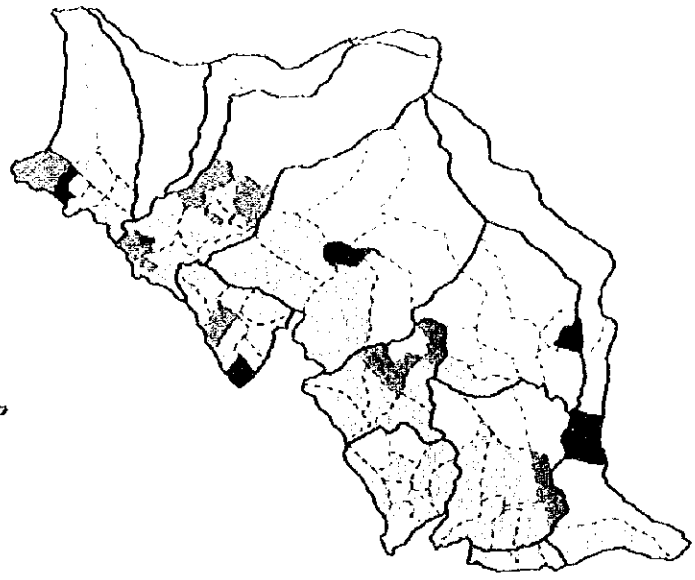
Scale : 1/200,000



Average Walking Distance to the Closest Motorable Road

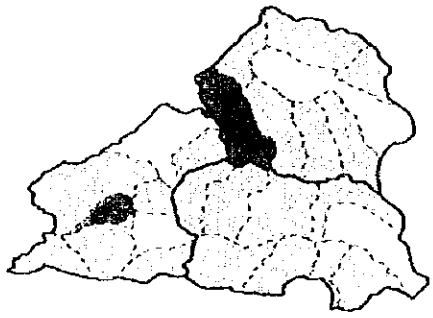


Kaski West Model Area



Kaski North Model Area

Parbat North Model Area



Kaski East Model Area

LEGEND

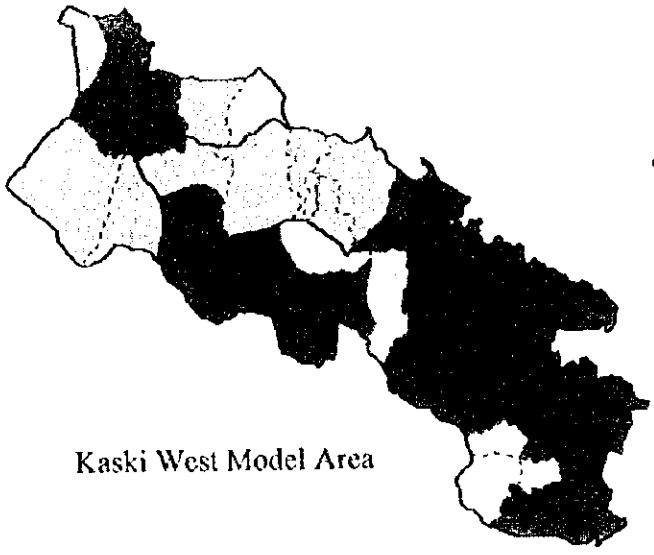
- L.U. <= 1.0
- 1.0 < L.U. <= 2.0
- 2.0 < L.U. <= 3.0
- 3.0 < L.U. <= 4.0
- 4.0 < L.U.

Parbat South Model Area

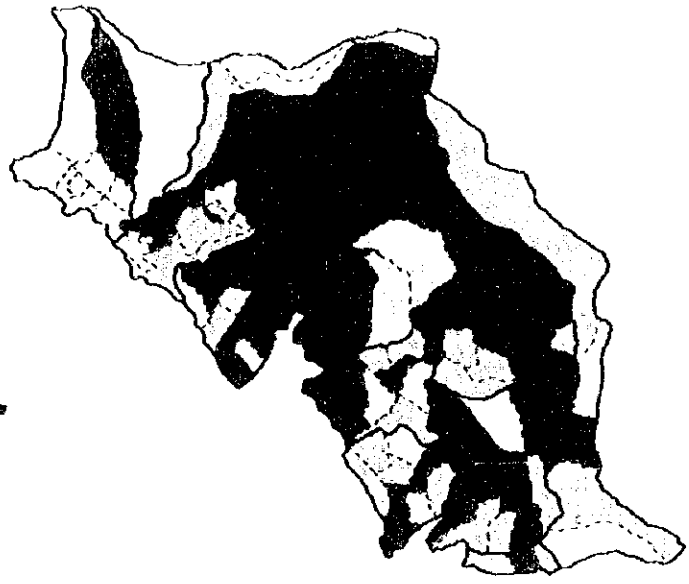
Data Source:
Measurement by GIS (Area of Ward)
Household Survey (Ave. pop. of livestock per HH)

Scale : 1/200,000

Average Livestock Unit (L.U.) per ha

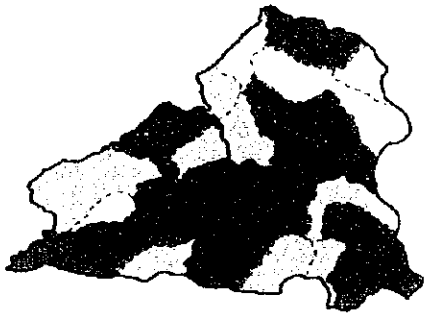


Kaski West Model Area



Kaski North Model Area

Parbat North Model Area



Kaski East Model Area

Parbat South Model Area

LEGEND

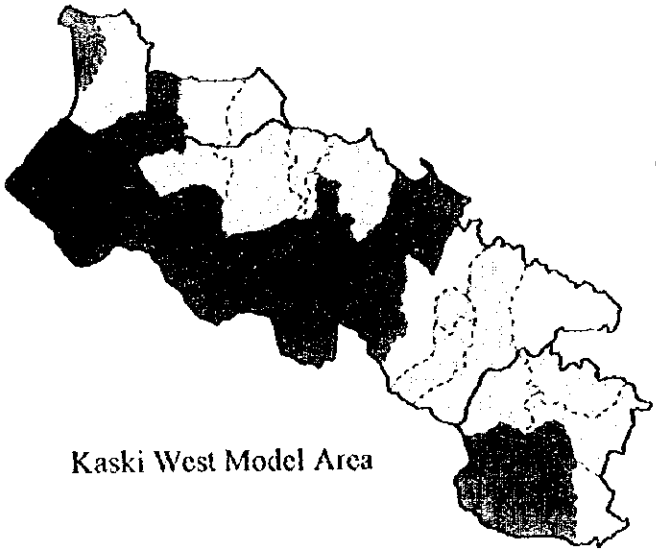
- 0.12ha < Farm size/person
- 0.09ha < Farm Size/person <= 0.12ha
- 0.06ha < Farm Size/person <= 0.09ha
- 0.03ha < Farm Size/person <= 0.06ha
- Farm Size/person <= 0.03ha

Data Source:
Household Survey (Q-I-2 & III-1)

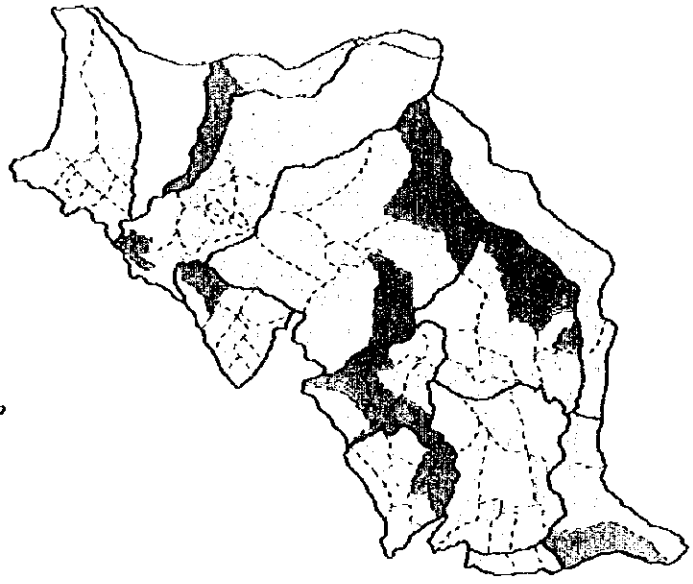
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Farm Size per Person

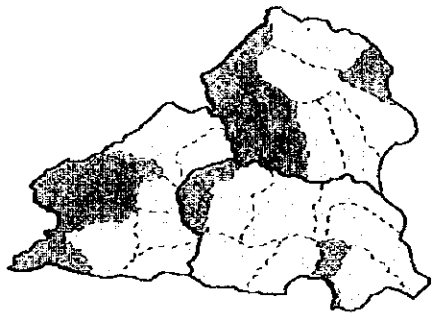


Kaski West Model Area

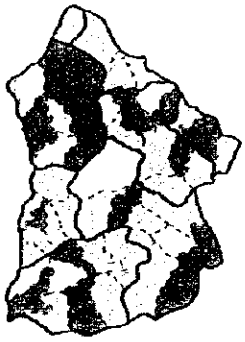


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

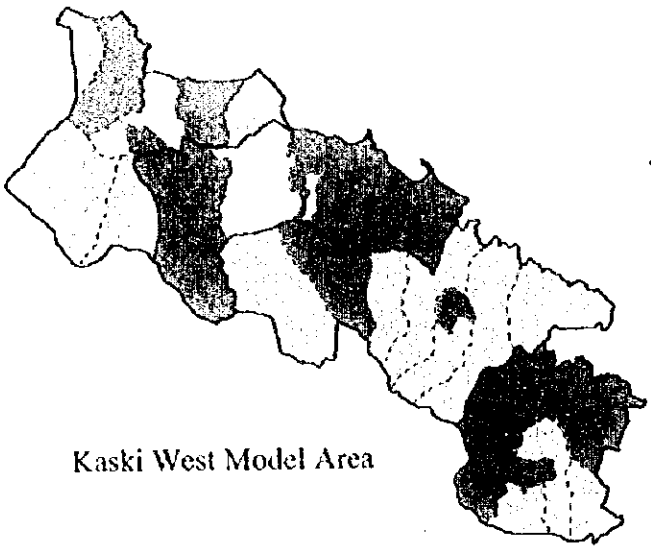
- Absentee Ratio < 10%
- 10% < Absentee Ratio <= 20%
- 20% < Absentee Ratio <= 30%
- 30% < Absentee Ratio <= 40%
- 40% < Absentee Ratio

Data Source:
Household Survey (Q-I-3)

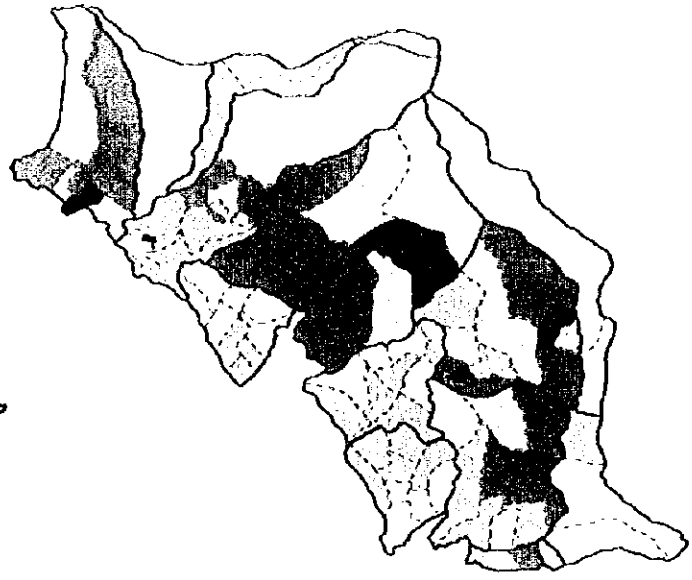
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Absent Household Members

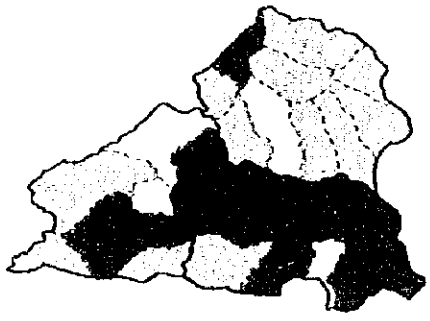


Kaski West Model Area



Kaski North Model Area

Parbat North Model Area



Kaski East Model Area

Parbat South Model Area

LEGEND

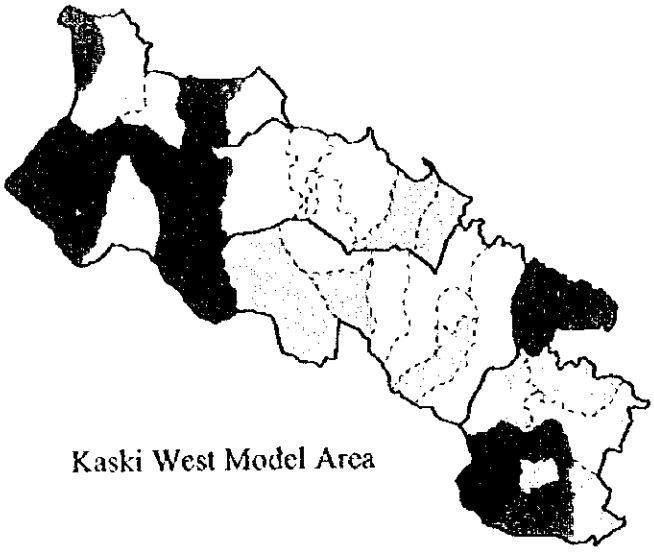
- Ratio <= 20%
- 20% < Ratio <= 30%
- 30% < Ratio <= 40%
- 40% < Ratio <= 50%
- 50% < Ratio <= 60%
- 60% < Ratio

Data Source:
Household Survey (Q-I-3)

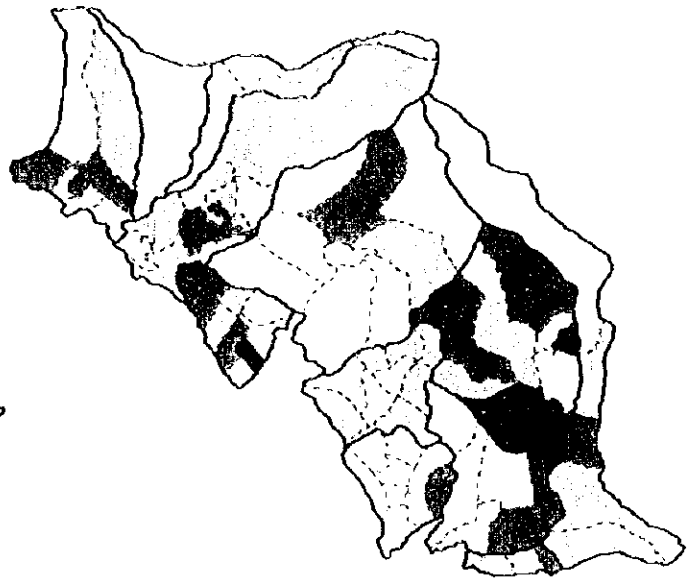
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Population Without Formal Education (15 - 60 years old)

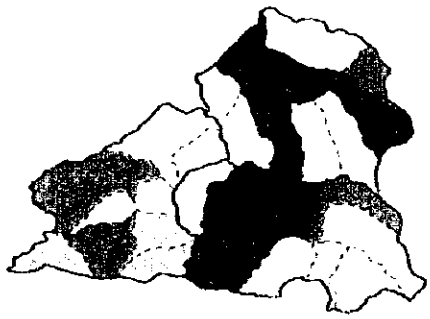


Kaski West Model Area

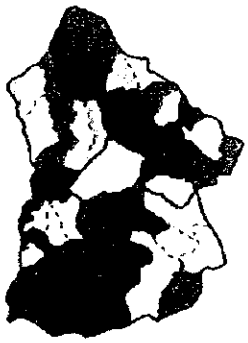


Kaski North Model Area

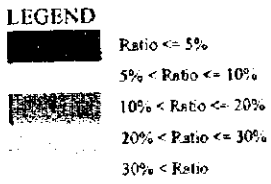
Parbat North Model Area



Kaski East Model Area



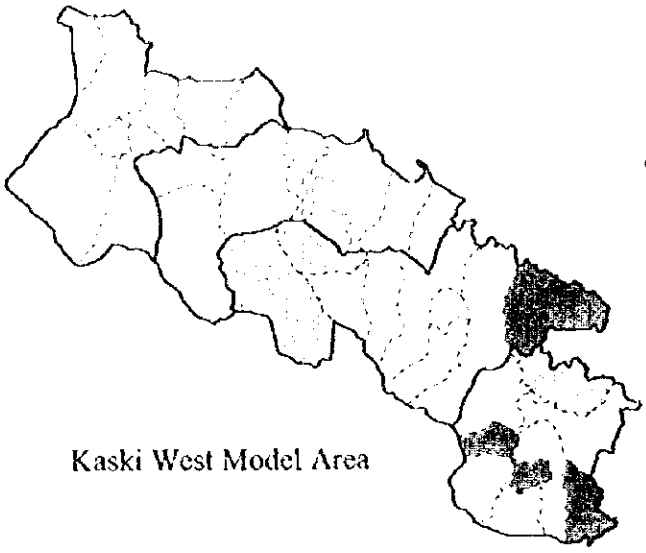
Parbat South Model Area



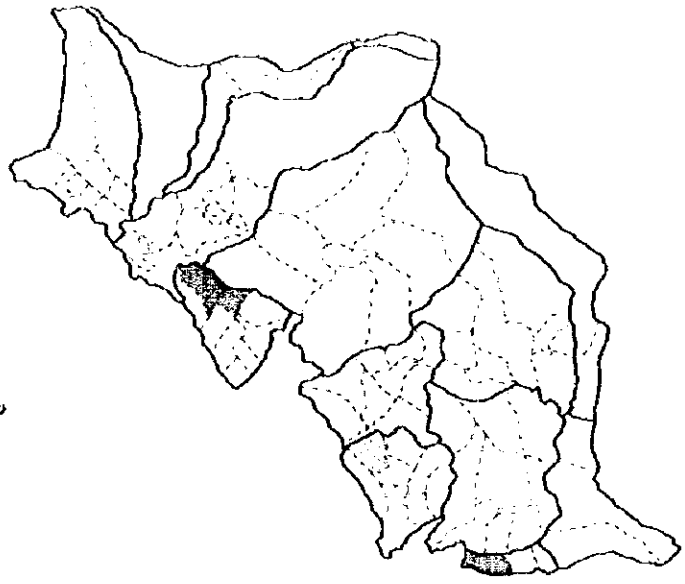
Data Source:
Household Survey (Q-I-3)

Scale : 1/200,000

Proportion of Organizational Members Among Adult Population (15 years old <=)

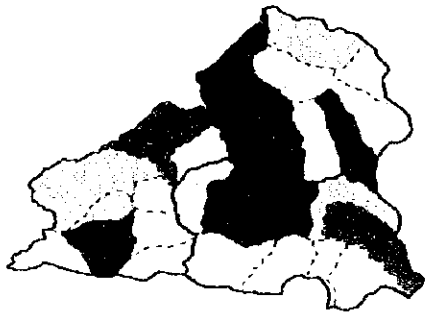


Kaski West Model Area

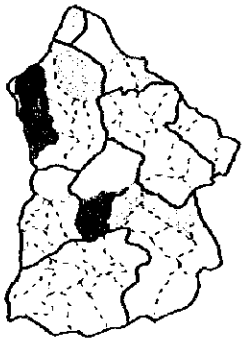


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

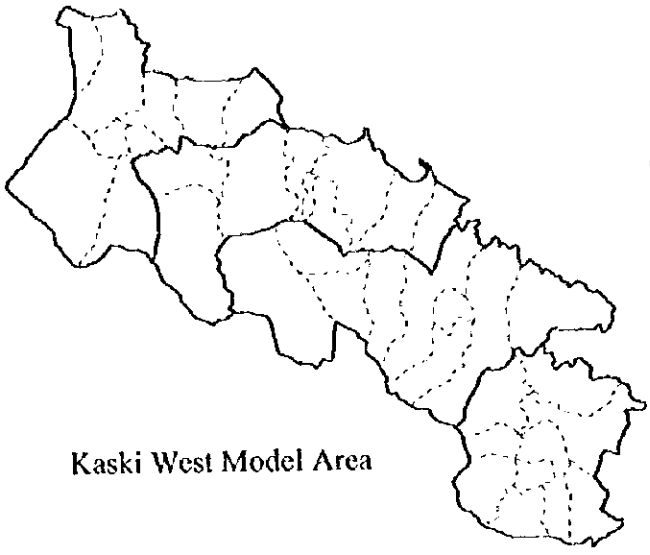
- Ratio <= 5%
- 5 < Ratio <= 10%
- 10 < Ratio <= 20%
- 20 < Ratio <= 30%
- 30 < Ratio <= 40%
- 40% < Ratio

Data Source:
Household Survey (Q-1-3)

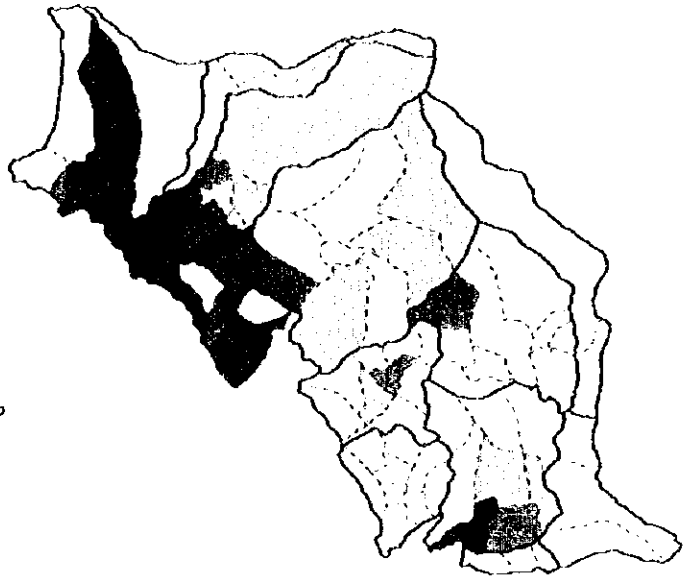
Scale : 1/200,000

0 2 4 6 8 10 kilometers

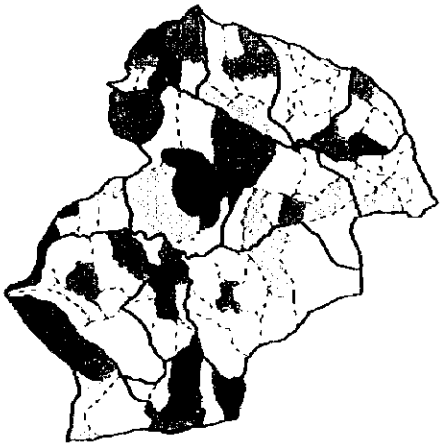
Proportion of Householdsm Facing Severe Water Shortage in Dry Season



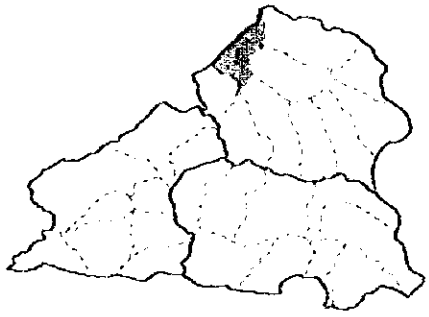
Kaski West Model Area



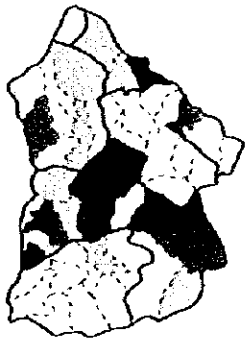
Kaski North Model Area



Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

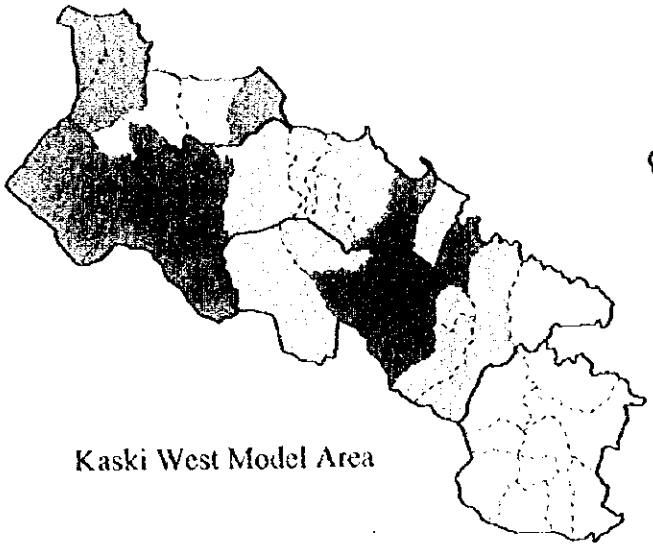
- Ratio <= 10%
- 10 < Ratio <= 20%
- 20 < Ratio <= 30%
- 30 < Ratio <= 40%
- 40 < Ratio <= 50%
- 50% < Ratio

Data Source:
Household Survey (Q-I-3)

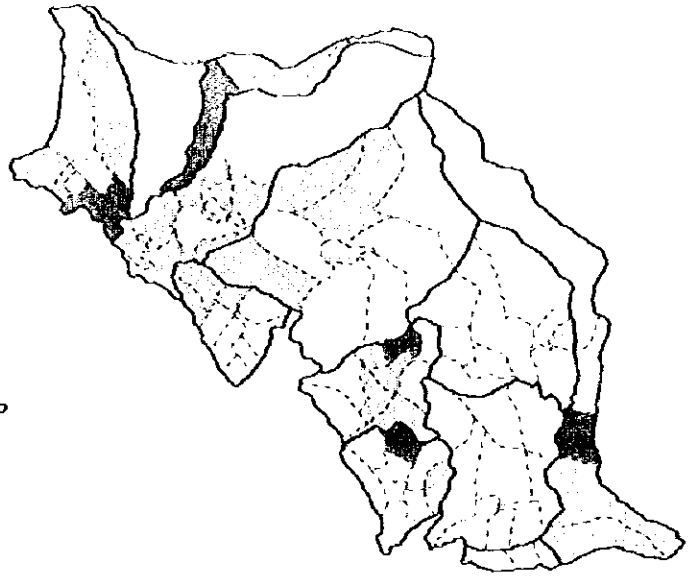
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Households Facing Severe Difficulty in Obtaining Fuelwood



Kaski West Model Area



Kaski North Model Area

Parbat North Model Area

Kaski East Model Area

LEGEND

- Annual Consumption <= 300kg/person
- 300 < Annual Consumption <= 500kg/person
- 500 < Annual Consumption <= 700kg/person
- 700 < Annual Consumption <= 900kg/person
- 900 < Annual Consumption <= 1100kg/person
- 1100kg/person < Annual Consumption

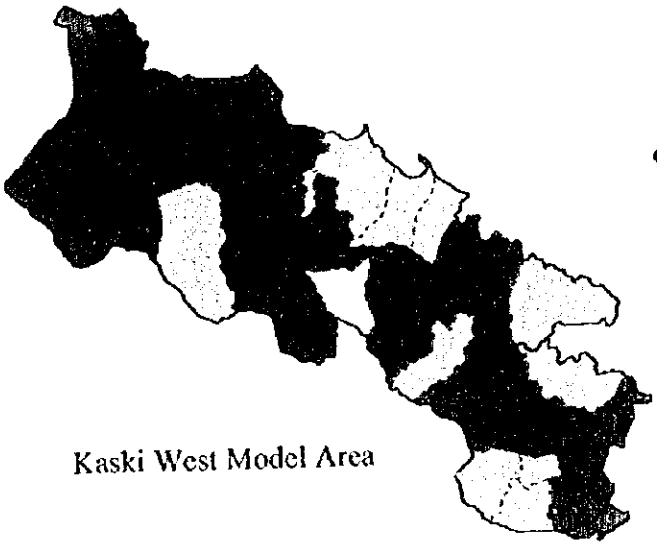
Parbat South Model Area

Data Source:
Household Survey (Q-II-3)

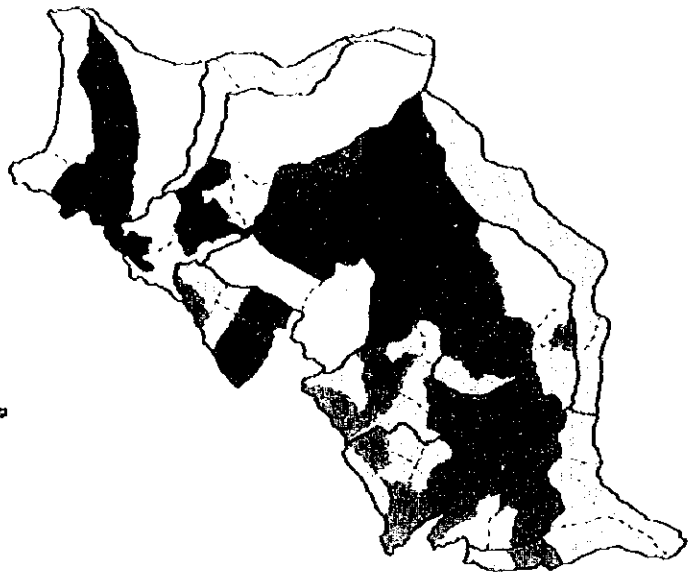
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Annual Per Capita Consumption of Fuelwood

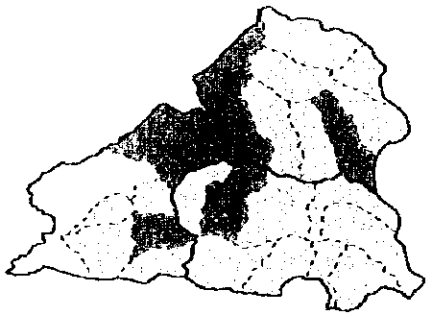


Kaski West Model Area

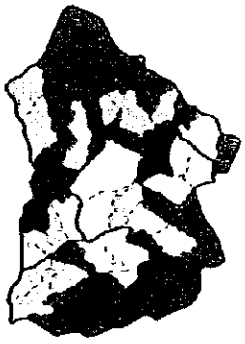


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

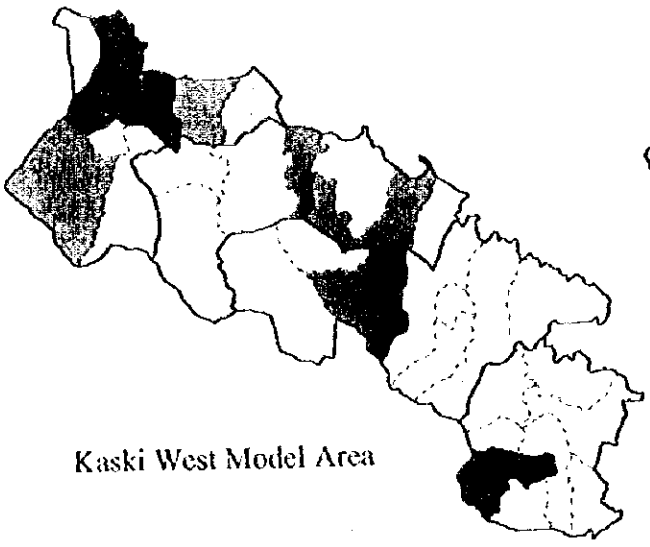
- Distance <= 20 min.
- 20 < Distance <= 40 min.
- 40 < Distance <= 60 min.
- 60 < Distance <= 80 min.
- 80 min. < Distance

Data Source:
Household Survey (Q-II-4)

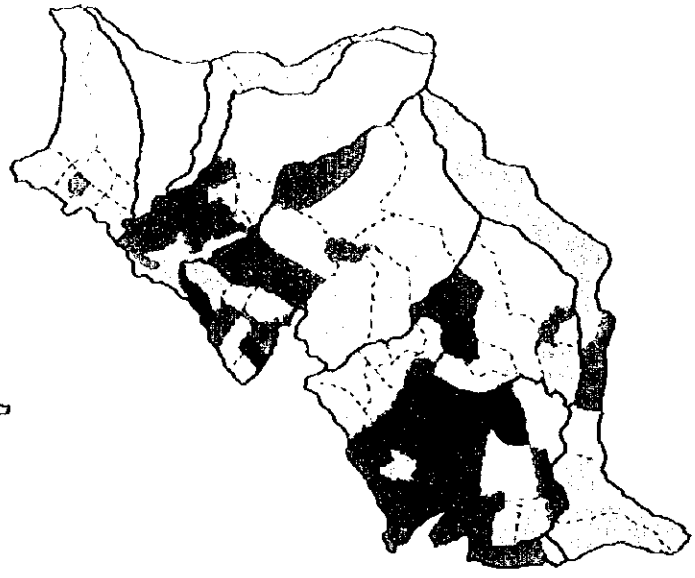
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Walking Distance to Fuelwood Forest (one way)

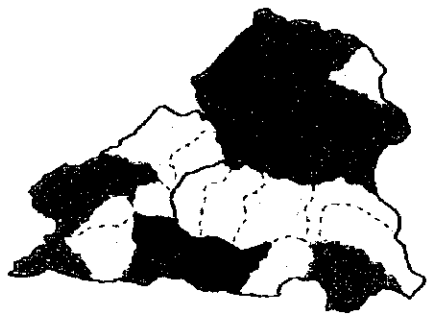


Kaski West Model Area



Kaski North Model Area

Parbat North Model Area



Kaski East Model Area

Parbat South Model Area

LEGEND

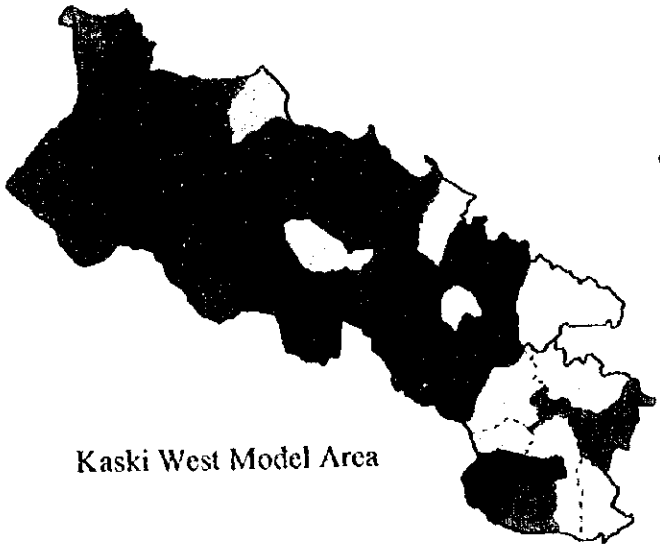
- Ratio <= 30%
- 30 < Ratio <= 50%
- 50 < Ratio <= 70%
- 70 < Ratio <= 90%
- 90% < Ratio

Data Source:
Household Survey (Q-II-5)

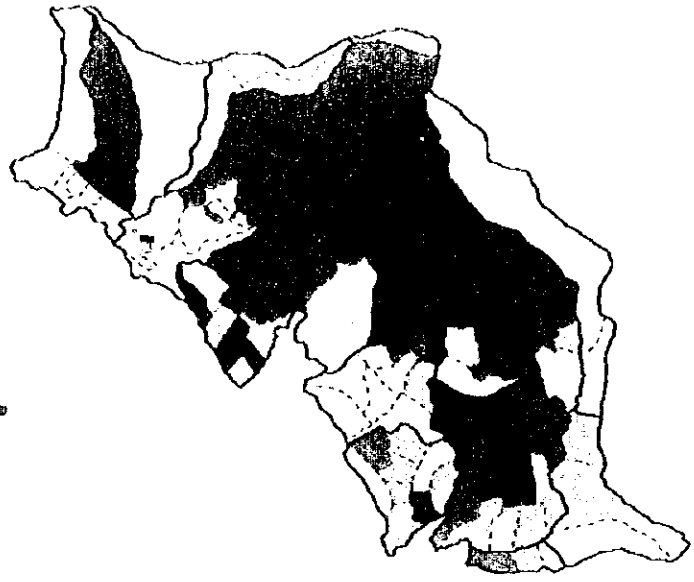
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Households Whose Cereal Production Do Not Meet the Home Demand

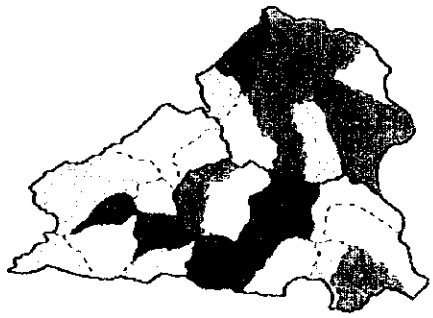


Kaski West Model Area

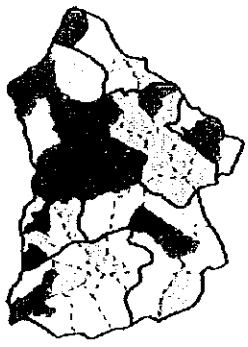


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

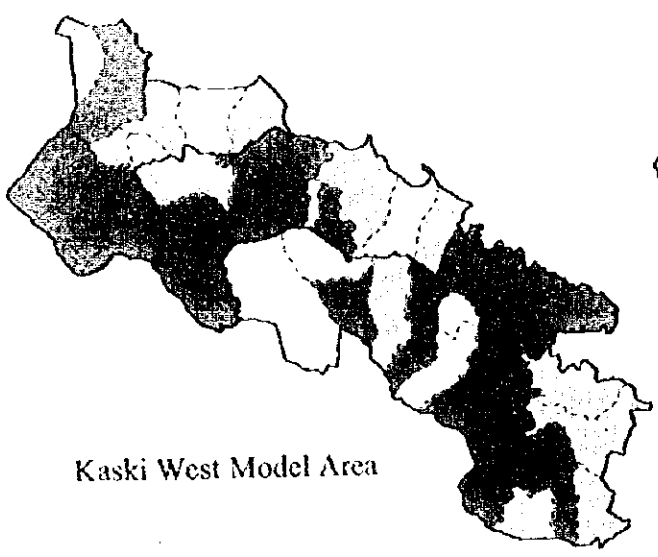
- Deficit months <= 2.0
- 2.0 < Deficit month <= 3.0
- 3.0 < Deficit month <= 4.0
- 4.0 < Deficit month <= 5.0
- 5.0 < Deficit month <= 6.0
- 6.0 < Deficit month

Data Source:
Household Survey (Q-II-5)

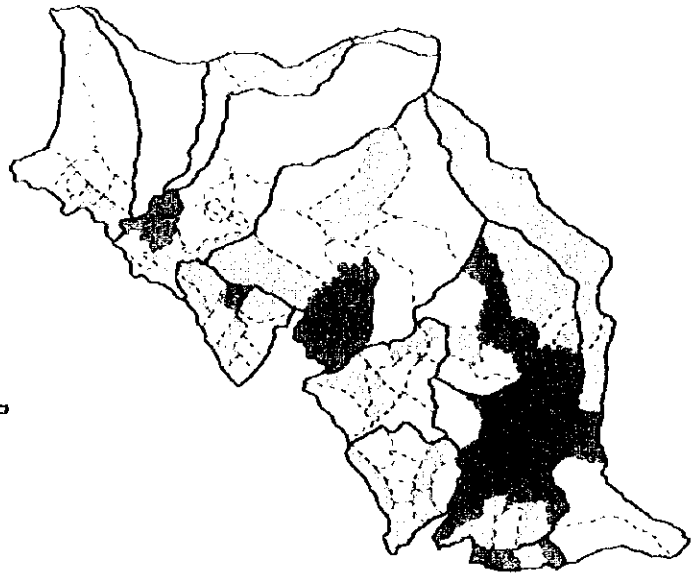
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Deficit Months of Cereal

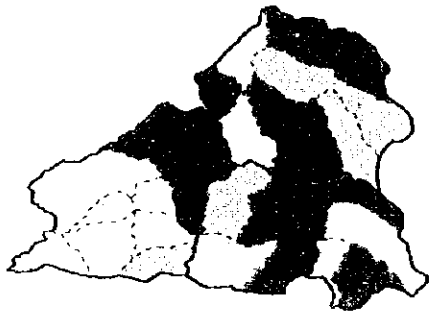


Kaski West Model Area



Kaski North Model Area

Parbat North Model Area



Kaski East Model Area

LEGEND

- Not Available
- Availability <= 20%
- 20 < Availability <= 40%
- 40 < Availability <= 60%
- 60 < Availability <= 80%
- 80% < Availability

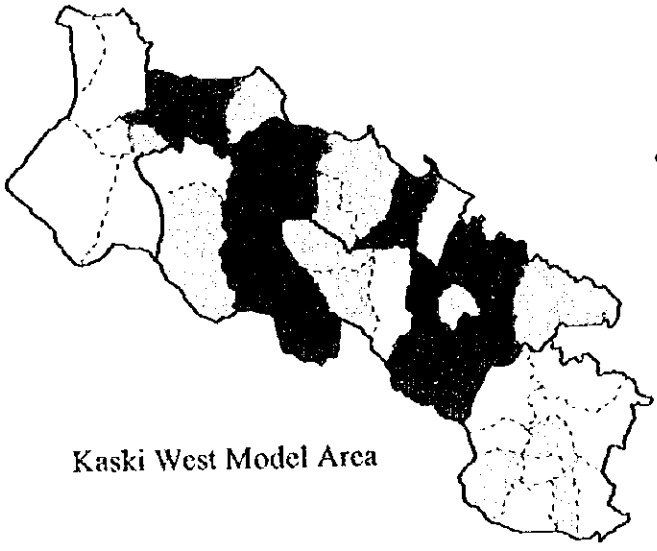
Data Source:
Household Survey (Q-II-9)

Parbat South Model Area

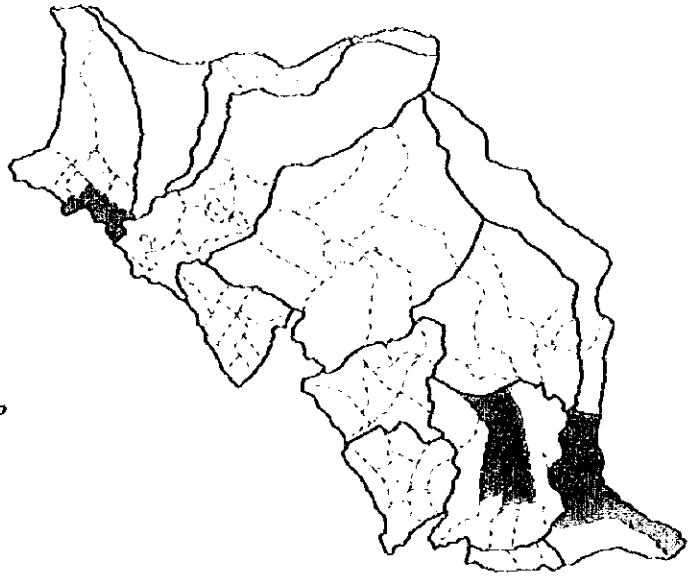
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Households Having Toilet At Home

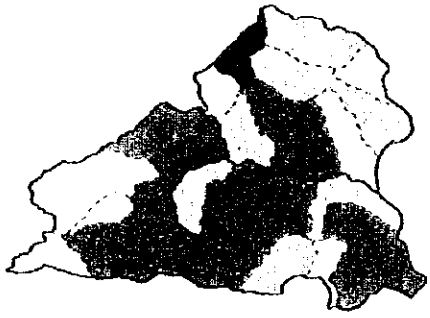


Kaski West Model Area

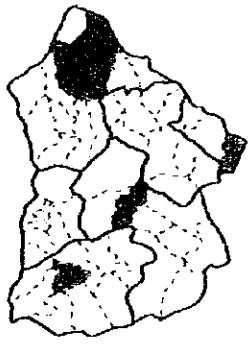


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

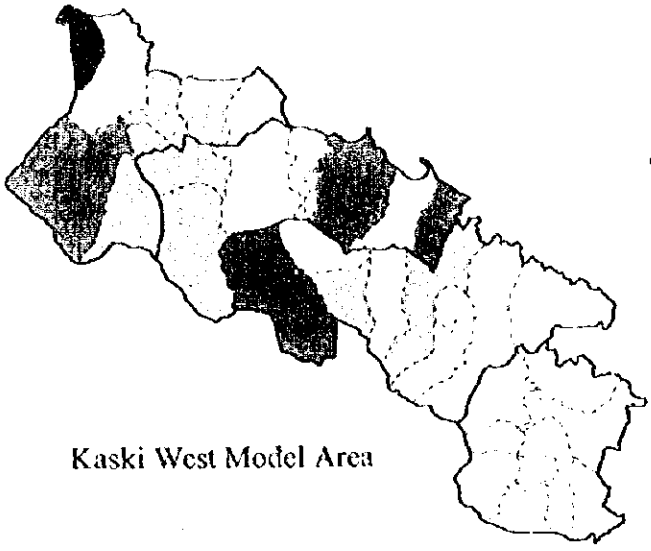
- Ratio=0%
- 0< Ratio <=5%
- 5 < Ratio <= 10%
- 10 < Ratio <= 20%
- 20 < Ratio <= 30%
- 30% < Ratio

Data Source:
Household Survey (Q-IV-1)

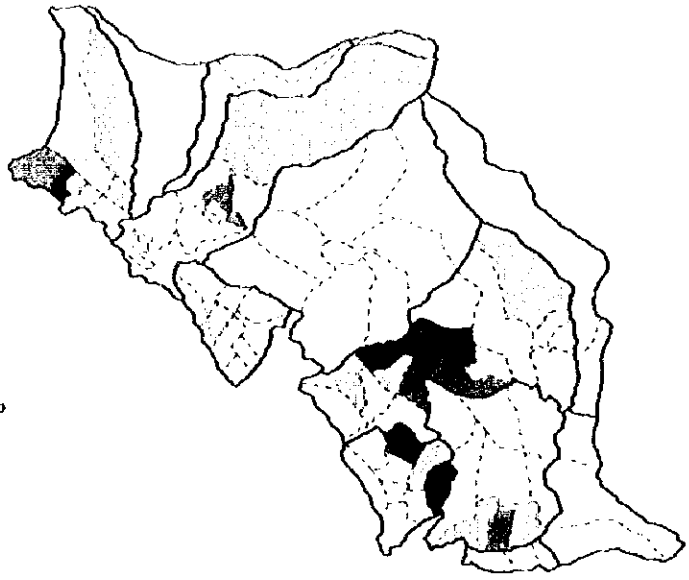
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Households Facing Severe Difficulty in Obtaining Livestock Feed in the Dry Season

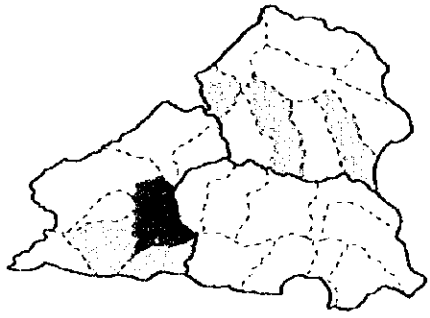


Kaski West Model Area

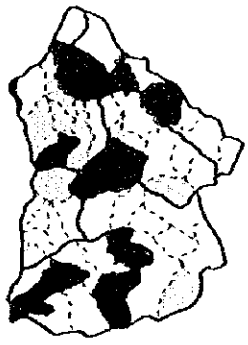


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

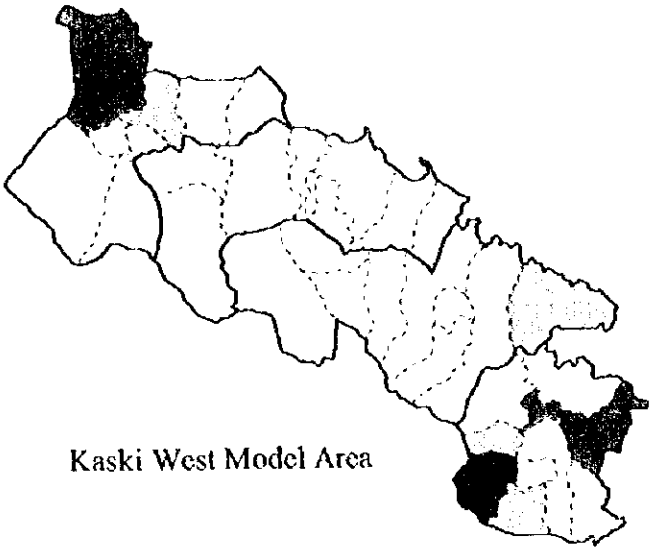
- Ratio <= 10%
- 10 < Ratio <= 20%
- 20 < Ratio <= 30%
- 30 < Ratio <= 40%
- 40 < Ratio <= 50%
- 50% < Ratio

Data Source:
Household Survey (Q-V-1)

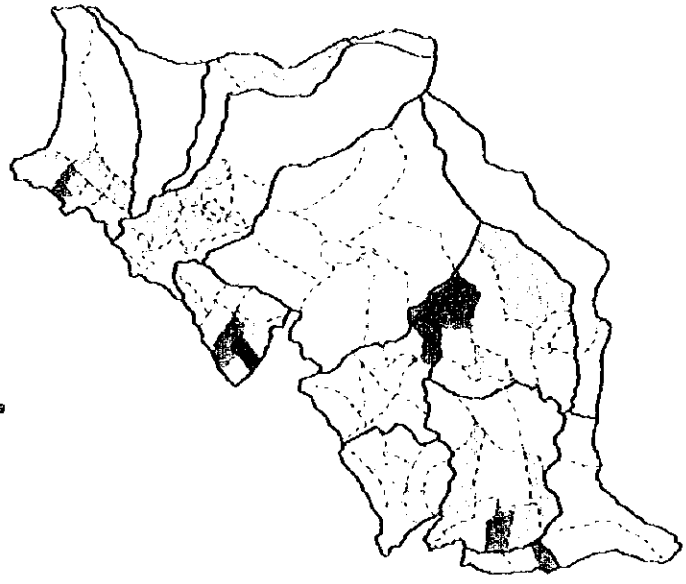
Scale : 1/200,000

0 2 4 6 8 10 kilometers

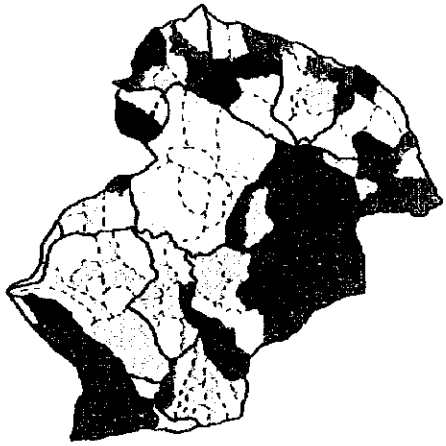
Proportion of Households Who Own Private Forest



Kaski West Model Area

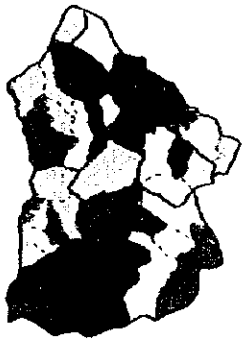


Kaski North Model Area



Parbat North Model Area

Kaski East Model Area



Parbat South Model Area

LEGEND

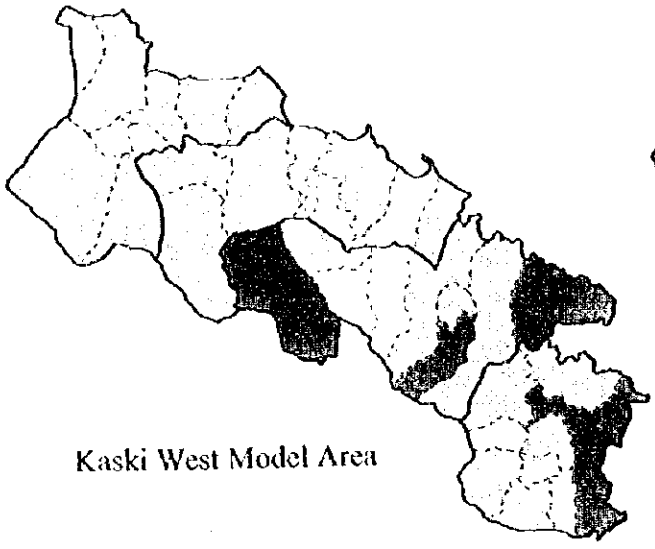
- Ratio = 0%
- 0 < Ratio <= 20%
- 20 < Ratio <= 40%
- 40 < Ratio <= 60%
- 60 < Ratio <= 80%
- 80% < Ratio

Data Source:
Household Survey (Q-V-2)

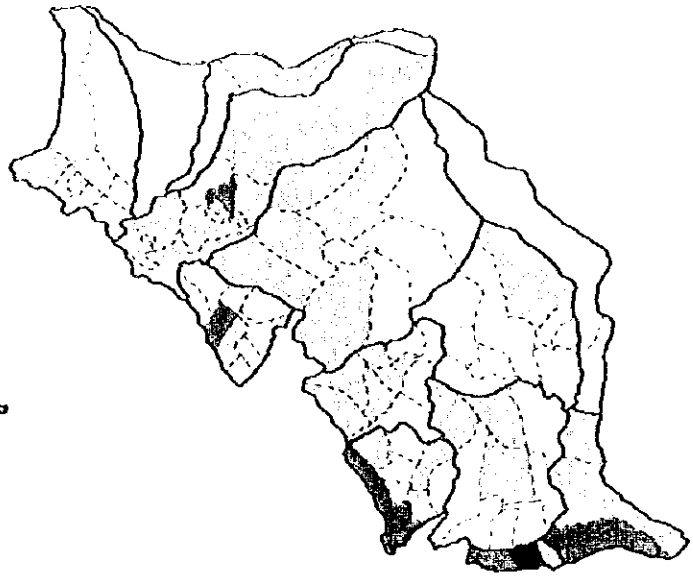
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Households Belonging to Forest Users' Group (formal & informal)



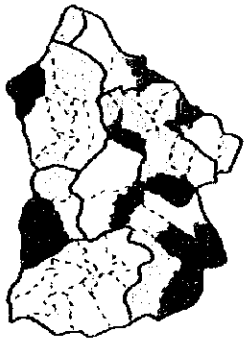
Kaski West Model Area



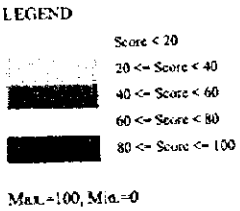
Kaski North Model Area

Parbat North Model Area

Kaski East Model Area

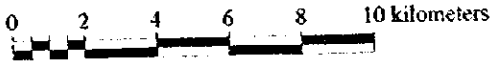


Parbat South Model Area

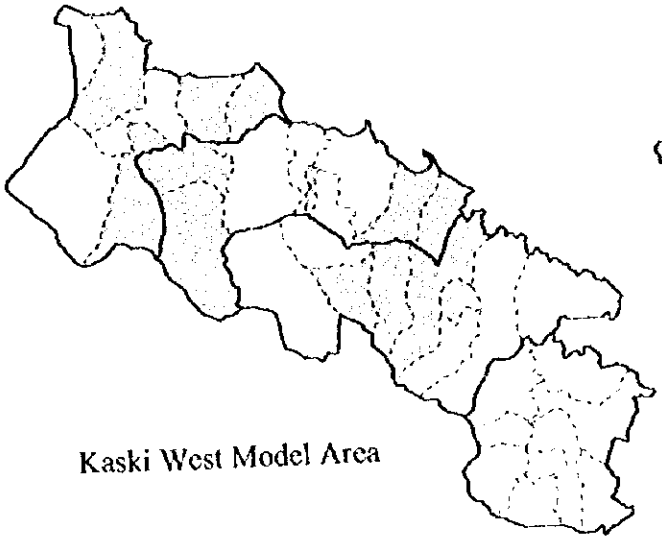


Data Source:
Household Member Survey (Q-A-1: Female)

Scale : 1/200,000



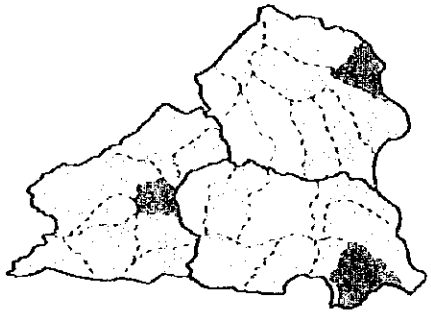
Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Female - Fetching Drinking Water)



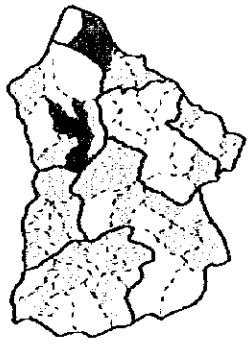
Kaski West Model Area

Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

Score < 20

20 <= Score < 40

40 <= Score < 60

60 <= Score < 80

80 <= Score <= 100

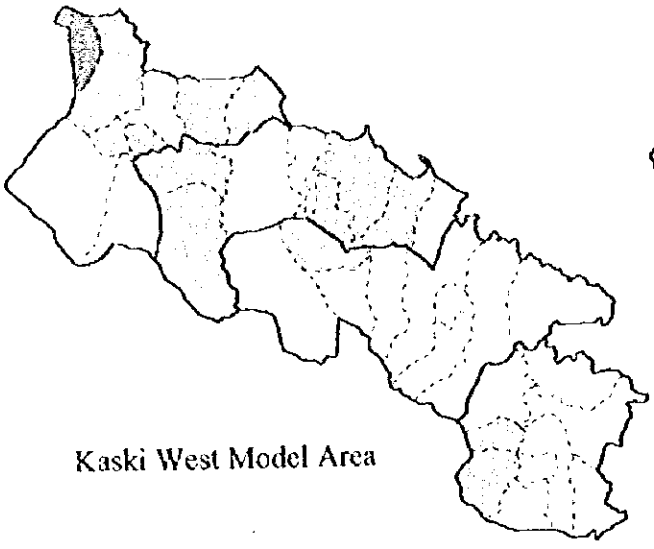
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-A-2: Female)

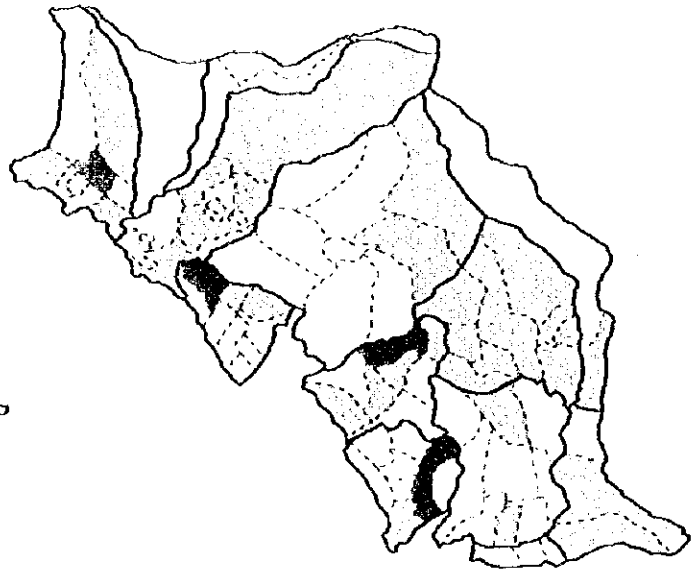
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Female - Cooking)

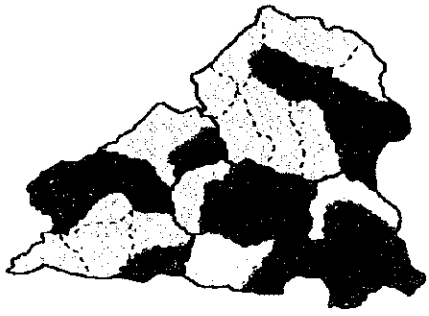


Kaski West Model Area

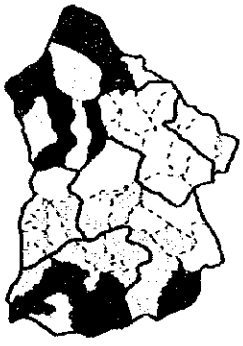


Kaski North Model Area

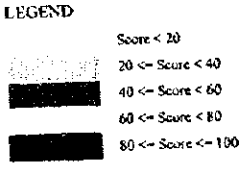
Parbat North Model Area



Kaski East Model Area



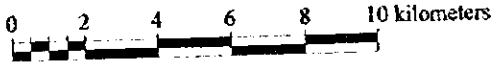
Parbat South Model Area



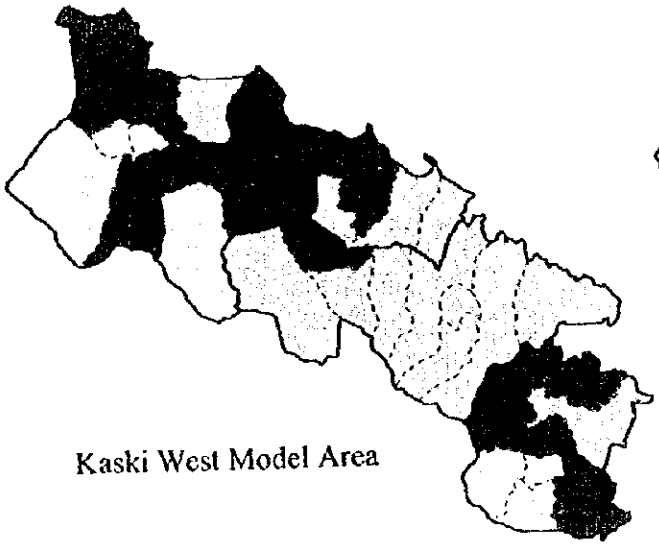
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-A-9: Male)

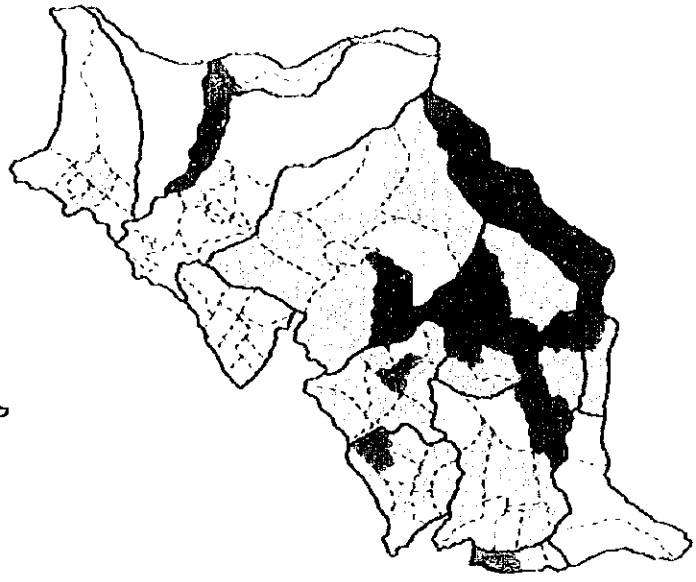
Scale : 1/200,000



Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Male - Shopping to bazaar)

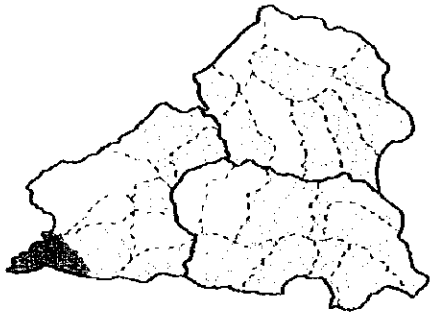


Kaski West Model Area

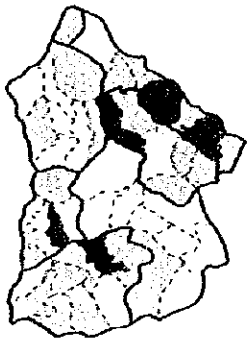


Kaski North Model Area

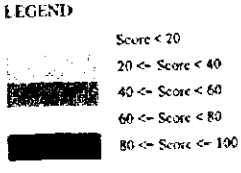
Parbat North Model Area



Kaski East Model Area



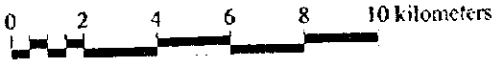
Parbat South Model Area



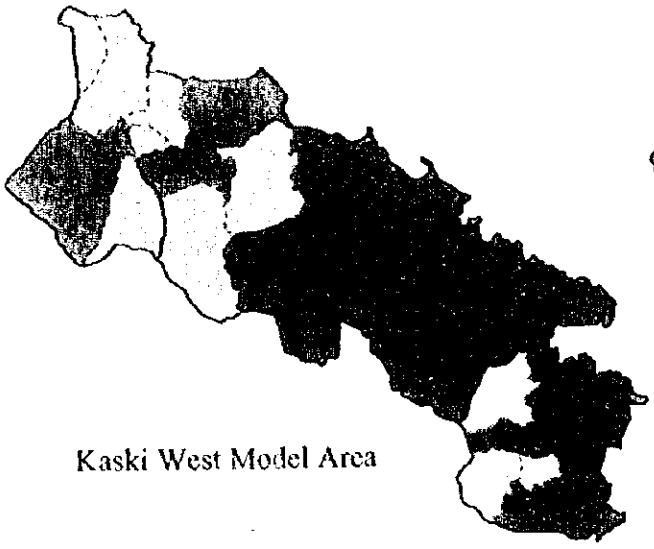
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-A-10: Male)

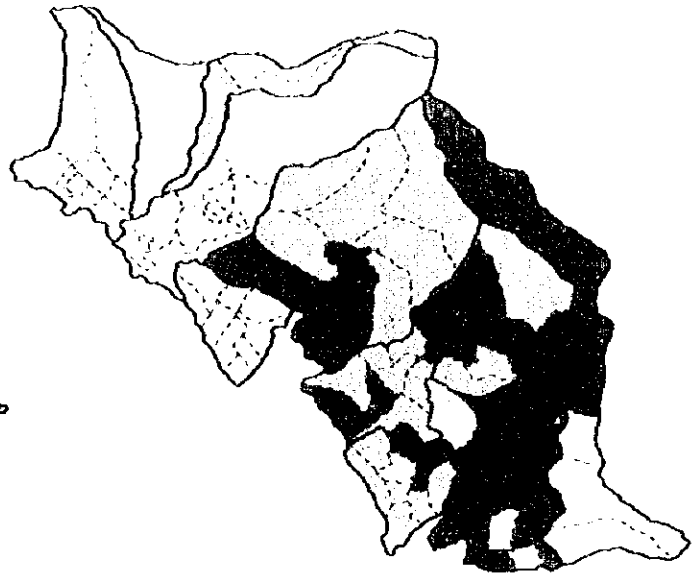
Scale : 1/200,000



Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Male - Plowing)

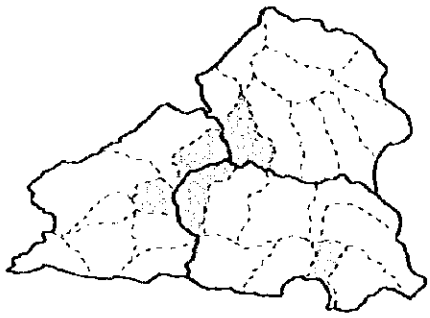


Kaski West Model Area



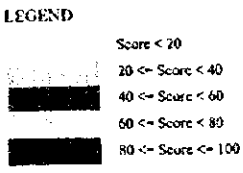
Kaski North Model Area

Parbat North Model Area



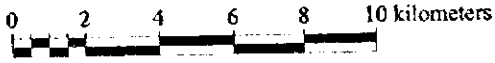
Kaski East Model Area

Parbat South Model Area

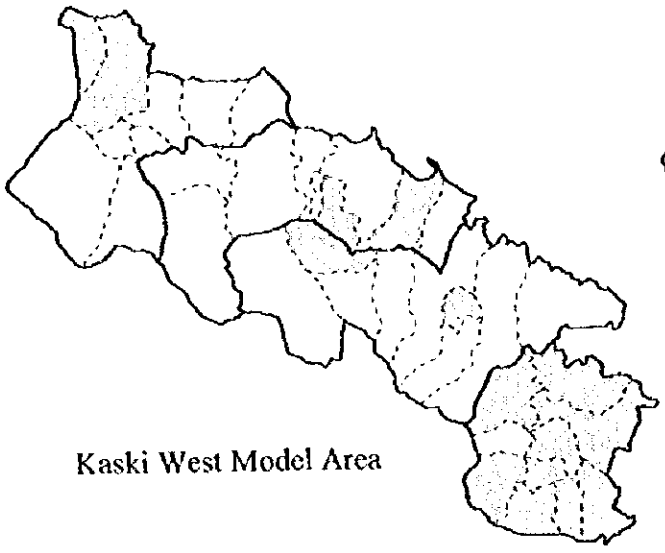


Data Source:
Household Member Survey (Q-A-13: Female)

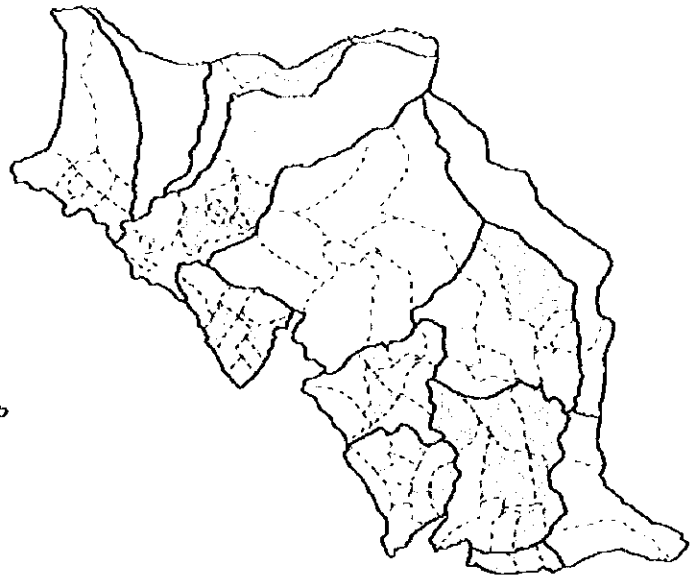
Scale : 1/200,000



Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Female - Transportation of compost)

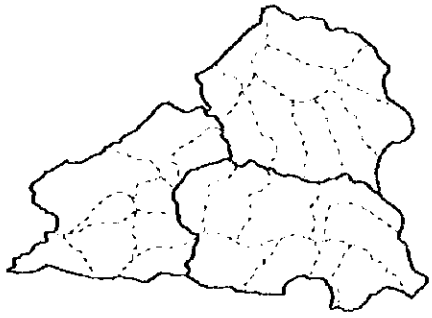


Kaski West Model Area

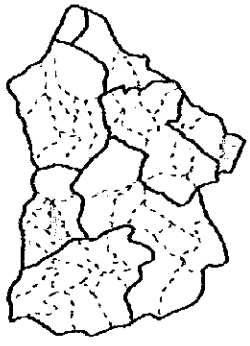


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

Score < 20
20 <= Score < 40
40 <= Score < 60
60 <= Score < 80
80 <= Score <= 100

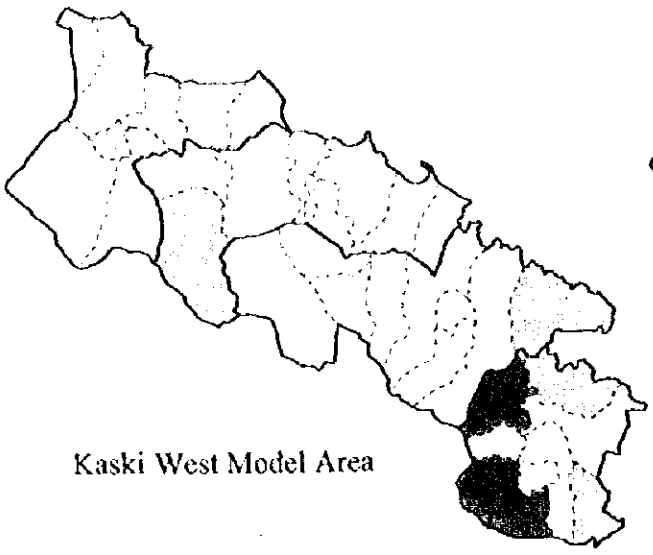
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-A-17: Female)

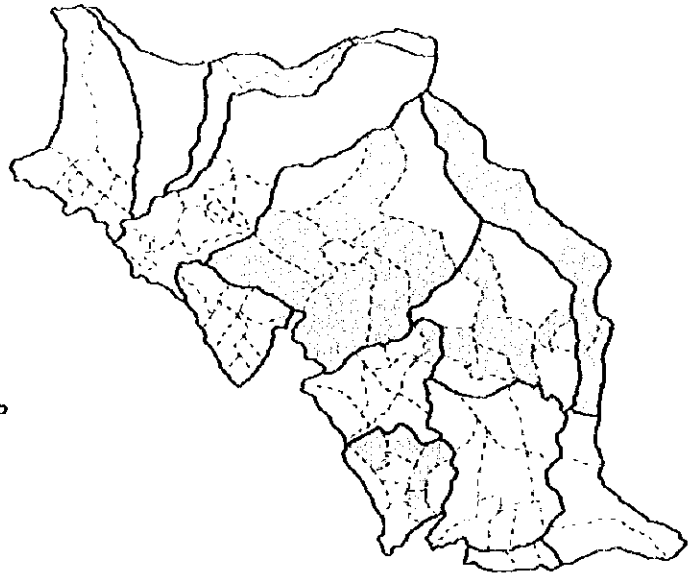
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Female - Threshing of cereals)

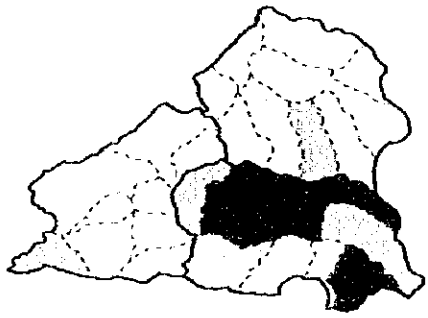


Kaski West Model Area

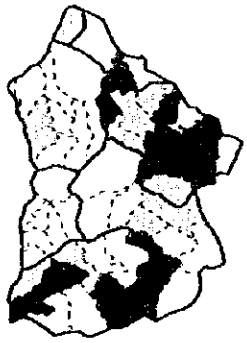


Kaski North Model Area

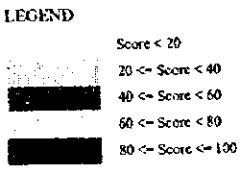
Parbat North Model Area



Kaski East Model Area



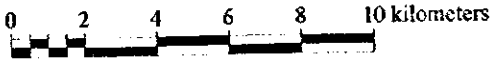
Parbat South Model Area



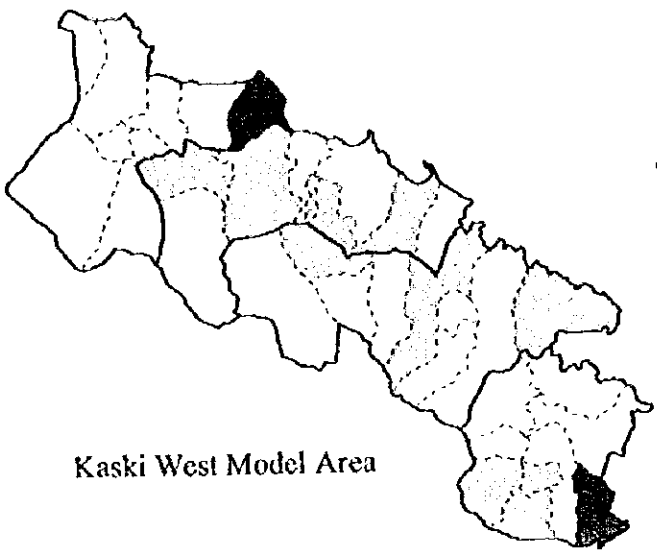
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-A-18: Female)

Scale : 1/200,000



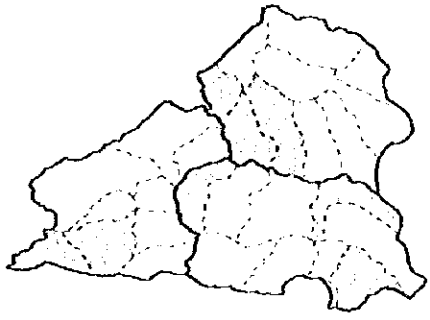
Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Female - Milling of cereals)



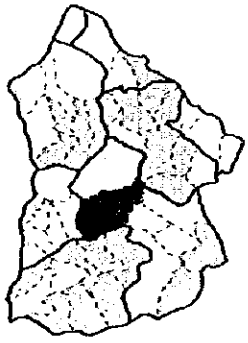
Kaski West Model Area

Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

Score < 20
20 <= Score < 40
40 <= Score < 60
60 <= Score < 80
80 <= Score <= 100

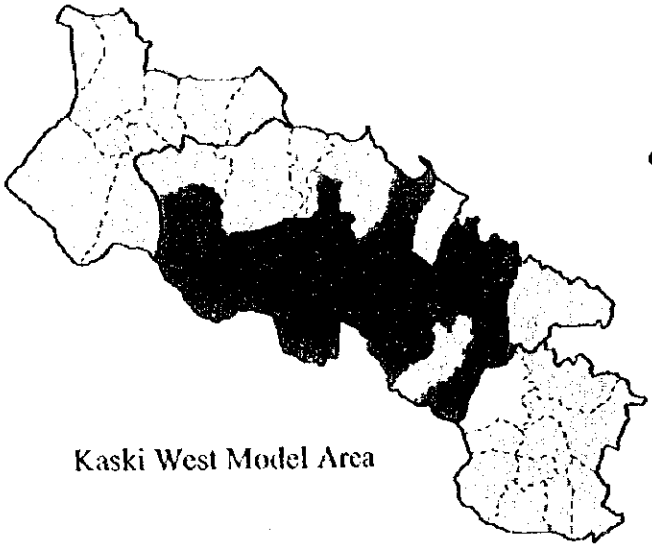
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-A-19: Male)

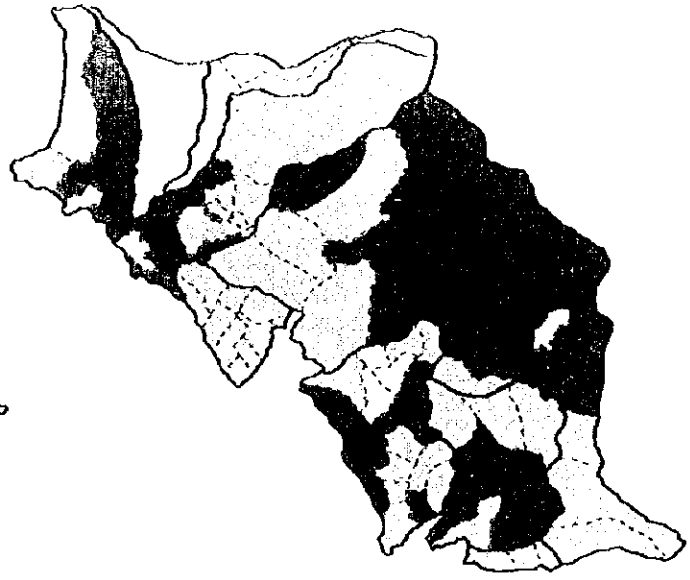
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Male - Terrace maintenance & repair)

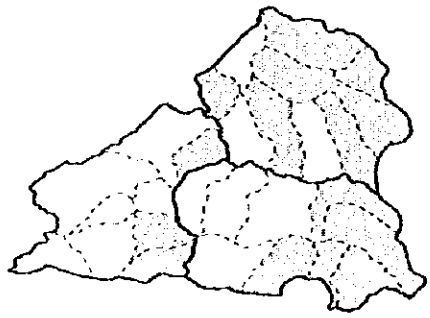


Kaski West Model Area

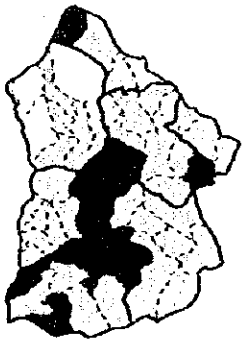


Kaski North Model Area

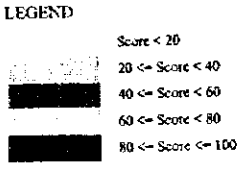
Parbat North Model Area



Kaski East Model Area



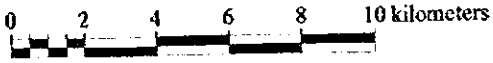
Parbat South Model Area



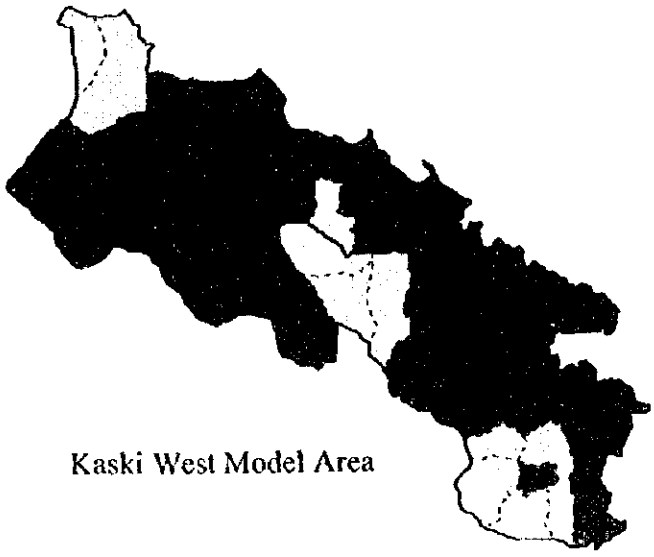
Max.=100, Min.=0

Data Source:
Household Member Survey (Q-A-21: Female)

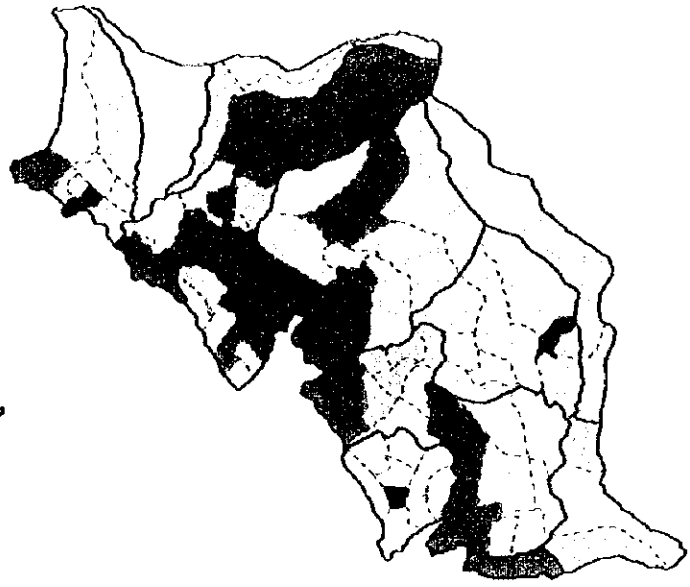
Scale : 1/200,000



Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Female - Fodder collection)

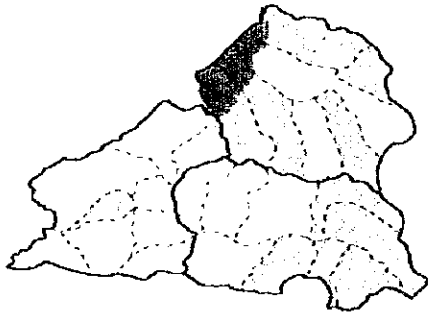


Kaski West Model Area



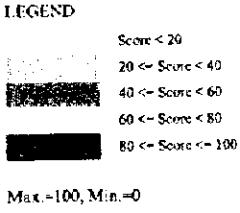
Kaski North Model Area

Parbat North Model Area



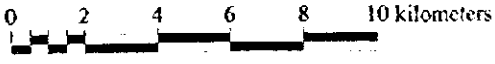
Kaski East Model Area

Parbat South Model Area



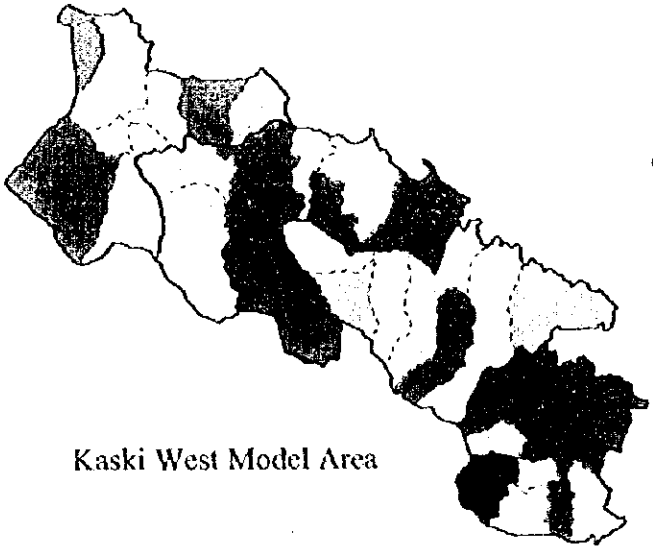
Data Source:
Household Member Survey (Q-A-28: Female)

Scale : 1/200,000

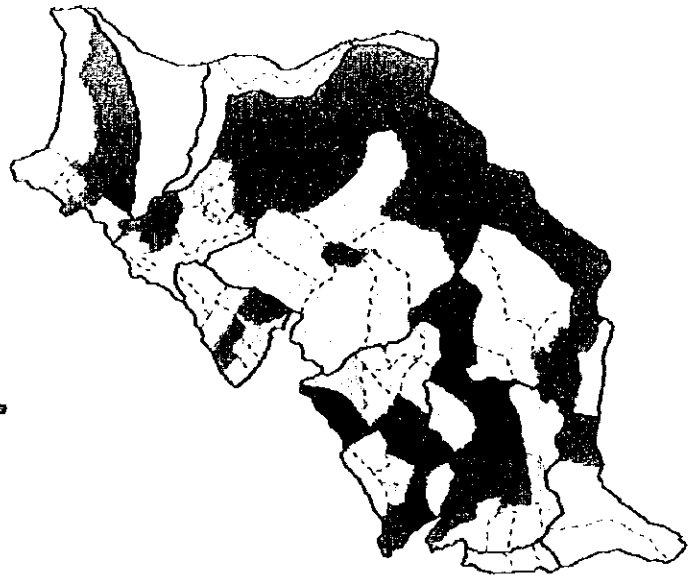


Degree of People's Desire to Lessen the Work Burden (expressed by score point)
(Female - Fuelwood collection)

C-1

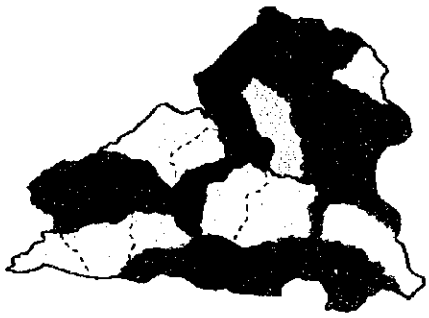


Kaski West Model Area



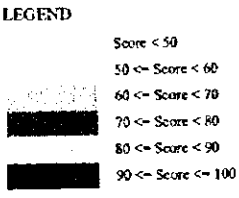
Kaski North Model Area

Parbat North Model Area



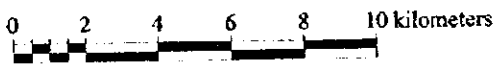
Kaski East Model Area

Parbat South Model Area

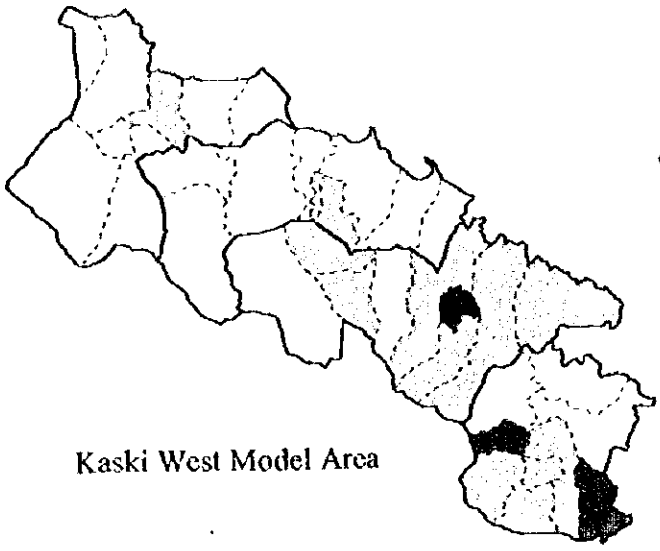


Data Source:
Household Member Survey (Q-B-1: Both sex)

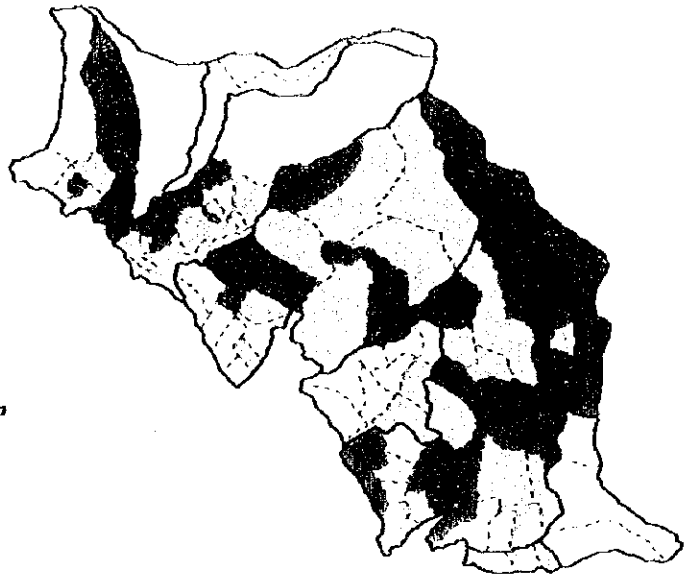
Scale : 1/200,000



Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Food Availability)

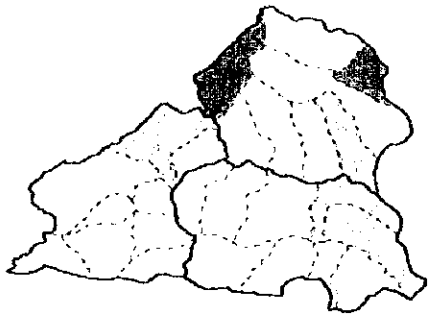


Kaski West Model Area

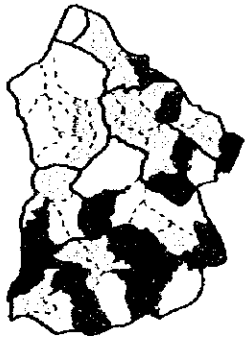


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

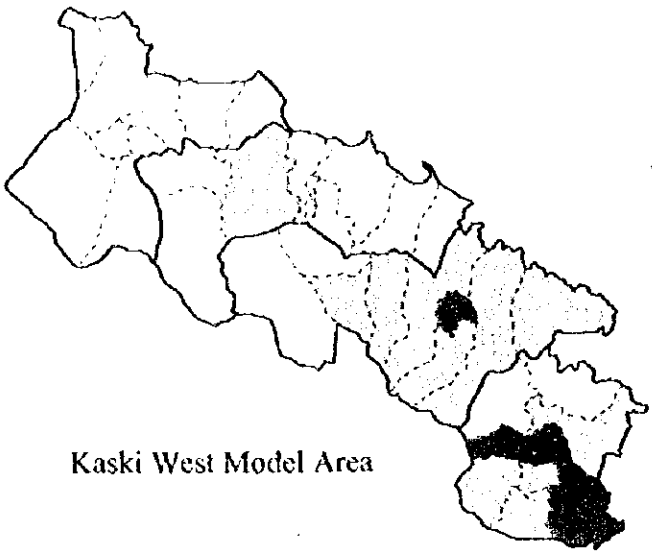
- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100

Data Source:
Household Member Survey (Q-B-2: Both sex)

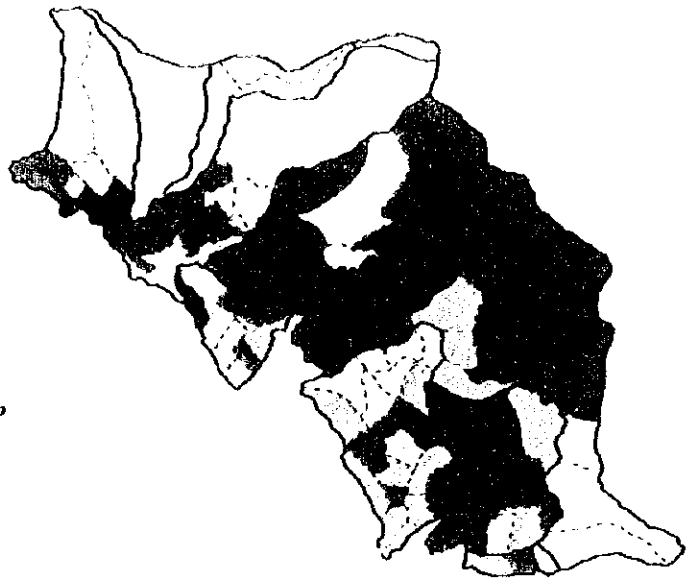
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Fodder Availability)

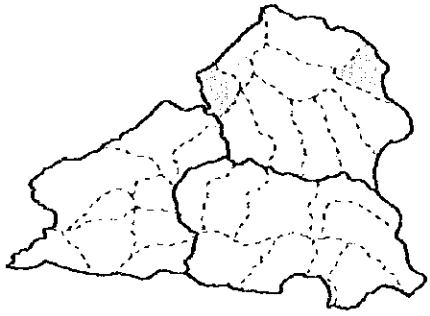


Kaski West Model Area

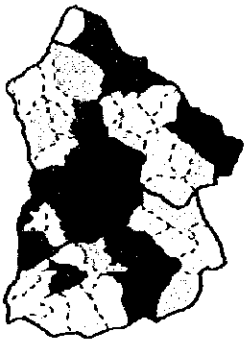


Kaski North Model Area

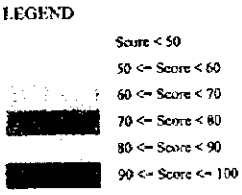
Parbat North Model Area



Kaski East Model Area

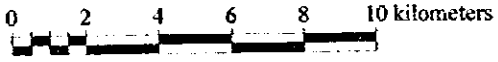


Parbat South Model Area

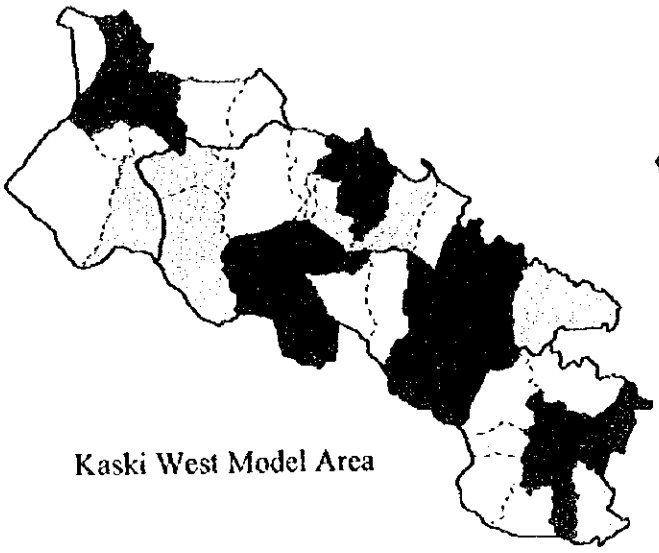


Data Source:
Household Member Survey (Q-B-3: Both sex)

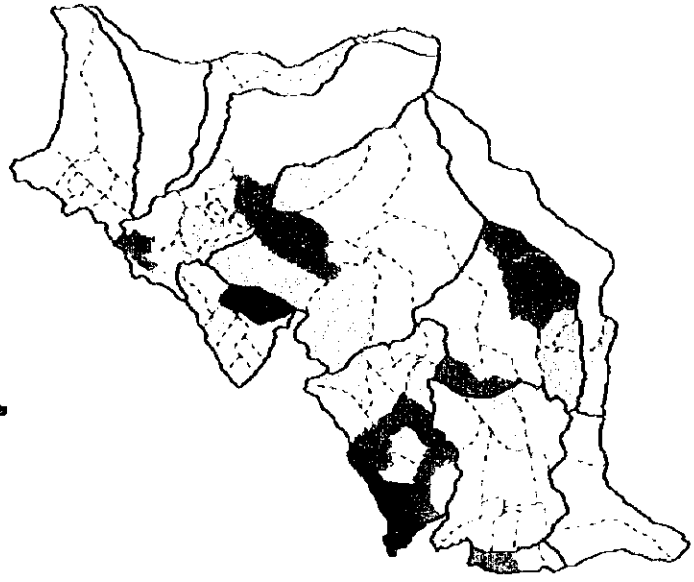
Scale : 1/200,000



Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Fuelwood Availability)

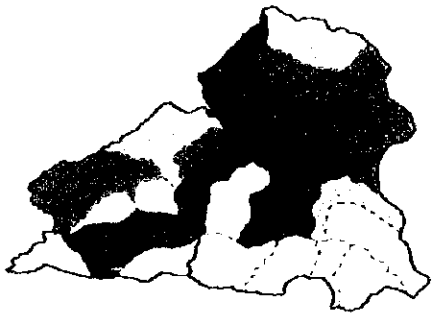


Kaski West Model Area

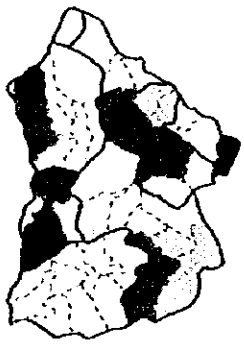


Kaski North Model Area

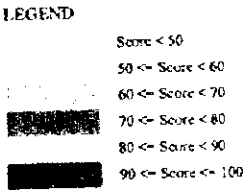
Parbat North Model Area



Kaski East Model Area

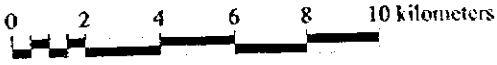


Parbat South Model Area

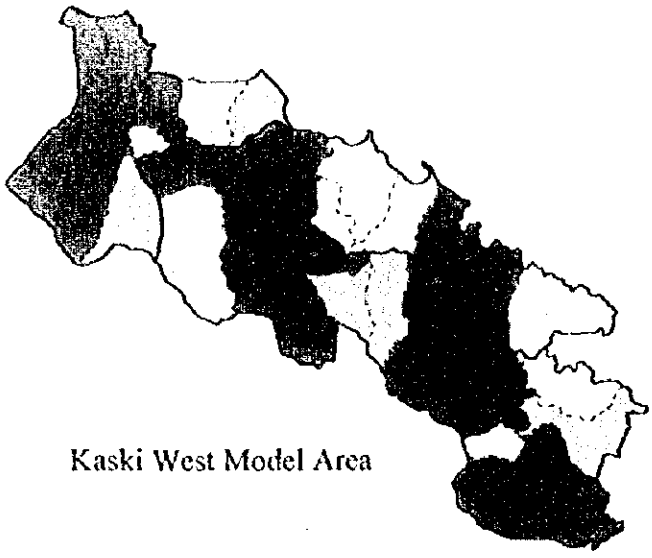


Data Source:
Household Member Survey (Q-B-4: Both sex)

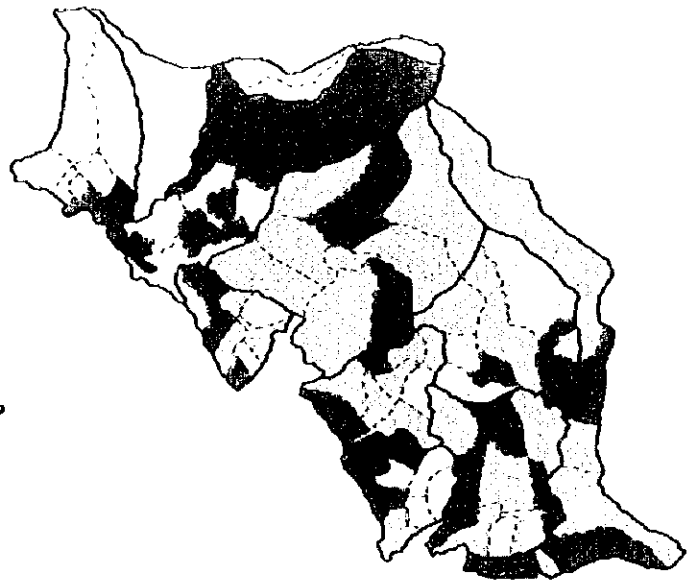
Scale : 1/200,000



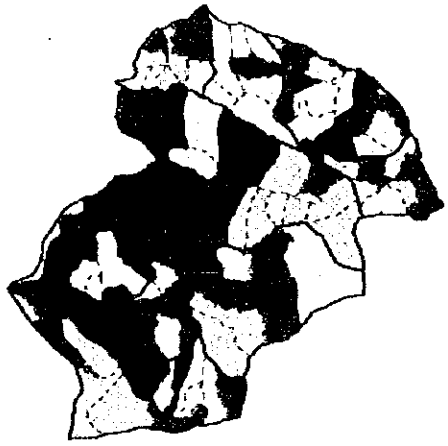
Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Drinking Water Availability)



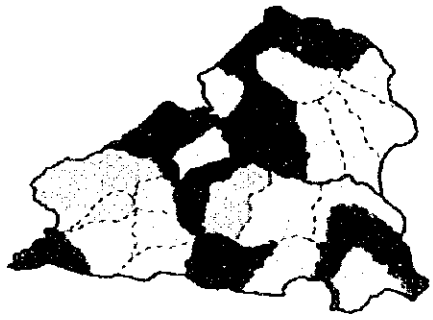
Kaski West Model Area



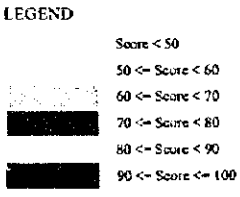
Kaski North Model Area



Parbat North Model Area



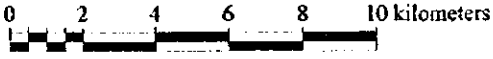
Kaski East Model Area



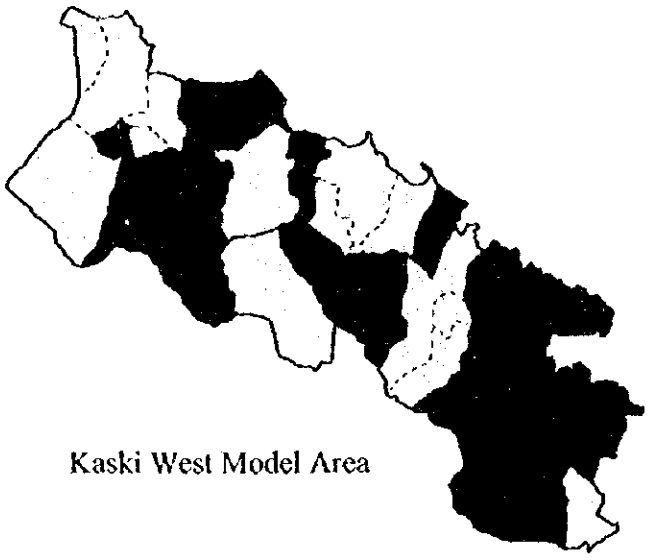
Parbat South Model Area

Data Source:
Household Member Survey (Q-B-5: Both sex)

Scale : 1/200,000



Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Crop Productivity)



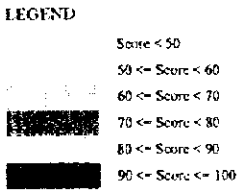
Kaski West Model Area

Kaski North Model Area

Parbat North Model Area

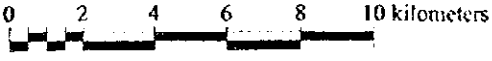
Kaski East Model Area

Parbat South Model Area

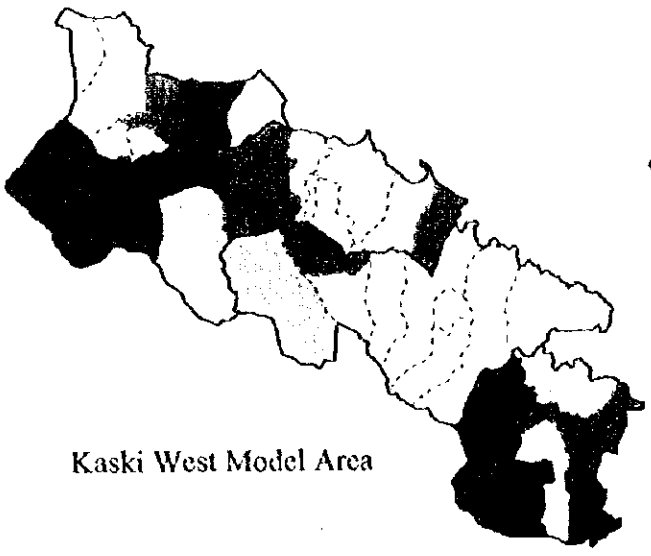


Data Source:
Household Member Survey (Q-B-6: Both sex)

Scale : 1/200,000



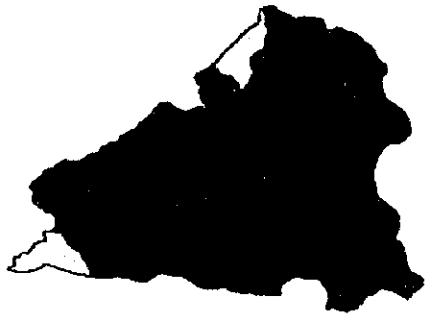
Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Cash Income)



Kaski West Model Area

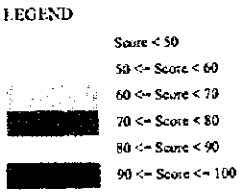
Kaski North Model Area

Parbat North Model Area



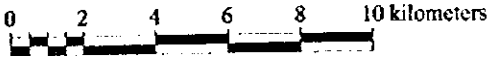
Kaski East Model Area

Parbat South Model Area

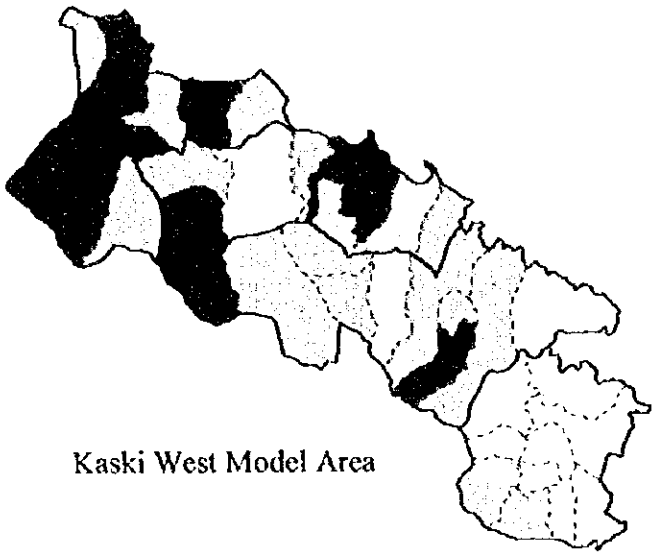


Data Source:
Household Member Survey (Q-B-7: Both sex)

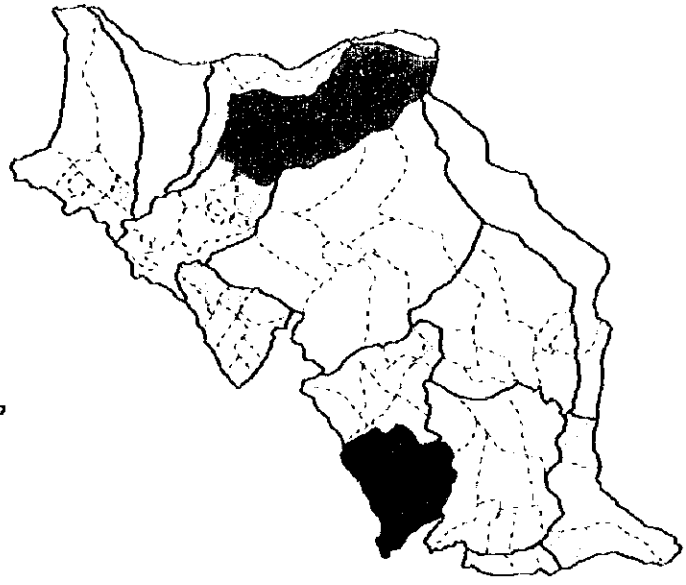
Scale : 1/200,000



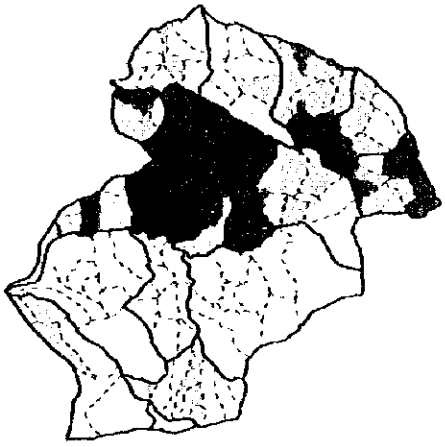
Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Motable Road)



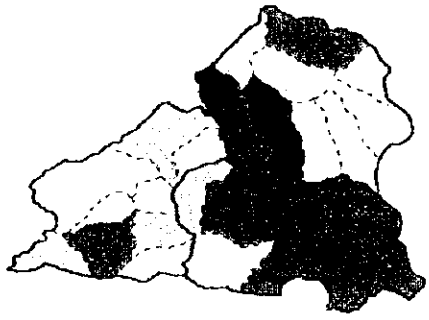
Kaski West Model Area



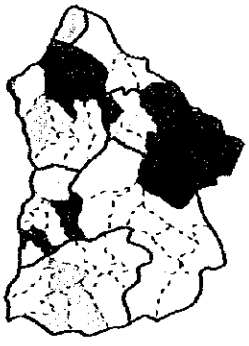
Kaski North Model Area



Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

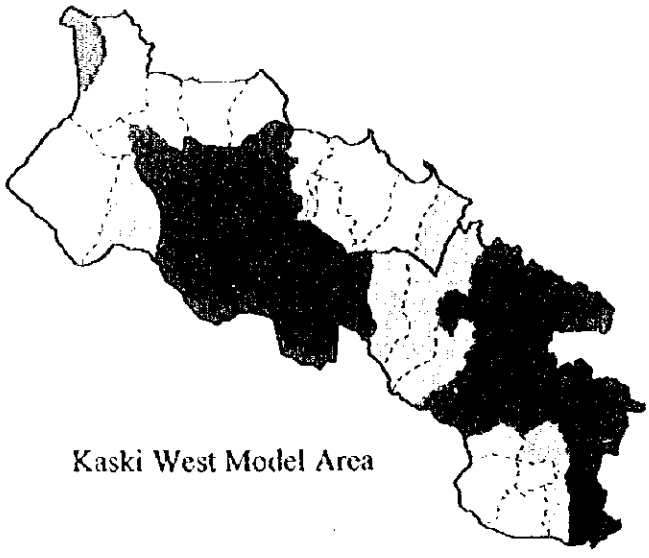
- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100

Data Source:
Household Member Survey (Q-B-8: Both sex)

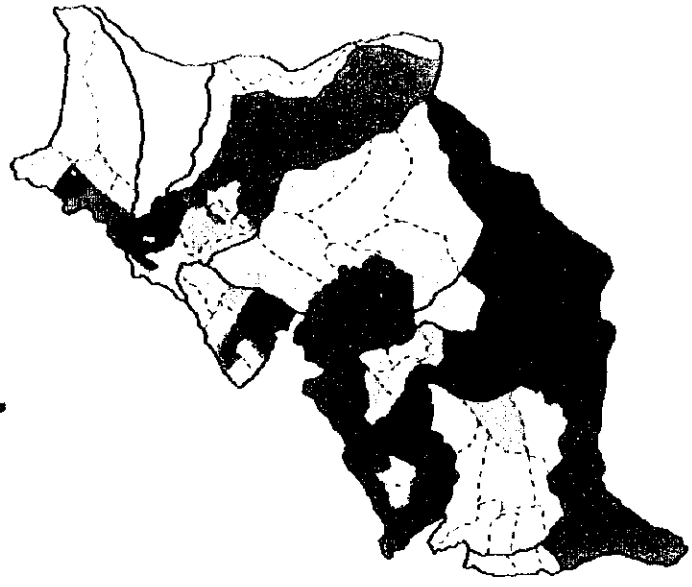
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Foot Trail)

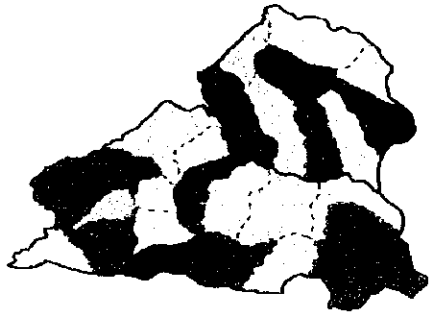


Kaski West Model Area

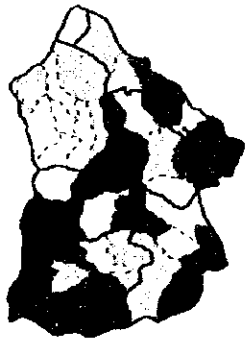


Kaski North Model Area

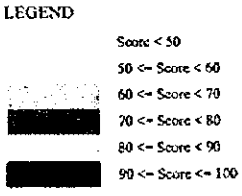
Parbat North Model Area



Kaski East Model Area

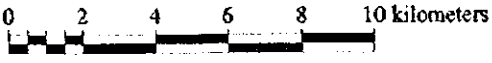


Parbat South Model Area

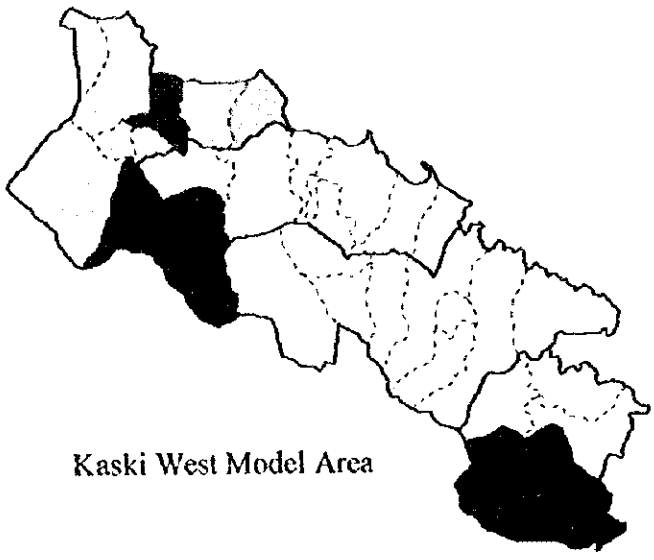


Data Source:
Household Member Survey (Q-B-10: Both sex)

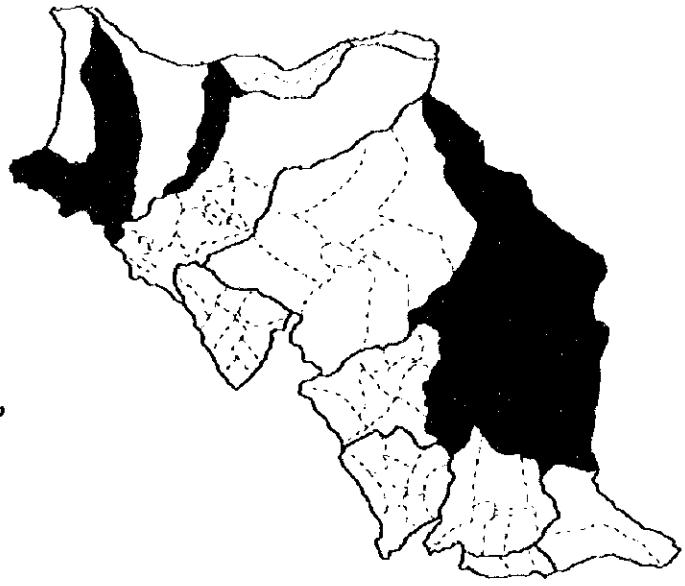
Scale : 1/200,000



Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Irrigation)

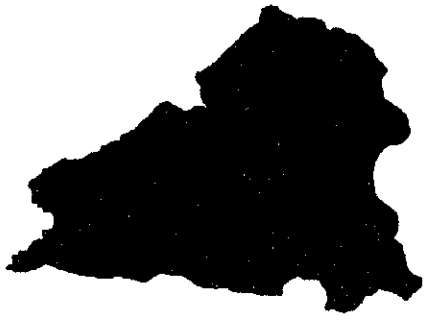


Kaski West Model Area



Kaski North Model Area

Parbat North Model Area



Kaski East Model Area

LEGEND

Score < 50
50 <= Score < 60
60 <= Score < 70
70 <= Score < 80
80 <= Score < 90
90 <= Score <= 100

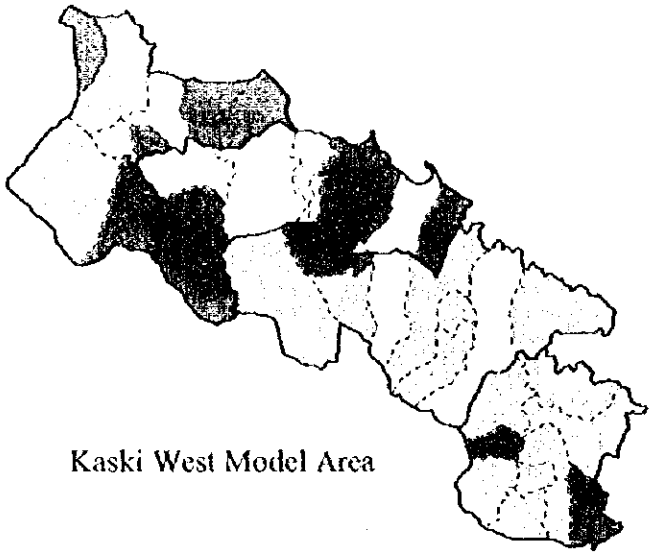
Parbat South Model Area

Data Source:
Household Member Survey (Q-B-11: Both sex)

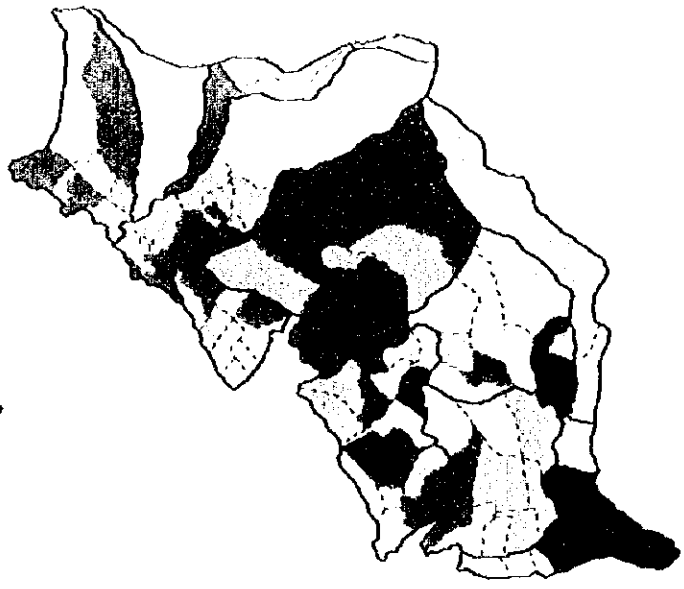
Scale : 1/200,000

0 2 4 6 8 10 kilometers

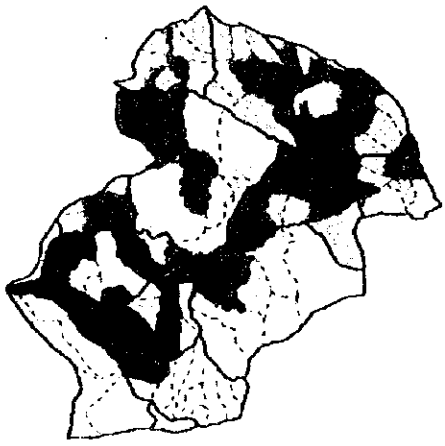
Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Electricity Supply)



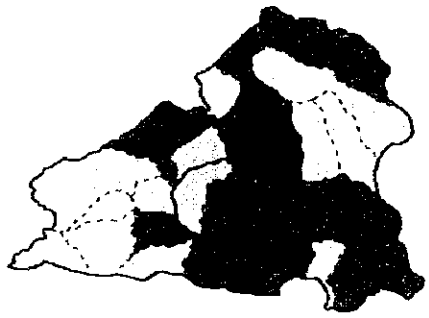
Kaski West Model Area



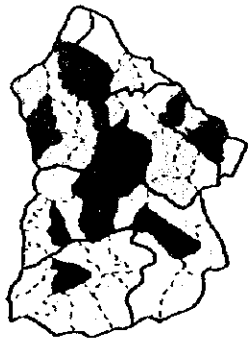
Kaski North Model Area



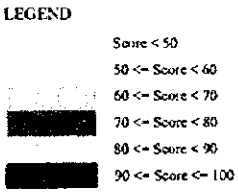
Parbat North Model Area



Kaski East Model Area

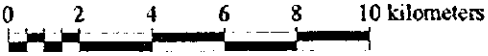


Parbat South Model Area



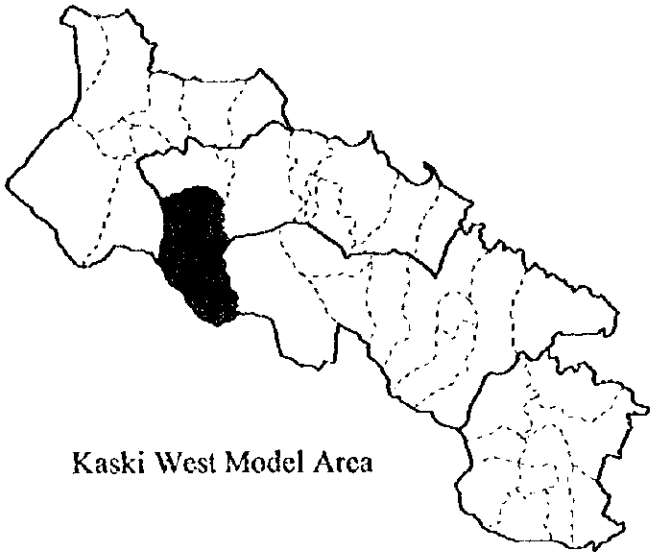
Data Source:
Household Member Survey (Q-B-12: Both sex)

Scale : 1/200,000



Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Communication Facility)

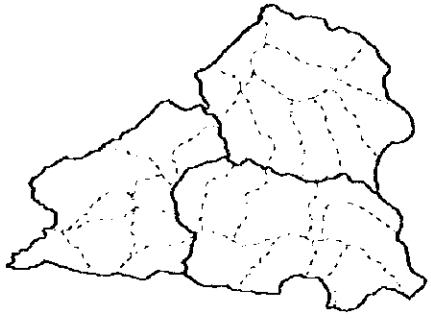
C-13



Kaski West Model Area

Kaski North Model Area

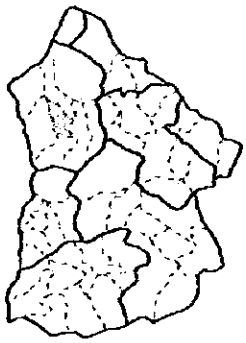
Parbat North Model Area



Kaski East Model Area

LEGEND

Score < 50
50 <= Score < 60
60 <= Score < 70
70 <= Score < 80
80 <= Score < 90
90 <= Score <= 100



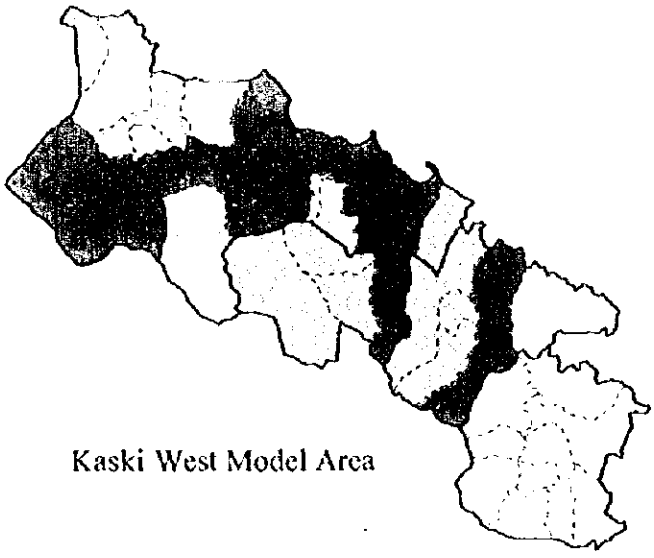
Parbat South Model Area

Data Source:
Household Member Survey (Q-B-13: Both sex)

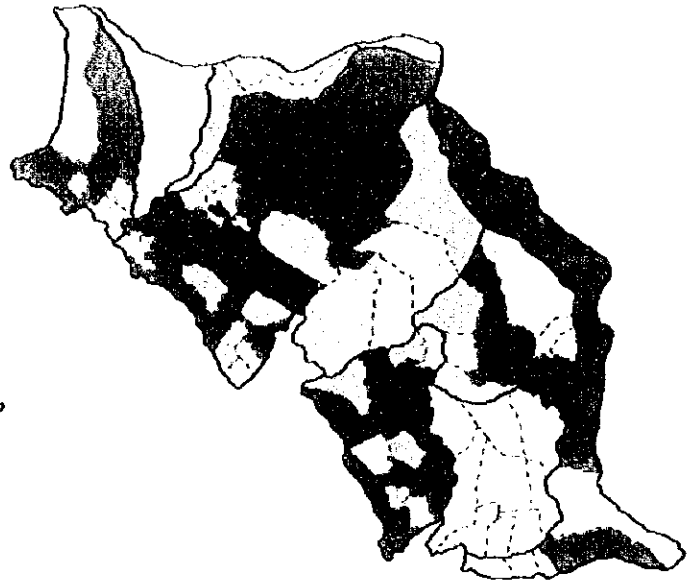
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Labor Force Availability)

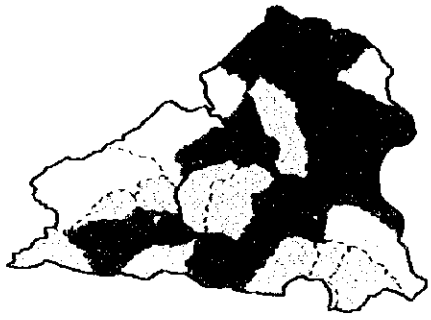


Kaski West Model Area



Kaski North Model Area

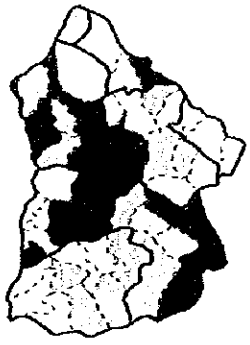
Parbat North Model Area



Kaski East Model Area

LEGEND

- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100



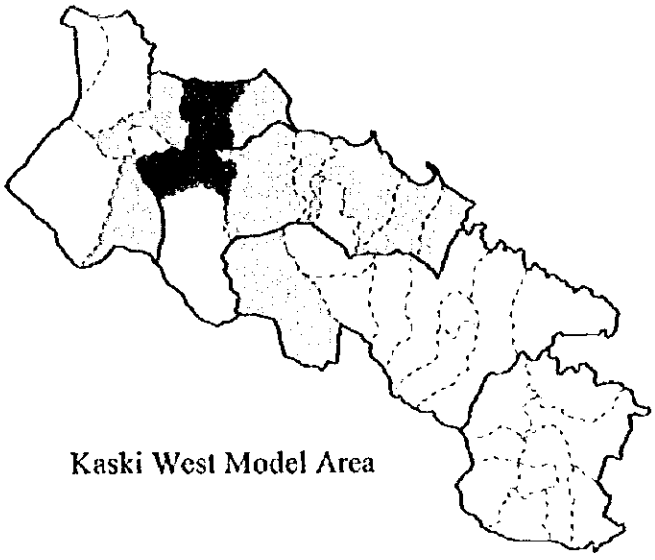
Parbat South Model Area

Data Source:
Household Member Survey (Q-B-14: Both sex)

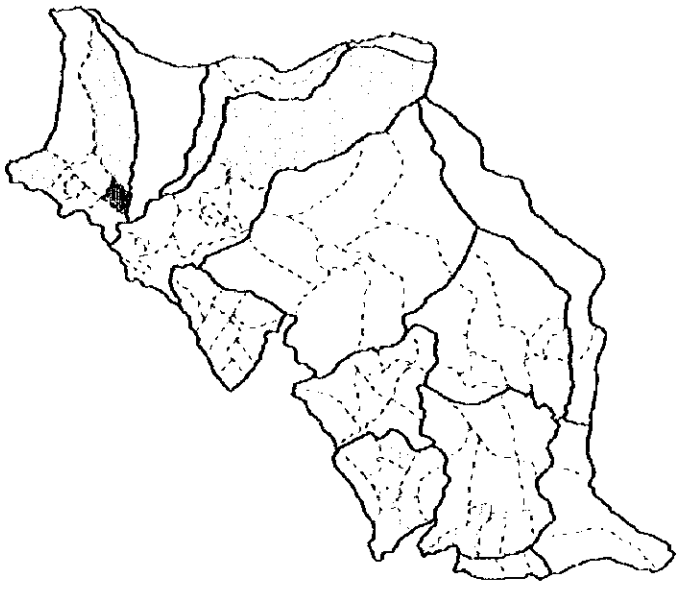
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Education of Children)

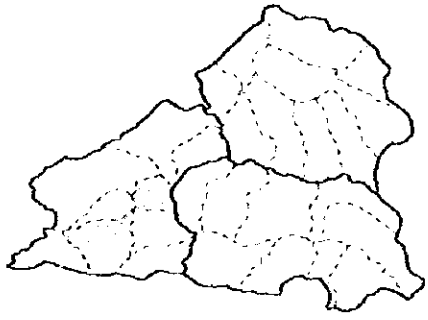


Kaski West Model Area

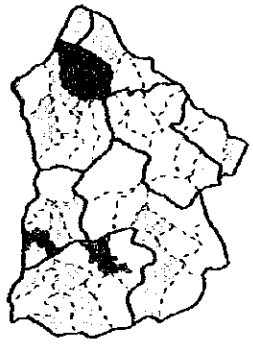


Kaski North Model Area

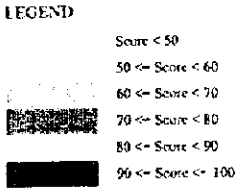
Parbat North Model Area



Kaski East Model Area



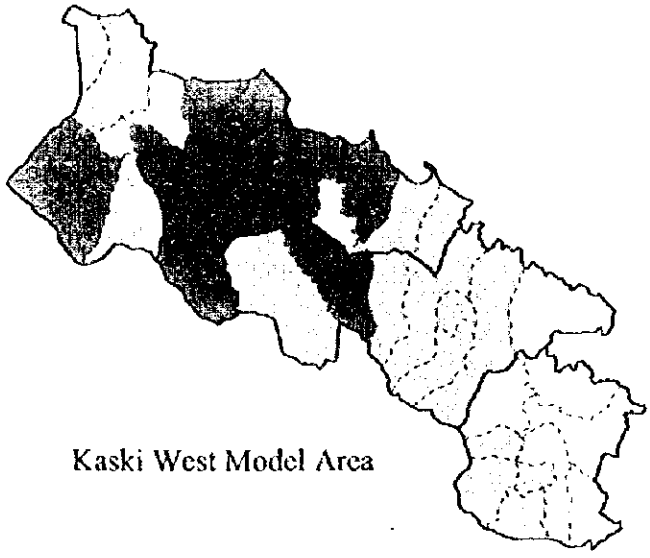
Parbat South Model Area



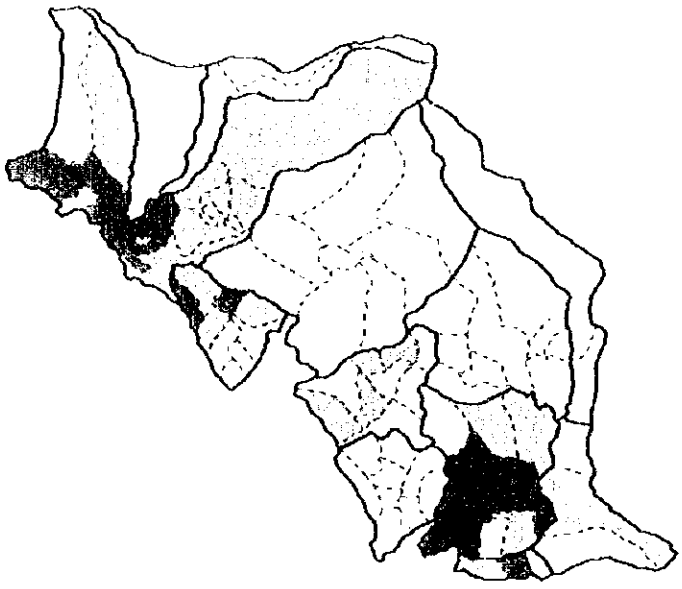
Data Source:
Household Member Survey (Q-B-15: Both sex)

Scale : 1/200,000

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Self Education)

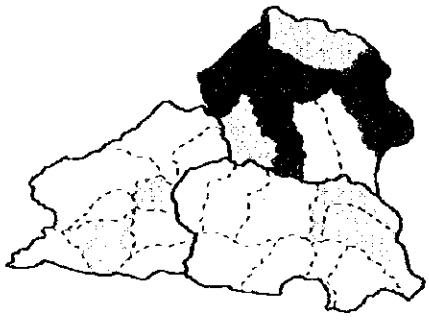


Kaski West Model Area



Kaski North Model Area

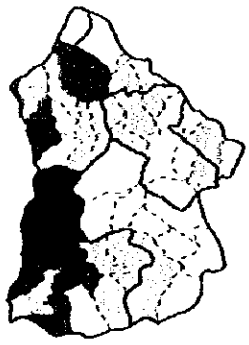
Parbat North Model Area



Kaski East Model Area

LEGEND

- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100



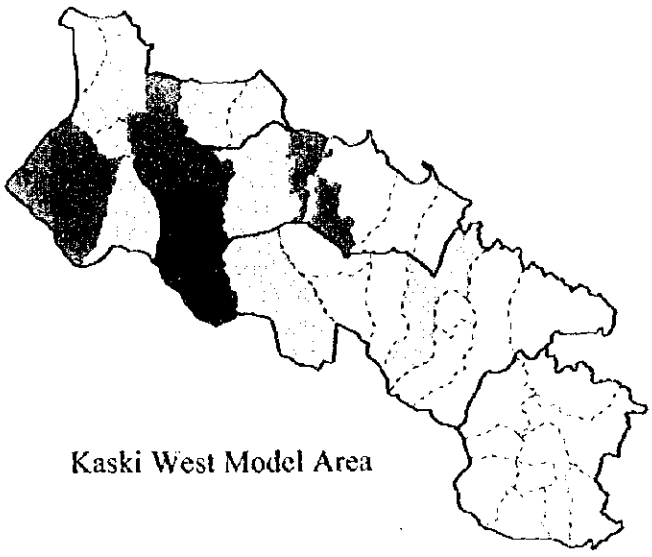
Parbat South Model Area

Data Source:
Household Member Survey (Q-B-16: Both sex)

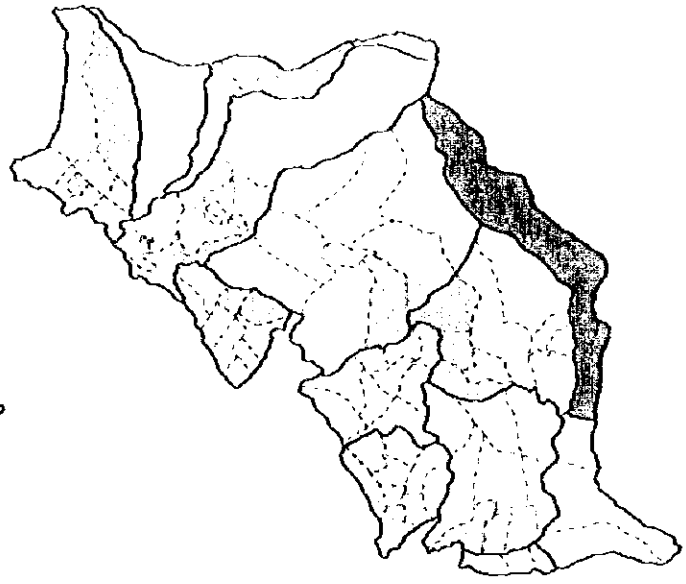
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Health)

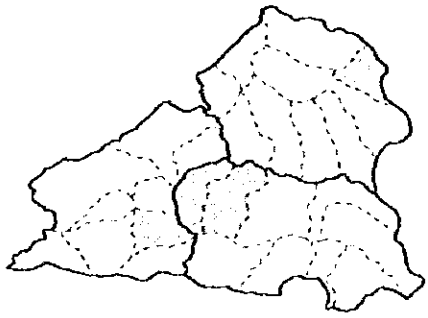


Kaski West Model Area

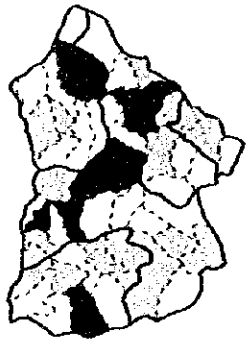


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

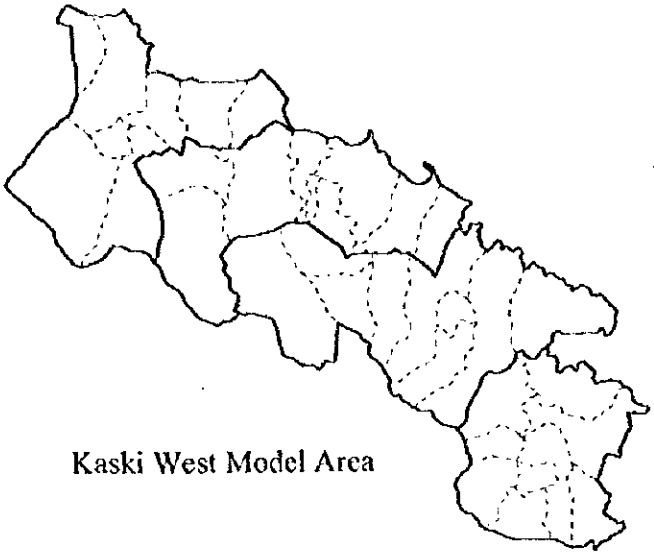
- Score < 10
- 10 <= Score < 20
- 20 <= Score < 30
- 30 <= Score < 40
- 40 <= Score < 50
- 50 <= Score < 100

Data Source:
Household Member Survey (Q-B-17: Both sex)

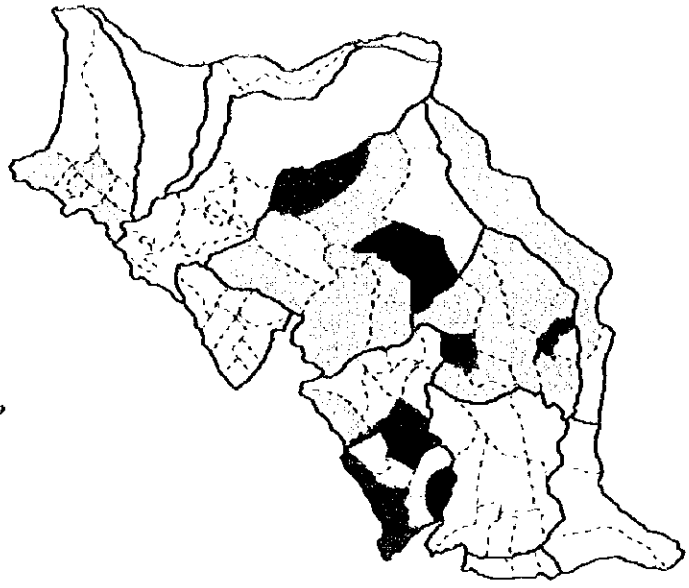
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Family Planning)

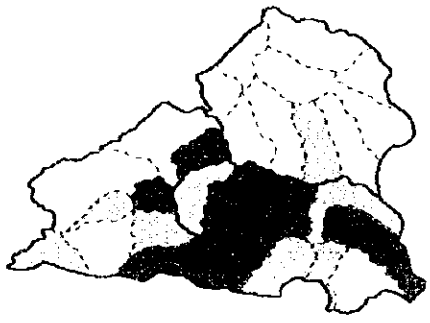


Kaski West Model Area

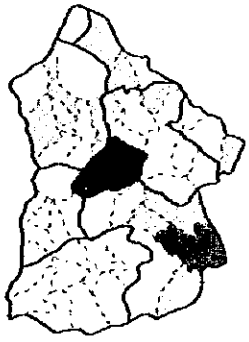


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

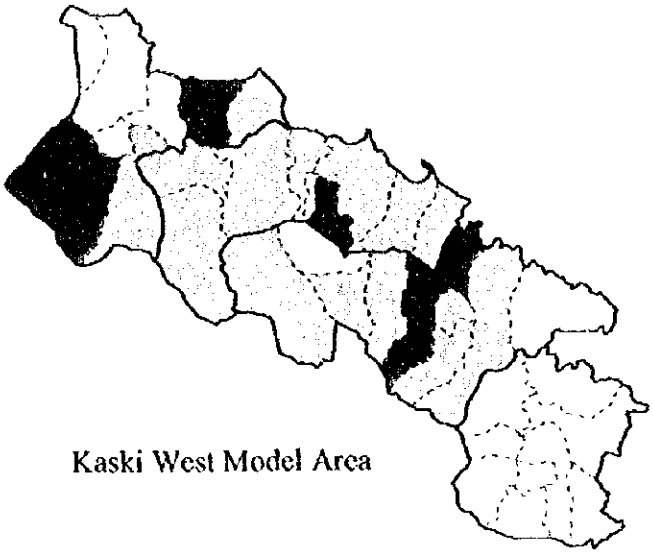
Score < 10
10 <= Score < 20
20 <= Score < 30
30 <= Score < 40
40 <= Score < 50
50 <= Score < 100

Data Source:
Household Member Survey (Q-B-18: Both sex)

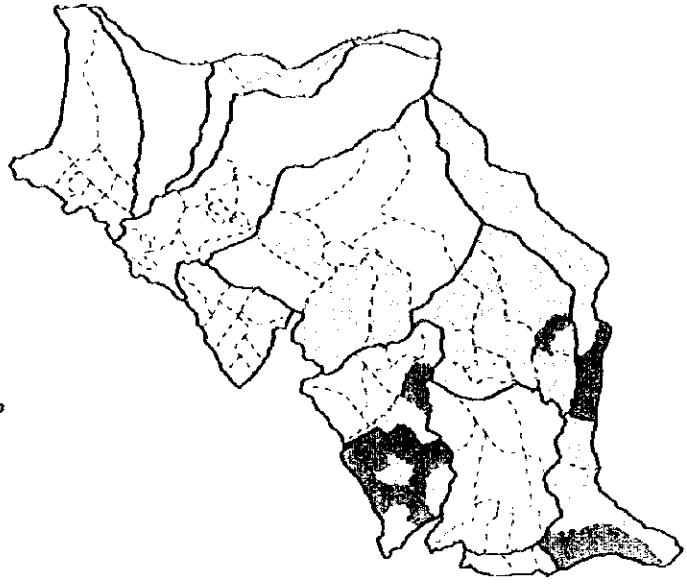
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Sanitation)

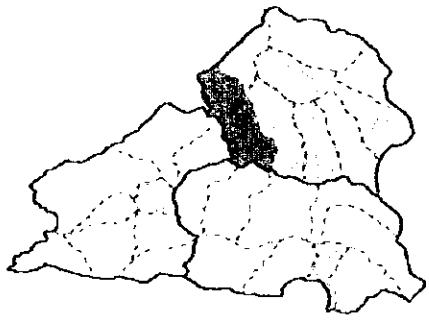


Kaski West Model Area

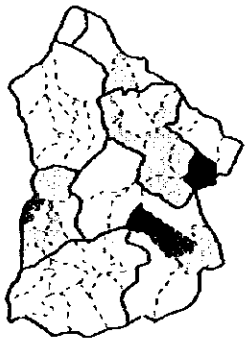


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

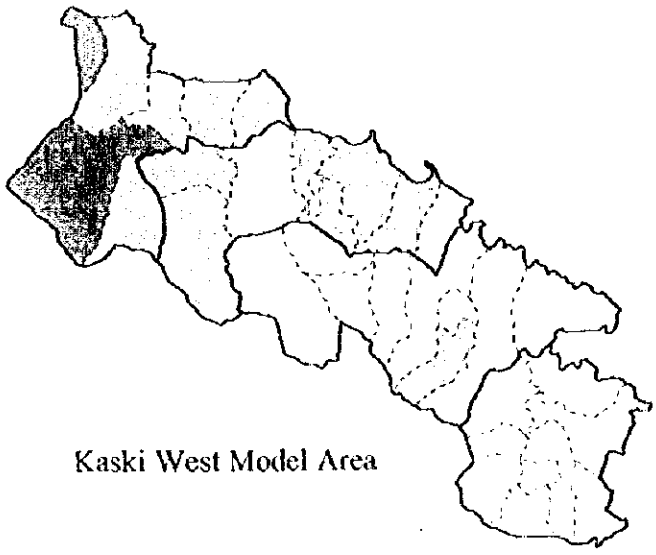
- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100

Data Source:
Household Member Survey (Q-B-24: Both sex)

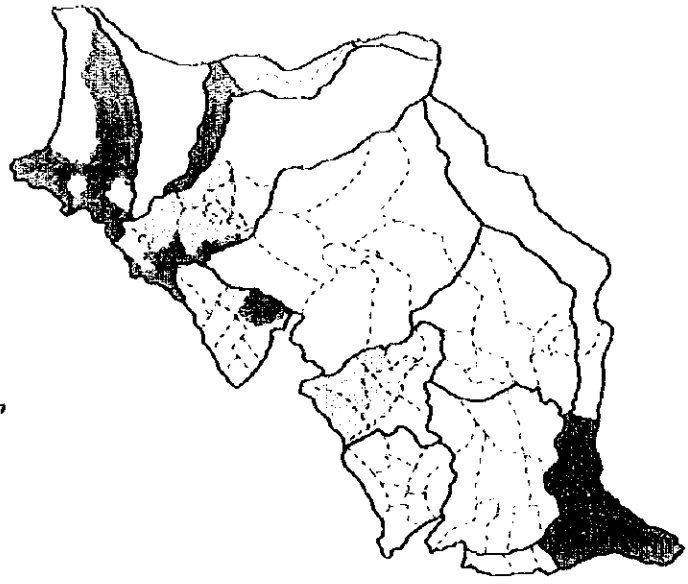
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Worship of God)

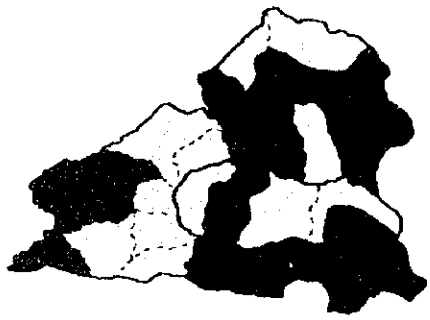


Kaski West Model Area

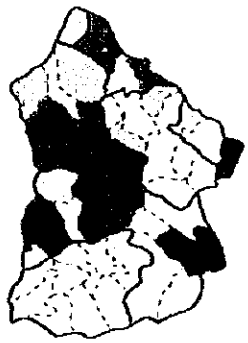


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

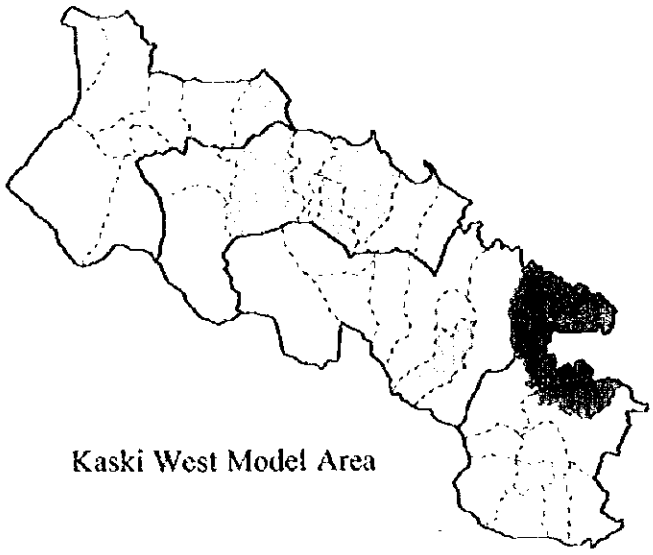
- Score < 50
- 50 <= Score < 60
- 60 <= Score < 70
- 70 <= Score < 80
- 80 <= Score < 90
- 90 <= Score <= 100

Data Source:
Household Member Survey (Q-B-26: Both sex)

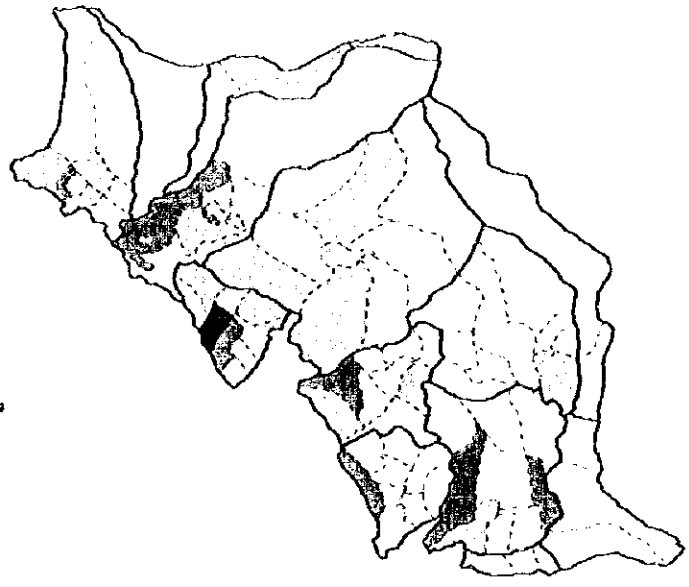
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Degree of People's Concern, Interest & Awareness (expressed by score point)
(About Meeting on Community Development)

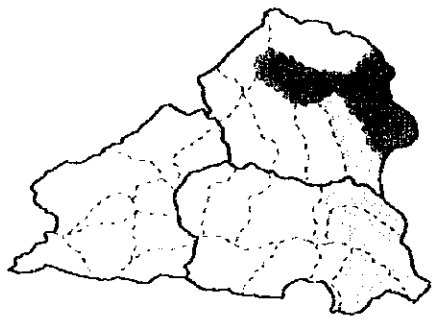


Kaski West Model Area

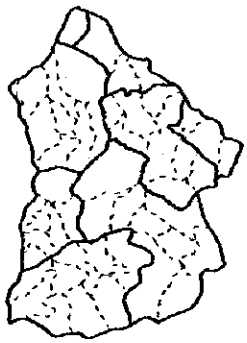


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

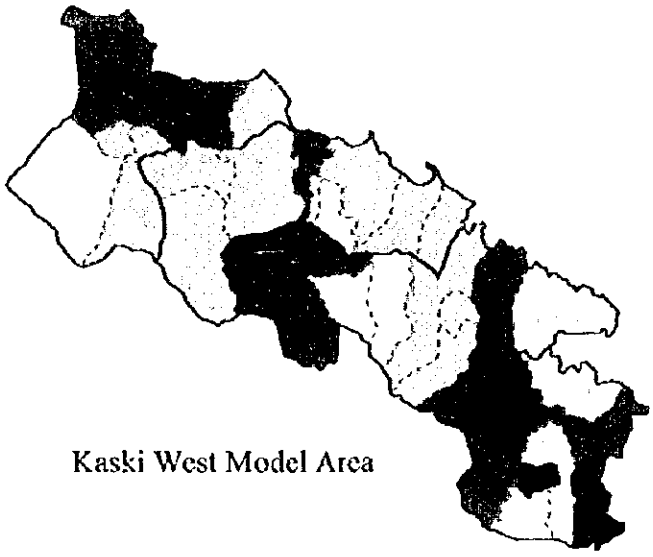
- HH(%)=0%
- 0 < HH(%) <= 5%
- 5 < HH(%) <= 10%
- 10 < HH(%) <= 20%
- 20 < HH(%) <= 30%
- 30% < HH(%)

Data Source:
Household Survey (Q-II-2)

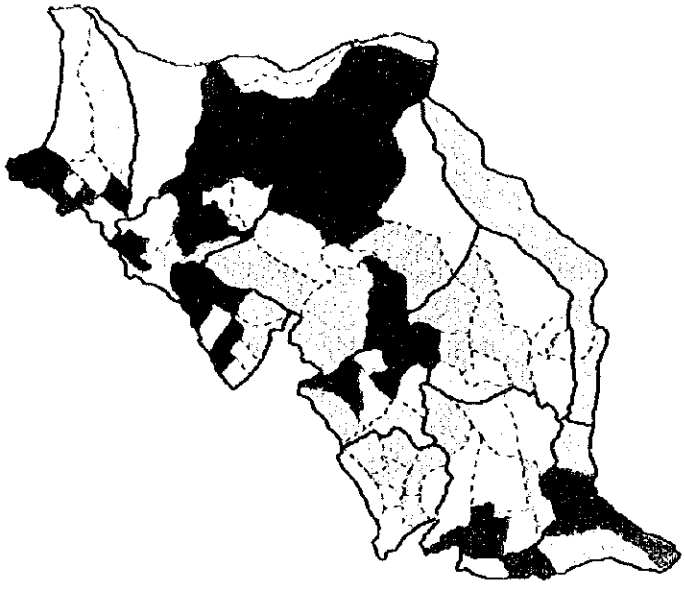
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Households Using BIOGAS

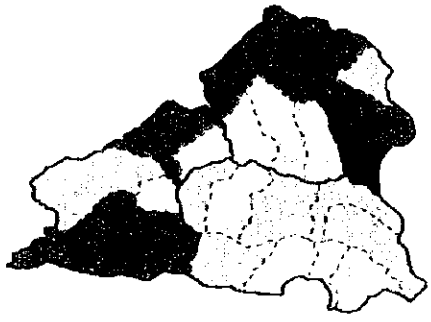


Kaski West Model Area

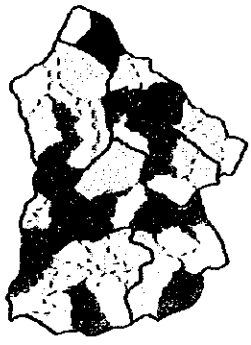


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

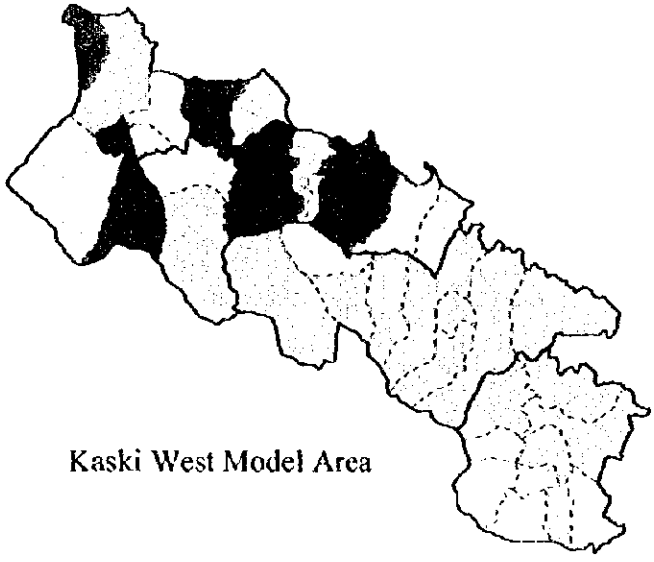
- WH-HH(%) = 0%
- 0 < WH-HH(%) <= 10%
- 10 < WH-HH(%) <= 20%
- 20 < WH-HH(%) <= 30%
- 30% < WH-HH(%) <= 40%
- 40% < WH-HH(%)

Data Source:
Household Survey (Q-I-3)

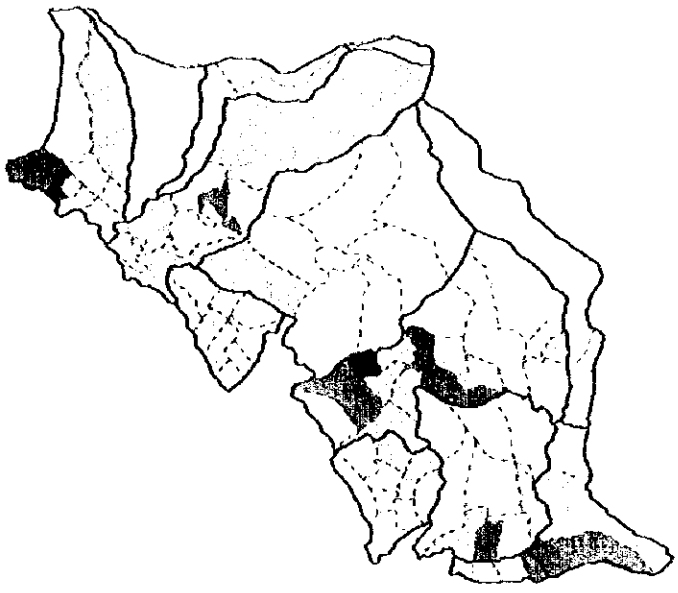
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Proportion of Woman-Headed Households

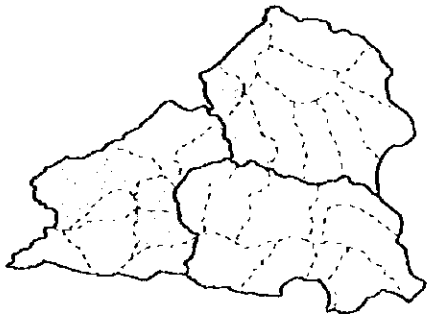


Kaski West Model Area

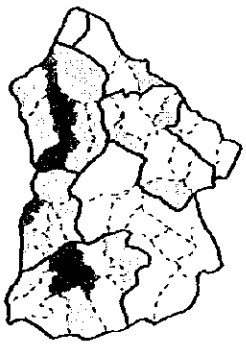


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

- Total trees < 20
- 20 < Total trees <= 50
- 50 < Total trees <= 100
- 100 < Total trees <= 150
- 150 < Total trees <= 200
- 200 - 300

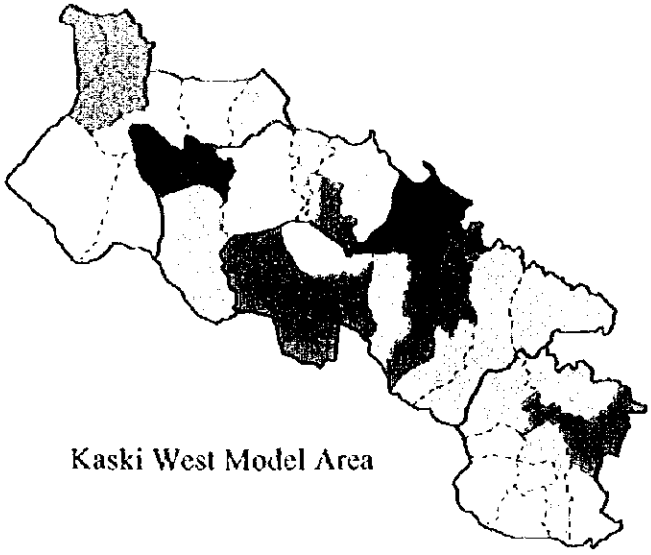
Data Source:
Household Survey (Q-V-4)

The total number does not include horticultural trees.

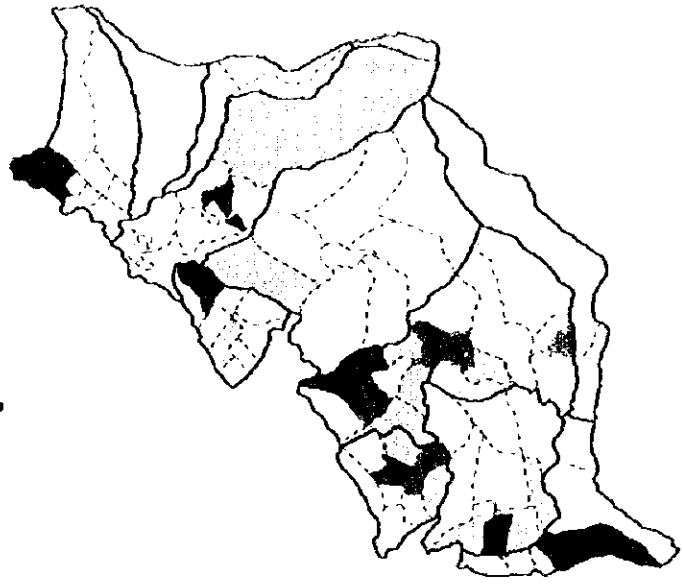
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Total Number of Trees Owned by Household

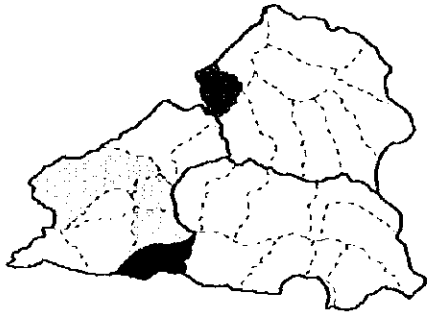


Kaski West Model Area

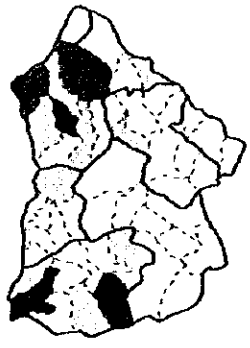


Kaski North Model Area

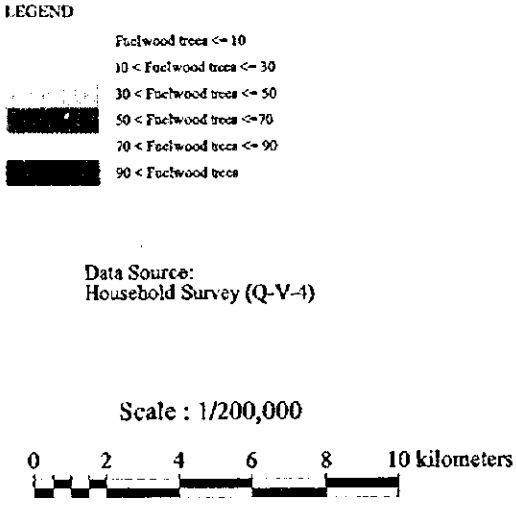
Parbat North Model Area



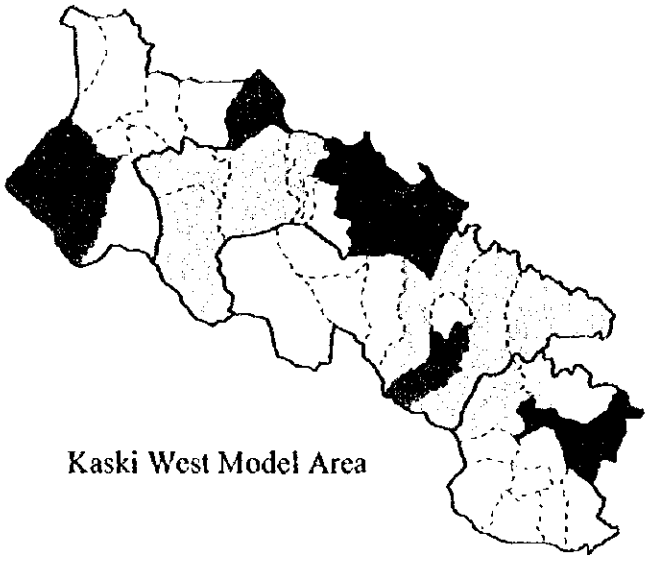
Kaski East Model Area



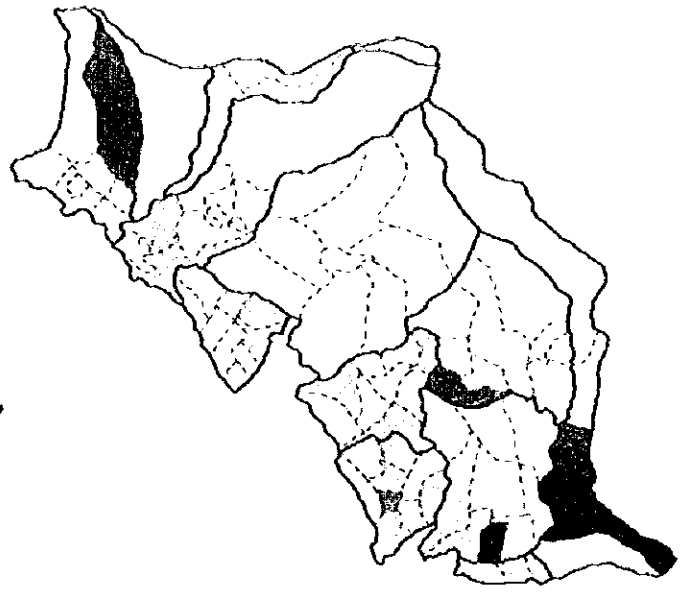
Parbat South Model Area



Average Number of Fuelwood Trees Privately Owned by Sample Households

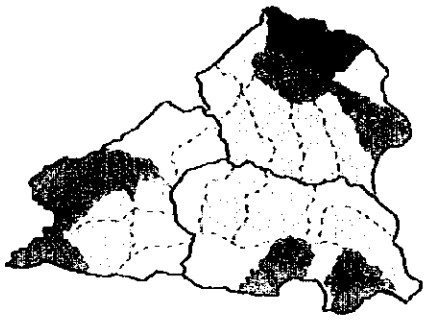


Kaski West Model Area

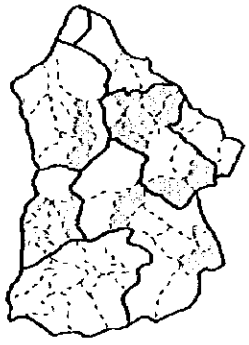


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

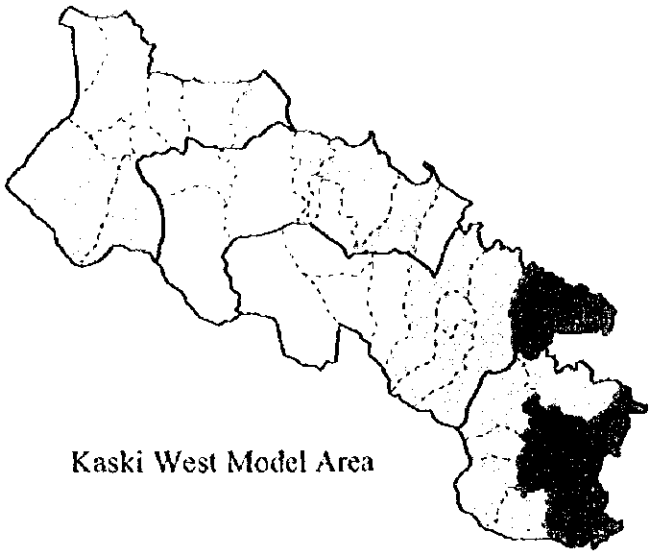
- Horti. trees < 5
- 5 < Horti. trees <= 10
- 10 < Horti. trees <= 20
- 20 < Horti. trees <= 30
- 30 < Horti. trees <= 40
- 40 < Horti. trees

Data Source:
Household Survey (Q-V-3)

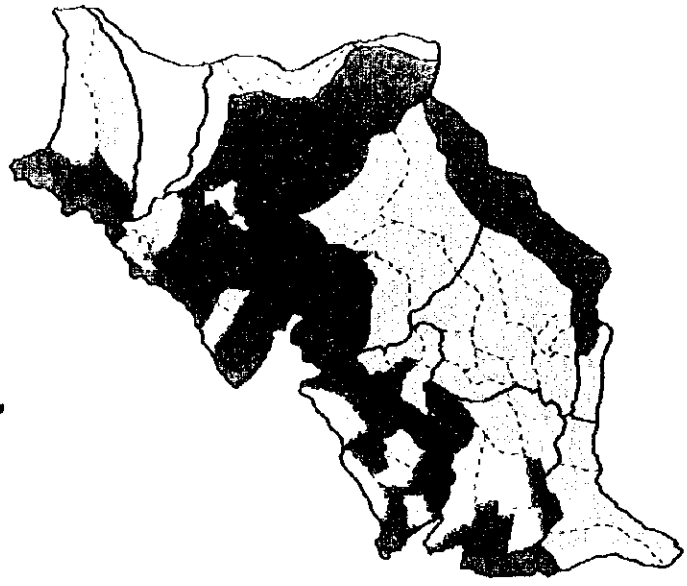
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Total Number of Horticulture Trees Owned by Household

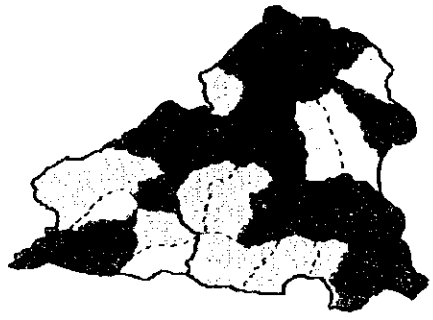


Kaski West Model Area



Kaski North Model Area

Parbat North Model Area



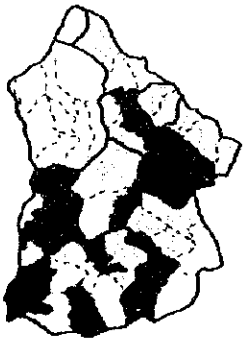
Kaski East Model Area

LEGEND

- Paddy Yield <= 1000 kg/ha
- 1000 < Paddy Yield <= 1500 kg/ha
- 1500 < Paddy Yield <= 2000 kg/ha
- 2000 < Paddy Yield <= 2500 kg/ha
- 2500 < Paddy Yield <= 3000 kg/ha
- 3000 kg/ha < Paddy Yield

Data Source:
Household Survey (Q-III-3)

Unit yield was calculated based on the planted area and total production reported by sample households.

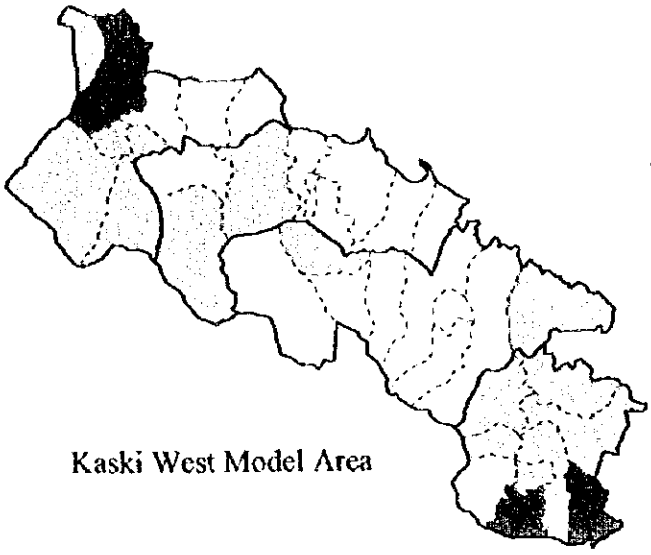


Parbat South Model Area

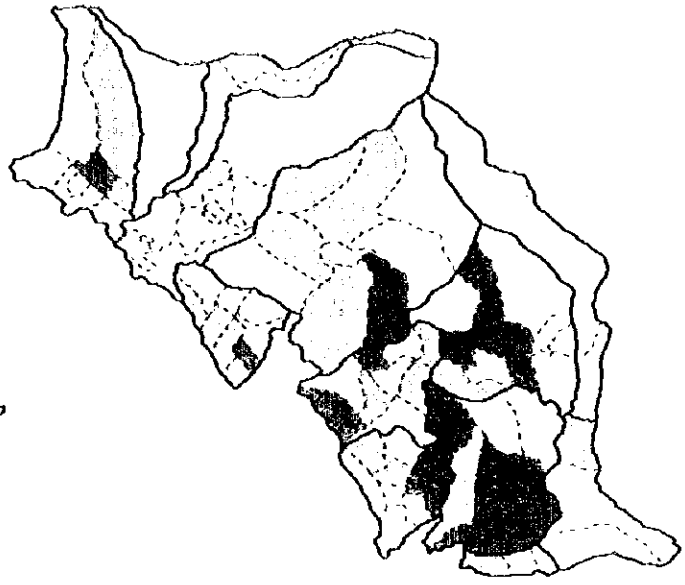
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Unit Yield of Paddy (monsoon season of 1995)

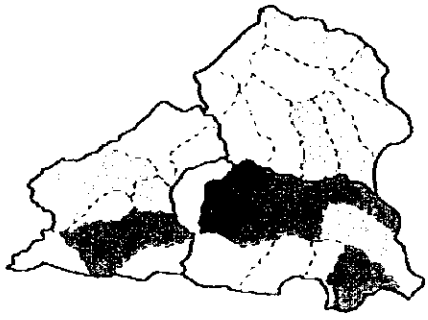


Kaski West Model Area

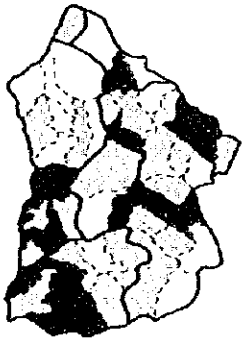


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

- 0 < Wheat Yield <= 700kg/ha
- 700 < Wheat Yield <= 1000kg/ha
- 1000 < Wheat Yield <= 1300kg/ha
- 1300 < Wheat Yield <= 1600kg/ha
- 1600 < Wheat Yield <= 1900kg/ha
- 1900kg/ha < Wheat Yield

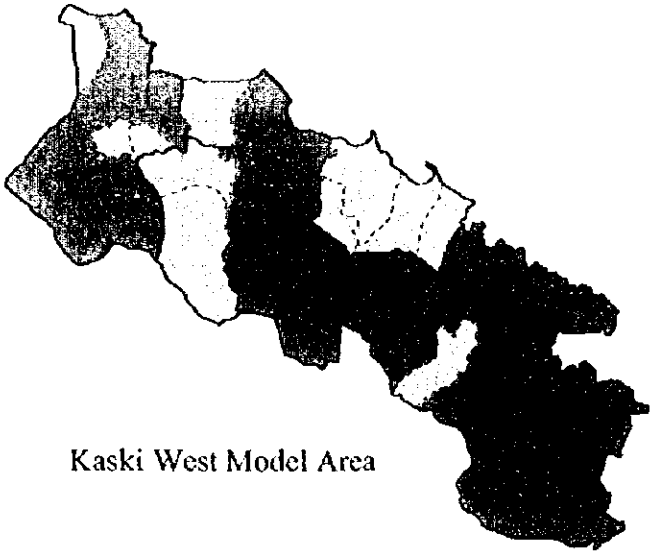
Data Source:
Household Survey (Q-III-3)

Unit yield was calculated based on the planted area and total production reported by sample households.

Scale : 1/200,000

0 2 4 6 8 10 kilometers

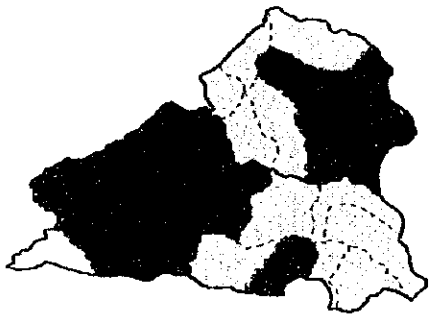
Average Unit Yield of Wheat in Khet Land



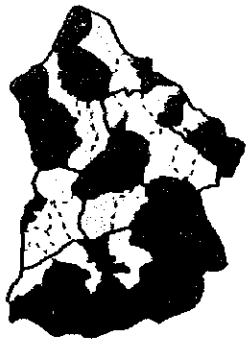
Kaski West Model Area

Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

- Maize Yield <= 700 kg/ha
- 700 < Maize Yield <= 1000 kg/ha
- 1000 < Maize Yield <= 1300 kg/ha
- 1300 < Maize Yield <= 1600 kg/ha
- 1600 kg/ha < Maize Yield

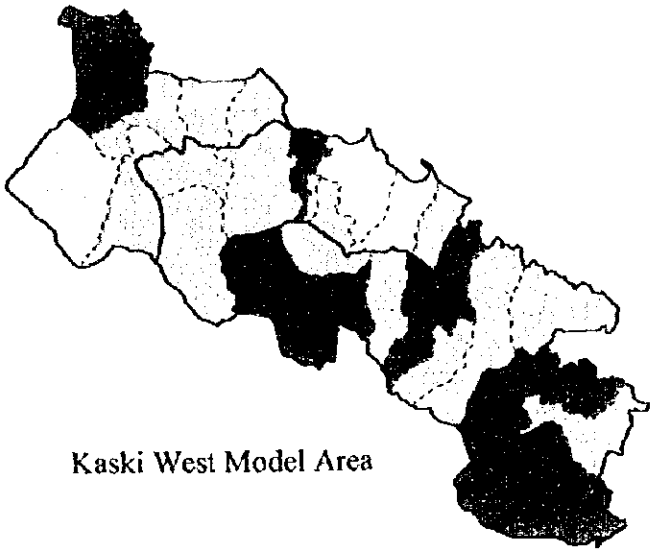
Data Source:
Household Survey (Q-III-3)

Unit yield was calculated based on the planted area and total production reported by sample households.

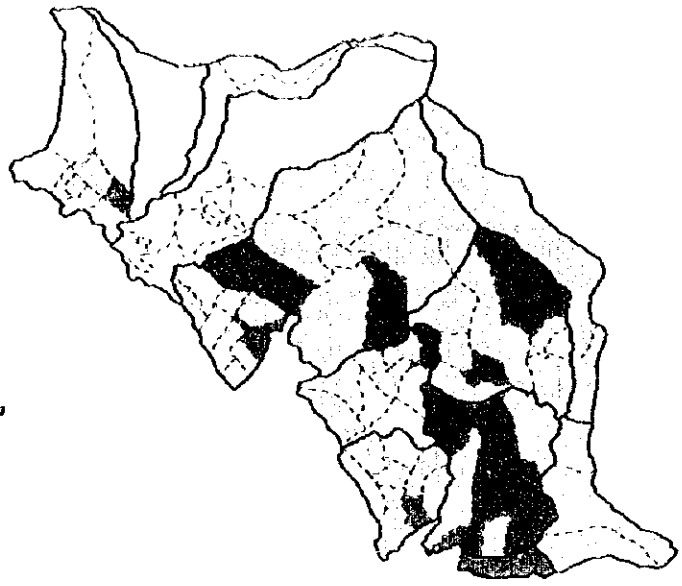
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Unit Yield of Maize (1995)

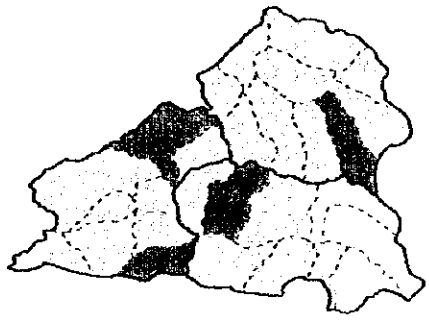


Kaski West Model Area

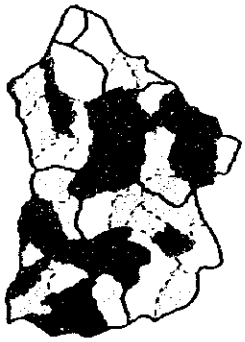


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

0 < Millet Yield <= 700kg/ha
700 < Millet Yield <= 1000kg/ha
1000 < Millet Yield <= 1300kg/ha
1300 < Millet Yield <= 1600kg/ha
1600 < Millet Yield <= 1900kg/ha
1900kg/ha <= Millet Yield

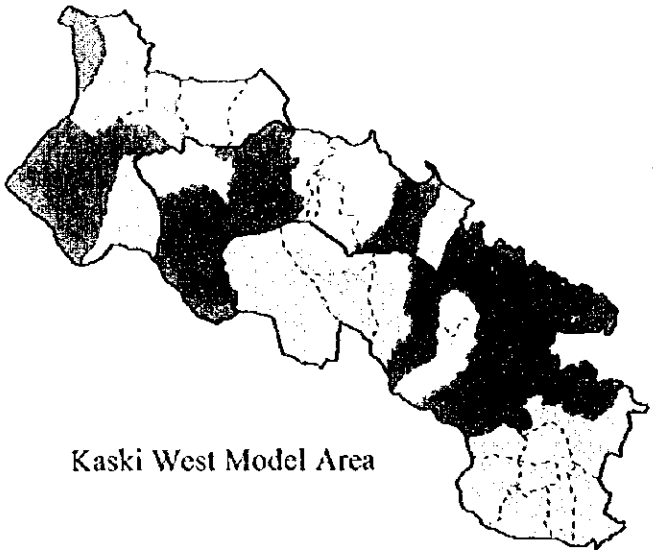
Data Source:
Household Survey (Q-III-3)

Unit yield was calculated based on the planted area and total production reported by sample households.

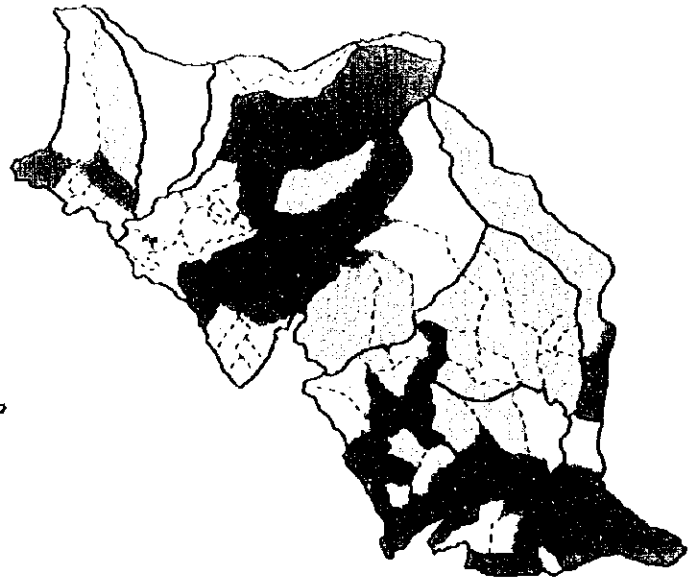
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Unit Yield of Millet in Bari Land

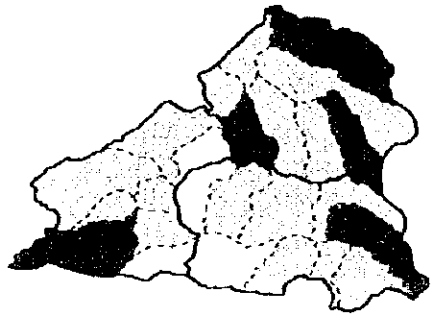


Kaski West Model Area



Kaski North Model Area

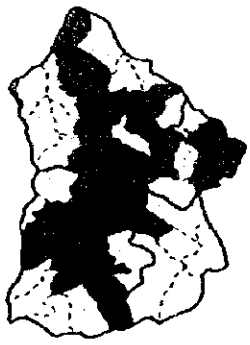
Parbat North Model Area



Kaski East Model Area

LEGEND

- C. Intensity = 100%
- 100 < C. Intensity <= 150%
- 150 < C. Intensity <= 200%
- 200 < C. Intensity <= 250%
- 250 < C. Intensity <= 300%



Parbat South Model Area

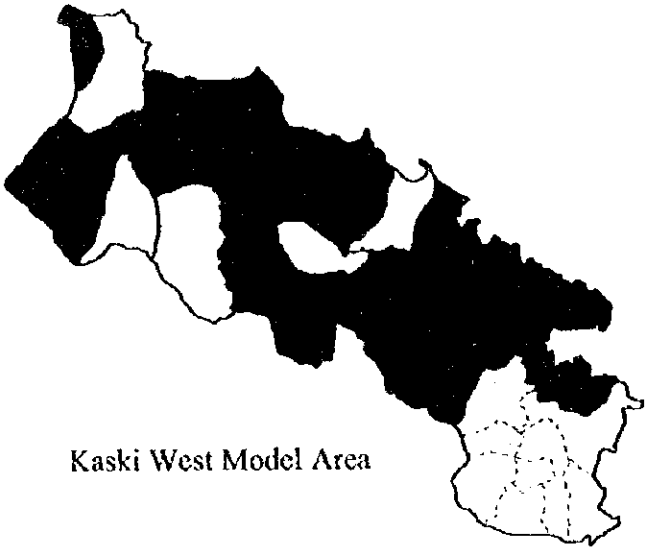
Data Source:
Household Survey (Q-III-3)

Cropping intensity was estimated on the basis of the cropping pattern answered by sample households.

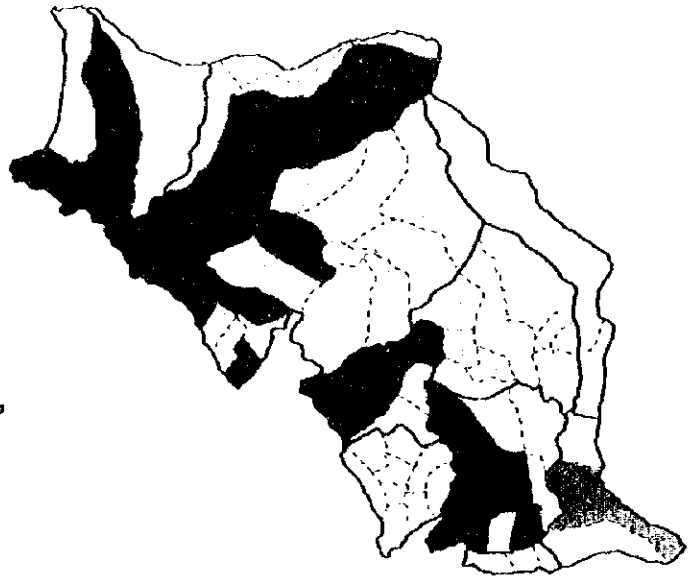
Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Cropping Intensity in Khet Land (1995)

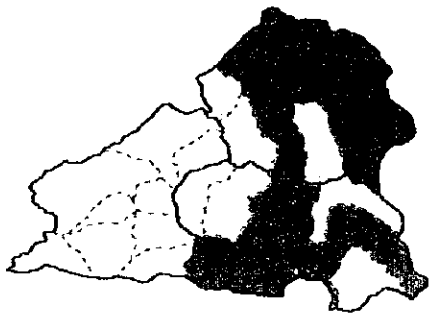


Kaski West Model Area

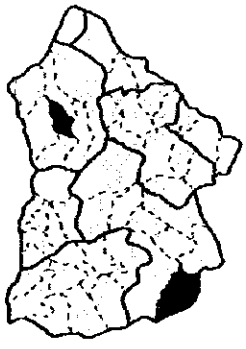


Kaski North Model Area

Parbat North Model Area



Kaski East Model Area



Parbat South Model Area

LEGEND

C. Intensity = 100%
100 < C. Intensity <= 150%
150 < C. Intensity <= 200%
200 < C. Intensity <= 250%
250 < C. Intensity <= 300%

Data Source:
Household Survey (Q-III-3)

Cropping intensity was estimated on the basis of the cropping pattern answered by sample households.

Scale : 1/200,000

0 2 4 6 8 10 kilometers

Average Cropping Intensity in Bari Land (1995)