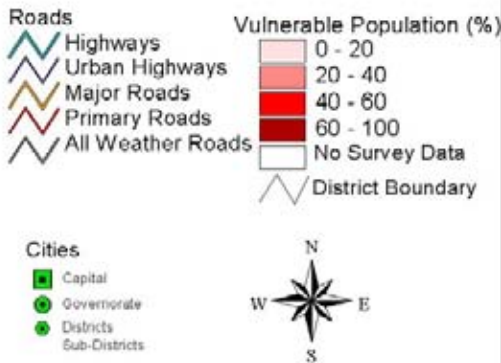
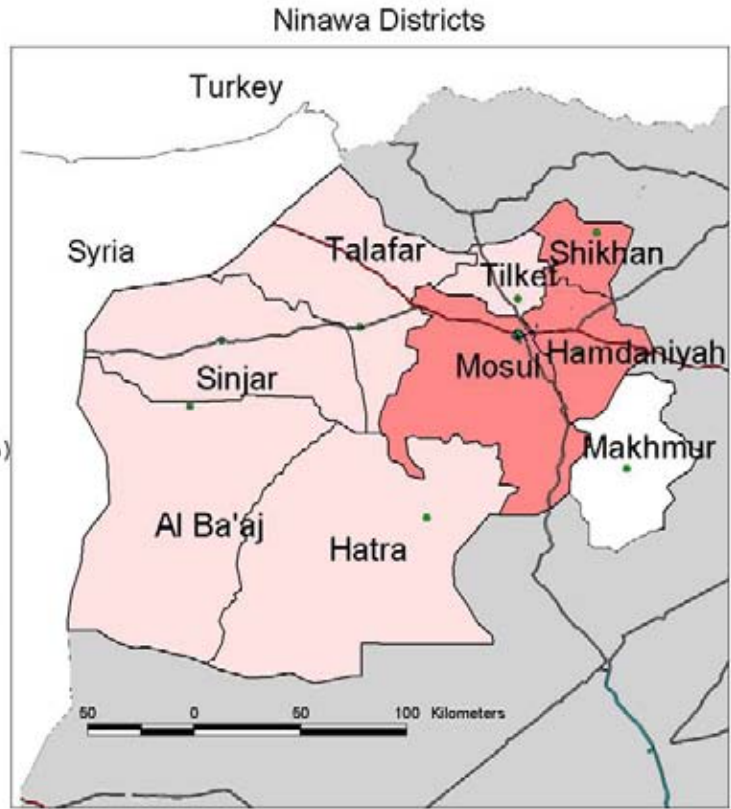
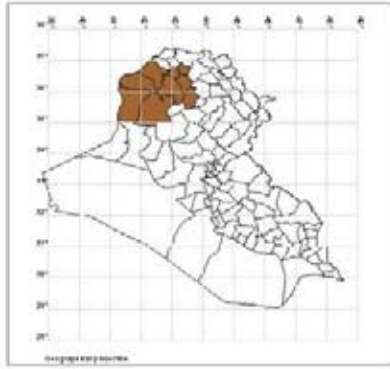


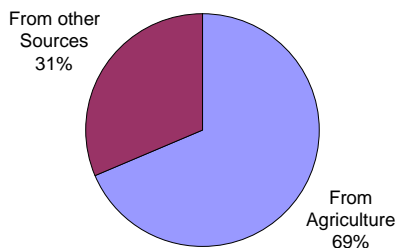
# GOVERNORATE - NINAWA



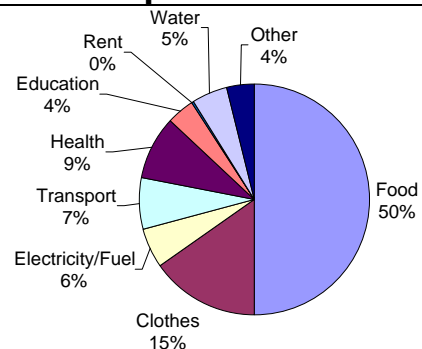
## Rural Population

District	Population January 2003	Rural Population (%)	Rural Population	Rural Households Interviewed	Average Rural Household Size	Housing
Ba'aj	88 401	84.3	74 522	35	10.8	
Hamdaniyah	125 665	65	81 682	308	9.0	
Hatra	37 655	80	30 124	89	10.8	
Makhmur	76 042	70	53 229	0		
Mosul	1 432 230	30	429 669	416	9.5	
Shikhan	58 132	65	37 786	187	9.1	
Sinjar	166 466	85.3	141 996	49	10.1	
Talafar	300 878	45	135 395	126	10.1	
Tilkef	167 647	60	100 588	172	9.1	
<b>Total Population</b>	<b>2 453 116</b>	<b>44.2</b>	<b>1 084 991</b>	<b>1 382</b>	<b>9.5</b>	
<b>Total Interviewed Population</b>			<b>13 086</b>			

### Income



### Expenditures



	Education	Occupation
<b>Household Members</b> (Male 52 percent – Female 48 percent)	<p>Education levels for Household Members:</p> <ul style="list-style-type: none"> <li>Illiterate: 41%</li> <li>Under Primary: 26%</li> <li>Primary: 26%</li> <li>Middle and Above: 7%</li> </ul>	<p>Occupation for Household Members:</p> <ul style="list-style-type: none"> <li>Housewives And students: 50%</li> <li>Farming/Livestock Raising: 20%</li> <li>Unemployed: 15%</li> <li>Other Professions: 8%</li> <li>Laborer: 7%</li> </ul>
<b>Household Heads</b> (Male 94 percent – Female 6 percent)	<p>Education levels for Household Heads:</p> <ul style="list-style-type: none"> <li>Illiterate: 42%</li> <li>Under Primary: 12%</li> <li>Primary: 28%</li> <li>Middle and Above: 18%</li> </ul>	<p>Occupation for Household Heads:</p> <ul style="list-style-type: none"> <li>Farming/Livestock raising: 62%</li> <li>Other Professions: 17%</li> <li>Laborer: 9%</li> <li>Unemployed: 6%</li> <li>Housewives And students: 6%</li> </ul>

## Agricultural Activities

Out of 1 382 total interviewed households:	No. of Households	Percentage of Interviewed (%)	Average Use of Land /Average Ownership of Livestock (average referred to households using land or owning livestock only)
Households with at least one member engaged in agriculture	919	66	
Households Accessing Land	1 013	73	80.1 donum/ 20 ha
Cultivating Winter Crops	875	63	78.8 donum/ 19.7 ha
Cultivating Summer/Permanent Crops	213	15	16.9 donum/ 4.2 ha
Owning Cows and Buffaloes	472	34	3.8 Cows and Buffaloes
Owning Sheep	622	45	62.2 Sheep
Owning Goats	329	24	8.5 Goats
Owning Poultry	1 055	76	19.6 Poultry

## Crop Pattern

Winter Crops Pattern (85 percent of available land used)	Summer Crops Pattern (3 percent of available land used)
<p>Winter Crops Pattern (85 percent of available land used):</p> <ul style="list-style-type: none"> <li>Barley: 63%</li> <li>Wheat: 36%</li> <li>Other: 1%</li> <li>Fodder: 0%</li> <li>Pulses: 0%</li> <li>Vegetables: 0%</li> </ul>	<p>Summer Crops Pattern (3 percent of available land used):</p> <ul style="list-style-type: none"> <li>Vegetables: 63%</li> <li>Other: 30%</li> <li>Oilseed: 4%</li> <li>Fruits: 0%</li> <li>Dates: 1%</li> <li>Fodder: 1%</li> <li>Rice: 0%</li> <li>Maize: 1%</li> </ul>

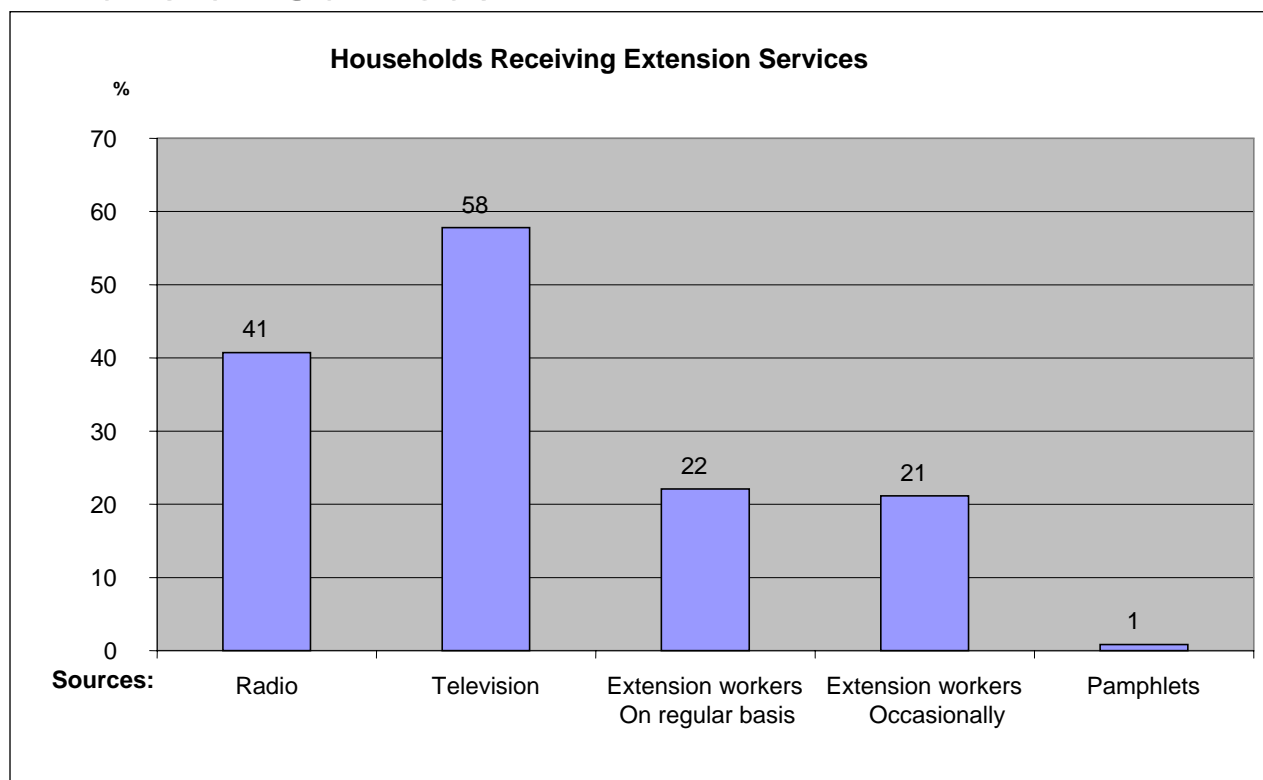
## Livestock

Livestock	Total Livestock/Poultry Raised (1 382 interviewed households representing a sample population of 13 086 members)	Total Estimated in the Governorate (considering the entire rural population of Ninawa of about 1 084 000 persons, that is 83 times the size of the sample )
Cows and Buffaloes	1 770	146 000
Sheep	38 694	3 208 000
Goats	2 787	231 000
Poultry	20 687	1 715 000

## Agricultural Machinery

Machinery	Total Number Available (for the sample of 1 382 interviewed households)	Percentage Requiring Repair / Parts (%)	Number of Machine per Household Accessing Land (1 013 households in total)
Tractors	292	13	0.29
Combine Harvesters	54	18	0.05
Seed Drills	176	12	0.17
Fertilizer Sprayers	42	9	0.04
Sprayers	22	4	0.02
Water Pumps	234	11	0.23
Irrigation Systems	22	13	0.02

## Extension Services



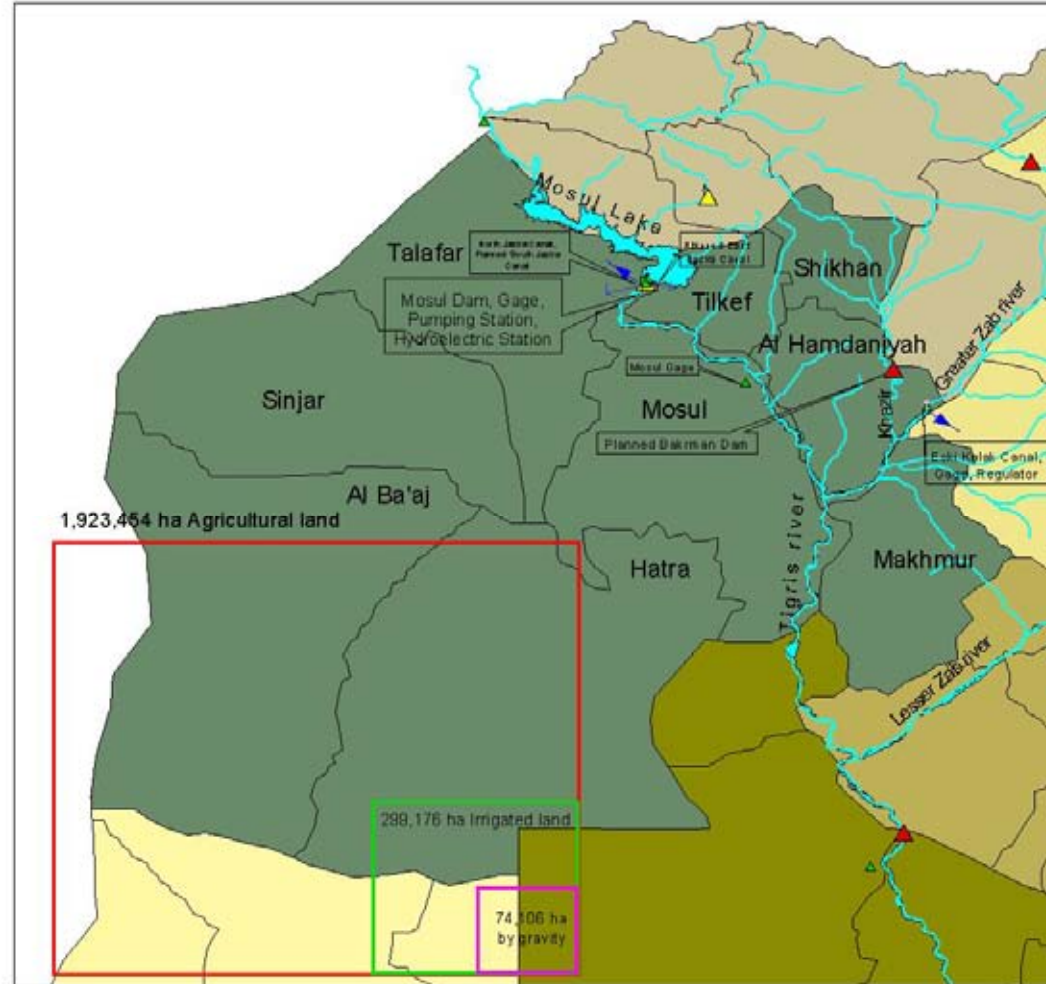
# Needs Assessment

Major Needs	Percentage of Reporting Households (%)
Fertilizer	65
Improved Seeds	62
Proper Pesticides	62
Agriculture Machinery	57
Health Services /Facilities	50



# Storage and Control of Water in Ninawa Governorate

Rainfed 6,497,111 donum (1,624,278 ha), Irrigated by gravity 296,422 donum (74,106 ha), Irrigated by pumps 900,281 donum (225,070 ha) Source: Cost Production Survey 1999, (CSO/MoP)



- Dam
- Barrage
- Dam Under Construction
- Regulator
- Navigation Lock
- Pumping Station
- Hydroelectric Station
- Gage/Measurement
- Irrigation Canal
- Drainage Canal
- Lake
- Depression
- Dam/Wall
- Lakes
- Rivers



Geographic Projection

Scale 1 : 2,270,000

50 0 50 100 Kilometers

The boundaries and names do not imply endorsement by the United Nations. Source ESRI Map data, 2002; HIC, 2003, MoWR 2004. Compiled by FAO/TCES

