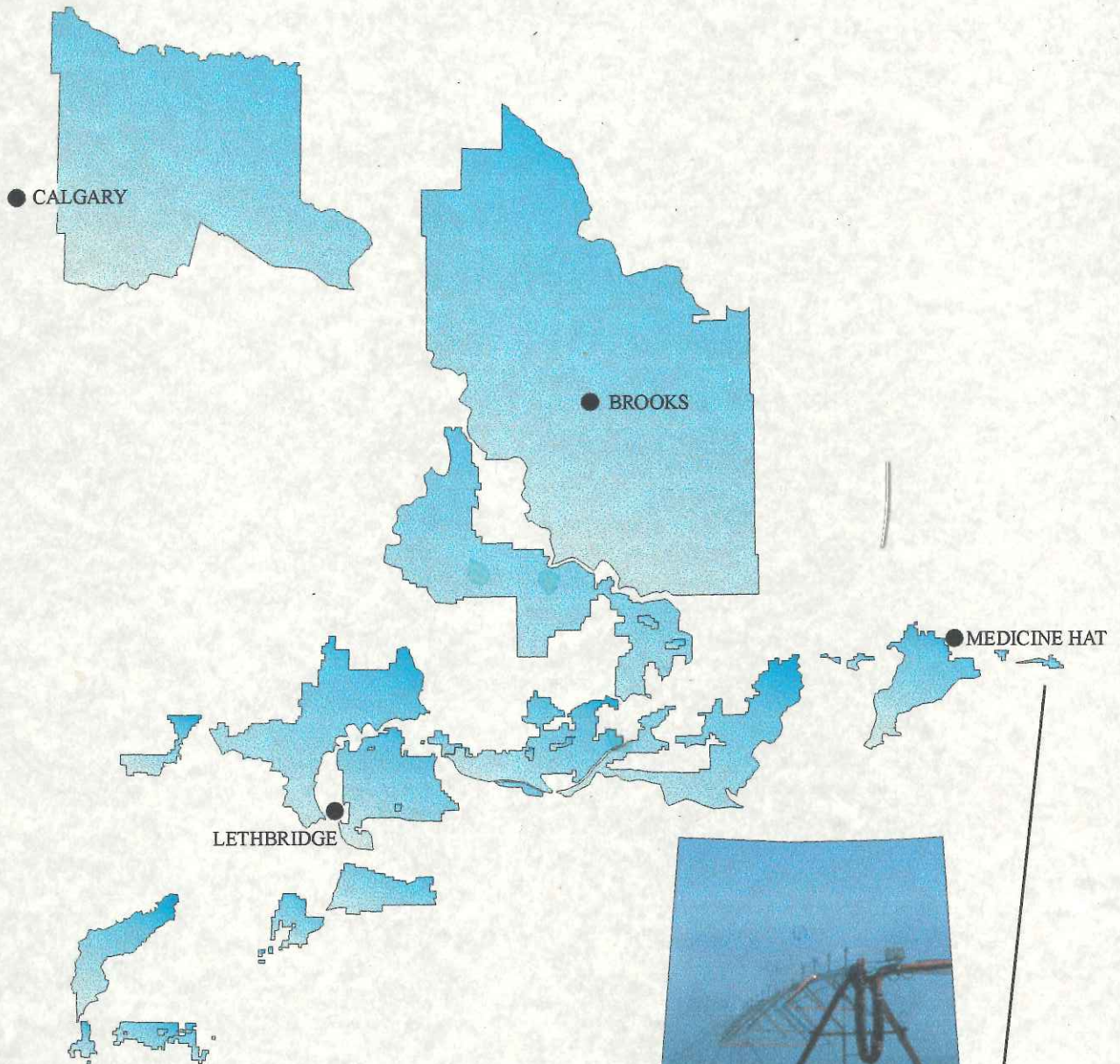


Alberta Irrigation Information 1999



ALBERTA IRRIGATION DISTRICTS

Crop and Water Information

1999



May 2000

For more information please contact Mr. Brian Taylor, Irrigation Branch, Alberta Agriculture, Food and Rural Development, Agriculture Centre, Lethbridge, Alberta T1J 4V6. Telephone (403) 381-5542.

Internet address: <http://www.agric.gov.ab.ca/navigation/sustain/irrigation/index.html>

INTRODUCTION

This report is prepared by Alberta Agriculture, Food and Rural Development; Irrigation Branch. The purpose of this booklet is to provide a statistical overview of pertinent irrigation data, relating primarily to the thirteen irrigation districts situated in southern Alberta.

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TABLE I - CROPS GROWN WITHIN THE THIRTEEN IRRIGATION DISTRICTS - 1999

CROP TYPE	CROP CODE	AI D		BR ID		EI D		LI D		LN ID		MI D		MV ID		RC ID		RI D		SMR ID-E		SMRI D-W		TI D		UI D		WI D		TOTAL ACRES	
		Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed	Acres	Assessed		
		Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated	Actually Irrigated	But Not Irrigated		
CEREALS	Barley	222	310	20,456	1,255	37,448	342	446		22,547	2,849	3,814	2,119	108	126	1,121		13,310	1,200	9,258	212	35,011	702	10,667	500	3,738	7,251	11,857	2,195	189,064	
	CPS Wheat			2,817	39	4,137	7			3,774	288	1,419	50					567	300	1,610		4,010	88				3,013	1,124	23,243		
	Durum			9,972	444	801	82			2,621		225	130							23,518	358	6,952	133	1,466		135	293	140	47,270		
	Grain Corn			115		298														2,620	24	1,305							4,362		
	Hard Spring Wheat			19,618	2,000	24,784	320			4,358	343	605	205					515	100	21,482	1,110	9,739	567	3,071		829	3,242	2,294	2,246	97,428	
	Malt Barley			192		817		111										790	1,400										3,310		
	Oats			745	11	3,137	12			829		135		126						744		391		274		40	321	310	50	7,125	
	Rye			168	94	1,136				5										270		431						56	2,160		
	Soft Wheat			24,694	856	5,815		229	34	2,160										14,652	168	8,389	259	8,551	850	70			758	67,485	
	Triticale			512	11	1,742				2,709									250		650		564		15					6,503	
	Winter Wheat			122		952	50			252		100	57								928		820	42			135	7		3,465	
FORAGES	Alfalfa - Two cuts			17,976	1,250	67,700	738													171						3,289	878	15,677	1,277	108,956	
	Alfalfa - Three cuts			10,616	27	1,335																								11,978	
	Alfalfa Hay	1,085	377					1,161		15,194	1,888	2,251	90	39				9,875		28,910	526	13,136	265	11,601	600			5,840	411	93,249	
	Alfalfa Silage					1,925			2,997									225		2,142	78	844						306	115	8,632	
	Barley Silage			3,196	87	7,971	2			46,405	2,874	481	140			80		4,902		4,053	40	11,358	364		400	402	41	7,042	607	90,445	
	Barley Silage (underseeded)					34						398																80		512	
	Brome Hay			136		27				1,022											122	41	262						30	1,640	
	Corn Silage			3,608	30	5,558	17			10,701		140								2,548		1,324	59	3,473						27,458	
	Grass Hay	8	213	212	302	11,100	11	805		1,906		1,080	19	2,475				525		2,315	5	2,566	635	747		1,560	1,329	145		27,958	
	Green Feed	266	304	1,007		7,746		205		222		245	45					180		2,099	78	529		170	30	201	202	545	115	14,189	
	Milk Vetch					149				150																				299	
	Native Pasture			45	27	950	156	1,679		664				707				50		3,190	438	1,664	64	1,900	310	2,586	2,124	5,834	787	23,185	
	Oats Silage					42						66																	40	148	
	Sorghum/Sudan Grass																				25									35	
	Tame Pasture	289	208	12,622	2,020	36,391	1,836			5,133	455	1,979	199			9		3,386	914	10,934	429	4,398	428	4,385	128	2,422	259	5,111	647	94,582	
Timothy Hay			2,110	79	1,902	68			3,217								120		2,301	15	5,783	80	1,824		405	31	167		18,102		
OIL SEEDS	Canola		327	18,018	529	19,920	733		10,290	407	1,665	523							4,216	2,700	21,927	237	19,103	704	2,384		1,410	766	8,398	2,176	116,433
	Flax			2,418		1,562			266																					7,362	
	Hyola			3,879		124								15						2,194								87	130	4,245	
	Linola			187		68																227								255	
	Mustard			108						93												70								271	
SPECIALTY CROPS	Alfalfa Seed			2,369	107	12,842			2,351																					17,669	
	Canary Seed					174			32																					206	
	Caraway Seed																				128									128	
	Carrots			267		477															30		112		205			79		1,170	
	Dill					390															842									1,232	
	Dry Beans			11,793	59	3,533				33										26,559	284	2,326	7	5,130						49,724	
	Dry Peas			2,543	70	1,952				324		70								1,825		959	185	712				376	55	9,071	
	Faba Beans						18																							18	
	Fresh Corn (sweet)			122	11	25																425		3,783						4,366	
	Fresh Peas			1,223		186															237		955						160	3,148	
	Grass Seed			756	14	1,389				128										702	30									3,019	
	Lawn Turf					52				81											171		467	14					308	1,093	
	Lentils																										64			64	
	Market Gardens			43		883				84									10		10		243		74				490	1,837	
	Mint																				1,601									1,601	
	Monarda																													0	
	Nursery				9	392	9			14											45		433	43					881	1,826	
	Onions			35																		4		458						497	
Potatoes			8,559		3,411				407										7,786		3,123	7	8,992		20		379		32,684		
Safflower					151																								151		
Seed Potatoes			218																										218		
Small Fruit																			5			33		8				63	109		
Sugar Beets			14,284		1,276				3,306											7,866	34	8,225	7	8,264					43,262		
Sunflower					476															335				132					943		
OTHER	Miscellaneous			30	32	208		99	1,467				40	86					40												

TABLE II - CROPS GROWN ON ACTUALLY IRRIGATED ACRES WITHIN THE THIRTEEN IRRIGATION DISTRICTS - 1999

IRRIGATION DISTRICTS														DISTRICT TOTALS			
CROPS	AID	LID	MVID	RCID	sub-total	SMRID West	SMRID East	SMRID sub-total	BRID	EID	LNID	MID	RID	TID	UID	WID	DISTRICT TOTALS
CEREALS	222	786	234	1,121	2,363	67,612	75,732	143,344	79,411	81,067	39,255	6,348	15,432	24,044	4,947	17,530	413,741
FORAGES	1,648	3,850	3,221	89	8,808	41,864	58,639	100,503	51,528	142,840	87,611	6,640	19,263	24,110	10,865	40,747	492,915
OIL SEEDS	0	0	15	0	15	19,991	24,191	44,182	24,610	21,674	10,649	1,665	4,216	2,428	1,410	6,485	119,334
SPECIALTY CROPS	0	0	0	0	0	17,305	48,137	65,442	42,212	27,609	6,760	70	15	28,145	84	2,736	173,073
OTHER	0	99	40	0	139	1,159	1,358	2,517	299	2,970	1,507	0	40	439	101	4,598	12,610
ACTUALLY IRRIGATED ACRES	1,870	4,735	3,510	1,210	11,325	147,931	208,057	355,988	198,060	276,160	145,782	14,723	38,966	79,166	17,407	74,096	1,211,673

PREPARED BY: ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT, IRRIGATION BRANCH, LETHBRIDGE

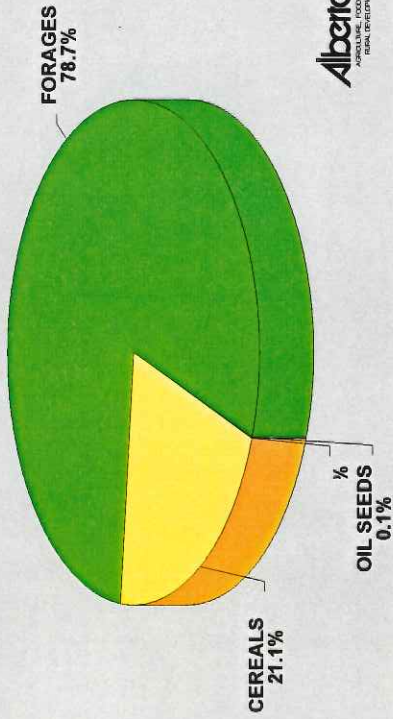
IRRIGATION METHOD SUMMARY
Alberta Irrigation Districts - 1999

IRRIGATION	METHOD	AID	BRID	EID	LID	LNID	MID	MVID	RCID	RID	SMRID - E	SMRID - W	TID	UID	WID	Individual Method Total	Group Total	
CENTER PIVOT	Pivot High Pressure	405	75,365	31,775	822	11,571	5,076		40	11,111			23,842	7,231	35,089	202,327	636,606	
	Pivot High Pressure - Corner arm		4,845	503		4,336				500			6,189			16,373		
	Pivot Low Pressure		25,946	65,097		19,701	1,469			4,981	163,006	73,354	11,681	1,664	4,599	371,478		
	Pivot Low Pressure - Corner Arm		3,034	4,331		31,546				537	144	272	6,564			46,426		
WHEEL MOVE	Wheel Move - Two Laterals	596	32,404	40,015	832	32,016	6,508	118		17,572	32,866	64,944	19,966	2,290	14,710	264,867	368,516	
	Wheel Move - Four Laterals		21,807	20,523	424	45,797				2,265			8,050	193	1,230	100,289		
	Linear - High Pressure			371		94							372			837		
	Linear - Low Pressure			1,475						128	524	276			120	2,523		
GRAVITY	Gravity - Developed - No Control		4,981	85,108		368	1,564		547	1,179			1,235	35	318	95,335	201,260	
	Gravity - Developed - Controlled		22,284	6,108	175	919			571	1,425			1,709		4,377	37,568		
	Gravity - Undeveloped - Flood	411	7,122	19,324	2,091	1,928		3,392		820	10,567	7,430	923	5,982	7,880	67,870		
	Gravity - Undeveloped - Subsurface			213		15				71			13		120	487		
OTHER	Volume Gun - Stationary			28		181							10		316	535	16,650	
	Volume Gun - Traveller		22	598		440					72		24		1,285	2,441		
	Solid Set (underground sprinkler)			336		514				95		180	91		459	1,675		
	Hand Move (sprinkler above ground)	458	251	978	284	708	201			729	84	1,148	124	12	2,916	7,893		
	Micro - Spray - Sprinkler					18				7					2	20		
	Micro - Drip - Trickle														150	157		
Other Use			39	107							145		134	3,504	3,929			

PREPARED BY: ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT, IRRIGATION BRANCH, LETHBRIDGE

IRRIGATED CROPS - 1999

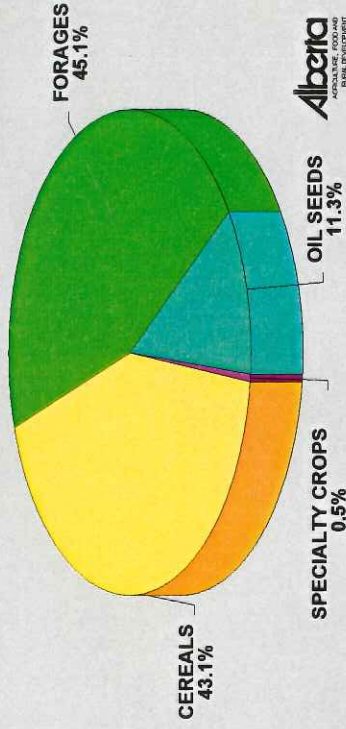
Aetna, Leavitt, Mountian View and Ross
Creek Irrigation Districts



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RURAL DEVELOPMENT

IRRIGATED CROPS - 1999

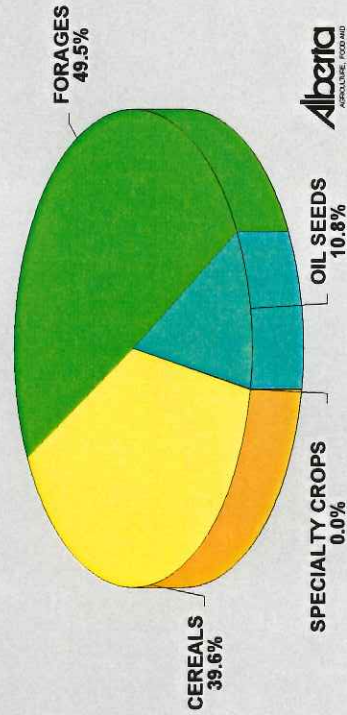
Magrath Irrigation District



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IRRIGATED CROPS - 1999

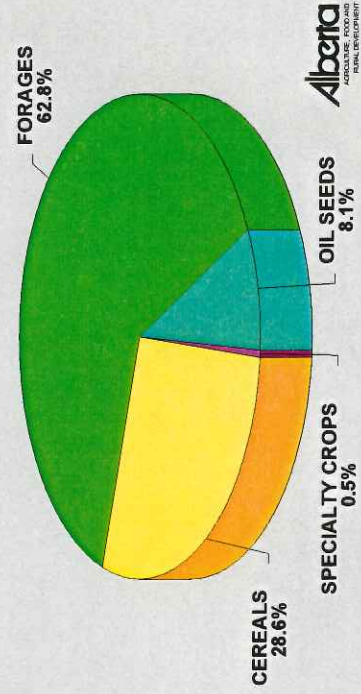
Raymond Irrigation District



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RURAL DEVELOPMENT

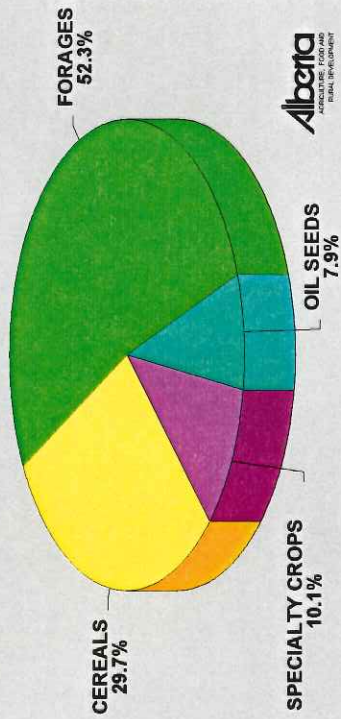
IRRIGATED CROPS - 1999

United Irrigation District



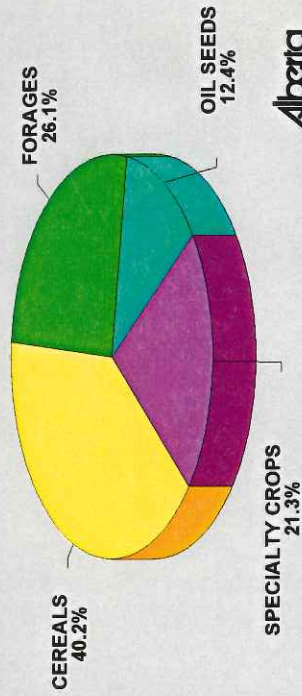
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AGRICULTURE, FORESTRY AND
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IRRIGATED CROPS - 1999 Eastern Irrigation District



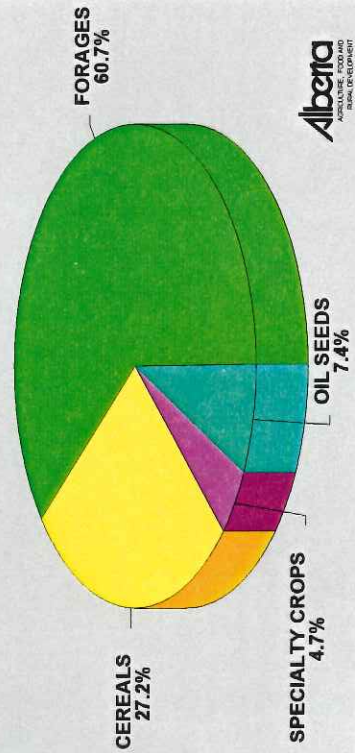
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IRRIGATED CROPS - 1999 Bow River Irrigation District



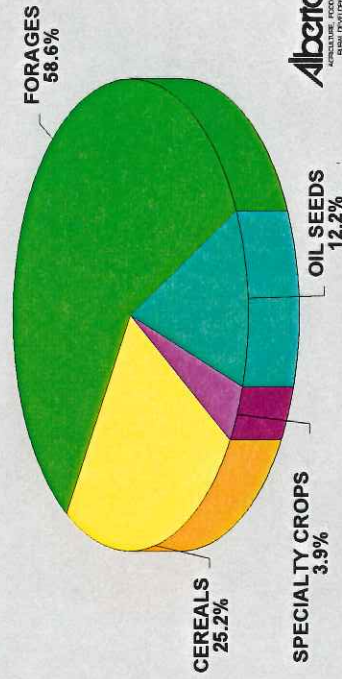
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IRRIGATED CROPS - 1999 Lethbridge Northern Irrigation District



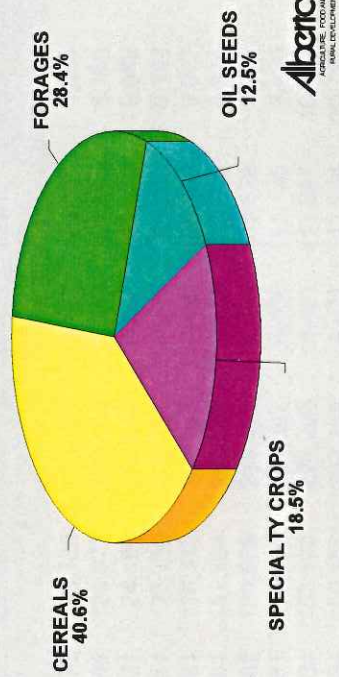
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IRRIGATED CROPS - 1999 Western Irrigation District



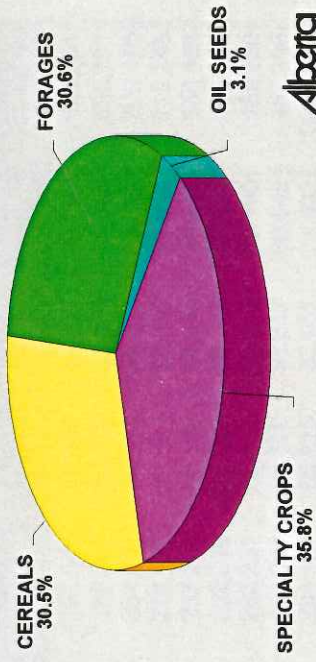
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IRRIGATED CROPS - 1999 St. Mary River Irrigation District



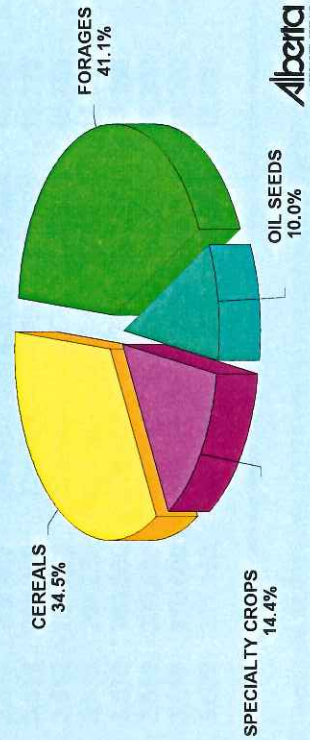
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AGRICULTURE, FOOD AND
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IRRIGATED CROPS - 1999 Taber Irrigation District



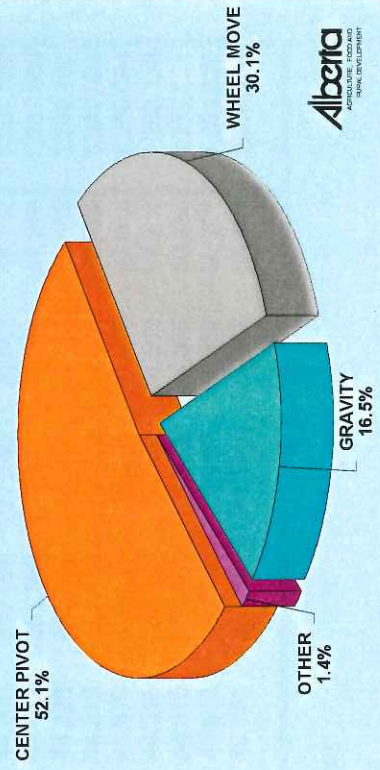
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IRRIGATED CROPS - 1999 Alberta Irrigation Districts



Alberta
AGRICULTURE, FOOD AND
RURAL DEVELOPMENT

IRRIGATION METHOD - 1999 Alberta Irrigation Districts



Alberta
AGRICULTURE, FOOD AND
RURAL DEVELOPMENT

**ASSESSED ACREAGE WITHIN THE THIRTEEN IRRIGATION DISTRICTS
OF SOUTHERN ALBERTA**

YEAR	AID	BRID	EID	LID	LNID	MID	MVID	RCID	RID	SMRID	TID	UID	WID	TOTAL
1970	6,673	23,783	199,729	4,523	89,360	8,506	3,719	2,068	20,847	197,540	57,484	33,353	44,006	691,591
71	6,548	24,071	200,459	4,343	89,883	8,105	3,719	2,068	20,349	199,572	59,172	33,353	43,949	695,591
72	3,131	24,196	202,225	4,305	89,379	9,042	3,719	2,068	20,269	204,051	59,833	33,353	43,899	699,470
73	3,081	26,756	205,481	4,305	98,206	9,182	3,719	2,068	20,647	216,136	61,692	33,353	43,919	728,545
74	3,081	118,741	207,245	4,421	105,958	9,077	3,717	2,068	23,257	237,244	63,823	34,034	44,219	856,885
1975	3,081	131,764	212,982	4,430	108,106	8,871	3,720	2,068	26,920	252,019	62,692	33,358	45,311	895,322
76	3,081	139,665	219,405	4,430	109,629	9,069	3,720	2,069	28,350	262,231	66,423	33,358	52,190	933,620
77	3,081	147,795	224,967	4,430	111,735	9,480	3,720	1,319	31,626	274,301	68,178	33,617	68,549	982,798
78	3,104	153,120	227,202	4,431	111,947	10,737	3,717	1,776	31,570	284,151	68,815	33,651	71,603	1,005,824
79	3,104	150,160	227,254	4,477	111,924	10,797	3,710	1,776	31,524	287,329	69,828	33,546	74,525	1,009,954
1980	3,104	164,889	229,110	4,477	112,562	10,797	3,710	1,776	33,681	293,126	70,368	33,544	76,029	1,037,173
81	3,096	174,641	230,553	4,457	113,845	10,963	3,710	1,776	35,385	299,548	70,819	33,417	79,633	1,061,843
82	3,127	179,613	239,651	4,423	114,919	11,647	3,710	1,716	39,130	301,446	71,529	33,383	81,864	1,086,158
83	2,916	181,174	244,099	4,440	116,745	12,357	3,710	1,776	39,148	313,728	72,623	33,448	81,480	1,107,644
84	3,051	183,529	244,243	4,440	117,869	13,047	3,710	1,776	41,729	319,712	72,971	33,534	82,974	1,122,585
1985	3,399	185,034	246,658	4,460	118,883	14,218	3,710	1,319	44,990	328,063	73,063	33,854	84,245	1,141,896
86	3,444	189,202	247,804	4,460	126,307	14,579	3,690	1,210	44,950	331,493	73,314	34,336	83,924	1,158,713
87	3,444	190,263	249,372	4,479	128,867	14,885	3,690	1,210	44,407	334,285	73,654	34,450	85,405	1,168,411
88	3,435	192,424	252,432	4,709	131,565	15,030	3,690	1,210	44,196	339,091	73,602	34,615	86,198	1,182,197
89	3,500	194,977	256,353	4,729	133,620	15,569	3,700	1,210	44,144	342,451	74,898	34,818	87,242	1,197,211
1990	3,500	199,980	260,523	4,742	135,632	15,099	3,728	1,210	44,044	349,849	74,568	34,769	88,480	1,216,124
91	3,527	201,070	263,889	4,762	137,719	16,665	3,728	1,210	44,305	350,108	77,740	34,687	88,112	1,227,522
92	3,519	202,499	269,462	4,800	139,688	16,391	3,734	1,210	44,279	351,393	78,177	34,868	87,949	1,237,969
93	3,519	204,466	270,008	4,780	138,095	16,775	3,737	1,210	44,229	353,039	78,412	34,772	87,453	1,240,495
94	3,519	205,983	272,024	4,780	141,517	16,785	3,727	1,210	44,219	353,466	78,629	34,438	86,725	1,247,022
1995	3,519	207,652	273,848	4,780	143,608	17,908	3,727	1,210	43,678	356,618	78,676	34,428	86,942	1,256,594
96	3,519	209,560	276,405	4,760	147,241	18,169	3,727	1,210	44,315	358,399	79,069	34,506	87,258	1,268,138
97	3,519	209,686	279,966	4,760	150,843	18,300	3,713	1,210	44,810	360,659	79,788	34,353	86,284	1,277,891
98	3,519	210,690	280,573	4,769	153,365	18,300	3,722	1,210	45,533	360,780	80,455	34,352	86,771	1,284,039
99	3,609	211,152	281,107	4,769	154,886	18,300	3,722	1,210	45,751	367,161	81,984	34,352	88,131	1,296,134

NOTE: BRID increased 94,000 acres in 1974 with the amalgamation of the BRID and the Bow River Project (Federal).

PREPARED BY: ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT, IRRIGATION BRANCH, LETHBRIDGE

**ACRES ACTUALLY IRRIGATED WITHIN THE THIRTEEN IRRIGATION DISTRICTS
OF SOUTHERN ALBERTA**

YEAR	AID	BRID	EID	LID	LNID	MID	MVID	RCID	RID	SMRID	TID	UID	WID	TOTAL	
1911										47,000			500	47,500	
12										76,200			500	76,700	
13										78,200			2,600	78,800	
14			7,806							76,200			8,448	92,454	
1915			7,806							76,200			512	84,518	
16			1,497							71,281			859	73,637	
17			9,605							91,780			3,657	105,042	
18			24,440							102,900			25,191	152,531	
19			43,460							112,569			31,908	187,937	
1920		4,240	60,762							60,893	2,000		4,083	131,978	
21		9,400	88,299							75,550	10,352		33,618	217,219	
22		9,509	93,375							75,558	13,122		49,752	241,316	
23		11,249	42,928		6,963					72,345	3,625		3,074	140,184	
24		9,720	84,200		29,991					71,700	13,051	5,264	24,297	238,223	
1925		13,252	72,994		43,628					81,110	13,472	10,000	5,384	239,840	
26		13,467	74,401		56,395					78,399	14,385	10,026	19,561	266,634	
27		810	7,921		10,012	1,235				20,365	576	41	1,273	42,233	
28		19,373	45,677		33,436	800			6,800	21,153	3,171	2,577	3,892	136,879	
29		29,280	78,610		61,231	4,000			6,634	25,713	10,094	3,102	37,394	256,038	
1930		31,207	89,913		70,007	5,161			7,000	67,004	19,322	5,847	41,570	337,031	
31		29,803	90,724		70,408	3,400	300		9,000	68,089	19,914	12,983	47,593	352,214	
32		26,379	90,651		41,842	4,000	800		10,000	68,000	18,998	11,500	8,680	280,850	
33		22,440	96,019		62,416	4,000	1,168		12,000	70,000	18,854	10,500	40,812	338,209	
34		22,705	101,566		54,200	4,000	1,950		13,000	70,000	18,490	10,000	31,131	327,042	
1935		25,257	143,997		73,022	4,000	3,000		13,000	70,000	19,471	12,000	19,109	382,856	
36		27,170	111,781		62,790	4,000	2,900		13,000	75,274	19,123	18,000	44,614	378,652	
37		30,817	124,645		70,020	4,000	3,500		13,000	72,250	21,296	17,500	50,866	407,894	
38		34,614	133,928		73,297	4,000	3,500		12,000	75,749	20,880	10,000	35,775	403,743	
39		36,874	141,888		56,712	3,700	3,200		12,000	76,492	18,485	10,500	11,647	371,298	
1940		37,906	146,211		72,492	3,700	3,000		13,000	76,639	21,391	10,500	20,134	404,973	
41		35,312	156,501		63,575	3,700	3,400		14,000	76,579	15,103	11,000	20,144	399,314	
42		37,946	166,453		31,102	3,700	3,400		10,000	57,575	14,108	12,000	9,194	345,478	
43		35,143	168,496		67,777	3,500	3,254		12,000	75,707	20,935	12,000	7,666	406,478	
44		37,266	167,094	526	75,927	3,500	3,400		12,000	75,725	21,325	13,000	20,000	429,763	
1945		36,838	167,100	1,000	57,126	3,500	3,300		12,000	75,766	21,218	13,000	20,000	412,848	
46		42,251	166,328	1,300	64,894	3,500	3,000		12,000	76,013	21,222	13,500	19,000	423,008	
47		43,611	168,580	1,300	57,343	3,500	3,500		12,000	110,848	19,141	7,453	20,000	447,276	
48		44,160	172,894	1,500	55,374	3,500	3,700		12,000	76,351	17,720	2,970	12,000	402,169	
49		46,975	177,084	1,500	72,807	3,500	3,300		12,000	70,117	21,533	19,228	26,345	454,389	
1950		36,508	180,000	2,500	78,721	3,500	3,300		12,000	77,674	21,864	9,758	23,100	448,925	
51		24,283	183,316	941	21,979	3,500	100		12,000	83,882	8,239	1,869	1,000	341,409	
52		40,416	149,269	941	35,314	3,500	3,350		12,000	86,297	21,751	6,072	700	359,130	
53		40,000	114,776	980	37,409	5,000	3,392	1,100	13,000	76,624	22,503	8,894	500	324,178	
54		40,000	187,612	254	58,745	7,000	3,392	2,100	16,000	102,266	27,224	10,333	1,500	456,428	
1955		40,000	190,976	423	31,753	7,000	3,132	1,500	16,000	81,100	20,530	10,115	5,000	407,529	
56		109,400	191,568	852	31,588	7,000	2,773	1,800	15,000	98,647	21,079	11,082	6,000	497,219	
57		55,374	189,792	2,779	51,809	7,000	2,733	1,685	16,000	116,713	21,579	15,886	7,000	488,350	
58		56,995	188,928	1,542	51,916	7,000	2,760	1,500	15,500	123,440	22,854	11,032	9,870	493,337	
59	380	54,514	188,721	1,542	46,459	7,000	2,789	405	15,800	155,155	25,426	17,761	9,930	525,862	
1960		440	171,392	189,761	1,542	71,006	5,000	2,789	200	15,200	179,477	29,448	16,536	594,791	
61	1,800	80,603	189,421	1,542	73,637	6,000	2,760	200	18,300	157,300	30,747	23,095	23,000	608,405	
62	2,177	83,259	190,866	4,187	73,317	7,000	2,760	200	18,500	155,500	36,029	28,465	30,000	632,280	
63	2,315	87,267	192,324	4,511	63,000	7,250	2,789	200	18,500	170,000	33,902	27,012	25,000	634,070	
64	2,523	86,034	193,381	4,511	70,575	7,500	2,789	200	18,000	170,000	39,015	19,376	24,000	637,904	
1965		2,523	44,507	194,824	4,511	22,778	3,000	2,789	1,500	15,000	165,000	26,005	9,805	494,992	
66		2,523	40,423	195,905	4,523	19,196	4,000	2,789	1,050	16,000	165,000	25,904	12,725	3,100	493,138
67		2,523	71,936	196,549	4,523	47,962	5,000	2,789	1,250	17,000	160,000	38,235	11,866	572,503	
68		2,523	82,876	198,352	4,523	56,993	4,400	2,789	900	15,200	154,336	45,420	10,109	10,000	589,421
69		2,523	79,980	198,248	4,523	35,902	4,500	2,789	900	15,000	124,879	45,980	10,228	13,500	538,952
1970		2,523	77,580	199,729	4,523	49,783	5,000	2,789	1,000	15,000	134,882	50,094	15,019	15,000	573,022
71		2,424	81,018	196,219	4,343	60,207	5,500	2,789	1,100	15,000	149,444	52,165	14,417	16,000	570,646
72		2,400	82,928	175,915	4,305	58,817	5,750	2,000	675	15,000	147,884	52,470	11,061	17,000	576,205
73		2,400	98,185	183,279	4,305	80,995	5,600	3,720	800	15,000	176,120	58,826	22,233	19,000	670,463
74		2,424	108,021	188,657	4,305	90,085	6,000	3,737	700	18,000	190,847	60,981	11,710	22,000	707,467
1975		2,400	98,332	179,095	4,430	70,859	6,000	3,000	600	21,000	171,883	44,606	4,952	34,036	641,693
76		2,400	125,380	201,438	4,600	96,661	9,070	2,910	700	22,680	213,085	59,116	13,355	40,000	791,395
77		2,500	131,492	208,785	4,430	97,829	7,000	2,000	350	30,000	237,680	64,115	15,000	48,525	849,686
78		2,400	127,236	204,192	4,430	93,582	6,000	2,775	578	31,060	198,755	56,940	8,671	33,329	769,928
79		2,500	133,517	213,837	4,476	100,487	8,000	2,900	623	31,264	249,232	62,635	13,000	46,570	869,041
1980		2,500	134,493	212,524	4,476	95,979	8,000	2,900	600	19,137	251,914	63,202	12,607	43,986	852,318
81		2,500	140,300	216,200	4,476	90,552	8,650	2,763	0	19,462	259,564	66,206	15,064	28,368	854,146
82		1,200	152,144	216,620	3,000	104,533	8,500	3,154	650	25,169	268,916	67,305	10,054	41,996	903,241
83		1,200	168,461	231,125	3,000	108,141	9,000	3,154	650	29,055	288,969	68,474	12,734	46,638	969,601
84		1,200	173,334	238,000	3,000	102,301	10,200	3,154	600	34,728	300,071	69,847	12,313	46,638	995,386
1985		2,933	174,087	244,763	3,664	114,635	13,000	3,184	700	36,286	305,560	70,133	12,620	49,666	1,031,231
86		2,933	174,903	246,916	3,600	113,683	13,000	3,184	700	36,008	307,875	69,928	13,146	48,000	1,033,856
87		2,200	178,482	245,514	4,076	119,582	12,400	3,321	700	36,008	305,964	69,413	12,526	46,984	1,037,150
88		2,500	173,400	241,494	3,900	124,555	13,438	3,100	500	36,496	316,223	68,581	14,536	52,950	1,052,671
89		1,962	181,106	249,623	3,900	127,330	13,555	2,000	0	35,766	323,400	70,278	11,893	52,153	1,072,766
1990		2,446	183,147	253,261	4,500	127,439	14,000	2,500	0	36,911	338,274	73,329	11,523	49,000	1,096,330
91		2,473	182,932	246,083	4,200	130,989	15,000	2,880	650	32,647	319,745	73,169	11,548	48,300	1,070,816
92		2,519	182,543	256,342	4,200	131,305	15,240	2,880	0	36,788	324,477	74,229	15,499	43,889	1,089,911
93	0	184,463	259,778	0	67,565	0	0	0	0	262,718	66,158	0	40,007		

IRRIGATION DISTRICTS ANNUAL WATER RATES
(\$ per assessed acre per year)

YEAR	AID	AID pipelines	BRID	EID	LID	LID pipelines	LNID	MID	MVID	RCID	RID	SMRID	TID	UID	WID
1982	\$2.50		\$6.50	\$6.50	\$5.00		\$12.00	\$6.00	\$3.00	\$3.00	\$6.25	\$12.00	\$10.75	\$3.25	\$6.30
83	\$5.00		\$9.00	\$6.75	\$8.00		\$12.50	\$6.00	\$5.20	\$3.00	\$6.50	\$12.00	\$11.00	\$3.25	\$6.50
84	\$6.00		\$10.00	\$7.00	\$8.00		\$12.50	\$6.00	\$5.20	\$3.00	\$6.50	\$12.00	\$11.00	\$3.25	\$6.75
1985	\$6.00		\$10.00	\$7.00	\$7.50		\$12.50	\$6.00	\$5.20	\$4.00	\$6.50	\$12.00	\$11.00	\$3.25	\$7.25
86	\$6.00		\$10.00	\$7.25	\$7.50		\$12.50	\$6.00	\$5.20	\$6.00	\$6.50	\$13.00	\$11.00	\$3.25	\$7.47
87	\$6.00		\$10.00	\$7.50	\$7.50		\$12.50+\$.10 per PSI*	\$6.00	\$5.20	\$6.00	\$6.50	\$13.00	\$11.00	\$3.25	\$7.47
88	\$7.00	\$9.00*	\$10.00	\$7.50	\$8.00		\$12.50+\$.10 per PSI*	\$6.00	\$5.20	\$6.00	\$6.50	\$13.00	\$12.00	\$3.25	\$7.70
89	\$7.00	\$9.00*	\$10.00	\$8.00	\$8.00		\$13.50+\$.10 per PSI*	\$6.00	\$6.20	\$6.00	\$6.50	\$13.25	\$12.00	\$3.50	\$8.00
1990	\$8.00	\$10.00*	\$10.00	\$8.50	\$8.00		\$13.50+\$.10 per PSI*	\$6.00	\$6.20	\$6.00	\$6.50	\$14.00	\$12.00	\$3.75	\$11.00
91	\$8.00	\$10.00*	\$10.00	\$8.50	\$7.00		\$13.50+\$.10 per PSI*	\$6.00+\$.10 per PSI*	\$6.20	\$6.00	\$6.50	\$14.00	\$12.00	\$4.00	\$13.00
92	\$8.00	\$10.00*	\$11.00	\$8.50	\$7.00		\$14.00+\$.12 per PSI*	\$6.00+\$.10 per PSI*	\$6.20	\$6.00	\$6.50	\$14.00	\$12.00	\$4.25	\$13.50
93	\$8.00	\$10.00*	\$11.00	\$8.50	\$7.00		\$14.00+\$.12 per PSI*	\$6.00+\$.10 per PSI*	\$6.20	\$6.00	\$6.50	\$14.25	\$12.00	\$4.50	\$13.50+\$.10 per PSI*
94	\$8.00	\$10.00*	\$12.00	\$8.50	\$7.00		\$14.00+\$.12 per PSI*	\$6.50+\$.10 per PSI*	\$6.20	\$6.00	\$7.00	\$15.25	\$12.00	\$4.50	\$14.75+\$.15 per PSI*
1995	\$8.00	\$10.00*	\$13.00	\$8.50	\$8.00		\$14.00+\$.12 per PSI*	\$7.00+\$.10 per PSI*	\$8.00	\$8.50	\$7.00	\$16.15	\$12.00	\$4.50	\$14.75+\$.10 per PSI*
96	\$8.00	\$10.00*	\$13.00	\$8.50	\$8.00		\$14.00+\$.12 per PSI*	\$7.00+\$.10 per PSI*	\$8.00	\$8.50	\$7.50	\$16.15	\$12.00	\$6.50	\$15.25+\$.12 per PSI*
97	\$8.00	\$10.00*	\$13.00	\$7.50	\$8.00		\$14.00+\$.12 per PSI*	\$7.00+\$.10 per PSI*	\$8.00	\$8.50	\$7.50	\$16.15	\$12.00	\$6.75	\$15.25+\$.12 per PSI*
98	\$8.00	\$10.00*	\$13.50	\$7.50	\$8.00		\$14.00+\$.12 per PSI*	\$7.50+\$.10 per PSI*	\$8.00	\$8.50	\$8.50	\$16.65	\$12.00	\$7.00	\$16.25+\$.13 per PSI*
99	\$8.00	\$10.00*	\$14.50	\$7.50	\$8.00		\$14.00+\$.12 per PSI*	\$7.50+\$.10 per PSI*	\$8.00	\$8.50	\$8.50	\$17.00	\$12.00	\$7.25	\$16.25+\$.13 per PSI*

* The districts charge an additional charge for acres serviced by a pressure pipeline.

PREPARED BY: ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT, IRRIGATION BRANCH, LETHBRIDGE

SOUTH SASKATCHEWAN RIVER BASIN ANNUAL IRRIGATION DIVERSIONS

DISTRICT	OLDMAN RIVER BASIN										BOW RIVER BASIN				TOTALS
	AID	LID	LNID	MD	MVD	RCID	RID	SMRID	TID	UID	BRID	EID	WID		
WATER SOURCE	diversion from Belly River	diversion from Belly River	diversion from Oldman River	diversion from SMRID main canal	diversion from Belly River	diversion from Gros Ventre Ck. and Ross Ck.	diversion from SMRID main canal	diversion from Belly, Waterton and St.Mary Rivers	diversion from SMRID main canal	diversion from Belly and Waterton Rivers	diversion from Bow River	diversion from Bow River	diversion from Bow River		
EXPANSION LIMITS (acres)	3,550	4,770	167,000	18,300	3,700	1,200	46,500	372,000	82,200	34,000	210,000	286,000	95,000	1,324,200	
CURRENT WATER LICENCES (acre ft.)	9,000	12,000	317,000	34,000	8,000	3,000	81,000	722,000	158,000	68,000	450,000	762,000	160,400	2,784,400	
YEAR	VOLUME OF WATER DIVERTED (acre ft.)														
1976			154,844	7,600		1,981	38,414	339,188	86,330	14,998	309,000	565,100	153,222	1,668,677	
77			169,436	14,300		2	48,317	423,509	122,209	31,050	304,600	572,100	137,008	1,822,531	
78			85,934	3,900		2,489	12,848	202,066	10,620	10,620	204,268	387,100	102,858	1,047,487	
79			138,630	9,500		5,561	24,521	303,097	84,736	23,517	265,539	542,846	138,630	1,546,577	
80			134,576	8,100		0	19,944	340,254	94,688	17,754	287,892	548,686	136,198	1,588,262	
81			132,955	5,910		264	22,162	379,075	108,427	12,242	307,452	577,969	108,630	1,655,086	
82			142,688	9,404		3,551	27,687	332,337	91,988	19,133	281,000	481,258	129,712	1,518,773	
83			150,790	9,800		1,354	14,955	361,537	97,674	24,078	313,897	580,299	146,737	1,701,121	
84			177,543	14,106		67	17,544	492,674	101,643	25,093	322,335	657,640	162,140	1,970,785	
1985	5,020	8,500	184,029	13,457	4,250	3,827	17,302	425,583	95,751	24,193	337,409	655,188	158,897	1,943,406	
86	4,074	6,858	182,408	13,515	3,212	1,832	22,045	406,536	101,597	20,106	309,590	630,592	131,333	1,883,688	
87	4,392	5,644	181,597	11,761	3,180	1,321	40,559	426,434	98,621	19,958	275,841	639,928	129,712	1,839,548	
88	6,910	9,398	222,943	23,414	6,066	55,411	563,621	563,621	121,668	30,462	389,186	730,274	171,868	2,331,477	
89	4,613	3,517	196,622	10,795	2,750	122	34,540	504,255	78,396	18,372	301,442	605,148	122,416	1,884,988	
1990	3,754	5,328	192,136	16,196	3,290	298	32,000	467,244	98,572	16,133	334,304	688,178	128,091	1,986,524	
91	3,556	4,468	184,840	16,521	2,662	1,775	30,702	391,634	94,956	17,003	264,340	629,872	147,547	1,789,876	
92	2,170	11,216	137,008	12,261	4,118	0	32,070	441,745	101,122	18,628	338,878	625,650	135,387	1,858,253	
93	2,126	1,824	137,008	12,261	4,118	0	32,070	441,745	101,122	18,628	338,878	625,650	135,387	1,858,253	
94	4,110	4,319	180,000	8,073	3,325	3,300	13,574	218,975	59,278	8,107	210,340	423,951	114,309	1,123,339	
1995	1,802	1,548	110,200	2,180	861	758	28,328	415,162	103,028	6,827	364,126	559,476	132,104	1,819,636	
96	4,035	4,882	209,600	15,339	2,660	208	17,600	385,290	82,395	7,710	244,160	602,098	116,254	1,572,306	
97	6,051	5,193	193,574	7,337	1,529	1,085	45,527	498,483	127,438	19,832	331,342	615,478	117,065	1,992,974	
98	4,874	5,331	160,800	13,514	2,323	1,726	38,043	466,000	115,582	20,364	343,428	572,151	116,740	1,887,752	
99	3,485	11,415	179,987	20,800	2,499	1,700	42,960	411,532	105,208	20,900	298,524	426,788	88,410	1,614,208	
Percent of Licence	38.7%	95.1%	56.8%	61.2%	31.2%	56.7%	53.0%	57.0%	66.6%	30.7%	66.3%	56.0%	55.1%	58.0%	
Avg. Volume	4,065	5,963	161,121	11,407	2,914	1,468	29,954	400,847	97,212	18,832	301,685	583,620	131,989	1,746,225	

NOTES: Data is obtained from Water Survey of Canada (WSC), Alberta Environmental Protection (AEP) and Irrigation Districts' annual report

- MID has another turnout which diverts water from the SMRID main canal. There is no data recorded at this site.

- RCID has a second supply from Ross Creek, but no data has been consistently recorded

PREPARED BY: ALBERTA AGRICULTURE, FOOD AND RURAL DEVELOPMENT, IRRIGATION BRANCH, LETHBRIDGE

PROCESSED VEGETABLES IN SOUTHERN ALBERTA
(1999)

CROP	SEEDED (acres)	HARVESTED (acres)	APPROXIMATE VALUE OF PROCESSED VEGETABLES
CARROTS dicer	65	65	\$100,000
CORN *	2,442	2,129	\$1,200,000
CORN **	767	342	\$250,000
PEAS	2,646	2,481	\$2,000,000
Approximate Value			\$3,550,000.00

- Notes:
- data is obtained from the Alberta Vegetable Growers (Processing)
 - processing is defined as canned or frozen vegetables for human consumption
 - * corn is harvested in field with the cob
 - ** corn is harvested in field by cutting the kernels of the cob
 - some slicer and dicer carrot statistics had not been received at the time of pub therefor have not been included in the above table

IRRIGATION DISTRICT RESERVOIRS

Oldman River Basin			
Location	Reservoir Name	Useable Storage (acre-feet)	Sub-Total (acre-feet)
SMRID	Chin Reservoir	154,320	314,645
	Cross Coulee Reservoir	2,100	
	Forty Mile Reservoir	70,000	
	Murray Reservoir	24,830	
	North East Reservoir	1,650	
	Raymond Reservoir	1,314	
	Sauder Reservoir	30,640	
	Seven Persons Reservoir	1,065	
	Sherburne Reservoir	9,826	
	Stafford Reservoir	18,900	
Blood Tribe Irrigation Project	Mokowan Ridge Reservoir	4,864	4,864

IRRIGATION DISTRICT RESERVOIRS

Oldman River Basin			
Location	Reservoir Name	Useable Storage (acre-feet)	Sub-Total (acre-feet)
Waterton - St. Mary's Headworks	Waterton Reservoir	92,728	511,741
	St. Mary Reservoir	299,386	
	Jensen Reservoir	15,400	
	Milk River Ridge Reservoir	104,227	
AID, LID, MVID	Payne Lake	7,050	7,050
LNID Headworks	Oldman Reservoir *	400,000	477,500
	Keho Lake	77,500	
LNID	Park Lake	600	1,993
	Picture Butte Reservoir	1,300	
	Vandenburg	93	
RCID	Cavan Lake	4,000	4,000
RID	Corner Lake	400	1,200
	Craddock Reservoir	500	
	Factory Lake	300	
TID	Fincastle Reservoir	2,530	15,180
	Horsefly Reservoir	7,450	
	Taber Lake	5,200	
UID	Cochrane Lake	2,430	2,430

* provincially owned multi-purpose reservoir

IRRIGATION DISTRICT RESERVOIRS

Bow River Basin			
Location	Reservoir Name	Useable Storage (acre-feet)	Sub-Total (acre-feet)
BRID Headgates	Little Bow Reservoir	17,080	363,015
	McGregor Reservoir	261,135	
	Traverse Reservoir	84,800	
BRID	Badger Reservoir	43,500	65,434
	H Reservoir	1,848	
	Lost Lake	4,086	
	Scope Reservoir	16,000	
EID	Cowoki Reservoir	16,000	499,785
	Crawling Valley Reservoir	105,780	
	J Reservoir	500	
	Kitsim Reservoir	21,500	
	Lake Newell	259,600	
	One Tree Reservoir	1,926	
	Rock Lake Reservoir	7,500	
	Rolling Hills Reservoir	14,200	
	Snake Lake Reservoir	14,779	
	Tilley "A" Reservoir	27,000	
Tilley "B" Reservoir	31,000		
WID	Chestermere Lake	4,174	10,574
	Langdon Reservoir	6,400	

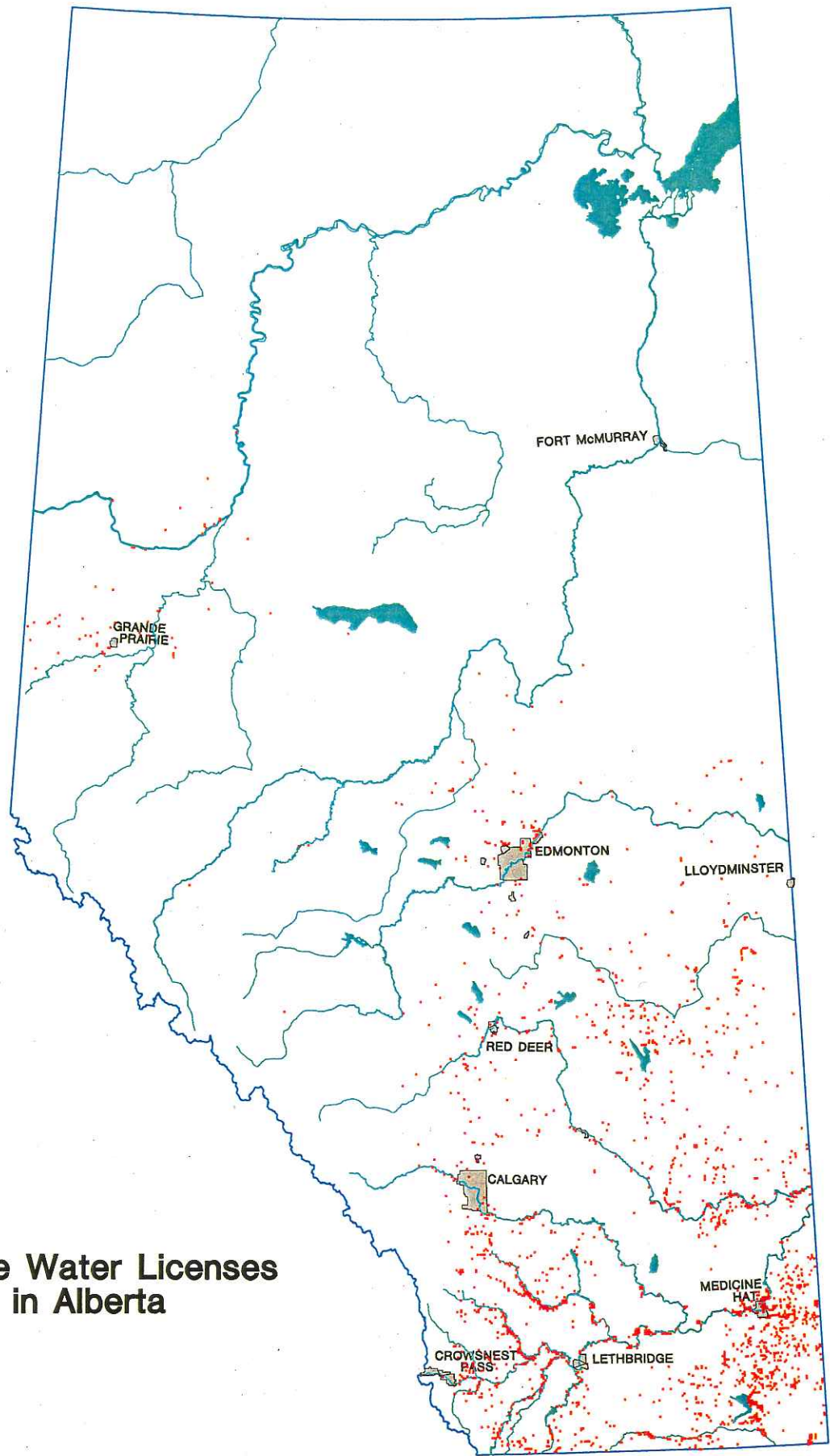
Total Storage = 2,279,411 acre-feet

PRIVATE WATER LICENCES FOR IRRIGATION IN ALBERTA
(FEBRUARY 1999)

There are more than 2500 individual irrigation projects, other than the 13 irrigation districts, irrigating approximately 278,000 acres of farmland in Alberta. These projects vary in size from less than 5 acres to over several thousand acres. Each of these projects is licenced to an individual or a group of producers. The feasibility of these projects is overseen by Alberta Agriculture and the licencing is regulated by Alberta Environmental Protection.

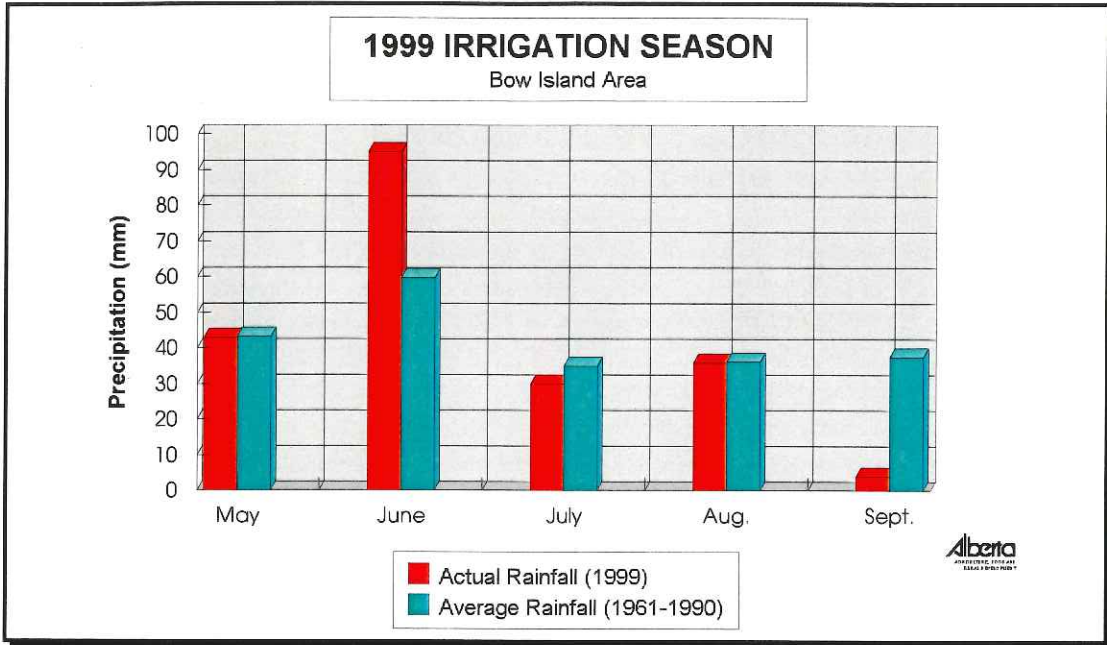
RIVER BASIN	Total Acres Irrigated	No. of Licences 1 to 100 ac.	No. of Licences 101 to 300 ac.	No. of Licences over 300 ac.
ATHABASCA RIVER	2,463	44	7	1
MILK RIVER	18,888	99	45	14
NORTH SASKATCHEWAN RIVER	27,410	329	59	14
PEACE RIVER	3,471	76	8	0
SOUTH SASKATCHEWAN RIVER *				
- Bow River	27,546	141	66	16
- Little Bow River	16,922	112	38	11
- Lower Oldman River	12,135	15	20	10
- Red Deer River	39,597	417	85	17
- South Saskatchewan River	51,169	531	84	25
- Upper Oldman River	6,116	60	18	3
- Waterton / Belly / St. Mary Rivers	51,169	134	66	19
- Willow Creek	20,940	118	59	10
TOTAL	277,826	2,076	555	140

- Notes:
- Upper Oldman Reach is defined as upstream of the Belly River confluence
 - Lower Oldman reach is defined as downstream of the Belly River confluence
 - 25,000 acres from the Waterton / Belly / St. Mary Rivers category is for the Blood Tribe Irrigation Project
 - data is obtained from Alberta Environmental Protection
 - does not include irrigation licences issued to irrigation districts in southern Alberta



**Private Water Licenses
in Alberta**

PRECIPITATION IN SOUTHERN ALBERTA



TOTAL RAINFALL
(from May 1/99 to Sept. 30/99)

AREA	RAINFALL (1997) (mm)	RAINFALL (1998) (mm)	RAINFALL (1999) (mm)	AVERAGE RAINFALL (1961-1990) (mm)
Lethbridge	268.1	309.1	209.0	373.3
Brooks	141.0	175.8	312.2	217.9
Bow Island	130.0	194.6	208.0	212.0

PRECIPITATION IN SOUTHERN ALBERTA

