



IRRIGATION BRANCH

ALBERTA IRRIGATION DISTRICTS

ACREAGES, WATER RATES

AND

CROP SUMMARIES

1993

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Alberta Agriculture, Food and Rural Development

Irrigation Branch

Research, Planning and Monitoring Section

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Lethbridge, Alberta

INTRODUCTION

This report is prepared by Alberta Agriculture, Food and Rural Development; Irrigation Branch; Research, Planning and Monitoring Section. The pie charts present graphically, crops that are actually irrigated within the irrigation districts. Districts only identify the number of acres and crop type on acreage they actually deliver water to. In a wet year like 1993, some irrigation districts didn't deliver any water, consequently they didn't identify any crop types within their districts. Pie charts for the St. Mary River Irrigation District's Western Division and Eastern Division are presented along with a third chart representing the total crops actually irrigated. Other districts are presented individually. A final pie chart entitled "Alberta Irrigation Districts" presents the total crops actually irrigated in the irrigation districts.

Table II, Irrigated Crops Grown on Actually Irrigated Acres Within the Irrigation Districts, is a summary of the data from Table I. The data in Table I was used directly to generate the pie charts. The titles listed below are the titles used in the pie charts, along with a list of the columns that were added together from Table I to get the values as shown in Table II.

<u>Crops</u>	<u>Columns</u>
1. Cereals	A to I
2. Forages	J to T
3. Oil Seeds	U to Y
4. Specialty Crops	Z to AU

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2. Eastern Irrigation District
3. Lethbridge Northern Irrigation District
4. St. Mary River Irrigation District
 - a) St. Mary River Irrigation District - Western Division
 - b) St. Mary River Irrigation District - Eastern Division
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6. Western Irrigation District
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TABLE I - IRRIGATED CROPS GROWN ON ACTUALLY IRRIGATED ACRES WITHIN THE IRRIGATION DISTRICTS - 1993
ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT - IRRIGATION BRANCH

DISTRICT	AID	BRID	EID	LID	LNID	MID	MVID	RID	RCID	SMRID-W	SMRID-E	TID	UID	WID	TOTALS
Assessed Acres	3,519	204,466	270,008	4,780	138,095	16,775	3,737	44,229	1,210	152,153	200,886	78,412	34,772	87,453	1,240,495
Acres Actually Irrigated	0	184,463	259,778	0	67,565	0	0	0	0	101,571	161,147	66,158	0	40,077	880,759
Soft Spring Wheat	A	67,089	29,110	--	7,582	--	--	--	--	24,709	59,681	15,156	--	2,318	205,645
Hard Spring Wheat	B	4,924	6,563	--	2,036	--	--	--	--	2,014	857	--	--	--	16,394
Winter Wheat	C	--	--	--	--	--	--	--	--	930	10	160	--	--	1,100
Durum	D	--	--	--	--	--	--	--	--	305	1,196	--	--	--	1,501
Oats	E	1,578	5,138	--	155	--	--	--	--	472	1,439	492	--	117	9,391
Rye	F	70	560	--	147	--	--	--	--	--	--	--	--	117	894
Triticale	G	--	--	--	262	--	--	--	--	--	--	--	--	--	262
Barley	H	18,146	31,287	--	8,990	--	--	--	--	19,428	6,730	9,207	--	5,049	98,837
Mixed Grain	I	--	162	--	--	--	--	--	--	585	813	284	--	--	1,844
Cereal Silage	J	--	--	--	14,445	--	--	--	--	9,296	1,952	393	--	--	26,086
Corn Silage	K	1,193	18,128	--	68	--	--	--	--	20	1,663	1,291	--	--	22,363
Hay Silage	L	✓	--	--	1,453	--	--	--	--	881	766	--	--	2,935	6,035
Green Feed	M	--	5,251	--	488	--	--	--	--	--	--	--	--	--	5,739
Alfalfa Hay	N	✓	34,372	83,126	19,401	--	--	--	--	13,633	35,306	13,516	--	21,373	220,727
Grass Hay	O	✓	--	853	772	--	--	--	--	302	510	--	--	--	2,437
Brome Hay	P	✓	--	--	1,149	--	--	--	--	1,054	56	--	--	--	2,259
Timothy Hay	Q	✓	--	--	280	--	--	--	--	1,905	132	--	--	--	2,317
Milk Vetch	R	✓	--	126	--	--	--	--	--	--	--	--	--	--	126
Sorghum	S	--	60	--	280	--	--	--	--	--	--	130	--	--	470
Tame Pasture	T	--	11,912	42,594	3,382	--	--	--	--	3,434	6,263	5,780	--	3,697	77,062
Canola	U	--	14,825	15,155	2,060	--	--	--	--	5,216	14,139	1,144	--	2,772	55,311
Mustard	V	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Sunflower	W	--	--	--	--	--	--	--	--	5	767	407	--	--	1,179

TABLE 1 - IRRIGATED CROPS GROWN ON ACTUALLY IRRIGATED ACRES WITHIN THE IRRIGATION DISTRICTS - 1993 (cont'd)

ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT - IRRIGATION BRANCH

DISTRICT	AID	BRID	EID	LID	LNID	MID	MVID	RID	RCID	SMRID-W	SMRIDE	TID	UID	WID	TOTALS
Safflower	--	--	--	--	--	--	--	--	--	841	173	--	--	--	1,014
Flax	--	3,925	2,644	--	--	--	--	--	--	928	1,645	50	--	--	9,192
Alfalfa Seed	--	--	9,833	--	290	--	--	--	--	--	226	--	--	--	10,349
Grass Seed	--	135	45	--	117	--	--	--	--	--	154	--	--	--	451
Sugar Beets	--	6,773	707	--	3,158	--	--	--	--	8,328	4,902	6,332	--	--	30,200
Peas	--	4,799	2,777	--	140	--	--	--	--	1,414	560	579	--	117	10,386
Canning Corn	--	350	210	--	6	--	--	--	--	347	2,625	2,091	--	--	5,629
Potatoes	--	5,317	3,375	--	349	--	--	--	--	2,338	3,864	4,663	--	--	19,926
Beans	--	8,663	512	--	65	--	--	--	--	1,632	12,468	3,979	--	--	27,319
Lentils	--	--	--	--	--	--	--	--	--	--	80	--	--	--	80
Carrots	--	--	370	--	--	--	--	--	--	--	30	114	--	--	514
Cabbage	--	--	147	--	--	--	--	--	--	--	--	58	--	--	205
Nursery	--	--	428	--	38	--	--	--	--	68	15	--	--	1,582	2,131
Market Gardens	--	--	125	--	10	--	--	--	--	207	--	--	--	--	342
Lawn Turf	--	--	--	--	131	--	--	--	--	405	254	--	--	--	790
Mint	--	--	--	--	--	--	--	--	--	--	1,456	--	--	--	1,456
Minarda	--	--	--	--	--	--	--	--	--	--	40	--	--	--	40
Onions	--	--	--	--	--	--	--	--	--	11	--	--	--	--	11
Dill	--	--	--	--	--	--	--	--	--	--	40	--	--	--	40
Turnips	--	--	--	--	--	--	--	--	--	--	--	30	--	--	30
Pumpkins	--	--	--	--	--	--	--	--	--	--	--	45	--	--	45
Misc. Vegetables	--	332	378	--	291	--	--	--	--	322	335	37	--	--	1,695
Small Fruit	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
Summer Fallow	--	--	174	--	20	--	--	--	--	541	--	200	--	--	935
TOTALS	0	184,463	259,778	0	67,565	0	0	0	0	101,571	161,147	66,158	0	40,077	880,759

TABLE II - IRRIGATED CROPS GROWN ON ACTUALLY IRRIGATED ACRES WITHIN THE IRRIGATION DISTRICTS - 1993
ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT - IRRIGATION BRANCH

CROPS	IRRIGATION DISTRICTS											DISTRICT TOTALS				
	Aetha	Mt. View	Ross Creek	Sub-total	St. Mary West	St. Mary East	St. Mary Sub-total	Bow River	Eastern	Leth. Northern	Mag-rath		Raymond	Taber	United	Western
Cereals	0	0	0	0	48,443	70,726	119,169	91,807	72,820	19,172	0	0	25,299	0	7,601	335,868
Forages	0	0	0	0	30,525	46,648	77,173	47,537	150,078	41,718	0	0	21,110	0	28,005	365,621
Oil Seeds	0	0	0	0	6,990	16,724	23,714	18,750	17,799	2,060	0	0	1,601	0	2,772	66,696
Specialty Crops	0	0	0	0	15,613	27,049	42,662	26,369	19,081	4,615	0	0	18,148	0	1,699	112,574
Acres Irrigated	0	0	0	0	101,571	161,147	262,718	184,463	259,778	67,565	0	0	66,158	0	40,077	880,759

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ASSESSED ACRES UNDER IRRIGATION WITHIN IRRIGATION DISTRICTS 1970 TO PRESENT DATE

YEAR	AETNA	BOW RIVER	EASTERN	LEAVITT	LETH. NORTHERN	MAGRATH	MT. VIEW	RAY-MOND	ROSS CREEK	ST. MARY RIVER	TABER	UNITED WESTERN	TOTALS
1970	6,673	23,783	199,729	4,523	89,360	8,506	3,719	20,847	2,068	197,540	57,484	33,353	691,591
1971	6,548	24,071	200,459	4,343	89,883	8,105	3,719	20,349	2,068	199,572	59,172	33,353	695,591
1972	3,131	24,196	202,225	4,305	89,379	9,042	3,719	20,269	2,068	204,051	59,833	33,353	699,470
1973	3,081	26,756	205,481	4,305	98,206	9,182	3,719	20,647	2,068	216,136	61,692	33,353	728,545
1974	3,081	118,741	207,245	4,421	105,958	9,077	3,717	23,257	2,068	237,244	63,823	34,034	856,885
1975	3,081	131,764	212,982	4,430	108,106	8,871	3,720	26,920	2,068	252,019	62,692	33,358	895,322
1976	3,081	139,665	219,405	4,430	109,629	9,069	3,720	28,350	2,069	262,231	66,423	33,358	933,620
1977	3,081	147,795	224,967	4,430	111,735	9,480	3,720	31,626	1,310	274,301	68,178	33,617	982,798
1978	3,104	153,120	227,202	4,431	111,947	10,737	3,717	31,570	1,776	284,151	68,815	33,651	1,005,824
1979	3,104	150,160	227,254	4,477	111,924	10,797	3,710	31,524	1,776	287,329	69,828	33,546	1,009,954
1980	3,104	164,889	229,110	4,477	112,562	10,797	3,710	33,681	1,776	293,126	70,368	33,544	1,037,173
1981	3,096	174,641	230,553	4,457	113,845	10,963	3,710	35,385	1,776	299,548	70,819	33,417	1,061,733
1982	3,127	179,613	239,651	4,423	114,919	11,647	3,710	39,130	1,716	301,446	71,529	33,383	1,086,158
1983	2,916	181,174	244,099	4,440	116,745	12,357	3,710	39,148	1,776	313,728	72,623	33,448	1,107,644
1984	3,051	183,529	244,243	4,440	117,869	13,047	3,710	41,729	1,776	319,712	72,971	33,534	1,122,585
1985	3,399	185,034	246,658	4,460	118,883	14,218	3,710	44,990	1,319	328,063	73,063	33,854	1,141,896
1986	3,444	189,202	247,804	4,460	120,416	14,579	3,690	44,950	1,210	331,493	73,314	34,336	1,152,822
1987	3,444	190,263	249,372	4,479	121,494	14,885	3,690	44,407	1,210	334,285	73,654	34,450	1,161,038
1988	3,435	192,424	252,432	4,709	121,635	15,030	3,690	44,196	1,210	339,091	73,602	34,615	1,172,267
1989	3,500	194,977	256,353	4,729	121,909	15,569	3,700	44,144	1,210	342,451	74,898	34,818	1,184,500
1990	3,500	199,980	260,523	4,742	122,102	15,099	3,728	44,044	1,210	349,849	74,568	34,769	1,202,594
1991	3,527	201,070	263,889	4,762	122,338	16,665	3,728	44,305	1,210	350,108	77,740	34,687	1,212,141
1992	3,519	202,499	269,462	4,800	126,046	16,391	3,734	44,279	1,210	351,393	78,177	34,868	1,224,327
1993	3,519	204,466	270,008	4,780	138,095	16,775	3,737	44,229	1,210	353,039	78,412	34,772	1,240,495

NOTE: BRID increased 92,000 acres in 1974 with the amalgamation of the BRID and the Bow River (Federal) project.

ANNUAL WATER RATES 1982 TO PRESENT DATE

YEAR	AETNA	AETNA PIPELINE SYSTEM*	BOW RIVER	EASTERN **	LEAVITT	LEAVITT PIPELINE SYSTEM*	LETH. NORTHERN	MAGRATH	MAGRATH SOUTH PIPELINE EXPANSION*	MT VIEW	FAYMOND	ROSS CREEK	ST. MARY RIVER **	TABER	UNITED WESTERN	
1982	\$2.50		\$6.50	\$6.50	\$5.00		\$12.00	\$6.00		\$3.00	\$6.25	\$3.00	\$12.00	\$10.75	\$3.25	\$6.30
1983	5.00		9.00	6.75	8.00		12.50	6.00		5.20	6.50	3.00	12.00	11.00	3.25	6.50
1984	6.00		10.00	7.00	8.00		12.50	6.00		5.20	6.50	3.00	12.00	11.00	3.25	6.75
1985	6.00		10.00	7.00	7.50		12.50	6.00	\$13.50	5.20	6.50	4.00	12.00	11.00	3.25	7.25
1986	6.00		10.00	7.25	7.50		12.50	6.00	13.50	5.20	6.50	6.00	13.00	11.00	3.25	7.47
1987	6.00		10.00	7.50	7.50	\$9.50	12.50	6.00	13.50	5.20	6.50	6.00	13.00	11.00	3.25	7.47
1988	7.00	\$9.00	10.00	7.50	8.00	10.00	12.50	6.00	13.50	5.20	6.50	6.00	13.00	12.00	3.25	7.70
1989	7.00	9.00	10.00	8.00	8.00	10.00	13.50	6.00	13.50	6.20	6.50	6.00	13.25	12.00	3.50	8.00
1990	8.00	10.00	10.00	8.50	8.00	10.00	13.50	6.00	13.50	6.20	6.50	6.00	14.00	12.00	3.75	11.00
1991	8.00	10.00	10.00	8.50	7.00	10.00	13.50	6.00	13.50	6.20	6.50	6.00	14.00	12.00	4.00	13.00
1992	8.00	10.00	11.00	8.50	7.00	10.00	14.00	6.00	13.50	6.20	6.50	6.00	14.00	12.00	4.25	13.50
1993	8.00	10.00	11.00	8.50	7.00	10.00	14.00	6.00	12.45	6.20	6.50	6.00	14.25	12.00	4.50	13.50

*Includes regular plus additional rate per acre for pressure pipeline users.

**District charges an additional pressure charge above this rate.

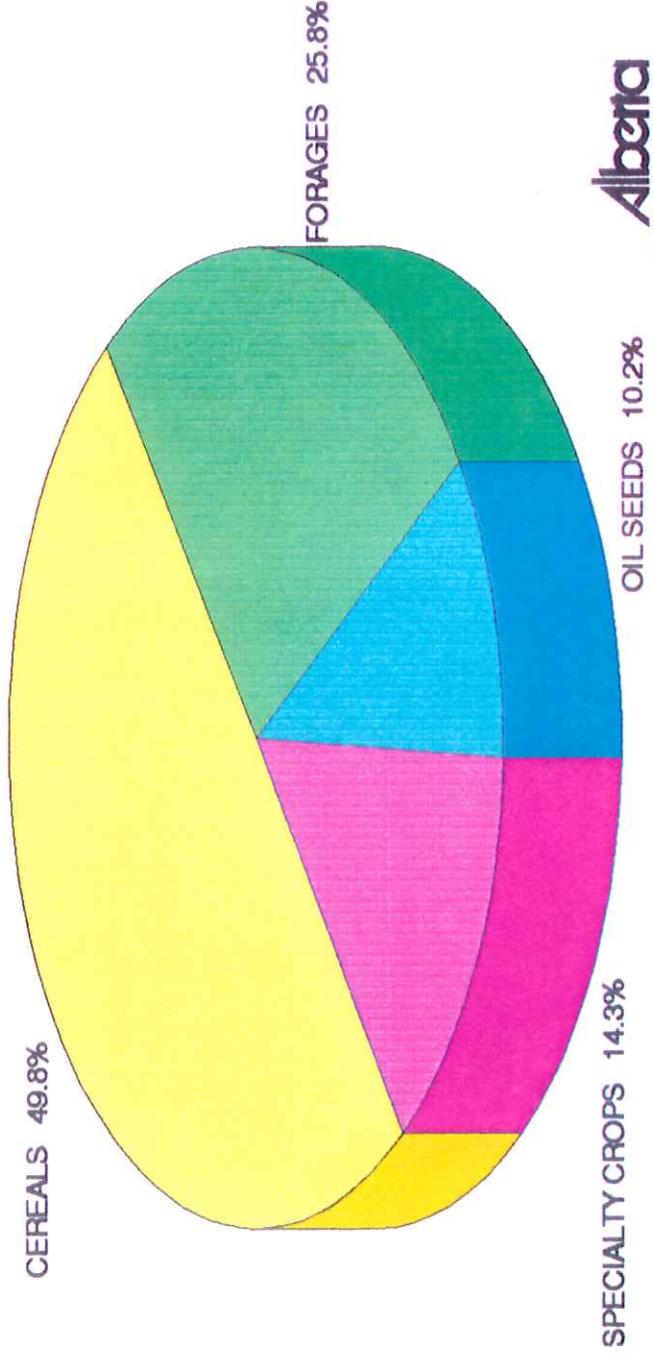
PREPARED BY: ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT, IRRIGATION BRANCH, LETHBRIDGE (APRIL 1994).

IRRIGATED CROPS - 1993

PIE CHARTS

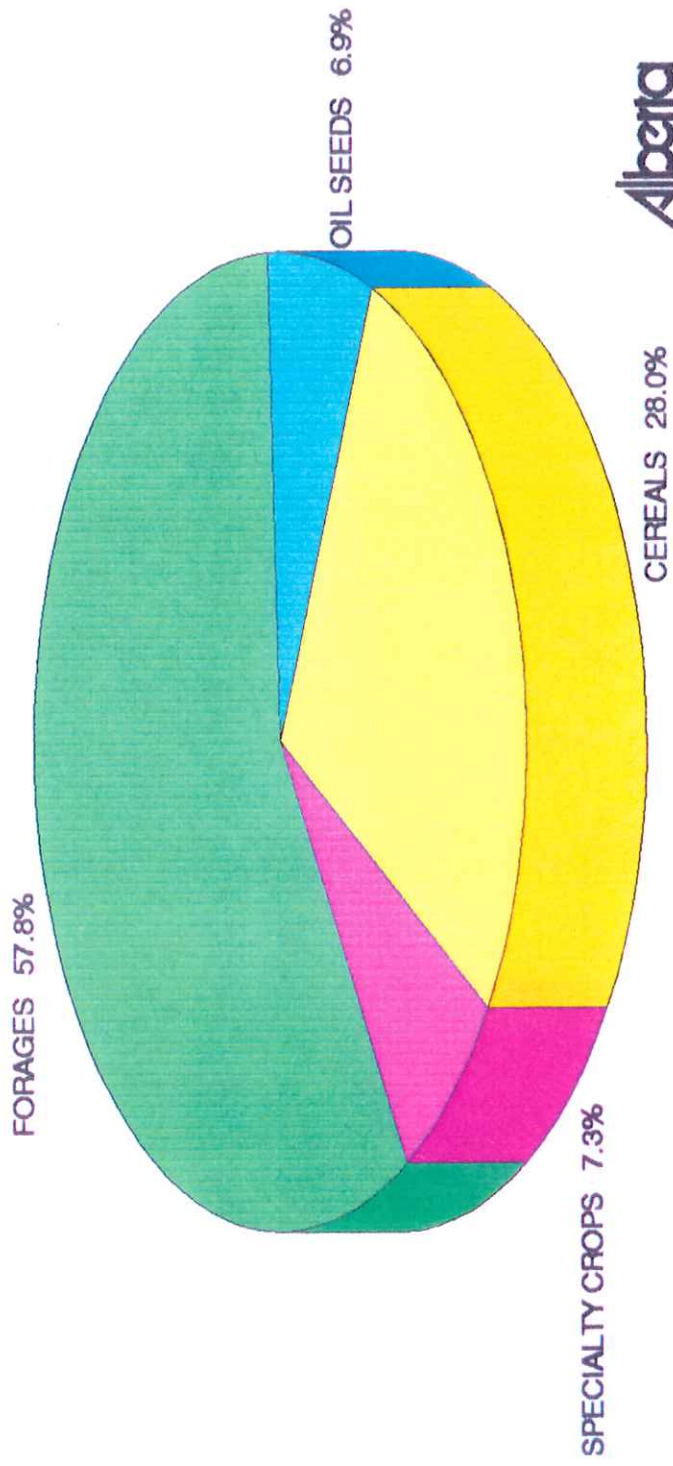
IRRIGATED CROPS - 1993

Bow River Irrigation District



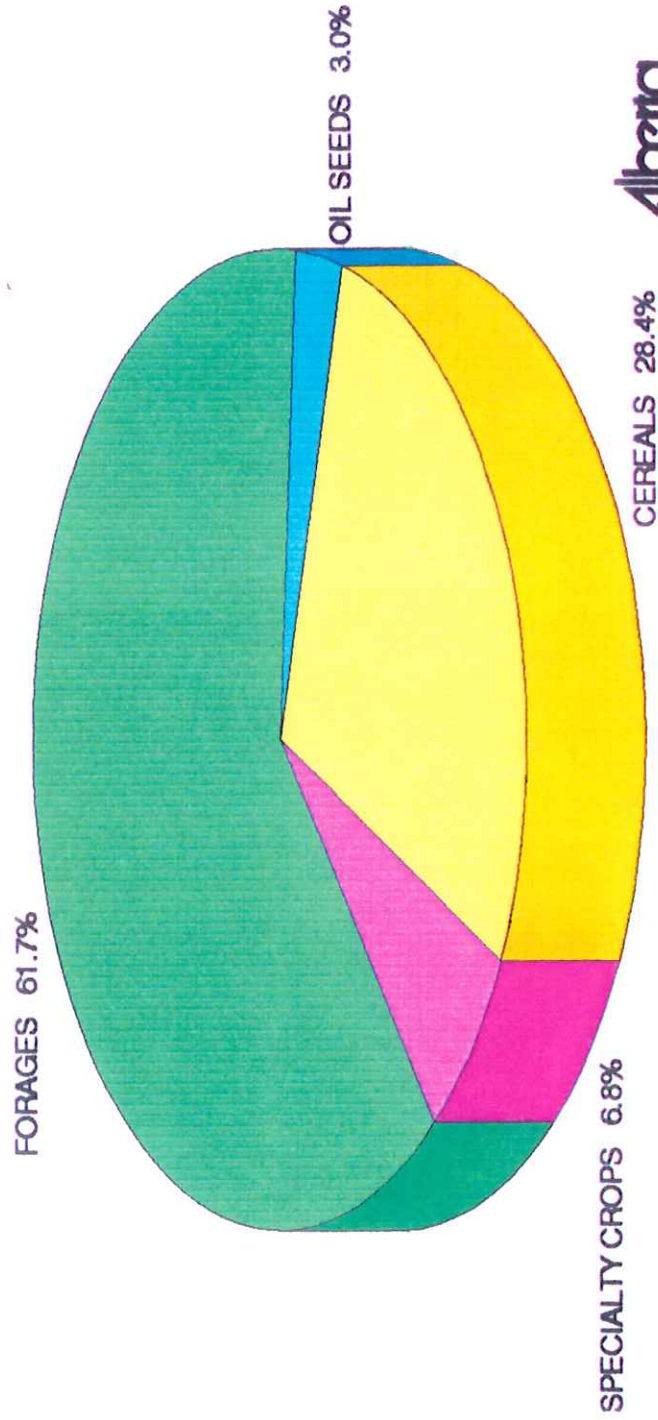
IRRIGATED CROPS - 1993

Eastern Irrigation District



IRRIGATED CROPS - 1993

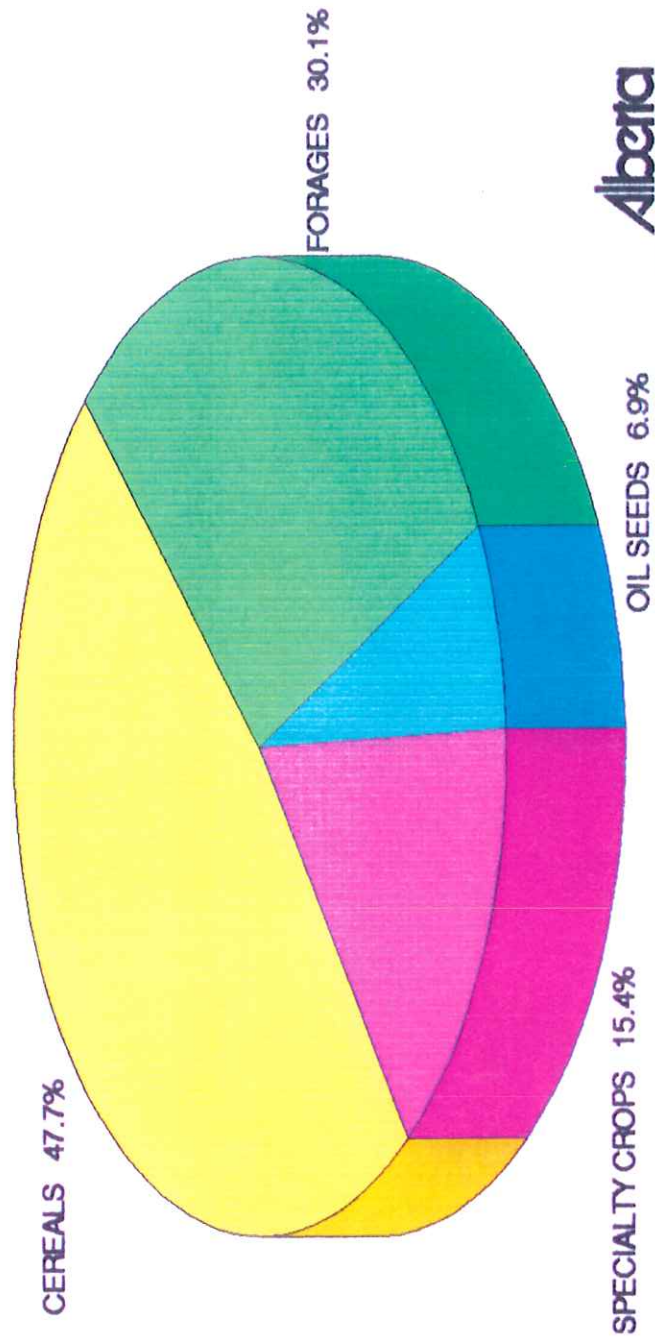
Lethbridge Northern Irrigation District



IRRIGATED CROPS - 1993

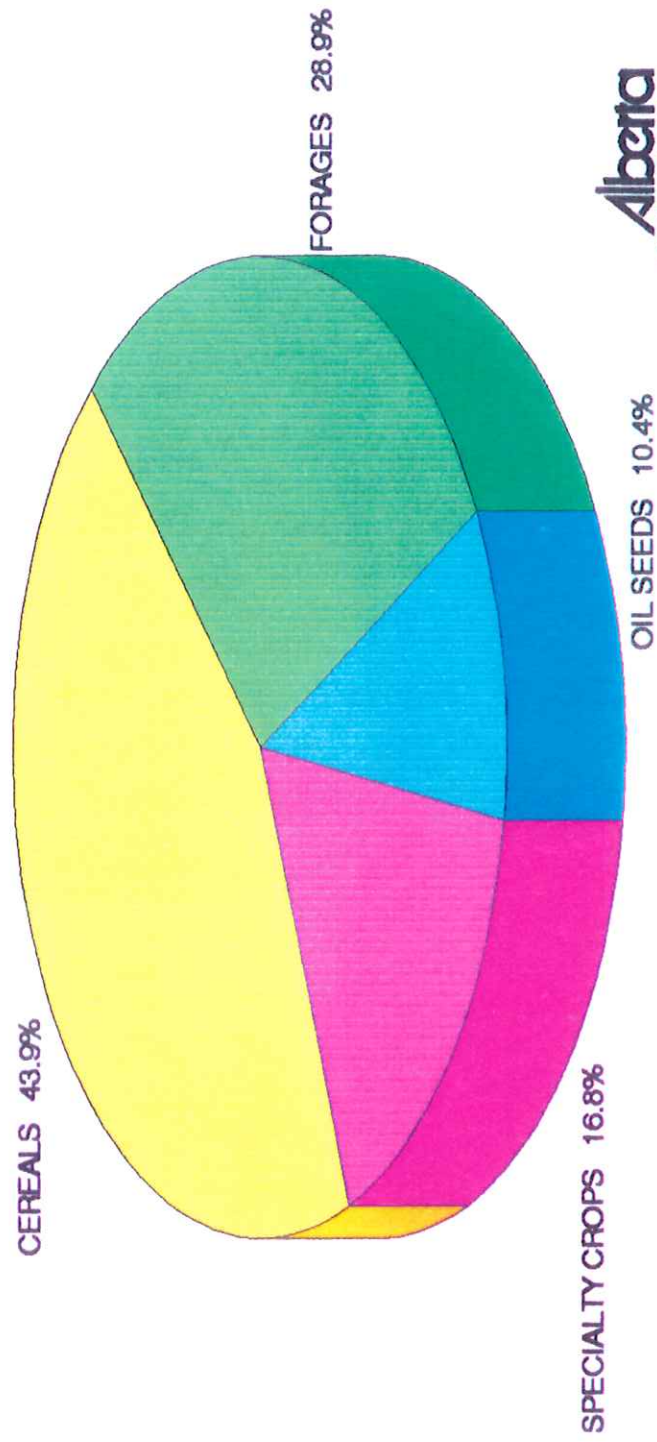
St. Mary River Irrigation District

Western Division



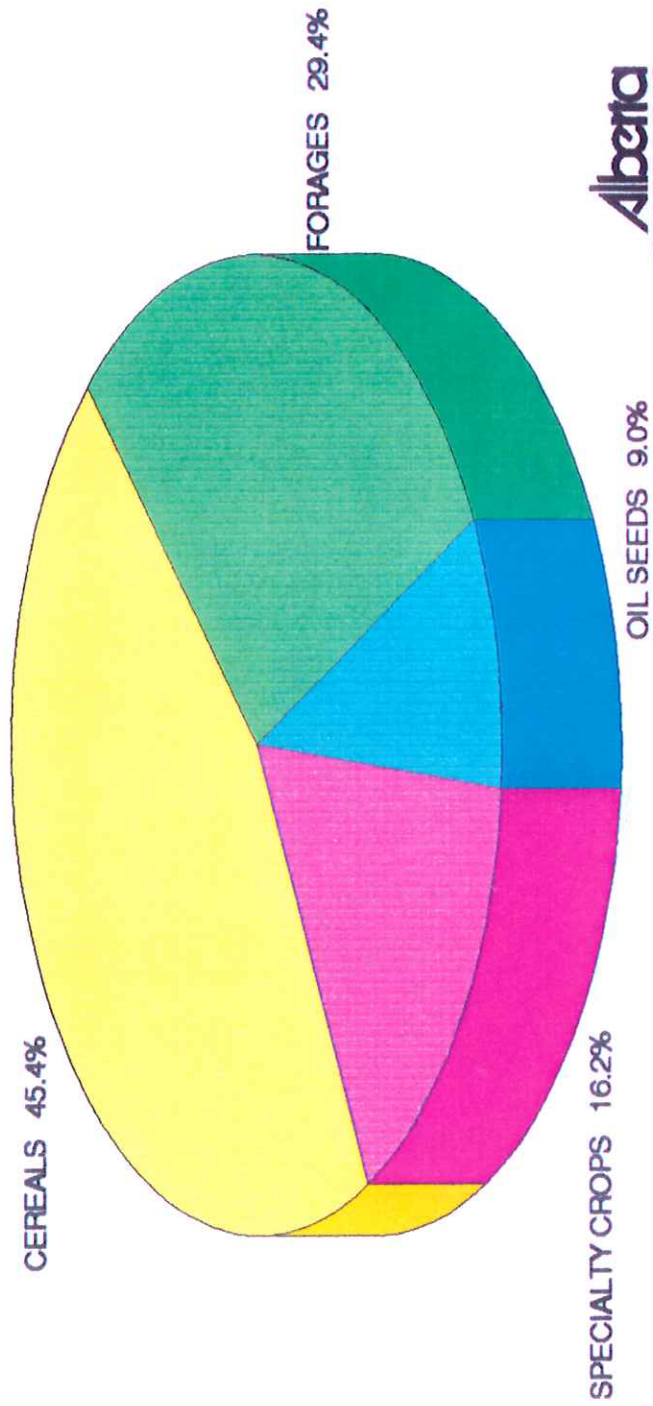
IRRIGATED CROPS - 1993

*St. Mary River Irrigation District
Eastern Division*



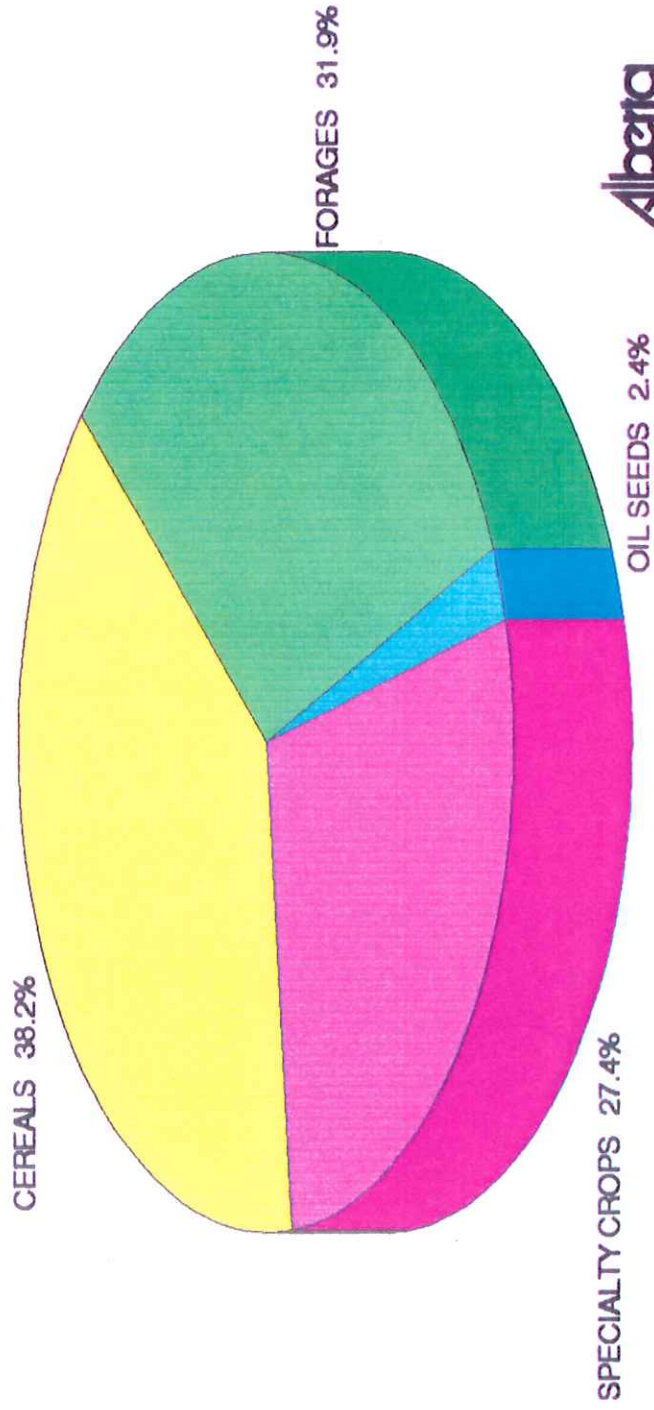
IRRIGATED CROPS - 1993

St. Mary River Irrigation District



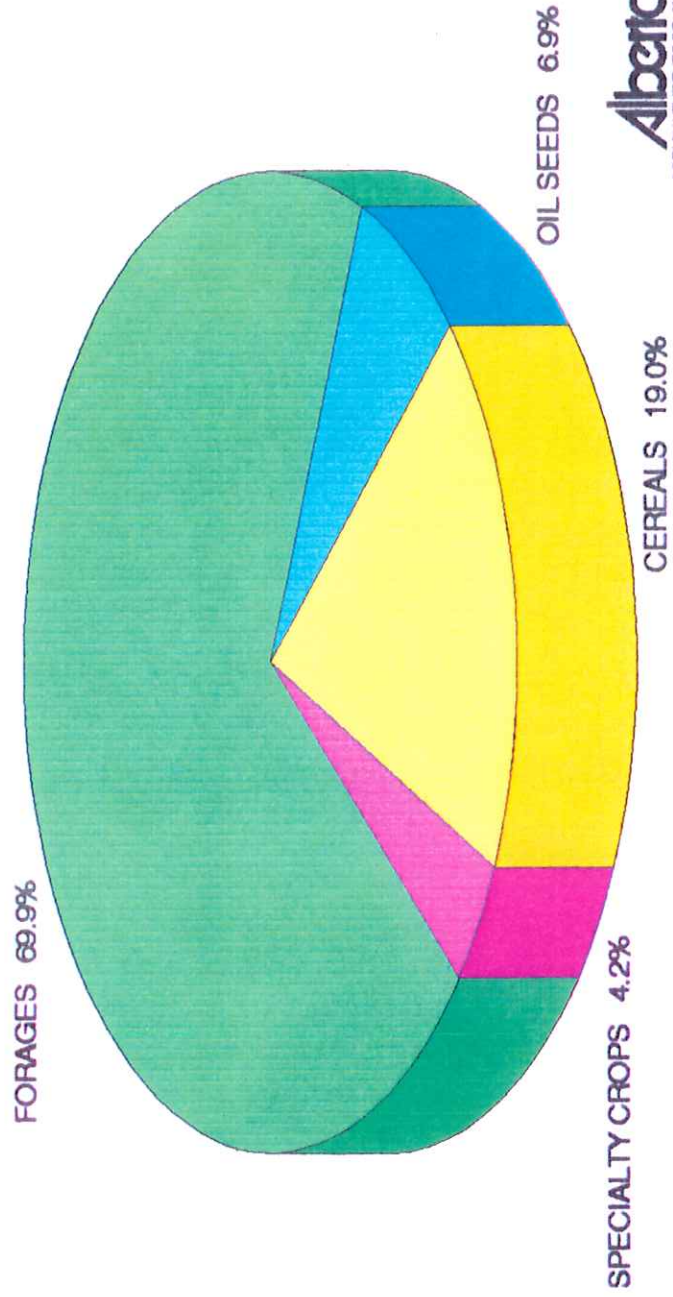
IRRIGATED CROPS - 1993

Taber Irrigation District



IRRIGATED CROPS - 1993

Western Irrigation District



Alberta
AGRICULTURE, FOOD AND
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