

Profile of Agriculture in the Northern Agricultural Districts

**Prepared for
PIRSA Rural Solutions**

**as a contribution to the project;
“Facilitating the Development of the Northern Agricultural Districts
Rural Plan”**

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1. Background

For the purposes of this analysis the Northern Agricultural Districts (NAD) is defined by the following local government areas (LGAs); Wakefield District Council, Port Pirie City and Districts Municipality, Northern Areas District Council and Mount Remarkable District Council. The component Statistical Local Areas of these LGAs, prior to 1997/98, are outlined in Table 1.

Table1 Concordance between Statistical Local Areas for the Northern Agricultural Districts Before and After 1997/98 Local Government Amalgamations

Post 1997/98	Pre 1997/98
Wakefield DC	Blyth-Snowtown DC Wakefield Plains DC
Northern Areas DC	Jamestown DC Rocky River DC Spalding DC
Port Pirie City and Districts Municipality (City and Balance)	Port Pirie City Pirie DC Crystal Brook-Redhill DC
Mt Remarkable DC	Mt Remarkable DC

Data are presented in this overview for the Northern Agricultural Districts as a whole and for each of the component LGAs individually. These data include;

- gross value of agricultural production by commodity for the latest year available, 1997/98 (Tables 2 and 3 and Charts 1 to 5)
- gross value of agricultural production by commodity and LGA (Table 3 and Charts 6 to 10)
- gross value of agricultural production time series for the period 1993/94 to 1996/97, Tables 4 to 8 (by commodity and LGA)
- agricultural production data for the period 1987/88 to 1997/98 for the NAD and component LGAs (Tables 9 to 13 and Charts 12 to 50)

It is important to note that a change in the definition of farm establishments included in the ABS agricultural census is reflected in the following data. Specifically, the minimum estimated value of agricultural operations for farms included in the census was raised from \$20,000 to \$22,500 in 1991/92 and decreased to \$5,000 in 1993/94. Further, ABS data for 1997/98 were obtained from a sample of the total farm population and are subject to sampling variability. Data for the previous years were obtained from a census of the total farm population.

2. An Overview of Agricultural Production in the Northern Agricultural Districts

2.1.1 Gross value of agricultural production by commodity

A summary of the gross value of agricultural production by commodity in the NAD in 1997/98 is provided in Table 2 and Chart 1

Table 2 Gross Value of Agricultural Production, Northern Agricultural Districts, 1997/98^{a,b,c}

	\$'000	Per Cent of Total
Wheat for grain	79,536	33.7%
Oats for grain	1,435	0.6%
Barley for grain	53,881	22.8%
Triticale for grain	2,612	1.1%
Cereals for grain	137,463	58.2%
White or Yellow Lupins for grain	2,021	0.9%
Field peas for grain	12,073	5.1%
Chick peas	2,095	0.9%
Vetches for seed	663	0.3%
Tick, Horse and Faba beans	2,514	1.1%
Legumes for grain	19,865	8.4%
Rapeseed/Canola	5,540	2.3%
Oilseeds	5,750	2.4%
Cereals cut for hay	5,849	2.5%
Non cereal crops cut for hay	362	0.2%
Pasture seed	1,915	0.8%
Total Vegetables	200	0.1%
Total value of fruit	593	0.3%
Grapes	400	0.2%
Sheep and lambs slaughtered	15,055	6.4%
Cattle and calves slaughtered	3,478	1.5%
Pigs slaughtered	np	-
Poultry slaughtered	9,612	4.1%
Total livestock slaughterings	36,002	15.2%
Wool	19,532	8.3%
Milk	2,419	1.0%
Eggs for human consumption	2,743	1.2%
Total livestock products	25,211	10.7%
Other agriculture	11,821	5.0%
Total value of agriculture	236,350	100.0%

^aABS data for 1997/98 were obtained from a sample of the total farm population and are subject to sampling variability. Data for previous years were obtained from a census of the total farm population.

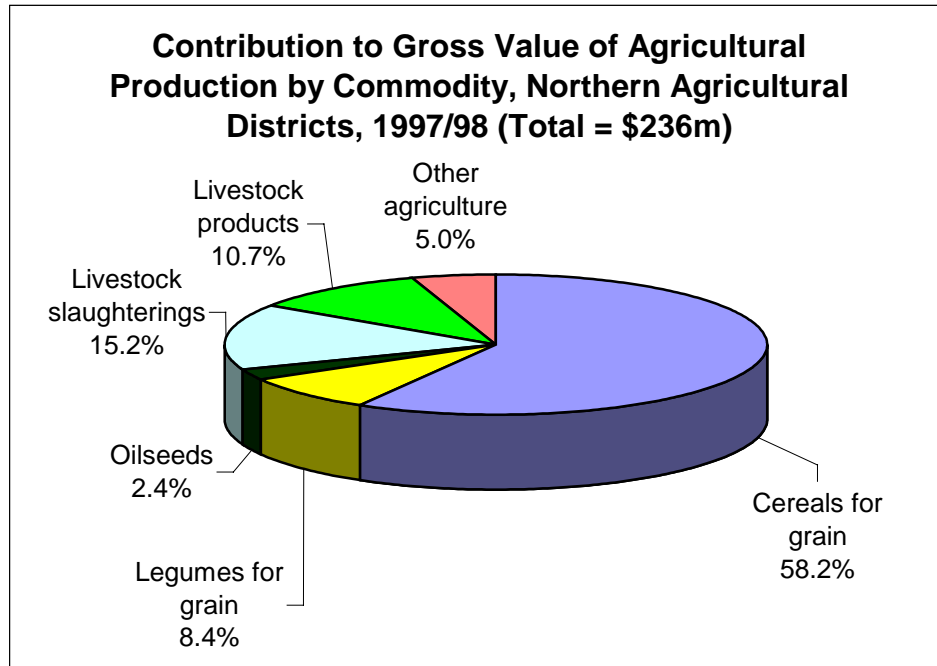
^bThese estimates include transport and marketing margins, they are not farm gate values.

^cABS data on the value of pig slaughterings is confidential for the NAD in 1997/98.

Source: ABS AgStats.

In 1997/98 cereal grains in total contributed almost 60 per cent of the total agricultural gross value of production of the NAD. Wheat alone contributed a third of the total. Other major contributors were barley (23 per cent), wool (8 per cent), field peas (5 per cent) and sheep and lamb slaughterings (6 per cent).

Chart 1



Source: ABS AgStats.

2.1.2 Gross value of agricultural production by commodity and local government area

A summary of the gross value of agricultural production by commodity and local government area in the NAD in 1997/98 is provided in Table 3 and Charts 2 to 9.

Table 3 Gross Value of Agricultural Production, Northern Agricultural Districts and Component Local Government Areas, 1997/98^{a,b,c}

	Northern Agricultural Districts \$'000	Wakefield (DC) \$'000	Port Pirie (M) \$'000	Mount Remarkable (DC) \$'000	Northern Areas(DC) \$'000
Wheat for grain	79,536	43,593	12,474	4,514	18,955
Oats for grain	1,435	720	147	103	465
Barley for grain	53,881	26,797	9,241	4,346	13,497
Triticale for grain	2,612	1,636	243	81	652
Cereals for grain	137,463	72,747	22,104	9,044	33,569
White or Yellow Lupins for grain	2,021	590	242	144	1,044
Field peas for grain	12,073	7,391	1,992	489	2,201
Chick peas	2,095	1,509	424	0	161
Vetches for seed	663	391	111	52	109
Tick, Horse and Faba beans	2,514	1,055	668	59	731
Legumes for grain	19,865	11,040	3,646	758	4,421
Rapeseed/Canola	5,540	2,786	307	115	2,332
Oilseeds	5,750	2,922	316	122	2,389
Cereals cut for hay	5,849	3,608	549	598	1,094
Non cereal crops cut for hay	362	138	125	36	64
Pasture seed	1,915	972	62	64	817
Total Vegetables	200	0	72	128	0
Total value of fruit	593	146	36	410	0
Grapes	400	146	36	217	0
Sheep and lambs slaughtered	15,055	4,248	2,271	3,458	5,078
Cattle and calves slaughtered	3,478	484	1,770	669	556
Pigs slaughtered	np	np	np	np	np
Poultry slaughtered	9,612	9,456	111	1	43
Total livestock slaughterings	36,002	18,340	5,113	6,492	6,057
Wool	19,532	5,110	2,376	5,127	6,919
Milk	2,419	1,484	0	417	517
Eggs for human consumption	2,743	73	2,194	3	474
Total livestock products	25,211	6,667	4,605	5,663	8,276
Other agriculture	11,821	5,269	1,580	2,573	2,399
Total value of agriculture	236,350	117,603	37,031	23,605	58,110

^a. ABS data for 1997/98 were obtained from a sample of the total farm population and are subject to sampling variability. Data for previous years were obtained from a census of the total farm population.

^b. These estimates include transport and marketing margins, they are not farm gate values.

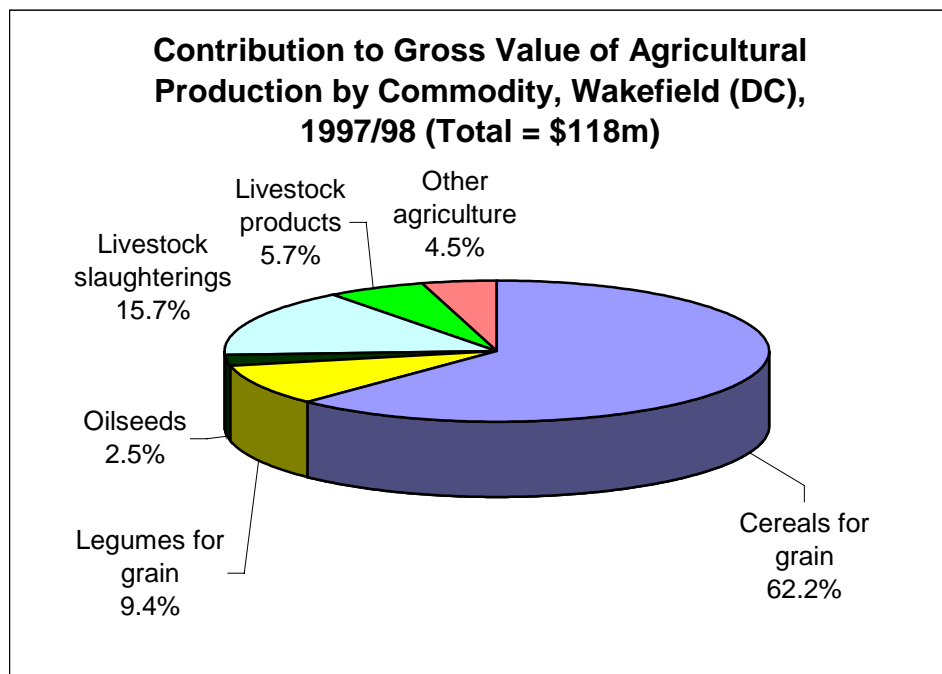
^c. ABS data on the value of pig slaughterings is confidential for the NAD in 1997/98.

Source: ABS AgStats.

Charts 2 to 5: Cereal grains were the major contributor to agricultural GVP in 1997/98 in Wakefield DC (62 per cent of the total), Port Pirie M (59 per cent) and the Northern Areas DC (59 per cent). Indeed, these three LGAs exhibited a very similar distribution of agricultural GVP in that year. For the Mount Remarkable DC, however, agricultural GVP was more evenly distributed between cereal grains (37 per cent), livestock slaughtering (26 per cent) and livestock products (23 per cent).

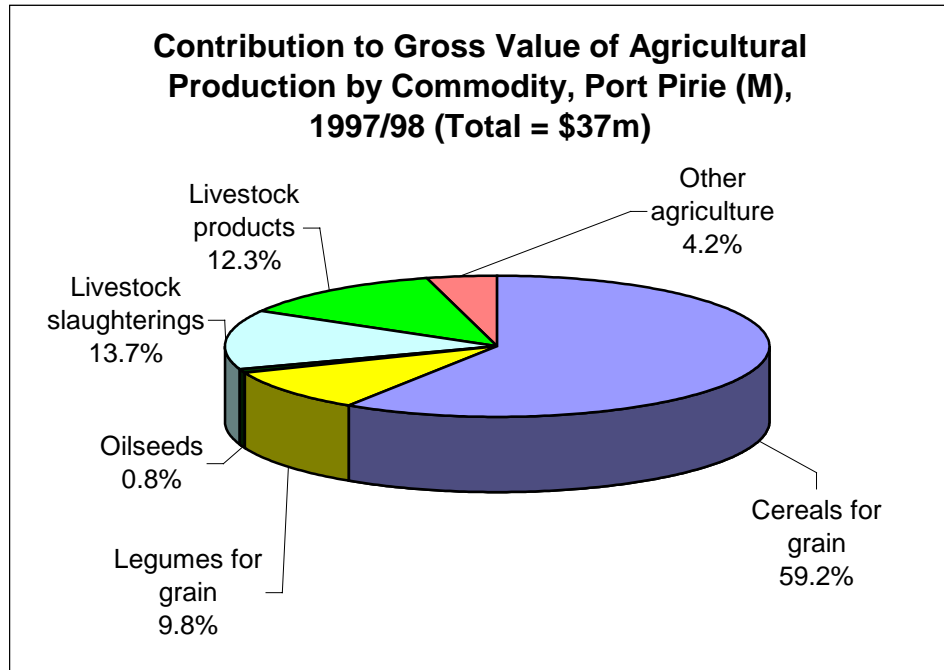
Charts 6 to 9: Wakefield DC was the dominant contributor to agricultural GVP in the NAD in 1997/98. It contributed approximately half the total and half of each of the major commodity groups, except livestock products, which were more evenly distributed between the four LGAs.

Chart 2



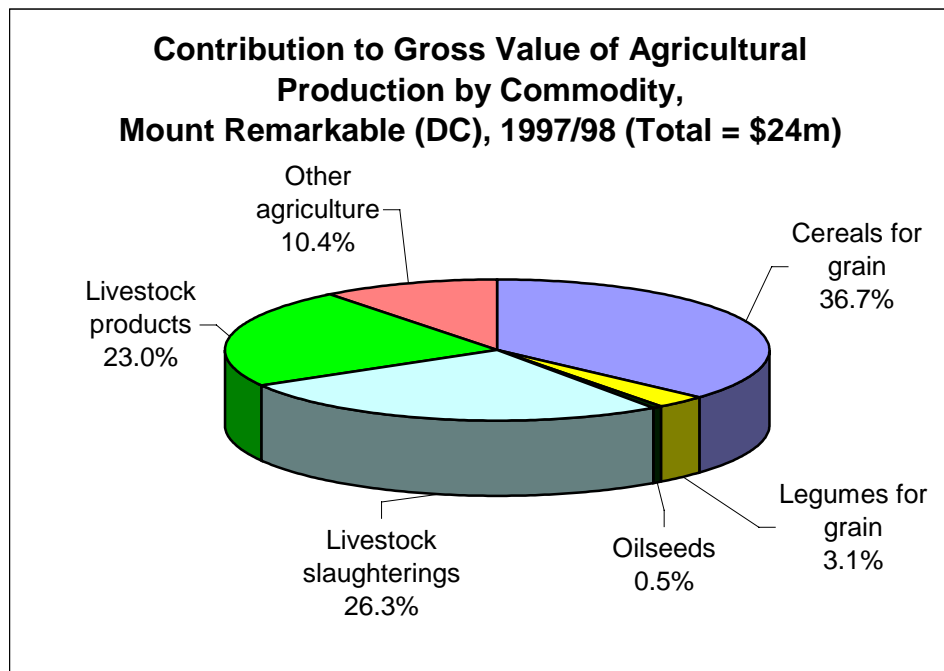
Source: ABS AgStats.

Chart 3



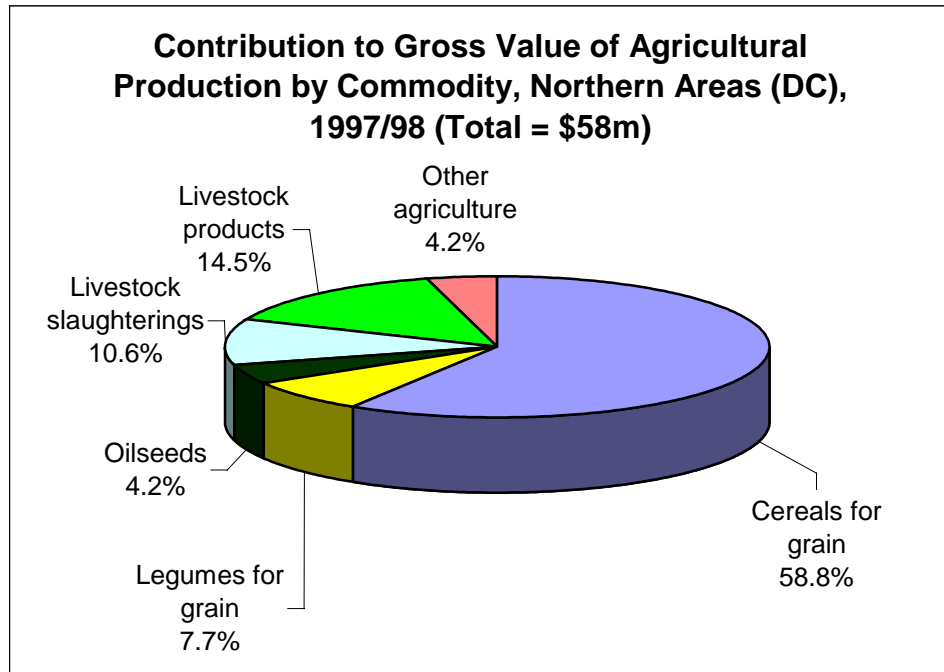
Source: ABS AgStats.

Chart 4



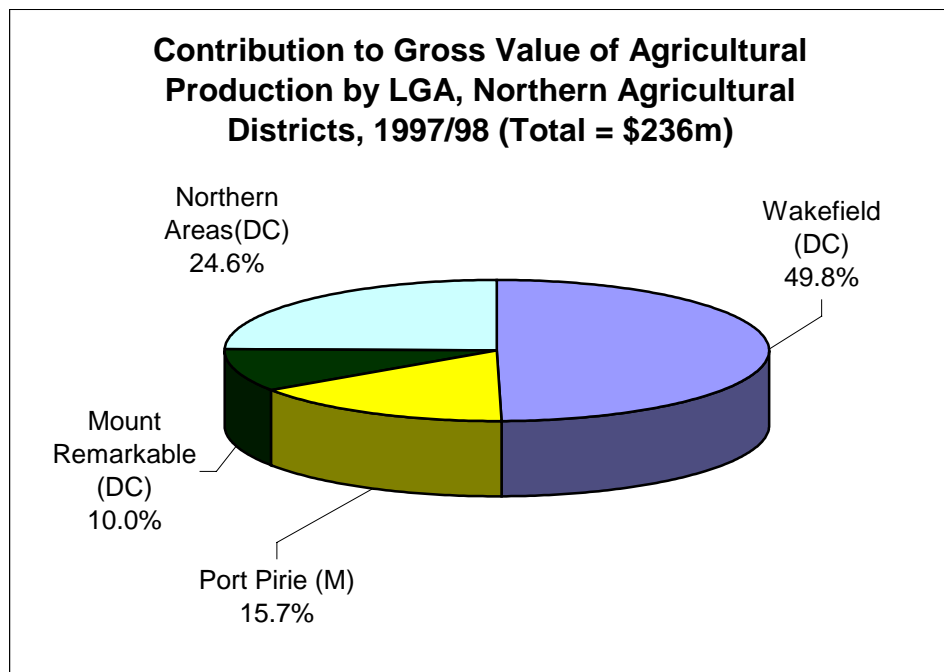
Source: ABS AgStats.

Chart 5



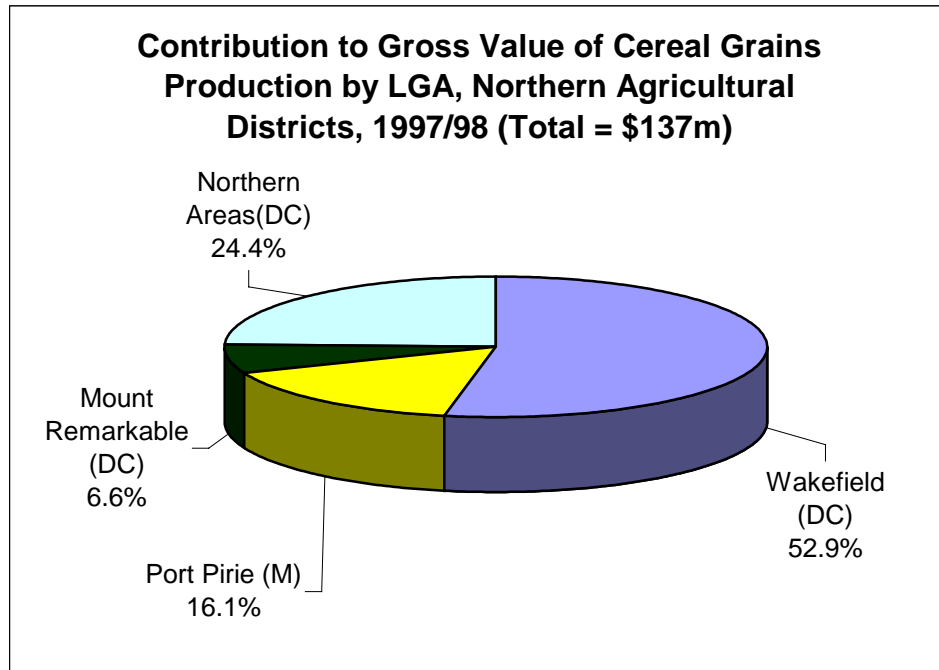
Source: ABS AgStats.

Chart 6



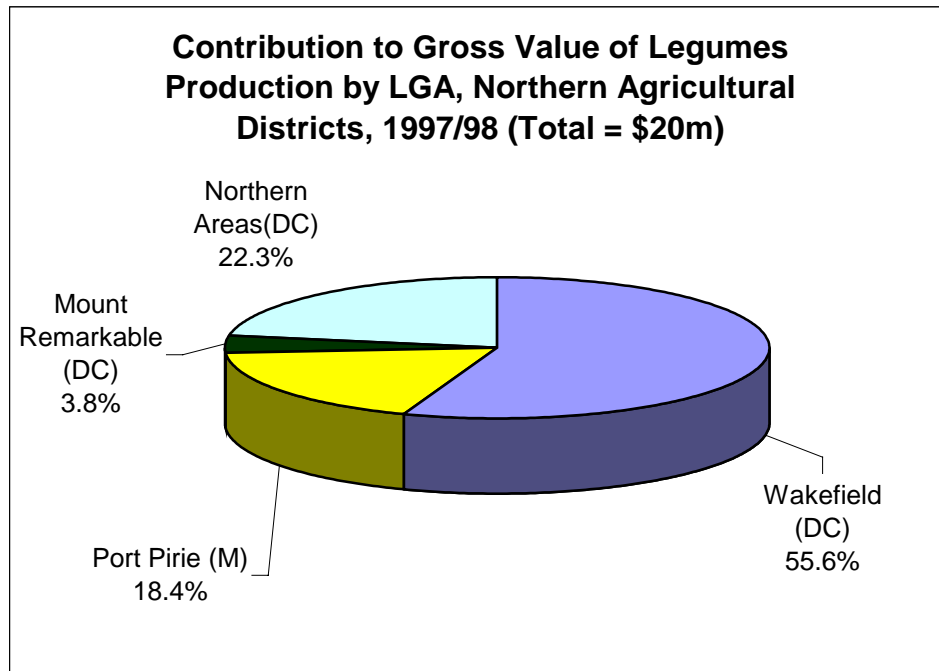
Source: ABS AgStats.

Chart 7



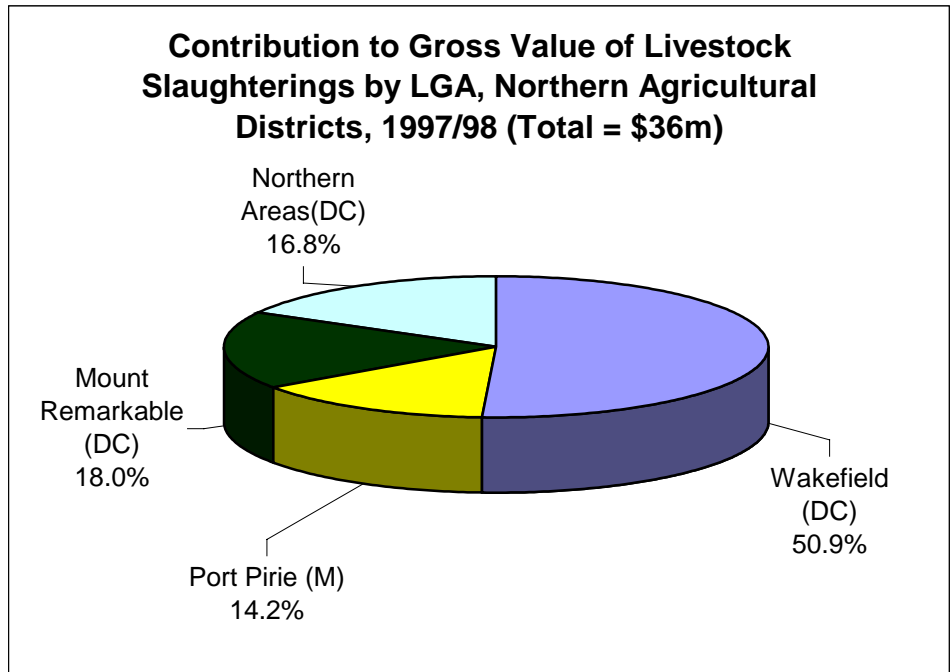
Source: ABS AgStats.

Chart 8



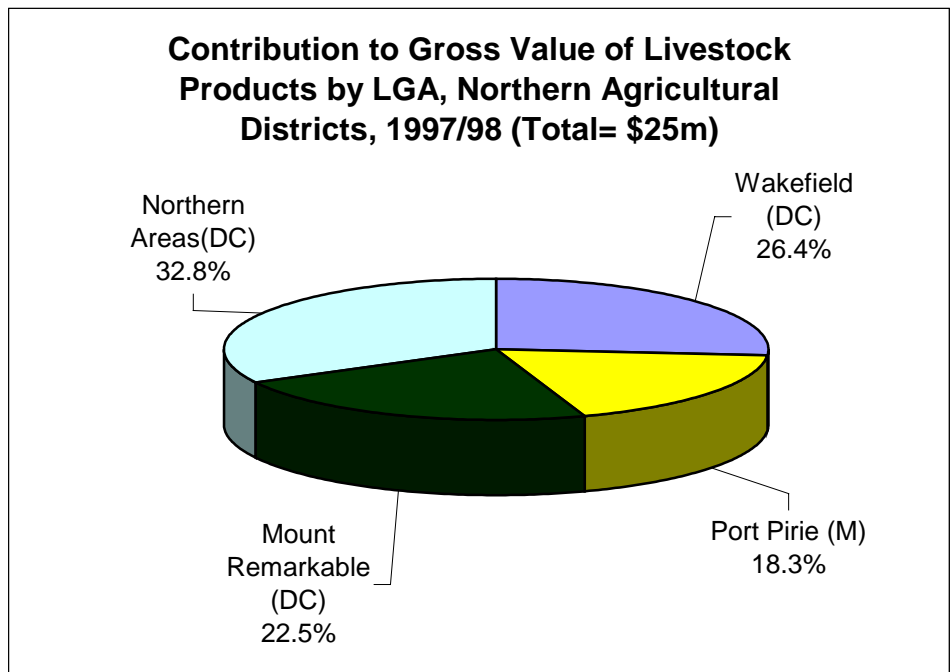
Source: ABS AgStats.

Chart 9



Source: ABS AgStats.

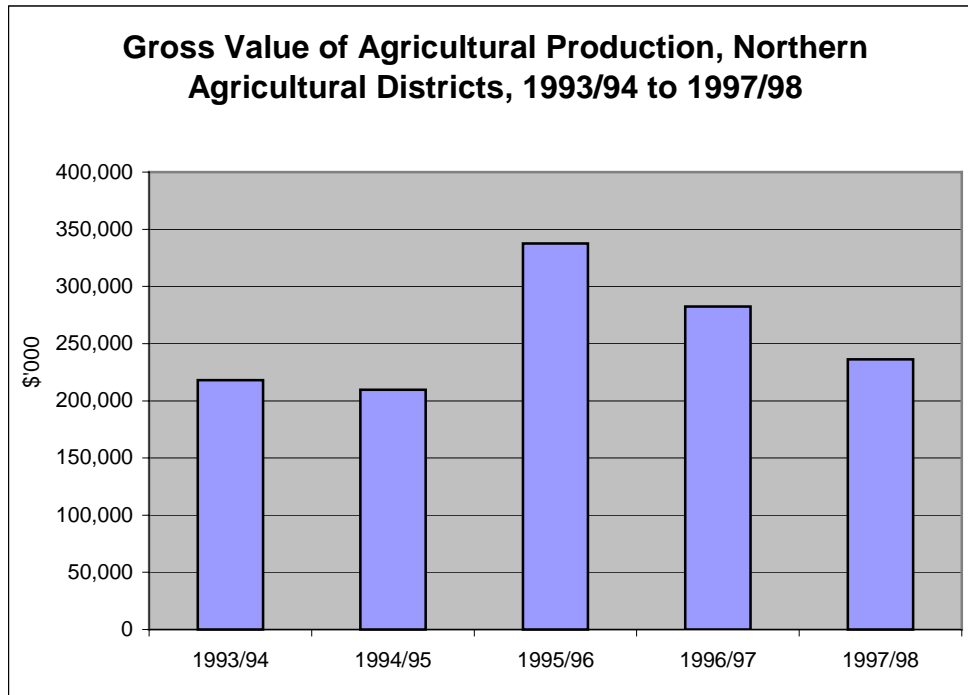
Chart 10



Source: ABS AgStats.

Chart 11 and Tables 4 to 8 provide a summary of agricultural GVP in the NAD for the period 1993/94 to 1997/98. Variation in the gross value of agricultural production reflects a combination of market price effects, seasonal conditions and structural changes in production systems. These structural changes are outlined in more detail in Section 3 of the report.

Chart 11



Source: ABS Cat. No. 1350.0 (1993/94 to 1996/97) and ABS AgStats (1997/98)

Table 4 Gross Value of Agricultural Production, Northern Agricultural Districts, 1993/94 to 1997/98

	1993/94	1994/95	1995/96	1996/97	1997/98
	\$'000	\$'000	\$'000	\$'000	\$'000
Barley For Grain	51,050	47,368	81,019	66,154	53,881
Oats For Grain	918	1,468	2,992	1,555	1,435
Wheat For Grain	76,773	75,786	150,205	112,516	79,536
Total Cereals for Grain	129,701	126,005	237,540	182,988	137,463
Total Crops for Hay	3,080	2,893	11,016	5,879	6,211
Cattle and Calves Slaughtering	6,556	7,861	5,879	4,424	3,478
Sheep and Lamb Slaughtering	11,760	12,819	12,849	12,851	15,055
Pigs Slaughtering	8,179	6,259	4,534	6,755	np
Poultry Slaughtering	7,992	3,964	0	11,596	9,612
Total Livestock Slaughtering	34,548	30,999	23,418	35,681	36,002
Shorn & On-Skin Wool	20,963	24,623	25,206	19,771	19,532
Total Honey Produced	675	456	603	603	np
Eggs Produced	1,313	1,421	1,714	1,257	2,743
Total Milk	1,575	1,948	1,991	1,933	2,419
Total Livestock Products	24,579	27,093	29,556	24,391	25,211
Other Agriculture	27,237	22,867	39,557	37,229	42,448
Total Agriculture	218,070	209,733	337,565	282,524	236,350

Source: ABS Cat. No. 1350.0 (1993/94 to 1996/97) and ABS AgStats (1997/98)¹

Table 5 Gross Value of Agricultural Production, Wakefield DC, 1993/94 to 1997/98

	1993/94	1994/95	1995/96	1996/97	1997/98
	\$'000	\$'000	\$'000	\$'000	\$'000
Barley For Grain	20,336	19,617	33,561	29,099	26,797
Oats For Grain	236	481	910	514	720
Wheat For Grain	31,520	30,964	59,279	49,227	43,593
Total Cereals for Grain	52,817	51,830	96,054	80,913	72,747
Total Crops for Hay	1,108	1,072	5,517	3,216	3,746
Cattle and Calves Slaughtering	2,090	2,737	2,465	1,586	484
Sheep and Lamb Slaughtering	4,200	3,695	3,834	3,554	4,248
Pigs Slaughtering	5,045	3,881	2,923	3,253	np
Poultry Slaughtering	7,971	3,908	0	11,468	9,456
Total Livestock Slaughtering	19,323	14,225	9,266	19,862	18,340
Shorn & On-Skin Wool	5,336	6,218	6,353	5,308	5,110
Total Honey Produced	0	0	0	0	np
Eggs Produced	143	88	94	94	73
Total Milk	672	1,041	921	948	1,484
Total Livestock Products	6,151	7,349	7,369	6,574	6,667
Other Agriculture	11,046	10,336	18,510	18,029	21,892
Total Agriculture	89,704	84,038	134,368	126,298	117,603

Source: ABS Cat. No. 1350.0 (1993/94 to 1996/97) and ABS AgStats (1997/98)

¹ Data for 1997/98 were drawn from ABS AgStats and are based on a sample of the total farm population. Where a small sample size exists these data are not published for confidentiality reasons (pigs, honey). Thus the definition of Other Agriculture for 1997/98 differs from previous years.

Table 6 Gross Value of Agricultural Production, Port Pirie City and Districts Municipality, 1993/94 to 1997/98

	1993/94	1994/95	1995/96	1996/97	1997/98
	\$'000	\$'000	\$'000	\$'000	\$'000
Barley For Grain	9,192	9,270	12,575	12,443	9,241
Oats For Grain	102	120	185	186	147
Wheat For Grain	12,104	13,283	18,877	16,771	12,474
Total Cereals for Grain	21,433	22,763	31,749	29,578	22,104
Total Crops for Hay	285	317	584	532	674
Cattle and Calves Slaughtering	1,650	1,953	1,516	1,271	1,770
Sheep and Lamb Slaughtering	1,370	1,790	1,930	1,753	2,271
Pigs Slaughtering	1,281	880	671	774	np
Poultry Slaughtering	1	41	0	124	111
Total Livestock Slaughtering	4,316	4,667	4,120	3,923	5,113
Shorn & On-Skin Wool	2,141	2,858	2,788	2,096	2,376
Total Honey Produced	100	64	131	142	np
Eggs Produced	857	923	1,284	1,141	2,194
Total Milk	31	24	30	24	np
Total Livestock Products	3,132	3,875	4,238	3,491	4,605
Other Agriculture	5,100	4,082	5,622	6,360	5,773
Total Agriculture	34,212	35,605	46,193	43,615	37,031

Source: ABS Cat. No. 1350.0 (1993/94 to 1996/97) and ABS AgStats (1997/98)

Table 7 Gross Value of Agricultural Production, Mount Remarkable DC, 1993/94 to 1997/98

	1993/94	1994/95	1995/96	1996/97	1997/98
	\$'000	\$'000	\$'000	\$'000	\$'000
Barley For Grain	6,856	4,548	11,869	8,253	4,346
Oats For Grain	125	211	799	241	103
Wheat For Grain	12,368	9,375	29,351	16,374	4,514
Total Cereals for Grain	19,366	14,147	42,060	24,979	9,044
Total Crops for Hay	679	323	2,087	750	634
Cattle and Calves Slaughtering	1,191	1,170	728	647	669
Sheep and Lamb Slaughtering	2,398	3,170	2,659	2,913	3,458
Pigs Slaughtering	806	810	388	2,233	np
Poultry Slaughtering	20	0	0	3	1
Total Livestock Slaughtering	4,416	5,228	3,864	5,796	6,492
Shorn & On-Skin Wool	5,440	6,156	6,554	5,466	5,127
Total Honey Produced	207	66	170	99	np
Eggs Produced	9	9	5	15	3
Total Milk	445	485	476	465	417
Total Livestock Products	6,112	6,722	7,216	6,260	5,663
Other Agriculture	2,852	1,667	3,892	3,092	4,333
Total Agriculture	33,396	27,990	58,979	40,551	23,605

Source: ABS Cat. No. 1350.0 (1993/94 to 1996/97) and ABS AgStats (1997/98)

Table 8 Gross Value of Agricultural Production, Northern Areas DC, 1993/94 to 1997/98

	1993/94	1994/95	1995/96	1996/97	1997/98
	\$'000	\$'000	\$'000	\$'000	\$'000
Barley For Grain	14,666	13,933	23,014	16,360	13,497
Oats For Grain	455	656	1,098	615	465
Wheat For Grain	20,781	22,164	42,699	30,144	18,955
Total Cereals for Grain	36,085	37,265	67,678	47,519	33,569
Total Crops for Hay	1,008	1,181	2,828	1,381	1,158
Cattle and Calves Slaughtering	1,625	2,001	1,169	921	556
Sheep and Lamb Slaughtering	3,792	4,164	4,425	4,631	5,078
Pigs Slaughtering	1,047	688	552	496	np
Poultry Slaughtering	0	15	0	1	43
Total Livestock Slaughtering	6,493	6,879	6,167	6,100	6,057
Shorn & On-Skin Wool	8,046	9,391	9,512	6,900	6,919
Total Honey Produced	368	326	302	362	np
Eggs Produced	305	401	330	6	474
Total Milk	426	398	563	495	517
Total Livestock Products	9,185	10,541	10,732	8,067	8,276
Other Agriculture	8,239	6,782	11,533	9,748	10,448
Total Agriculture	60,757	62,100	98,025	72,060	58,110

Source: ABS Cat. No. 1350.0 (1993/94 to 1996/97) and ABS AgStats (1997/98)

3. Current Production and Recent Trends in Primary Industries in the Northern Agricultural Districts

3.1 Agricultural Production in the Northern Agricultural Districts, 1987/88 to 1997/98

This section provides time series agricultural production data for the NAD and for each of the component LGAs for the period 1987/88 to 1997/98. All data are drawn from ABS AgStats².

Some of the key structural changes to emerge from these data include;

- an increase in the area sown to barley and triticale, the area sown to wheat and oats remaining relatively constant (Chart 12),
- significant growth in the area sown to canola and lupins and decline in the area sown to field peas (Chart 14),
- significant decline in sheep numbers and wool production with some growth in the number of beef cattle (Chart 16 and 17), and
- growth in the area of (non-bearing) grape vines, from a very low base (Chart 18).

Comments are not provided for each of the LGAs except to note that the trends in area, production and the number of establishments are similar for all component LGAs.

² Some of these data are not published in certain years and have been denoted "np". Estimates of wool production in 1994/95 and 1995/96 have been estimated on the basis of known sheep and lamb numbers and average wool production for the period 1987/88 to 1997/98.

Table 9 Agricultural Production in the Northern Agricultural Districts, 1987/88 to 1997/98

	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
PASTURES (CUT FOR HAY)-TOTAL AREA (ha)	8,424	7,324	11,768	9,164	12,344	6,208	5,694	8,786	7,544	7,052	6,759
PASTURES (CUT FOR HAY)-TOTAL PRODUCTION (t)	21,299	15,186	32,603	24,793	35,397	18,488	15,680	15,245	20,422	19,929	15,049
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL AREA (ha)	2,686	2,842	4,371	4,746	4,644	5,025	4,739	3,913	3,781	3,764	2,990
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL PRODUCTION (t)	486,169	425,321	1,035,779	1,069,312	968,018	1,212,953	883,972	681,724	908,552	720,943	800,257
WHEAT FOR GRAIN-AREA (ha)	212,642	208,223	210,236	202,522	185,769	205,119	187,418	208,879	226,948	227,107	174,556
WHEAT FOR GRAIN-PRODUCTION (t)	379,506	291,395	446,153	409,368	408,126	451,602	445,873	320,661	565,074	522,327	393,040
OATS FOR GRAIN-AREA (ha)	7,620	9,599	11,232	11,291	10,006	7,208	6,643	8,321	9,798	8,227	7,034
OATS FOR GRAIN-PRODUCTION (t)	10,628	11,067	18,941	15,130	15,582	11,591	10,774	8,083	18,682	12,629	10,898
BARLEY FOR GRAIN-AREA (ha)	119,957	118,151	130,039	145,039	156,932	156,818	181,632	137,298	147,713	158,978	160,791
BARLEY FOR GRAIN-PRODUCTION (t)	220,135	162,372	275,404	285,878	348,840	321,344	421,938	219,057	360,858	354,836	332,125
TRITICALE FOR GRAIN-AREA (ha)	321	380	562	721	940	2,937	3,373	5,058	6,603	8,616	7,646
TRITICALE FOR GRAIN-PRODUCTION (t)	450	428	968	1,191	1,703	7,892	7,076	7,618	17,168	18,569	14,597
TOTAL CEREALS FOR GRAIN-AREA (ha)	340,769	336,384	352,093	360,535	353,803	372,511	379,265	np	np	402,955	350,568
TOTAL CEREALS FOR GRAIN-PRODUCTION (t)	610,879	465,288	741,472	712,798	774,540	792,867	886,051	np	np	908,442	751,373
TOTAL CEREALS FOR HAY-AREA (ha)	7,510	6,976	9,148	7,054	8,614	5,238	6,999	11,373	18,949	11,797	14,147
TOTAL CEREALS FOR HAY-PRODUCTION (t)	20,728	14,906	25,423	18,834	29,569	20,624	24,044	25,265	79,708	46,950	50,480
LUPINSFOR GRAIN-AREA (ha)	1,334	2,410	3,968	4,130	3,869	4,876	6,539	7,084	7,868	5,946	7,689
LUPINS FOR GRAIN-PRODUCTION (t)	1,254	2,239	4,474	4,270	5,577	8,549	7,353	4,032	11,151	8,596	8,499
TOTAL LEGUMES FOR GRAIN-AREA (ha)	61,686	69,165	57,460	52,111	69,480	79,109	67,907	np	np	65,187	65,297
TOTAL LEGUMES FOR GRAIN-PRODUCTION (T)	np	np	np	np	np	80,003	19,408	np	np	97,443	70,634
FIELD PEAS FOR GRAIN-AREA (ha)	45,936	52,402	45,685	38,940	51,836	48,305	42,731	48,055	44,970	37,237	35,570
FIELD PEAS FOR GRAIN-PRODUCTION (t)	56,455	54,139	49,376	53,855	70,295	47,414	61,882	42,620	66,051	61,146	43,644
CHICK PEAS-AREA (ha)	1,254	1,802	2,153	4,005	7,390	6,077	5,442	6,968	6,570	5,635	4,621
CHICK PEAS-PRODUCTION (t)	1,249	1,345	2,526	4,952	9,464	4,240	6,237	4,052	9,116	7,501	5,950
CANOLA-AREA (ha)	0	0	50	67	266	247	967	2,185	4,377	5,428	13,301
CANOLA-PRODUCTION (t)	0	0	62	42	334	353	1,292	1,442	7,540	7,921	14,813
VETCHES FOR SEED-AREA (ha)	486	1,273	1,985	2,572	7,901	10,964	2,100	2,477	4,362	8,214	6,143
VETCHES FOR SEED-PRODUCTION (t)	224	378	987	1,383	6,885	7,632	1,144	665	3,497	4,781	1,941
FIELD BEANS(TICK, HORSE, FABAs)-AREA (ha)	13,163	12,551	5,649	5,032	6,365	8,681	10,923	9,508	7,950	7,718	9,414
FIELD BEANS(TICK, HORSE, FABAs)-PRODUCTION (t)	18,181	9,811	7,336	7,587	9,868	12,150	17,912	6,632	13,624	14,708	8,960
VEGETABLES FOR HUMAN CONSUMPTION-AREA (ha)	43	49	35	24	27	28	30	22	19	9	18
ORCHARD FRUIT TREES-TOTAL AREA (ha)	83	77	75	60	48	72	67	63	90	65	15
TOTAL GRAPES-BEARING VINES AT HARVEST-AREA (ha)	22	17	23	25	14	20	22	21	25	23	40
TOTAL GRAPES-VINES NOT YET BEARING AT HARVEST-AREA (ha)	0	1	3	2	1	2	2	11	47	145	56
TOTAL GRAPES-WINEMAKING OR DISTILLATION-PRODUCTION (t)	158	133	151	155	106	135	112	125	229	316	367
TOTAL GRAPES-DRYING(DRIED WEIGHT)-PRODUCTION (t)	2	3	5	0	11	38	0	13	0	386	365
TOTAL GRAPES-OTHER(INCLUDING TABLE)-PRODUCTION (t)	77	35	100	108	85	57	90	30	80	70	28
SHEEP & LAMBS-TOTAL-NUMBER	1,279,882	1,317,289	1,435,929	1,313,877	1,261,018	1,249,315	1,140,363	960,975	1,057,983	1,028,258	901,613
TOTAL WOOL-PRODUCTION (kg)	7,512,312	7,455,536	8,690,353	8,236,955	7,412,126	7,952,787	6,732,228	5,650,252	6,220,631	5,451,655	5,065,057
TOTAL DAIRY CATTLE INCLUDING BULLS-NUMBER	1,969	2,136	1,870	1,648	1,680	1,871	1,796	1,835	1,775	1,773	2,180
TOTAL MEAT CATTLE INCLUDING BULLS-NUMBER	14,823	14,418	15,131	18,784	24,279	27,933	28,941	27,525	31,145	26,684	23,754
PIGS-TOTAL-NUMBER	47,502	47,005	46,327	42,459	48,831	48,587	50,176	42,810	39,142	37,841	44,071
GOATS-TOTAL-NUMBER	1,599	2,029	3,102	2,271	1,688	815	457	np	np	622	434
LIVE PLTY-FOWLS:HENS & PULLETS FOR EGG PROD-ON HOLDING	54,972	57,466	48,653	48,049	47,891	48,811	56,668	52,938	56,405	48,836	55,389
LIVE POULTRY-FOWLS:TOTAL MEAT STRAIN CHICKENS ON HOLDING	544,392	455,287	605,144	648,453	640,598	601,700	576,155	587,870	560,847	510,500	535,493
TOTAL HIVES KEPT-NUMBER	np	5,285	5,749	6,390	5,881	7,594	7,789	6,992	5,790	5,195	np

Chart 12

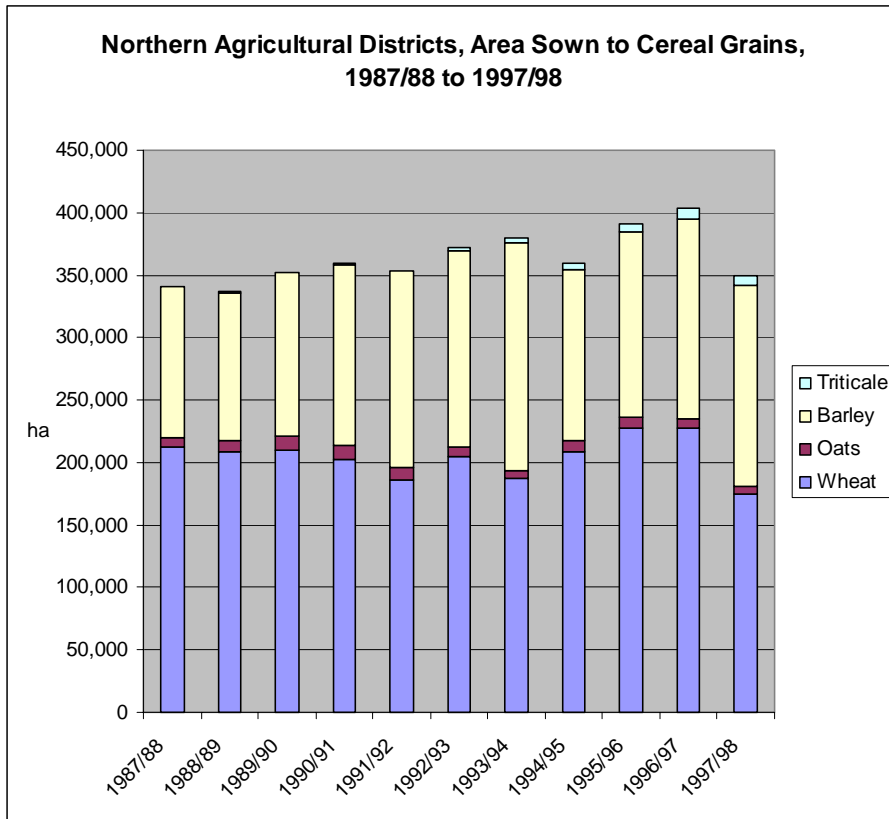


Chart 13

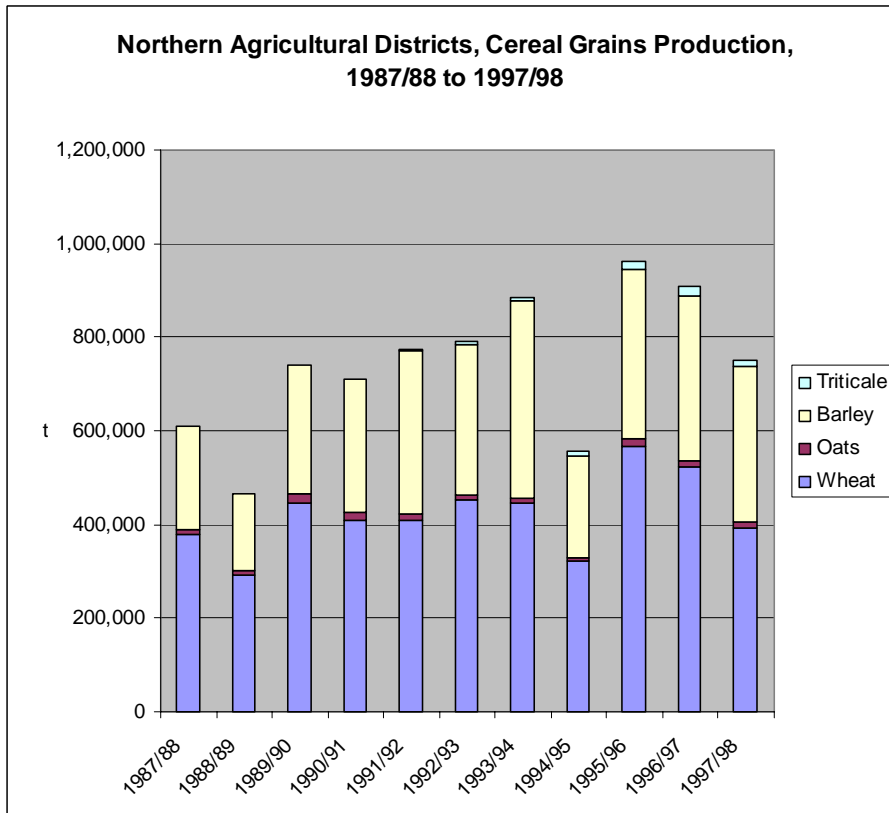


Chart 14

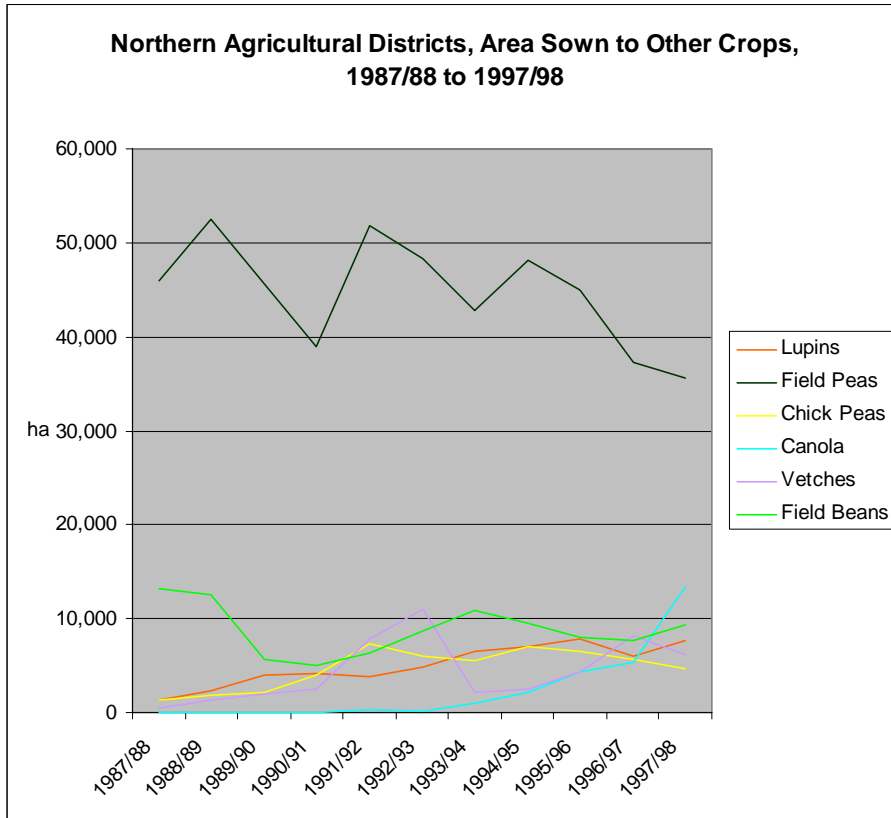


Chart 15

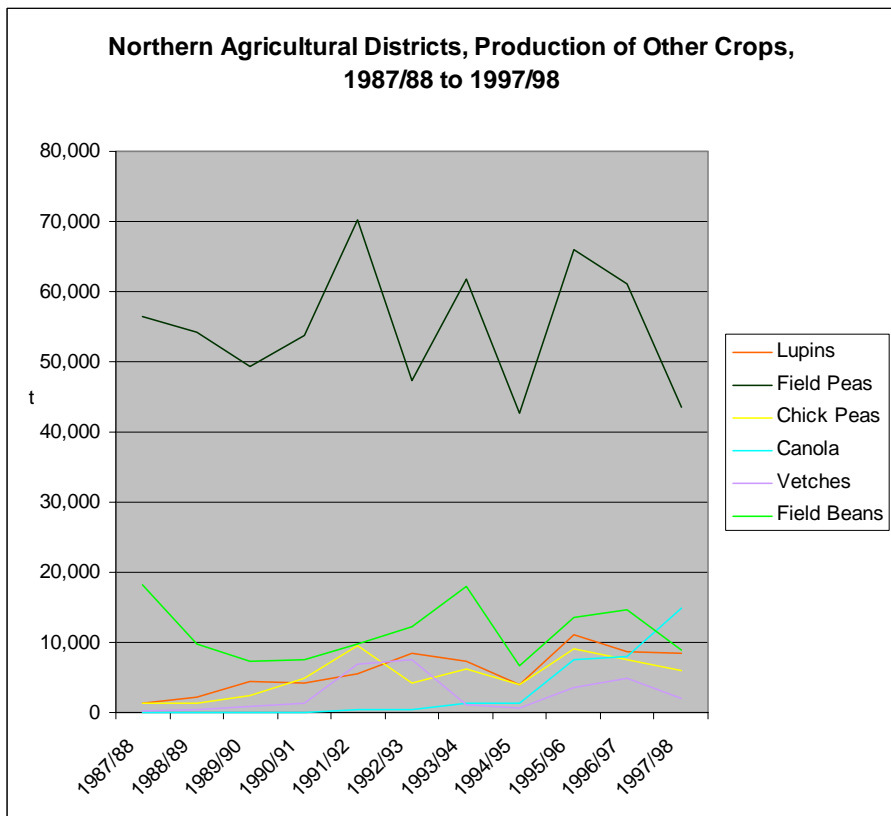


Chart 16

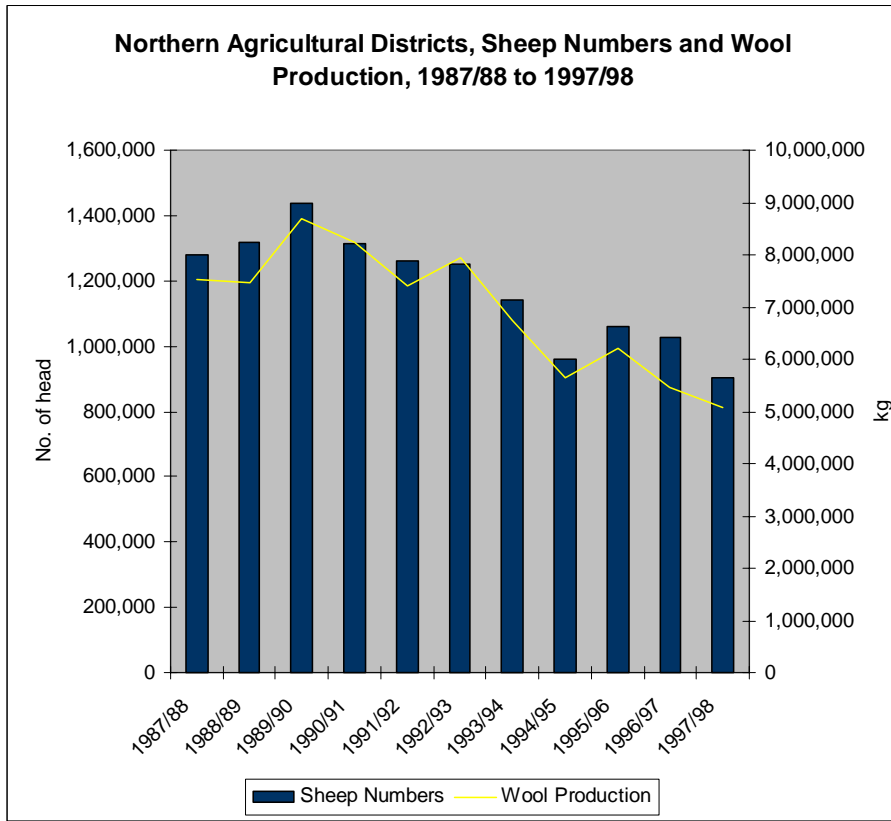


Chart 17

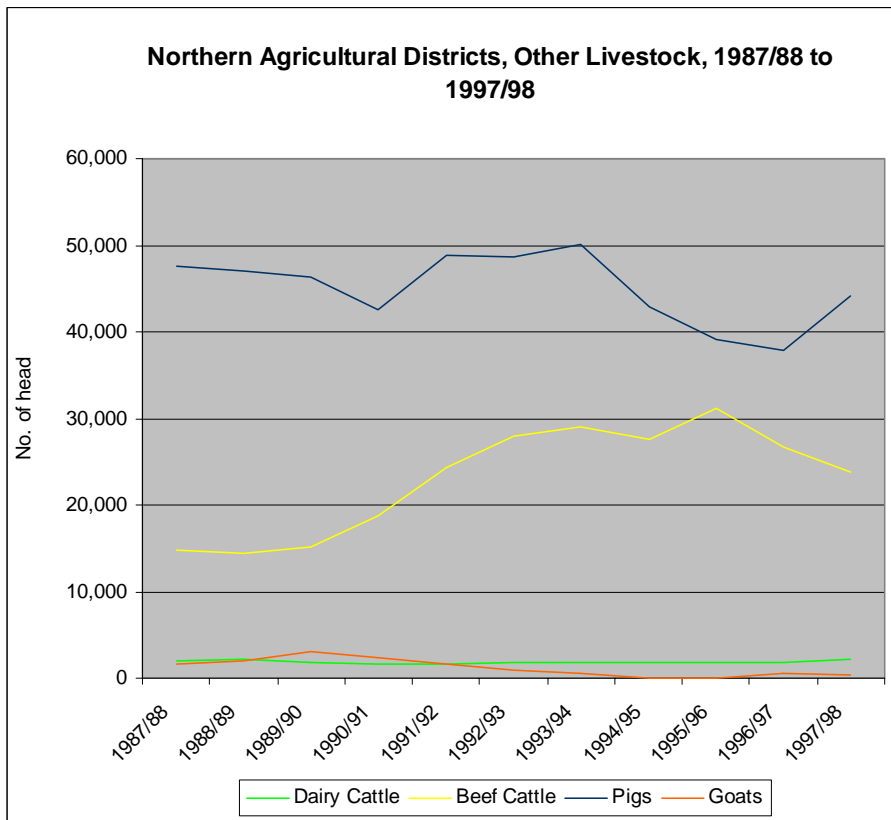


Chart 18

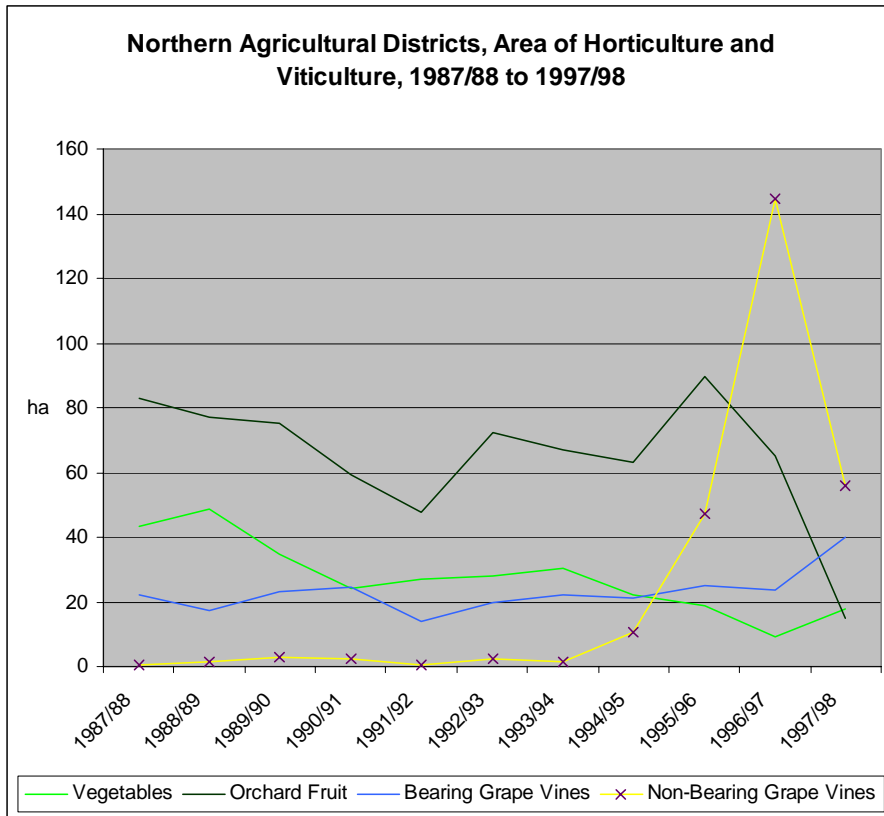
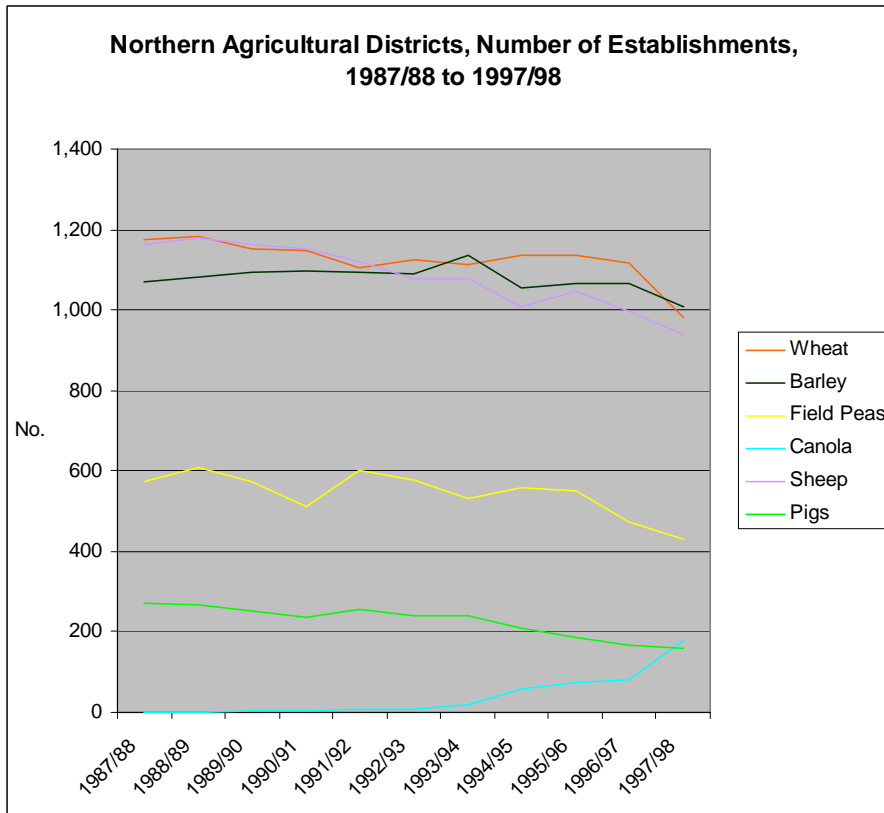


Chart 19



3.2 Agricultural Production in the Wakefield DC, 1987/88 to 1997/98

- area sown to wheat, barley and triticale has increased,
- area sown to canola, lupins and chick peas has also increased significantly,
- sheep numbers and wool production have fallen significantly, cattle numbers increased, and
- area of non-bearing grapes has increased from a low base (data for 1997/98 could be subject to confidentiality restrictions).

Table 10 Agricultural Production in the Wakefield District Council, 1987/88 to 1997/98

	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
PASTURES (CUT FOR HAY)-TOTAL AREA (ha)	2,778	2,495	3,966	3,625	4,841	3,029	1,481	3,486	3,141	2,127	2,282
PASTURES (CUT FOR HAY)-TOTAL PRODUCTION (t)	5,877	4,113	10,006	8,230	13,612	9,641	4,520	6,869	8,335	6,153	4,440
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL AREA (ha)	714	780	1,408	1,502	1,215	775	569	1,041	543	592	1,069
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL PRODUCTION (t)	166,716	128,302	395,325	416,179	400,738	401,600	210,748	225,820	258,717	207,800	411,858
WHEAT FOR GRAIN-AREA (ha)	77,030	74,700	77,129	73,232	69,224	73,929	73,870	78,004	85,465	87,733	84,041
WHEAT FOR GRAIN-PRODUCTION (t)	136,950	100,284	150,742	144,101	163,188	172,819	183,060	131,010	223,007	228,525	216,221
OATS FOR GRAIN-AREA (ha)	2,809	3,034	4,345	3,701	3,112	2,312	1,815	2,899	2,450	2,261	2,454
OATS FOR GRAIN-PRODUCTION (t)	3,946	3,017	6,979	4,346	4,692	3,636	2,773	2,648	5,683	4,170	5,578
BARLEY FOR GRAIN-AREA (ha)	56,195	52,943	59,823	67,398	67,525	65,505	73,770	57,576	59,536	66,174	67,030
BARLEY FOR GRAIN-PRODUCTION (t)	98,109	65,528	121,929	123,802	147,356	131,573	168,084	90,718	149,481	156,080	165,370
TRITICALE FOR GRAIN-AREA (ha)	212	372	487	605	870	2,465	2,586	3,424	4,715	6,376	4,629
TRITICALE FOR GRAIN-PRODUCTION (t)	283	427	843	966	1,586	6,209	5,239	4,487	12,047	14,001	9,454
TOTAL CEREALS FOR GRAIN-AREA (ha)	136,455	131,080	141,808	145,389	140,876	144,529	152,136	np	np	162,545	158,154
TOTAL CEREALS FOR GRAIN-PRODUCTION (t)	239,432	169,283	280,500	273,641	317,104	314,603	359,436	np	np	402,776	396,622
TOTAL CEREALS FOR HAY-AREA (ha)	3,431	2,594	4,228	3,338	3,912	1,905	2,840	4,520	9,133	5,759	8,332
TOTAL CEREALS FOR HAY-PRODUCTION (t)	8,491	4,682	10,625	7,567	12,404	6,964	9,124	9,744	40,629	25,921	31,995
LUPINSFOR GRAIN-AREA (ha)	14	278	543	848	932	1,121	1,266	1,815	1,604	1,333	1,944
LUPINS FOR GRAIN-PRODUCTION (t)	0	267	621	865	1,304	1,784	1,370	1,075	2,531	1,920	2,499
TOTAL LEGUMES FOR GRAIN-AREA (ha)	26,909	28,222	24,460	21,852	29,727	34,258	29,156	np	np	29,173	30,677
TOTAL LEGUMES FOR GRAIN-PRODUCTION (T)	np	np	np	np	np	35,958	4,204	np	np	48,270	39,035
FIELD PEAS FOR GRAIN-AREA (ha)	23,519	24,464	22,199	18,900	25,975	25,399	22,596	25,970	25,280	21,732	21,153
FIELD PEAS FOR GRAIN-PRODUCTION (t)	28,740	24,245	22,873	26,470	36,947	27,359	31,538	24,125	38,371	37,359	26,946
CHICK PEAS-AREA (ha)	625	951	854	1,455	2,026	1,606	2,301	3,353	2,979	2,485	3,096
CHICK PEAS-PRODUCTION (t)	653	613	850	1,848	2,741	1,545	2,893	1,643	4,046	3,715	4,471
CANOLA-AREA (ha)	0	0	20	67	160	221	692	1,179	1,698	2,945	6,138
CANOLA-PRODUCTION (t)	0	0	42	42	240	325	986	769	2,929	4,489	7,448
VETCHES FOR SEED-AREA (ha)	193	477	669	779	2,693	4,277	588	515	1,056	1,846	1,644
VETCHES FOR SEED-PRODUCTION (t)	108	134	374	564	2,933	2,816	202	179	1,398	1,340	1,153
FIELD BEANS(TICK, HORSE, FABAs)-AREA (ha)	2,751	2,529	858	648	788	1,811	2,286	2,048	1,533	1,690	2,507
FIELD BEANS(TICK, HORSE, FABAs)-PRODUCTION (t)	3,940	1,848	1,038	906	1,479	2,454	3,764	1,212	3,152	3,796	3,762
VEGETABLES FOR HUMAN CONSUMPTION-AREA (ha)	2	0	0	0	0	0	0	0	0	0	0
ORCHARD FRUIT TREES-TOTAL AREA (ha)	12	7	10	1	3	15	22	22	29	30	0
TOTAL GRAPES-BEARING VINES AT HARVEST-AREA (ha)	9	9	8	9	7	11	11	11	11	13	11
TOTAL GRAPES-VINES NOT YET BEARING AT HARVEST-AREA (ha)	0	0	3	2	1	1	0	3	42	130	0
TOTAL GRAPES-WINEMAKING OR DISTILLATION-PRODUCTION (t)	158	133	146	138	106	123	79	99	156	166	173
TOTAL GRAPES-DRYING(DRIED WEIGHT)-PRODUCTION (t)	0	0	0	0	0	0	0	0	0	166	143
TOTAL GRAPES-OTHER(INCLUDING TABLE)-PRODUCTION (t)	0	0	0	0	0	0	0	0	0	0	0
SHEEP & LAMBS-TOTAL-NUMBER	355,428	356,050	384,069	339,033	333,494	342,122	281,191	242,655	266,659	286,578	245,169
TOTAL WOOL-PRODUCTION (kg)	2,060,255	2,039,556	2,237,426	2,133,193	2,007,518	2,198,358	1,716,611	1,429,803	1,571,243	1,431,596	1,432,520
TOTAL DAIRY CATTLE INCLUDING BULLS-NUMBER	843	818	685	698	705	816	832	948	849	910	1,399
TOTAL MEAT CATTLE INCLUDING BULLS-NUMBER	5,151	4,365	4,701	5,319	6,893	7,920	8,640	8,536	10,423	7,899	7,921
PIGS-TOTAL-NUMBER	27,477	26,260	27,007	23,903	28,713	27,177	29,225	27,646	25,404	23,331	28,683
GOATS-TOTAL-NUMBER	426	519	1,562	923	845	239	103	np	np	69	np
LIVE PLTY-FOWLS:HENS & PULLETS FOR EGG PROD-ON HOLDING	11,565	9,614	6,945	4,943	4,016	2,332	7,352	4,950	4,971	4,970	np
LIVE POULTRY-FOWLS:TOTAL MEAT STRAIN CHICKENS ON HOLDING	538,880	450,380	600,500	643,378	640,548	600,000	574,810	587,870	560,100	510,400	535,493
TOTAL HIVES KEPT-NUMBER	0	0	0	0	0	1,050	150	150	0	0	np

Chart 20

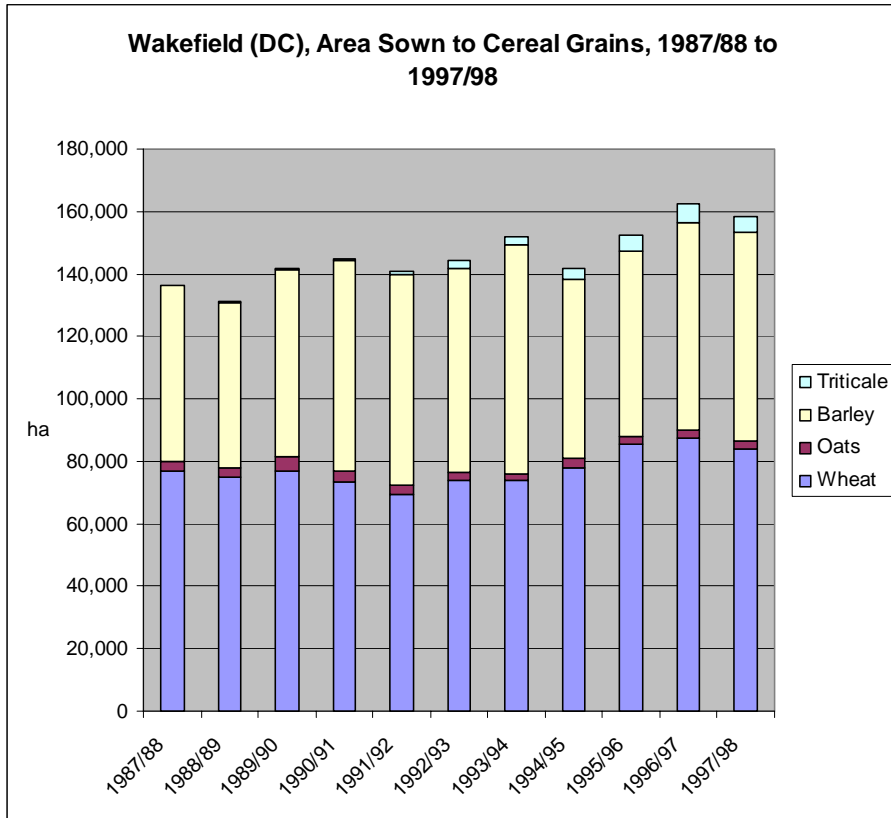


Chart 21

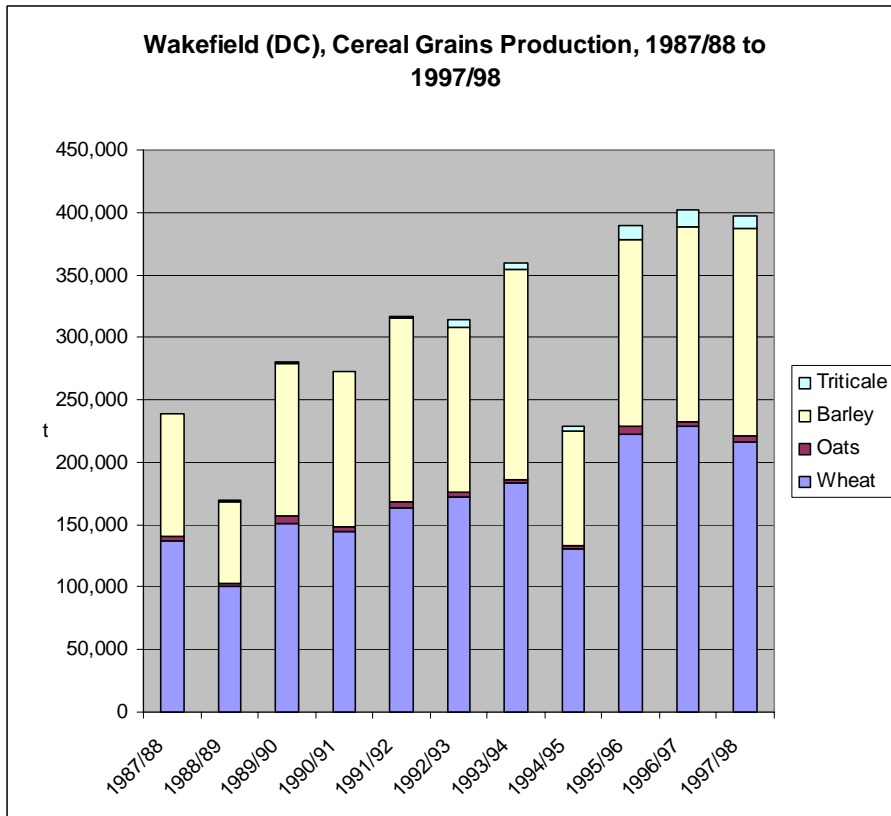


Chart 22

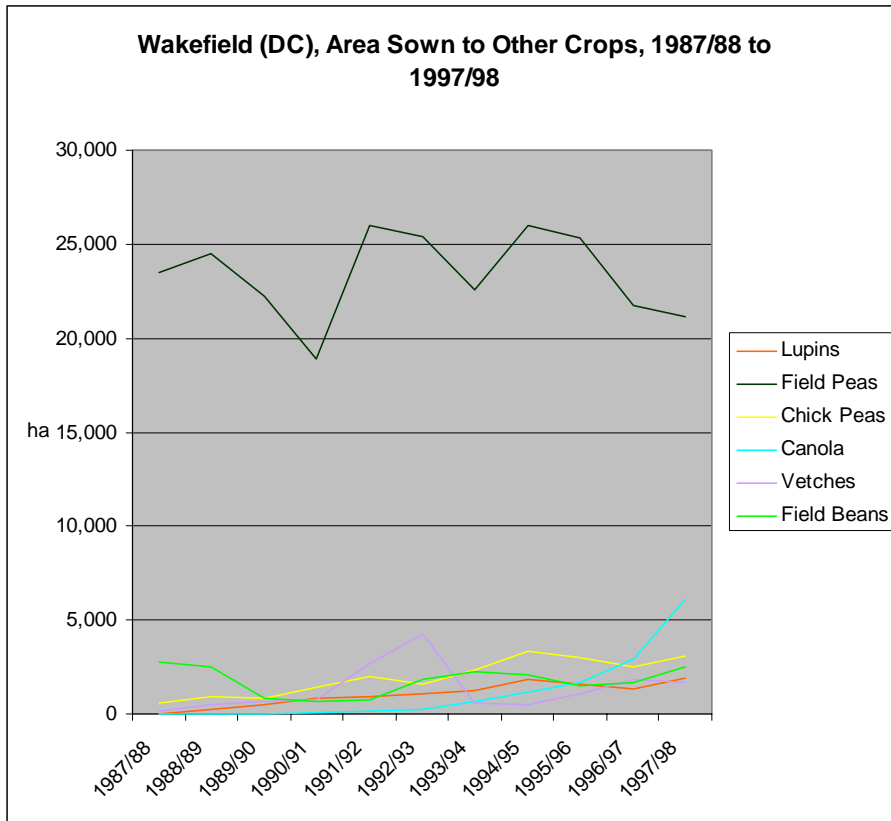


Chart 23

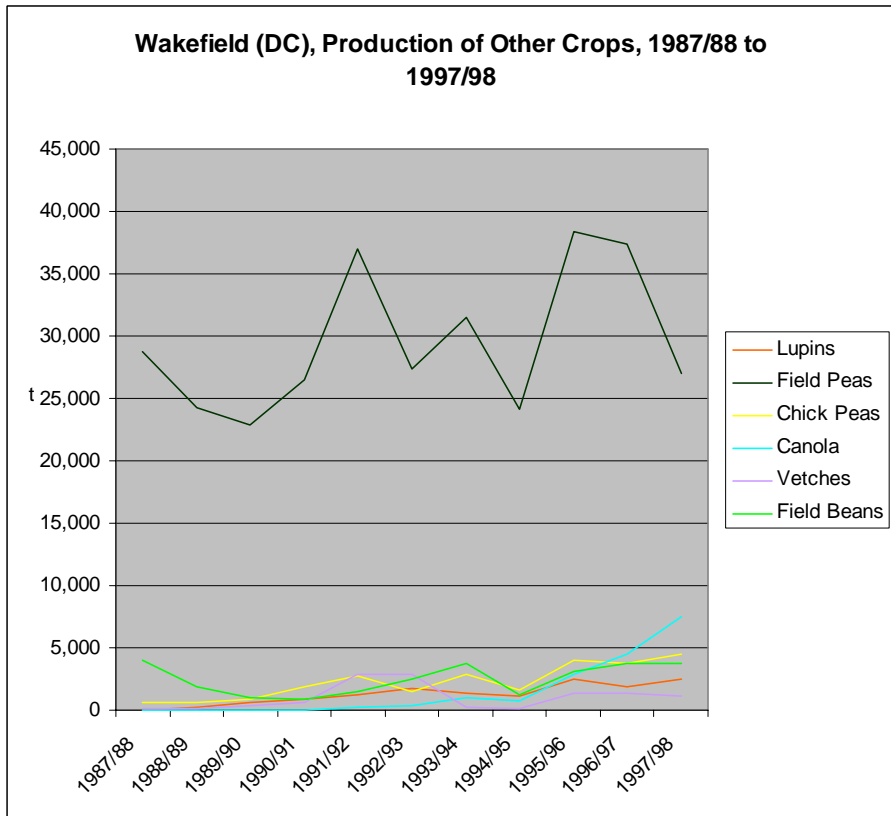


Chart 24

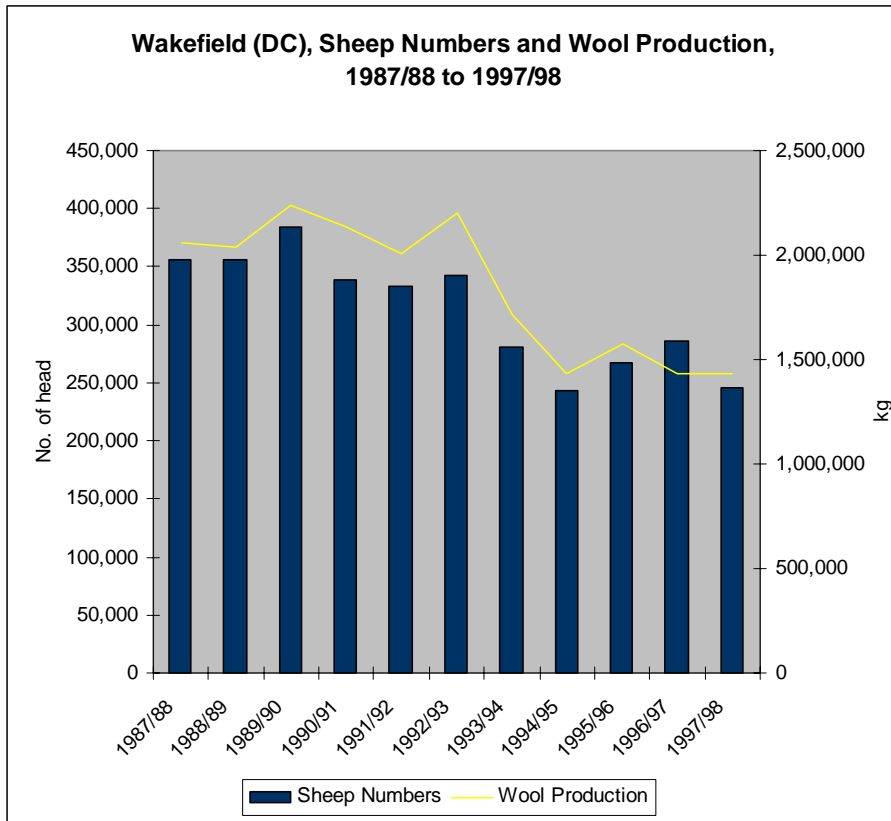


Chart 25

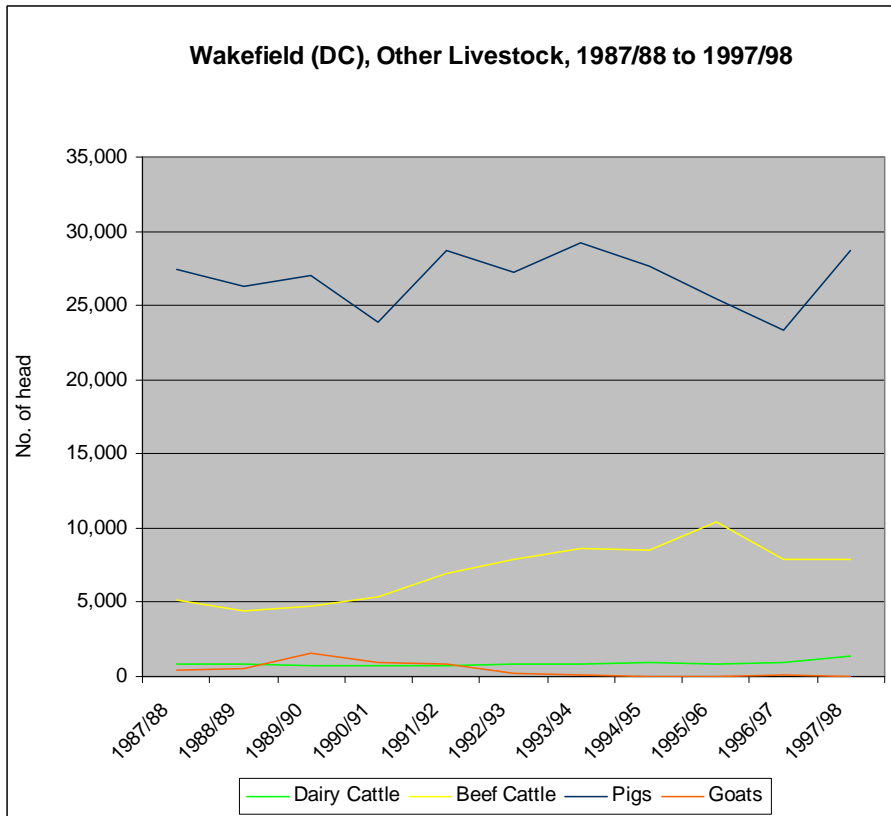


Chart 26

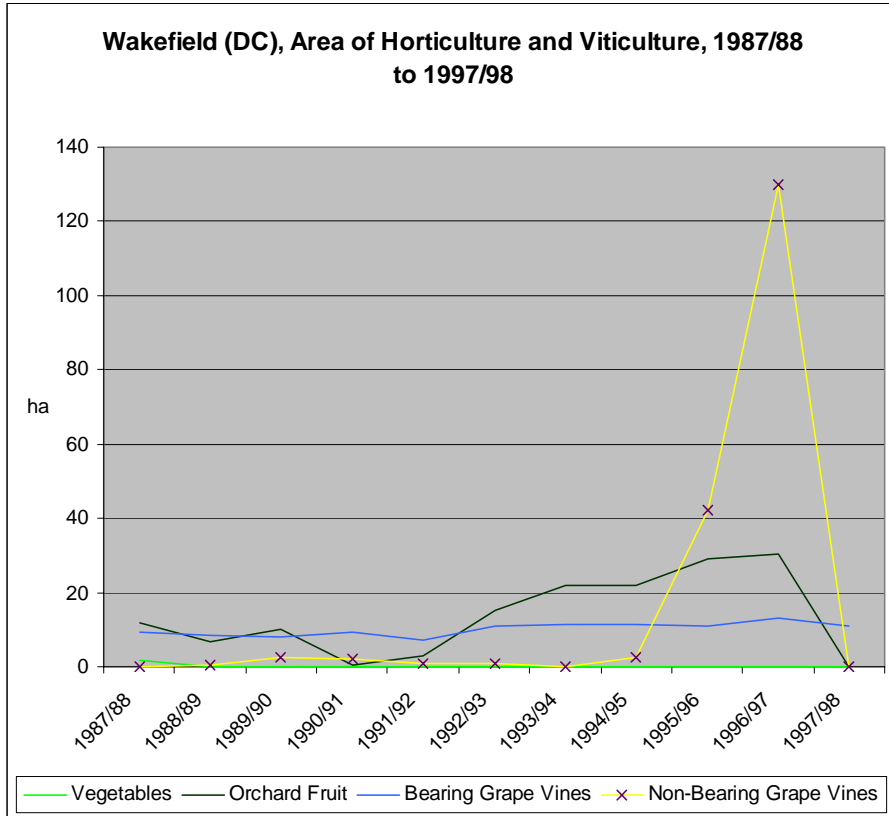
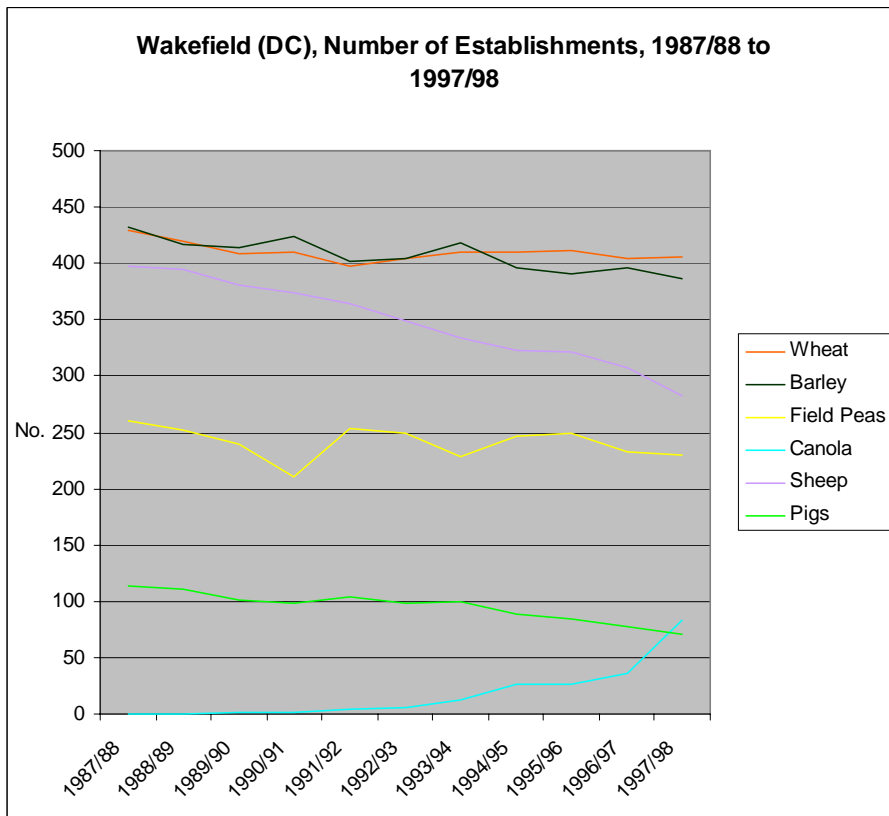


Chart 27



3.3 Agricultural Production in the Port Pirie City and Districts Municipality, 1987/88 to 1997/98

- area sown to barley and triticale has increased, wheat area remained relatively constant,
- area sown to canola, lupins, chick peas, field beans and vetches all increased while area sown to field peas fell, and
- sheep numbers and wool production have fallen significantly, cattle numbers increased.

Table 11 Agricultural Production in the Port Pirie City and Districts Municipality, 1987/88 to 1997/98

	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
PASTURES (CUT FOR HAY)-TOTAL AREA (ha)	1,107	559	1,745	864	1,448	486	462	819	516	1,305	393
PASTURES (CUT FOR HAY)-TOTAL PRODUCTION (t)	2,909	1,249	5,467	2,771	4,227	1,240	1,375	1,650	1,476	3,844	989
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL AREA (ha)	30	28	111	149	85	142	np	95	148	279	103
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL PRODUCTION (t)	4,200	6,600	31,700	45,050	33,700	100,950	np	24,075	65,592	53,300	26,402
WHEAT FOR GRAIN-AREA (ha)	31,341	32,204	31,408	29,825	26,297	29,189	25,795	31,524	33,007	32,877	27,942
WHEAT FOR GRAIN-PRODUCTION (t)	58,874	44,061	75,203	65,333	57,810	61,882	70,295	56,205	71,016	77,854	60,416
OATS FOR GRAIN-AREA (ha)	813	731	1,047	1,324	1,509	1,141	621	600	896	969	676
OATS FOR GRAIN-PRODUCTION (t)	1,241	700	1,721	1,753	2,175	1,667	1,201	664	1,154	1,507	917
BARLEY FOR GRAIN-AREA (ha)	22,260	22,324	24,556	25,559	27,511	27,903	31,510	25,129	28,363	29,063	28,192
BARLEY FOR GRAIN-PRODUCTION (t)	43,279	30,105	55,127	52,943	59,545	59,271	75,975	42,871	56,009	66,740	56,643
TRITICALE FOR GRAIN-AREA (ha)	34	0	8	32	0	88	88	173	422	592	748
TRITICALE FOR GRAIN-PRODUCTION (t)	67	0	13	64	0	360	220	316	551	1,207	911
TOTAL CEREALS FOR GRAIN-AREA (ha)	54,448	55,259	57,019	57,062	55,317	58,429	58,036	np	np	63,501	58,100
TOTAL CEREALS FOR GRAIN-PRODUCTION (t)	103,461	74,865	132,065	120,522	119,530	123,252	147,724	np	np	147,308	119,602
TOTAL CEREALS FOR HAY-AREA (ha)	920	792	984	738	837	467	655	1,191	1,471	1,262	790
TOTAL CEREALS FOR HAY-PRODUCTION (t)	1,824	1,299	2,092	1,858	2,307	1,522	2,221	2,830	4,280	4,042	3,485
LUPINSFOR GRAIN-AREA (ha)	117	236	974	836	922	1,341	1,398	883	1,885	1,094	1,524
LUPINS FOR GRAIN-PRODUCTION (t)	43	242	1,058	813	1,288	2,180	1,521	531	2,242	1,558	969
TOTAL LEGUMES FOR GRAIN-AREA (ha)	10,643	12,528	10,797	10,863	13,899	16,006	15,022	np	np	13,108	14,211
TOTAL LEGUMES FOR GRAIN-PRODUCTION (T)	np	np	np	np	np	14,980	6,809	np	np	19,526	12,614
FIELD PEAS FOR GRAIN-AREA (ha)	8,401	10,061	8,362	7,878	9,126	8,771	8,119	8,463	8,066	5,951	6,447
FIELD PEAS FOR GRAIN-PRODUCTION (t)	10,362	11,183	10,366	11,126	12,296	6,799	11,965	7,891	9,159	9,932	7,264
CHICK PEAS-AREA (ha)	404	410	416	758	1,604	1,542	1,258	1,649	1,536	1,367	1,173
CHICK PEAS-PRODUCTION (t)	407	289	565	1,022	2,296	1,111	1,485	1,269	1,714	1,727	1,196
CANOLA-AREA (ha)	0	0	30	0	40	0	0	218	518	400	875
CANOLA-PRODUCTION (t)	0	0	20	0	25	0	0	136	793	539	821
VETCHES FOR SEED-AREA (ha)	74	168	335	283	1,110	1,741	421	368	749	2,008	1,253
VETCHES FOR SEED-PRODUCTION (t)	36	121	233	169	961	1,112	243	142	269	1,539	328
FIELD BEANS(TICK, HORSE, FABA)-AREA (ha)	1,721	1,821	1,045	1,391	2,247	2,611	3,827	3,081	3,147	2,540	3,263
FIELD BEANS(TICK, HORSE, FABA)-PRODUCTION (t)	2,553	1,364	1,392	2,062	3,168	3,778	6,555	2,358	4,355	4,502	2,380
VEGETABLES FOR HUMAN CONSUMPTION-AREA (ha)	6	13	5	7	6	10	6	5	5	4	6
ORCHARD FRUIT TREES-TOTAL AREA (ha)	0	0	0	0	0	0	0	0	0	0	0
TOTAL GRAPES-BEARING VINES AT HARVEST-AREA (ha)	0	0	0	0	0	0	0	0	0	0	3
TOTAL GRAPES-VINES NOT YET BEARING AT HARVEST-AREA (ha)	0	0	0	0	0	0	0	0	0	0	3
TOTAL GRAPES-WINEMAKING OR DISTILLATION-PRODUCTION (t)	0	0	0	0	0	0	0	0	0	0	20
TOTAL GRAPES-DRYING(DRIED WEIGHT)-PRODUCTION (t)	0	0	0	0	0	0	0	0	0	0	28
TOTAL GRAPES-OTHER(INCLUDING TABLE)-PRODUCTION (t)	0	0	1	0	0	0	0	0	0	0	8
SHEEP & LAMBS-TOTAL-NUMBER	165,882	154,890	167,506	148,106	138,108	127,436	123,670	111,629	117,001	105,821	111,298
TOTAL WOOL-PRODUCTION (kg)	864,575	849,140	942,078	854,066	783,776	800,066	685,170	617,538	647,256	567,675	539,295
TOTAL DAIRY CATTLE INCLUDING BULLS-NUMBER	76	85	59	34	12	56	25	20	29	16	np
TOTAL MEAT CATTLE INCLUDING BULLS-NUMBER	2,384	2,257	2,359	3,211	5,236	5,535	4,923	5,097	5,878	5,699	5,713
PIGS-TOTAL-NUMBER	10,380	9,128	8,324	8,391	9,310	9,425	8,490	6,885	6,121	6,597	7,258
GOATS-TOTAL-NUMBER	278	144	62	91	115	12	9 np	np		11	6
LIVE PLTY-FOWLS:HENS & PULLETS FOR EGG PROD-ON HOLDING	27,194	32,977	27,568	28,642	30,800	32,150	34,700	32,930	38,100	42,108	41,800
LIVE POULTRY-FOWLS:TOTAL MEAT STRAIN CHICKENS ON HOLDING	3,632	3,200	3,100	3,275	50	230	245	0	97	700	0
TOTAL HIVES KEPT-NUMBER	0	750	1,299	980	980	1,010	750	750	750	0	np

Chart 28

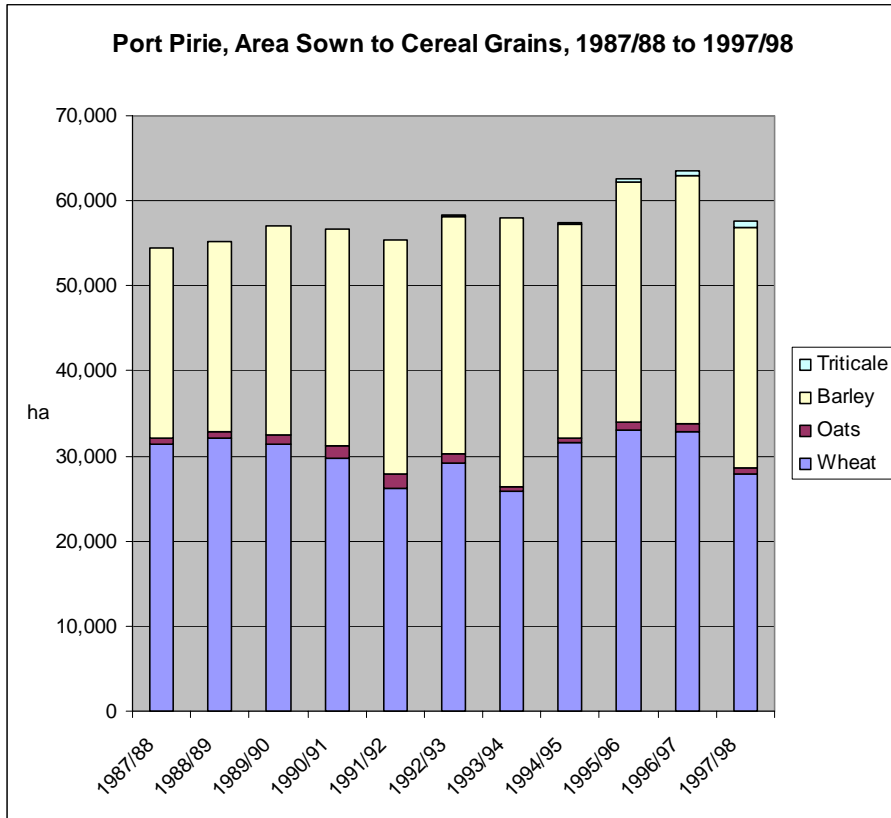


Chart 29

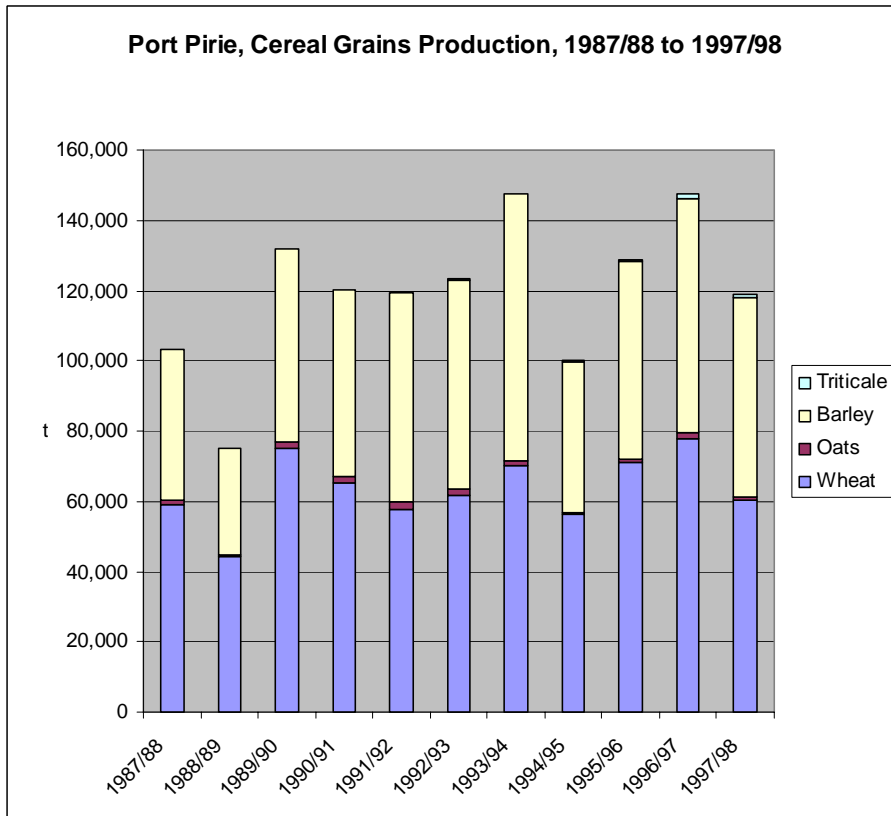


Chart 30

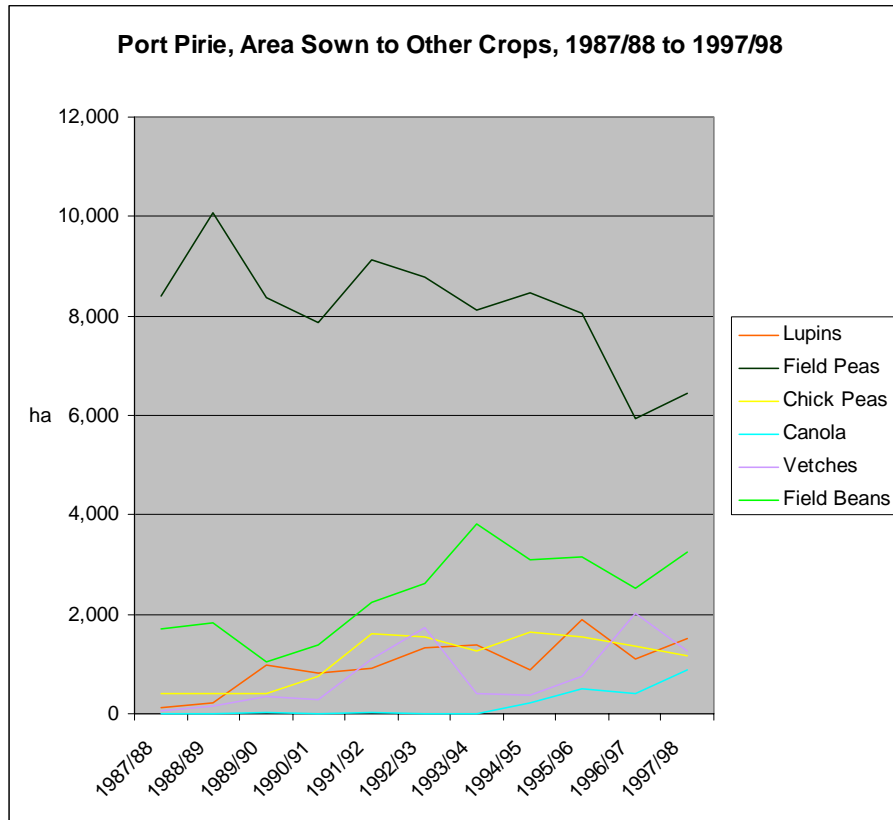


Chart 31

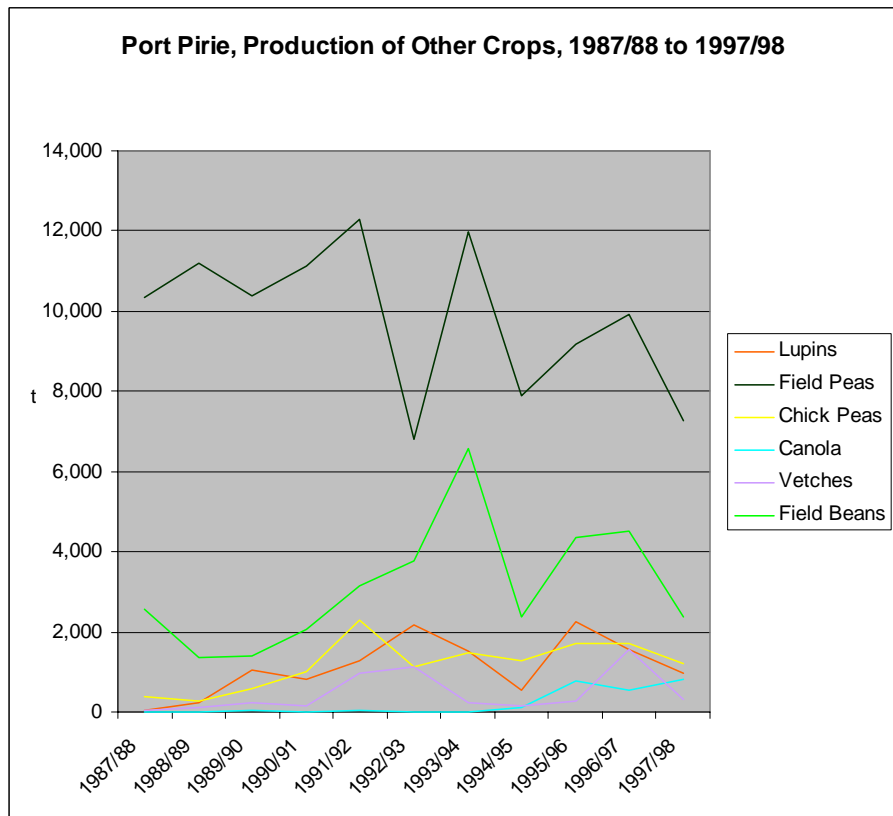


Chart 32

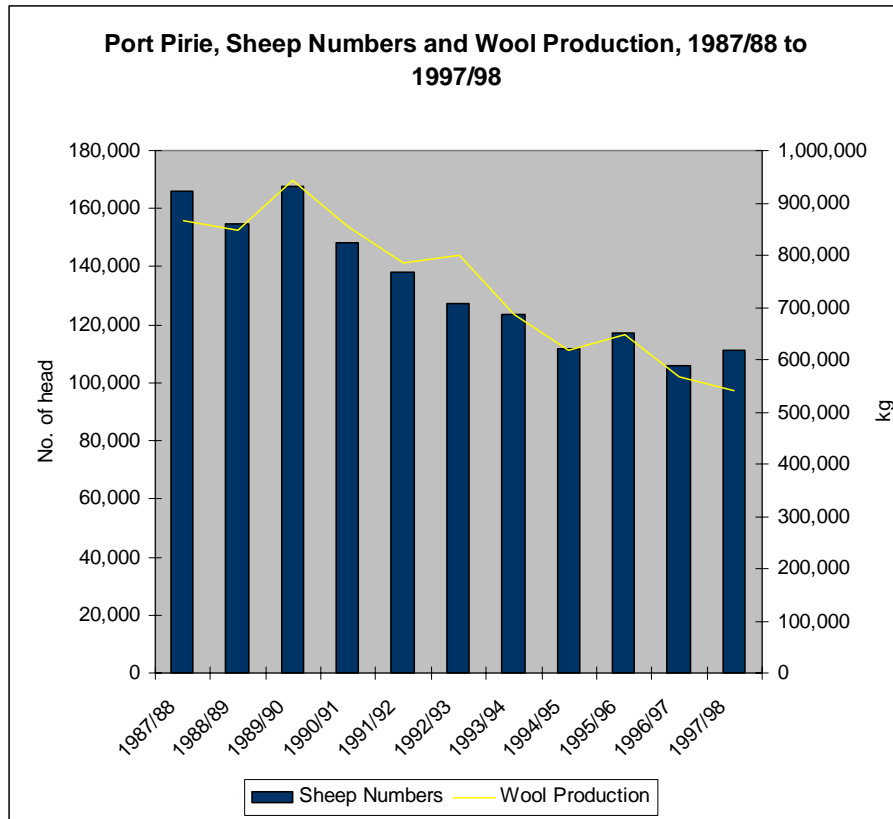


Chart 33

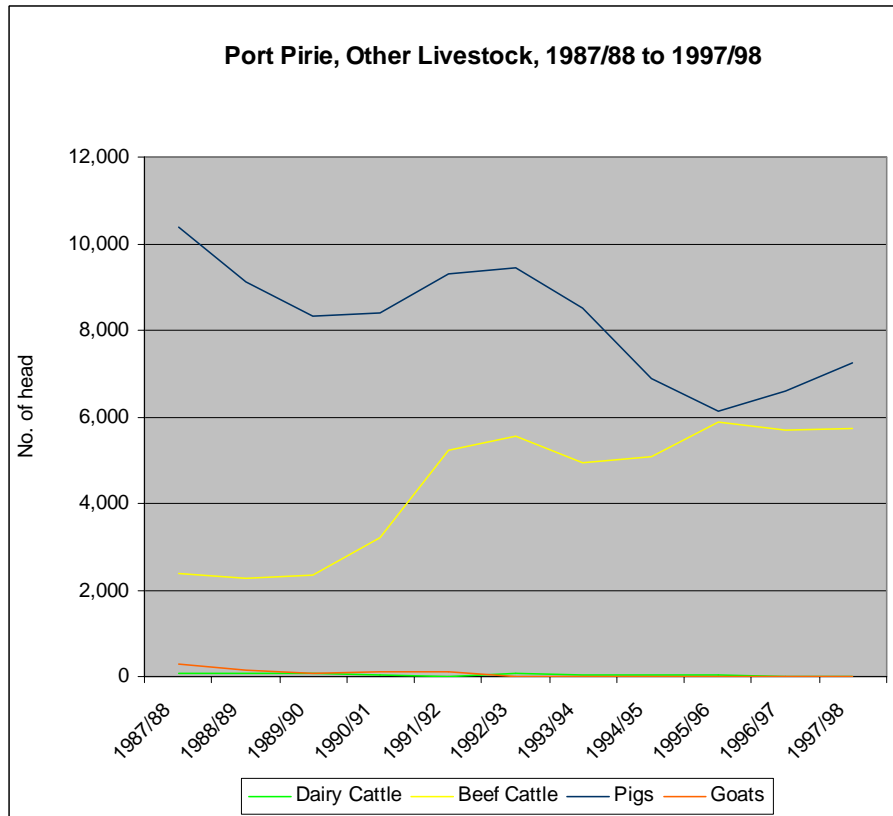


Chart 34

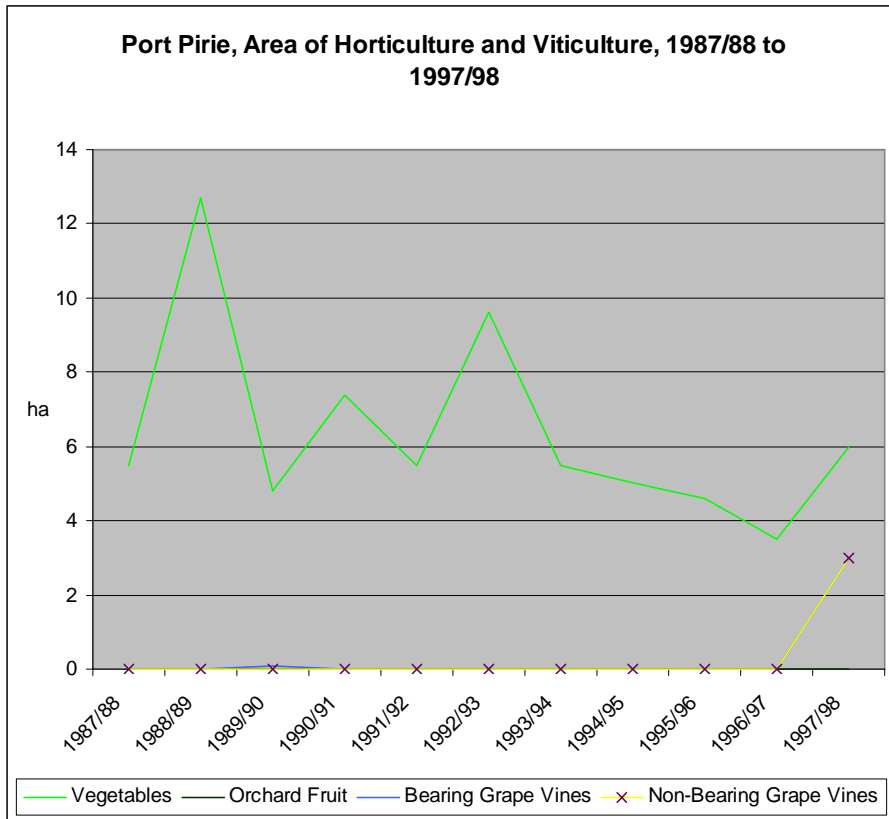
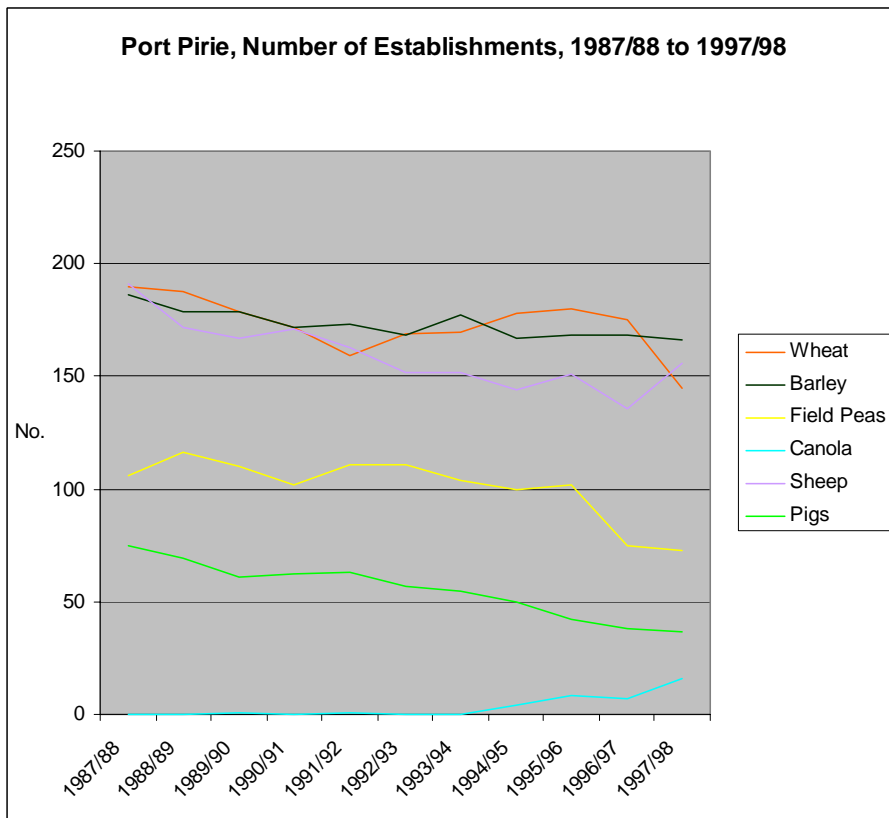


Chart 35



3.4 Agricultural Production in the Mount Remarkable DC, 1987/88 to 1997/98

- area sown to barley has increased, wheat area trended downwards,
- area sown to other crops experienced significant variation,
- sheep numbers and wool production have fallen significantly, cattle numbers increased, and
- area of non-bearing grape vines increased from a low base, while area of orchard fruit trees declined.

Table 12 Agricultural Production in the Mount Remarkable District Council, 1987/88 to 1997/98

	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
PASTURES (CUT FOR HAY)-TOTAL AREA (ha)	1,777	1,232	2,219	1,543	2,097	1,317	922	1,163	1,038	685	629
PASTURES (CUT FOR HAY)-TOTAL PRODUCTION (t)	5,420	3,167	6,875	5,023	6,357	3,792	3,078	1,483	4,661	2,436	1,753
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL AREA (ha)	669	750	1,108	1,277	1,359	1,216	1,272	1,038	985	632	256
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL PRODUCTION (t)	88,626	81,998	172,214	201,966	206,088	233,883	164,375	42,950	142,283	86,300	26,929
WHEAT FOR GRAIN-AREA (ha)	53,347	49,849	50,095	48,892	42,442	48,609	40,412	46,834	50,130	48,047	19,044
WHEAT FOR GRAIN-PRODUCTION (t)	87,001	54,441	98,042	88,089	65,918	85,671	71,831	39,667	110,419	76,014	22,389
OATS FOR GRAIN-AREA (ha)	1,572	2,219	2,292	2,215	1,862	1,451	1,435	2,113	3,031	1,941	1,207
OATS FOR GRAIN-PRODUCTION (t)	1,481	2,115	3,698	2,886	2,090	2,092	1,462	1,164	4,987	1,956	796
BARLEY FOR GRAIN-AREA (ha)	13,586	13,617	14,357	17,133	20,272	21,557	27,209	19,262	20,582	23,742	23,446
BARLEY FOR GRAIN-PRODUCTION (t)	23,100	16,321	29,597	34,342	38,936	43,816	56,664	21,034	52,866	44,267	26,821
TRITICALE FOR GRAIN-AREA (ha)	10	8	28	27	26	31	18	29	32	301	227
TRITICALE FOR GRAIN-PRODUCTION (t)	15	1	42	26	38	96	10	20	55	749	467
TOTAL CEREALS FOR GRAIN-AREA (ha)	68,515	65,693	66,772	68,267	64,614	71,648	69,155	np	np	74,030	43,923
TOTAL CEREALS FOR GRAIN-PRODUCTION (t)	111,596	72,878	131,379	125,343	106,991	131,675	130,044	np	np	122,986	50,472
TOTAL CEREALS FOR HAY-AREA (ha)	1,371	1,681	2,250	1,562	1,910	1,561	1,454	1,722	3,452	1,758	2,009
TOTAL CEREALS FOR HAY-PRODUCTION (t)	4,738	4,646	7,964	5,820	6,973	6,765	5,152	2,819	15,010	6,098	5,303
LUPINS FOR GRAIN-AREA (ha)	113	36	196	148	276	731	1,131	1,194	1,383	1,021	832
LUPINS FOR GRAIN-PRODUCTION (t)	76	12	143	113	239	1,105	778	561	1,520	1,125	612
TOTAL LEGUMES FOR GRAIN-AREA (ha)	5,906	7,722	6,779	4,686	6,726	9,120	6,745	np	np	6,842	6,075
TOTAL LEGUMES FOR GRAIN-PRODUCTION (T)	np	np	np	np	np	9,432	913	np	np	5,992	2,786
FIELD PEAS FOR GRAIN-AREA (ha)	2,982	5,689	5,717	3,767	5,587	4,886	4,094	4,871	3,418	2,716	2,588
FIELD PEAS FOR GRAIN-PRODUCTION (t)	3,772	4,201	4,733	5,128	5,538	5,308	5,359	1,829	4,629	3,153	1,784
CHICK PEAS-AREA (ha)	32	19	77	330	404	485	540	364	395	361	89
CHICK PEAS-PRODUCTION (t)	20	19	85	428	425	431	364	117	594	255	np
CANOLA-AREA (ha)	0	0	0	0	0	0	0	103	334	242	576
CANOLA-PRODUCTION (t)	0	0	0	0	0	0	0	26	517	232	309
VETCHES FOR SEED-AREA (ha)	64	170	162	746	2,062	2,564	383	1,155	1,420	2,387	2,229
VETCHES FOR SEED-PRODUCTION (t)	24	12	54	318	1,258	2,126	134	36	882	967	153
FIELD BEANS(TICK, HORSE, FABA)-AREA (ha)	2,779	1,979	789	441	460	454	597	240	420	350	220
FIELD BEANS(TICK, HORSE, FABA)-PRODUCTION (t)	3,603	1,241	1,132	636	803	462	775	210	540	488	212
VEGETABLES FOR HUMAN CONSUMPTION-AREA (ha)	36	36	30	17	21	18	25	17	14	6	12
ORCHARD FRUIT TREES-TOTAL AREA (ha)	71	67	65	59	45	53	41	41	61	35	15
TOTAL GRAPES-BEARING VINES AT HARVEST-AREA (ha)	13	9	10	11	7	9	11	10	14	10	25
TOTAL GRAPES-VINES NOT YET BEARING AT HARVEST-AREA (ha)	0	1	0	0	0	2	1	7	4	14	52
TOTAL GRAPES-WINEMAKING OR DISTILLATION-PRODUCTION (t)	0	0	1	6	0	12	33	26	73	150	174
TOTAL GRAPES-DRYING(DRIED WEIGHT)-PRODUCTION (t)	2	3	5	0	11	38	0	13	0	220	194
TOTAL GRAPES-OTHER(INCLUDING TABLE)-PRODUCTION (t)	77	35	99	108	85	57	90	30	80	70	20
SHEEP & LAMBS-TOTAL-NUMBER	316,966	322,771	363,716	351,364	325,629	330,934	300,814	240,215	275,089	269,892	227,715
TOTAL WOOL-PRODUCTION (kg)	1,962,232	1,813,232	2,188,226	2,190,267	1,918,471	2,025,833	1,745,517	1,411,025	1,615,875	1,405,054	1,317,560
TOTAL DAIRY CATTLE INCLUDING BULLS-NUMBER	877	674	619	479	482	433	457	419	425	404	325
TOTAL MEAT CATTLE INCLUDING BULLS-NUMBER	3,440	3,225	3,612	4,490	5,332	6,531	6,293	5,914	6,906	6,771	5,585
PIGS-TOTAL-NUMBER	4,925	4,720	4,796	5,184	4,913	5,497	5,895	3,702	3,080	4,393	5,468
GOATS-TOTAL-NUMBER	224	213	321	335	129	96	14	np	np	217	428
LIVE PLTY-FOWLS:HENS & PULLETS FOR EGG PROD-ON HOLDING	2,713	2,269	1,722	1,561	1,579	1,099	656	1,393	454	1,358	np
LIVE POULTRY-FOWLS:TOTAL MEAT STRAIN CHICKENS ON HOLDING	1,080	1,307	1,200	1,400	np	1,400	1,100	np	650	1,325	np
TOTAL HIVES KEPT-NUMBER	np	3,285	2,780	1,860	2,101	2,141	3,259	2,434	1,870	np	np

Chart 36

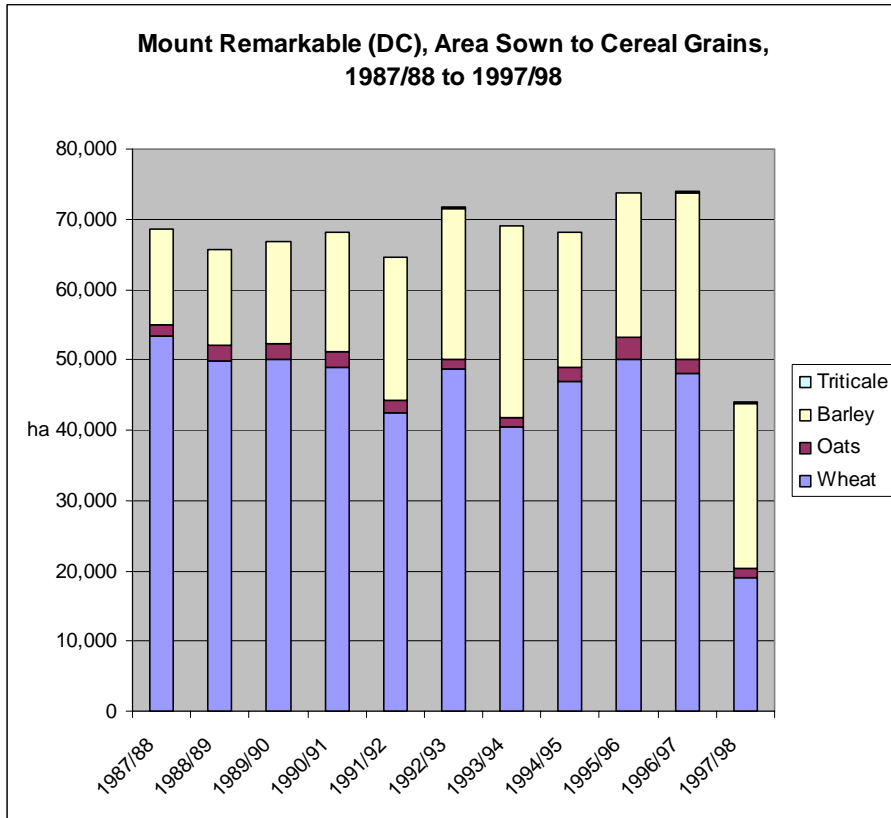


Chart 37

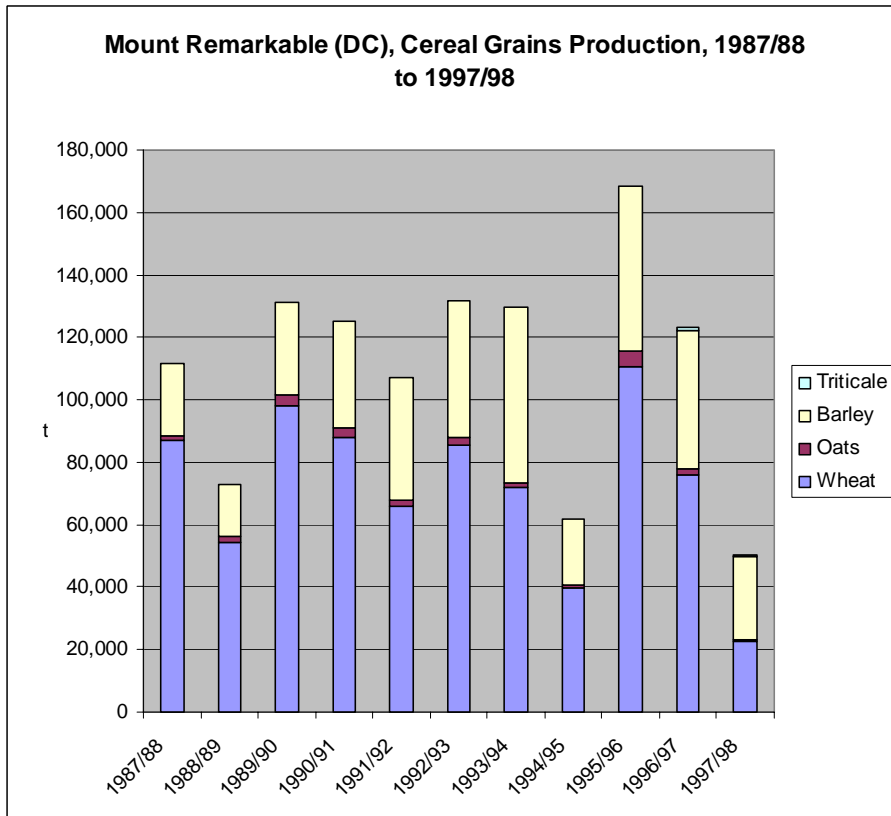


Chart 38

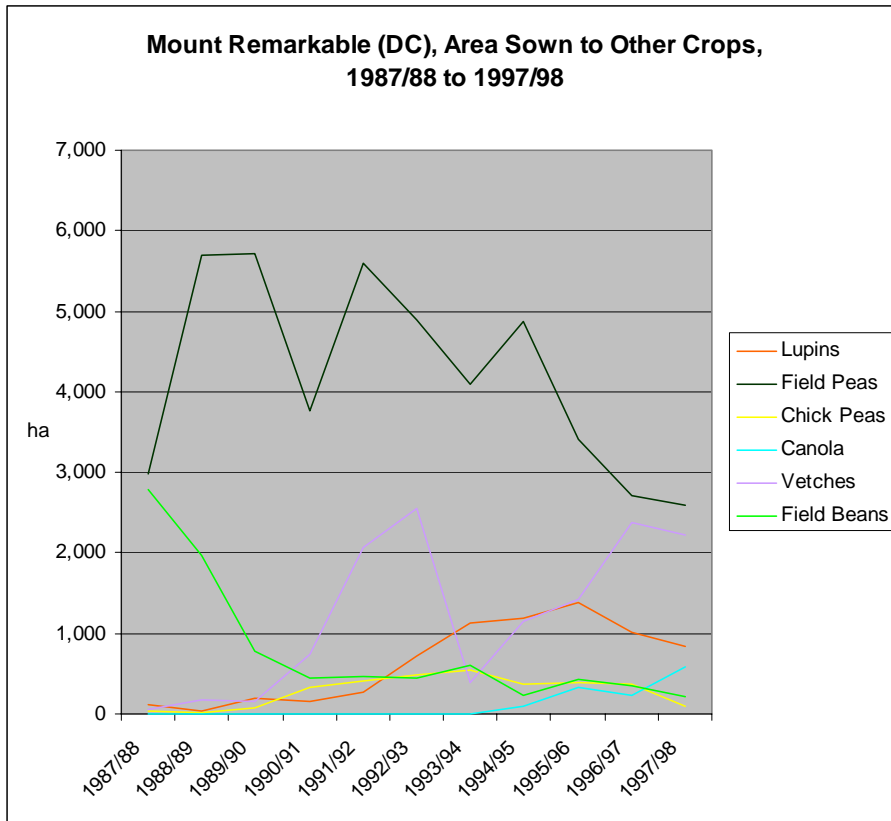


Chart 39

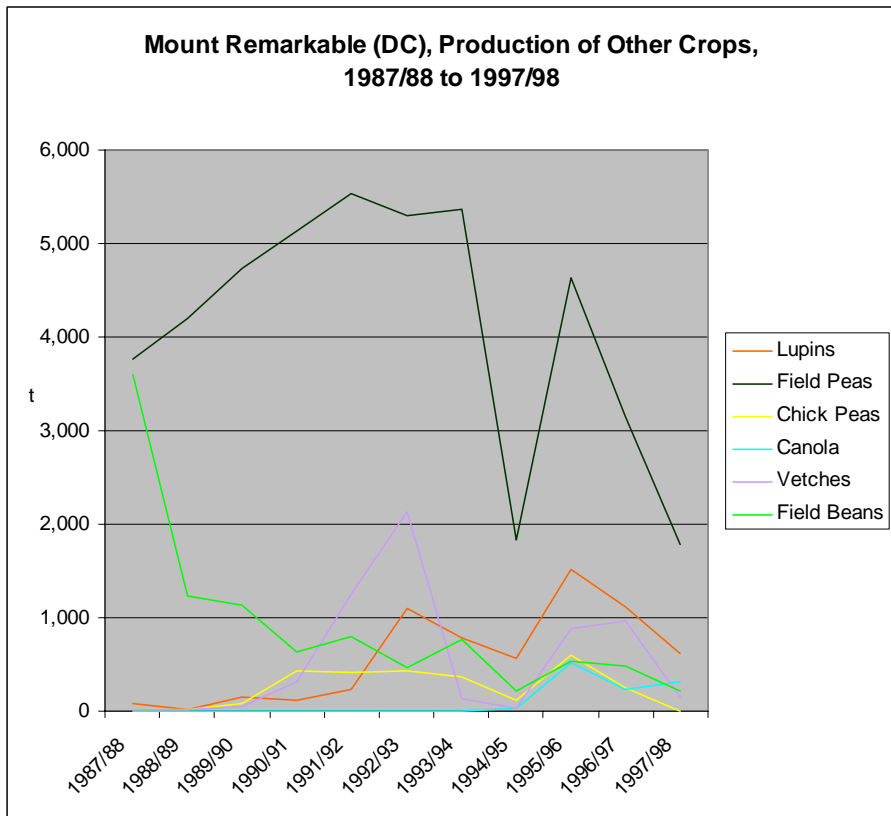


Chart 40

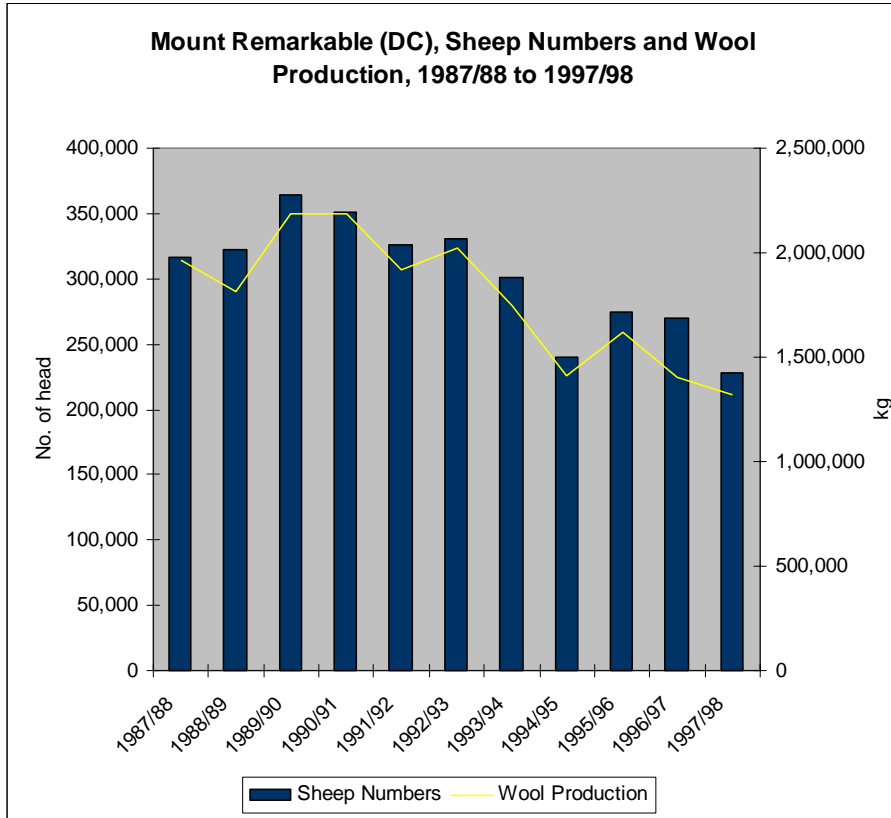


Chart 41

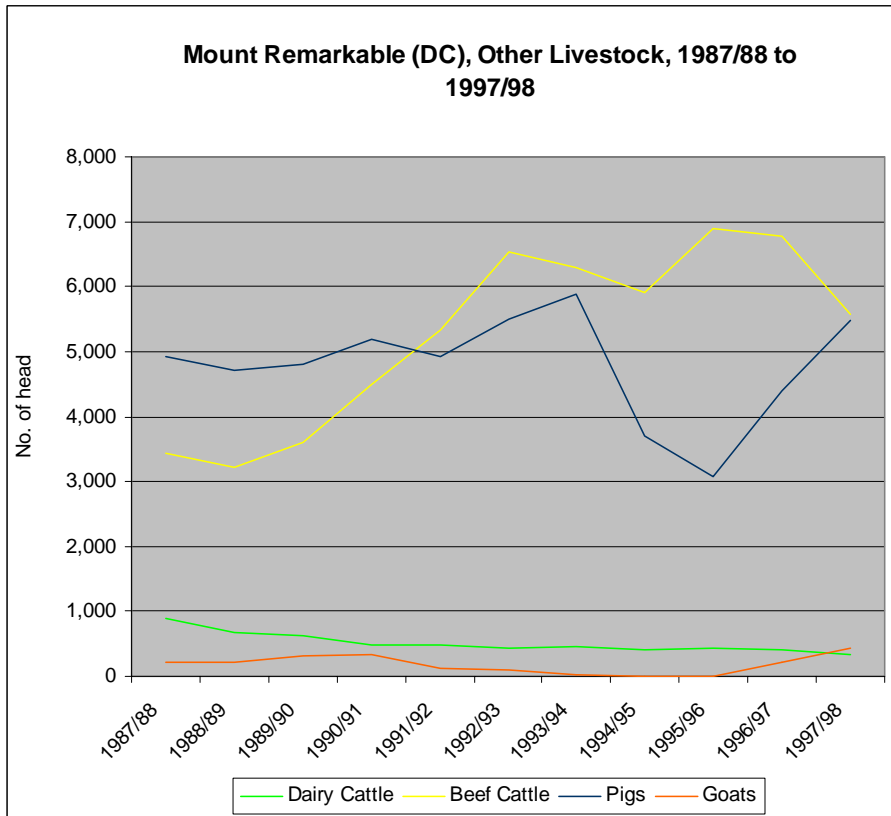


Chart 42

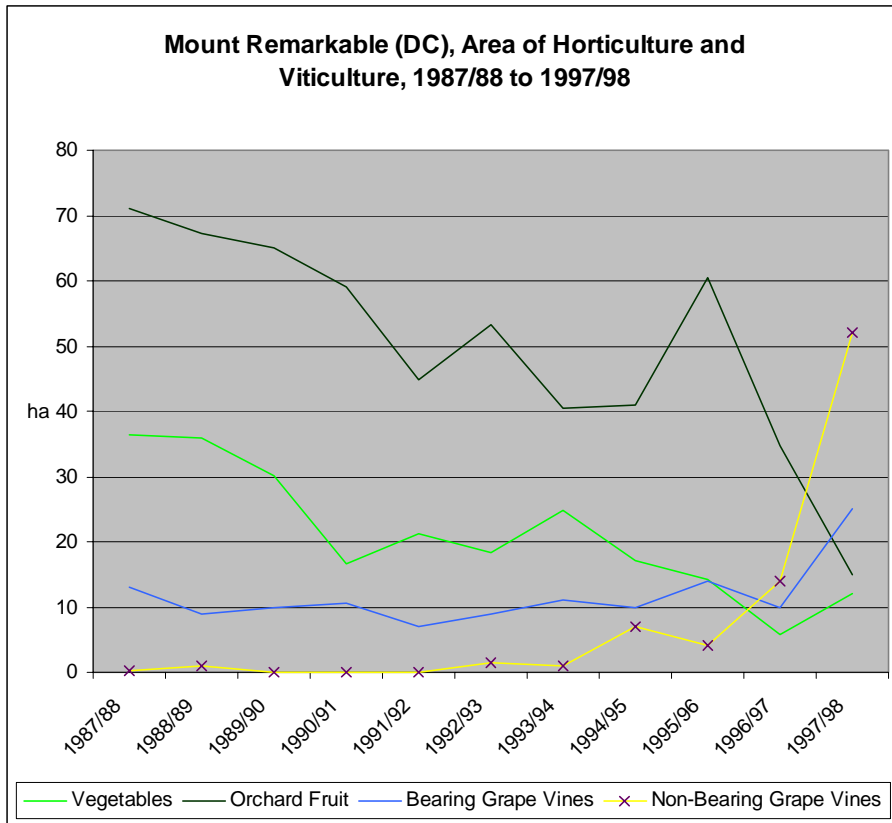
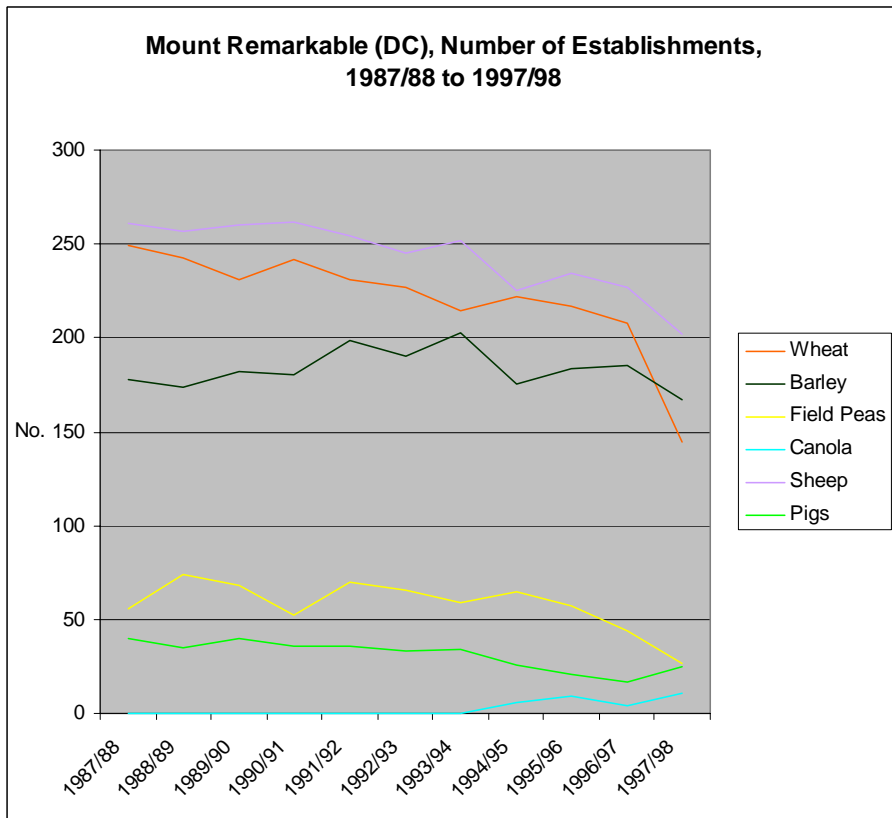


Chart 43



3.5 Agricultural Production in the Northern Areas DC, 1987/88 to 1997/98

- area sown to barley and triticale has increased, wheat area remained relatively constant though on a downward trend,
- area sown to canola and lupins increased while area sown to field peas and field beans fell, and
- sheep numbers and wool production have fallen significantly.

Table 13 Agricultural Production in the Northern Areas District Council, 1987/88 to 1997/98

	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98
PASTURES (CUT FOR HAY)-TOTAL AREA (ha)	2,762	3,039	3,838	3,132	3,958	1,376	2,830	3,319	2,850	2,936	3,455
PASTURES (CUT FOR HAY)-TOTAL PRODUCTION (t)	7,093	6,657	10,255	8,770	11,202	3,815	6,706	5,244	5,950	7,496	7,867
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL AREA (ha)	1,272	1,284	1,744	1,818	1,985	2,892	2,898	1,739	2,105	2,261	1,562
PASTURE SEED(INCLUDING PURE LUCERNE)-TOTAL PRODUCTION (t)	226,627	208,421	436,540	406,117	327,492	476,520	508,849	388,879	441,960	373,543	335,068
WHEAT FOR GRAIN-AREA (ha)	50,924	51,470	51,604	50,573	47,806	53,392	47,342	52,518	58,346	58,450	43,529
WHEAT FOR GRAIN-PRODUCTION (t)	96,682	92,608	122,165	111,845	121,209	131,230	120,687	93,778	160,632	139,934	94,014
OATS FOR GRAIN-AREA (ha)	2,427	3,616	3,548	4,052	3,522	2,305	2,772	2,709	3,421	3,057	2,697
OATS FOR GRAIN-PRODUCTION (t)	3,959	5,236	6,542	6,146	6,625	4,197	5,338	3,608	6,858	4,996	3,607
BARLEY FOR GRAIN-AREA (ha)	27,916	29,267	31,303	34,949	41,625	41,854	49,143	35,331	39,233	40,000	42,123
BARLEY FOR GRAIN-PRODUCTION (t)	55,647	50,419	68,750	74,790	103,002	86,685	121,216	64,434	102,503	87,750	83,291
TRITICALE FOR GRAIN-AREA (ha)	65	0	40	57	44	353	681	1,432	1,435	1,347	2,042
TRITICALE FOR GRAIN-PRODUCTION (t)	85	0	70	135	79	1,227	1,607	2,795	4,514	2,612	3,765
TOTAL CEREALS FOR GRAIN-AREA (ha)	81,351	84,353	86,495	89,817	92,996	97,904	99,938	np	np	102,880	90,391
TOTAL CEREALS FOR GRAIN-PRODUCTION (t)	156,391	148,263	197,528	193,293	230,915	223,338	248,847	np	np	235,372	184,677
TOTAL CEREALS FOR HAY-AREA (ha)	1,787	1,909	1,686	1,417	1,956	1,305	2,051	3,940	4,892	3,018	3,016
TOTAL CEREALS FOR HAY-PRODUCTION (t)	5,675	4,278	4,742	3,589	7,886	5,374	7,547	9,871	19,789	10,888	9,697
LUPINS FOR GRAIN-AREA (ha)	1,090	1,860	2,255	2,298	1,739	1,683	2,745	3,192	2,995	2,498	3,389
LUPINS FOR GRAIN-PRODUCTION (t)	1,135	1,717	2,653	2,479	2,746	3,480	3,684	1,865	4,859	3,994	4,419
TOTAL LEGUMES FOR GRAIN-AREA (ha)	18,228	20,693	15,423	14,711	19,128	19,724	16,984	np	np	16,064	14,334
TOTAL LEGUMES FOR GRAIN-PRODUCTION (T)	np	np	np	np	np	19,634	7,483	np	np	23,654	16,199
FIELD PEAS FOR GRAIN-AREA (ha)	11,034	12,188	9,407	8,395	11,149	9,248	7,922	8,752	8,206	6,838	5,382
FIELD PEAS FOR GRAIN-PRODUCTION (t)	13,582	14,511	11,404	11,131	15,514	7,948	13,020	8,776	13,891	10,702	7,650
CHICK PEAS-AREA (ha)	193	422	805	1,463	3,357	2,444	1,344	1,602	1,660	1,422	263
CHICK PEAS-PRODUCTION (t)	170	424	1,026	1,654	4,002	1,153	1,495	1,023	2,762	1,804	283
CANOLA-AREA (ha)	0	0	0	0	66	26	275	685	1,827	1,841	5,712
CANOLA-PRODUCTION (t)	0	0	0	0	69	28	306	511	3,301	2,662	6,235
VETCHES FOR SEED-AREA (ha)	155	459	819	764	2,036	2,382	708	439	1,137	1,973	1,017
VETCHES FOR SEED-PRODUCTION (t)	56	111	327	332	1,733	1,578	565	307	948	936	307
FIELD BEANS(TICK, HORSE, FABA)-AREA (ha)	5,912	6,223	2,956	2,552	2,869	3,805	4,213	4,138	2,850	3,137	3,424
FIELD BEANS(TICK, HORSE, FABA)-PRODUCTION (t)	8,084	5,358	3,774	3,983	4,419	5,456	6,818	2,851	5,577	5,922	2,606
VEGETABLES FOR HUMAN CONSUMPTION-AREA (ha)	0	0	0	0	0	0	0	0	0	0	0
ORCHARD FRUIT TREES-TOTAL AREA (ha)	0	3	0	0	0	4	4	0	0	0	0
TOTAL GRAPES-BEARING VINES AT HARVEST-AREA (ha)	0	0	5	5	0	0	0	0	0	1	1
TOTAL GRAPES-VINES NOT YET BEARING AT HARVEST-AREA (ha)	0	0	0	0	0	0	1	1	1	1	1
TOTAL GRAPES-WINEMAKING OR DISTILLATION-PRODUCTION (t)	0	0	5	11	0	0	0	0	0	0	0
TOTAL GRAPES-DRYING(DRIED WEIGHT)-PRODUCTION (t)	0	0	0	0	0	0	0	0	0	0	0
TOTAL GRAPES-OTHER(INCLUDING TABLE)-PRODUCTION (t)	0	0	0	0	0	0	0	0	0	0	0
SHEEP & LAMBS-TOTAL-NUMBER	441,606	483,578	520,638	475,374	463,787	448,823	434,688	366,476	399,234	365,967	317,431
TOTAL WOOL-PRODUCTION (kg)	2,625,250	2,753,609	3,322,624	3,059,429	2,702,361	2,928,530	2,584,930	2,196,542	2,392,883	2,047,331	1,775,682
TOTAL DAIRY CATTLE INCLUDING BULLS-NUMBER	173	559	507	437	481	566	482	448	472	443	456
TOTAL MEAT CATTLE INCLUDING BULLS-NUMBER	3,848	4,571	4,459	5,764	6,818	7,947	9,085	7,978	7,938	6,315	4,535
PIGS-TOTAL-NUMBER	4,720	6,897	6,200	4,981	5,895	6,488	6,566	4,577	4,537	3,520	2,662
GOATS-TOTAL-NUMBER	671	1,153	1,157	922	599	468	331	np	np	325	np
LIVE PLTY-FOWLS:HENS & PULLETS FOR EGG PROD-ON HOLDING	13,500	12,606	12,418	12,903	11,496	13,230	13,960	13,665	12,880	400	13,589
LIVE POULTRY-FOWLS:TOTAL MEAT STRAIN CHICKENS ON HOLDING	800	400	344	400	0	70	0	0	0	0	0
TOTAL HIVES KEPT-NUMBER	0	1,250	1,670	3,550	2,800	3,393	3,630	3,658	3,170	3,170	np

Chart 44

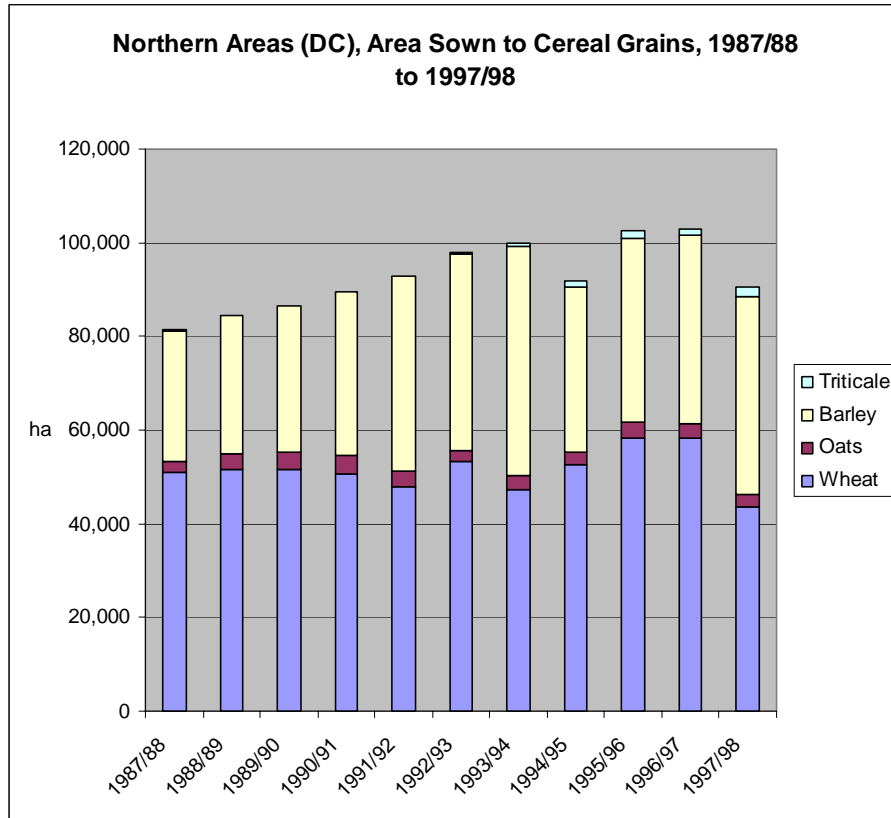


Chart 45

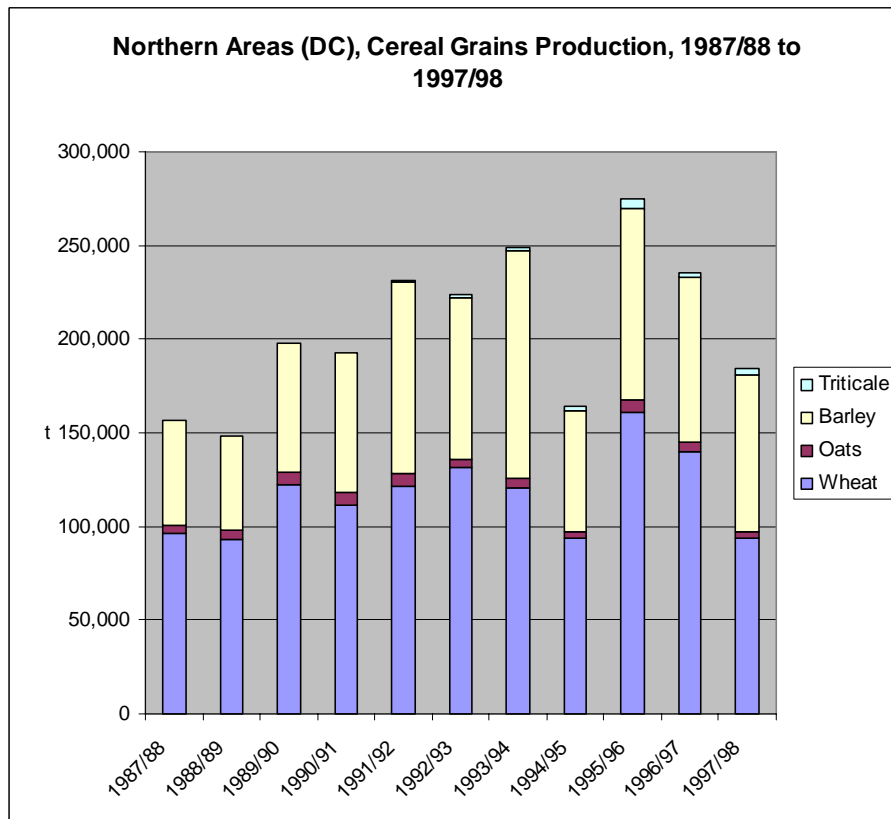


Chart 46

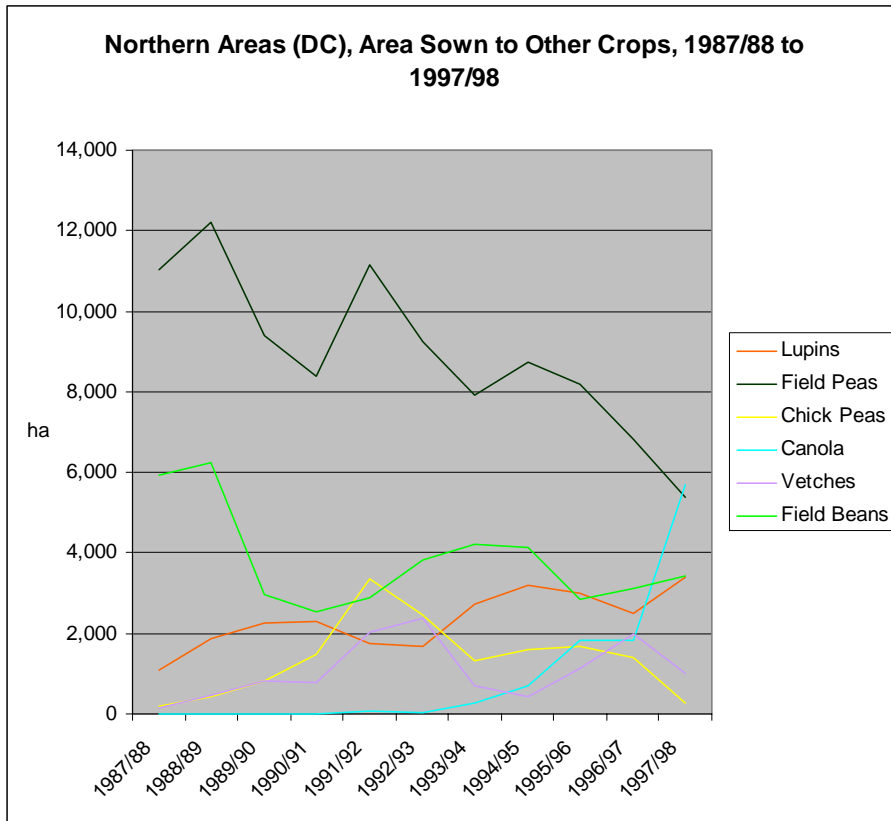


Chart 47

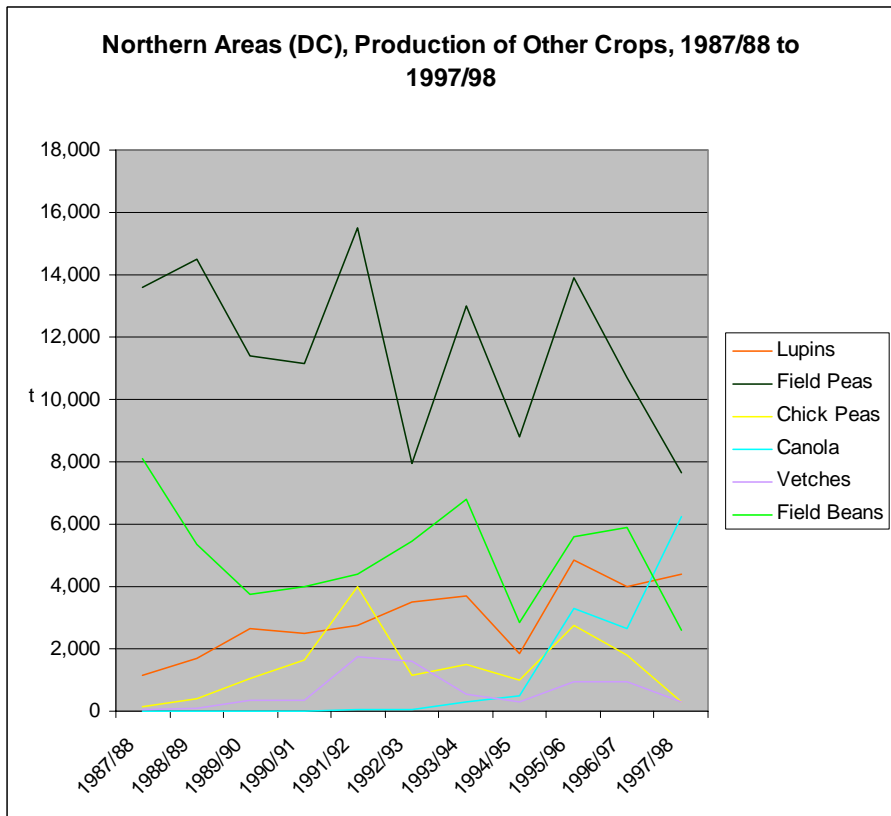


Chart 48

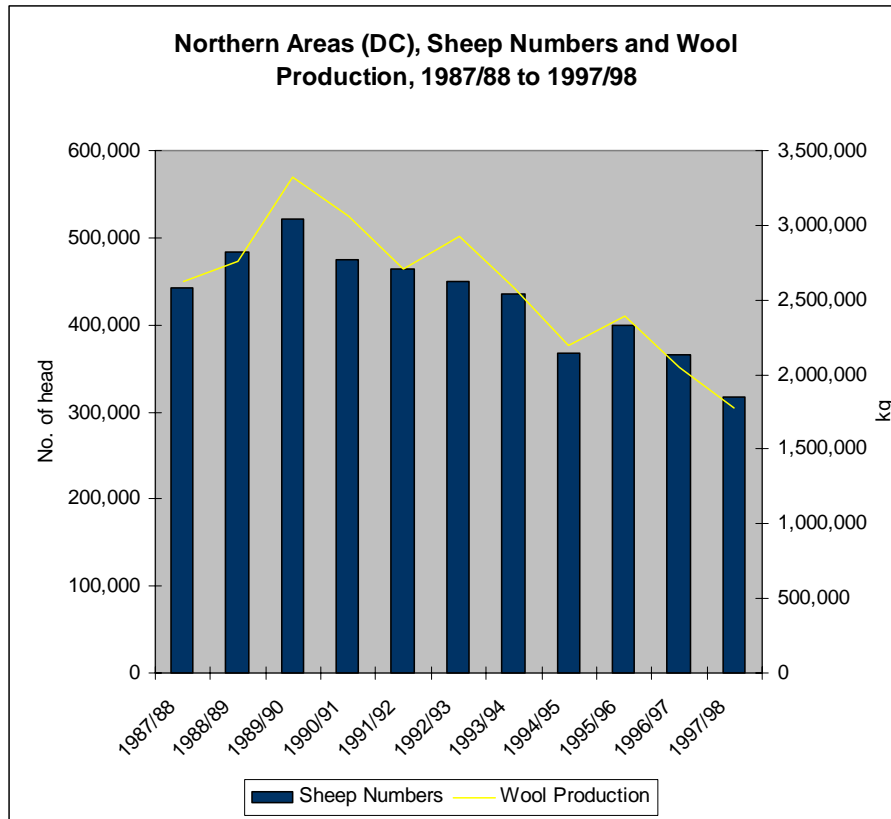


Chart 49

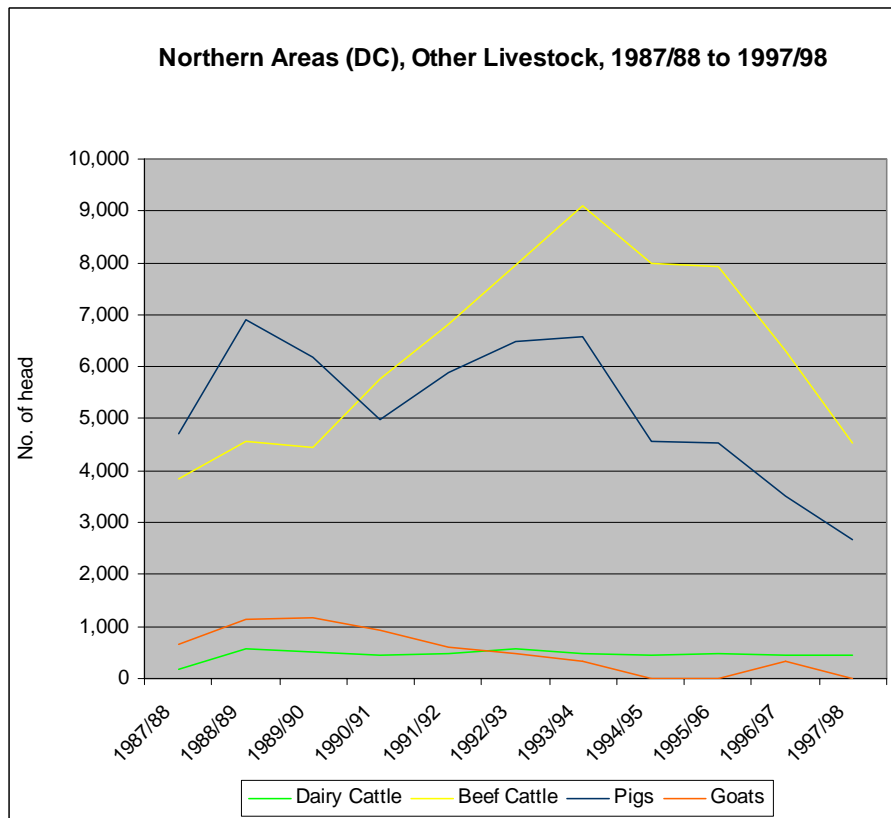


Chart 50

