

APPENDICES

Appendix 1. P.Malaysia: Per capita consumption of livestock products, 1992-2001

Livestock product	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Beef (Kg)	3.85	3.98	4.36	4.67	5.07	5.41	4.70	4.68	5.50	5.32
Mutton (Kg)	0.59	0.57	0.60	0.66	0.86	0.76	0.71	0.74	0.75	0.79
Pork (Kg)	10.65	10.59	11.24	10.42	10.48	10.74	9.83	6.93	7.67	7.44
Poultry Meat (Kg)	28.32	30.41	32.57	33.06	29.23	32.33	29.76	29.48	29.96	28.49
Poultry Eggs	339	326	329	328	332	345	317	293	270	297
Milk (Kg)	52.00	46.87	33.65	51.70	38.34	39.92	35.22	40.76	56.62	54.50

Source : Department of Veterinary Services and Animal Industry, Malaysia.

Appendix 2. Average composition of milk

	Water (%)	Protein (%)	Fat (%)	Sugar (%)	Ash (%)	Total Solids (%)
Cow	87	3.4	3.8	4.9	0.72	12
Goat	86.88	3.7	4	4.6	0.85	13
Mare	90.58	2	1.14	5.87	0.36	9.4
Ewe	84	5	4	4	0.9	16
Sow	81	6.2	7	4.75	1.1	19

TAHUN Year	DAGING LEMBU/KERBAU Beef (M.Tan) (M.Ton)	DAGING KAMBING/BEBIRI Mutton (M.Tan) (M.Ton)	DAGING BABI Pork (M.Tan) (M.Ton)	DAGING AYAM/ITIK Poultry Meat (*000 M.Tan) (*000 M.Ton)	TELUR AYAM/ITIK Chicken/Duck Eggs (Juta Bil) (Mill. Eggs)	SUSU Milk (Juta Liter) (Mill. Litre)
1992	58,619	9,035	162,282	431.60	5,165	792.35
1993	62,006	8,836	164,853	486.88	5,070	729.88
1994	69,317	9,509	178,872	518.45	5,237	535.65
1995	78,019	10,950	173,965	552.29	5,481	863.62
1996	84,335	14,306	174,405	486.59	5,521	638.32
1997	91,933	12,995	182,628	549.63	5,866	678.54
1998	81,517	12,298	170,671	516.61	5,494	611.31
1999	82,973	13,148	122,719	522.50	5,199	722.37
2000(R)	99,611	13,501	138,908	542.76	4,894	1,025.73
2001(P)	102,121	15,161	142,726	546.73	5,698	1,045.79

KUJ:SMALAY_CONS

Nota :

(R) : Revised

(P) : Provisional

Appendix 3. P. Malaysia : Consumption of livestock products, 1992-2001

JENIS DAGANGAN Type of Commodity	UNIT Kuantiti Quantity	1997		1998		1999		2000 (R)		2001 (P)	
		Kuantiti Quantity	Nilai CIF Value CIF Juta RM Mill RM	Kuantiti Quantity	Nilai CIF Value CIF Juta RM Mill RM	Kuantiti Quantity	Nilai CIF Value CIF Juta RM Mill RM	Kuantiti Quantity	Nilai CIF Value CIF Juta RM Mill RM	Kuantiti Quantity	Nilai CIF Value CIF Juta RM Mill RM
2 DAGING LEMBU Beef	M, Tan M, Tonnes	73,254.00	317.79	63,087.00	304.97	65,050.00	299.24	82,211.00	393.00	81,313.24	387.93
3 DAGING KAMBING Mutton	M, Tan M, Tonnes	12,508.00	66.21	11,840.00	69.76	12,339.00	68.72	12,686.00	72.27	15,015.00	93.93
4 BAHAN-BAHAN DAGING BABI Swine Meat	M, Tan M, Tonnes	903.00	3.49	708.00	3.43	1,411.00	7.23	1,572.00	9.57	1,807.44	13.03
5 BAHAN-BAHAN DAGING AYAM (PROSES) Poultry Meat (processed)	M, Tan M, Tonnes	6,878.00	39.58	5,396.00	35.45	15,270.00	78.12	15,931.00	79.18	22,747.76	115.93
6 SUSU DAN JASIS SUSU Milk and Milk Products	Juta Ltr. Mill Ltrs	1,080.12	970.77	896.00	972.81	1,054.02	1,014.79	1,210.06	1,153.03	1,507.48	1,414.12
7 MAKANAN TERNAKAN Animal Feeds	Juta (M,Tan) Mill (M,Tonnes)	3.88	2,162.43	2.75	2,106.21	3.37	2,123.26	2.69	1,591.05	2.72	1,660.54
8 BELUANG Raw Hide and Skin	M, Tan M, Tonnes	791.00	11.09	865.00	27.51	1,011.00	26.93	2,152.00	36.06	3,751.31	39.64
9 KULIT Leather	M, Tan M, Tonnes	6,503.00	185.17	3,514.00	167.12	5,701.00	210.04	6,092.00	244.52	6,095.60	263.96
10 TELUR AYAM/itik Chicken/Duck Eggs	Juta Bilir Mill. Eggs	3.89	0.68	0.64	0.23	3.66	1.15	5.80	1.81	14.07	3.28
11 LAIN-LAIN (Bacon, Ham, Meat Sausages, Frankfurters, dll) Others (Bacon, Ham, Meat, Sausages, Frankfurters, dll)			21.32		10.16		49.09		60.77		70.69
JUMLAH KECIL HASIL TERNAKAN Sub Total Livestock Products			3,776.53		3,677.65		3,876.57		3,441.26		4,043.05
JUMLAH BESAR Grand Total			3,939.94		3,876.42		4,034.54		3,794.06		4,264.24

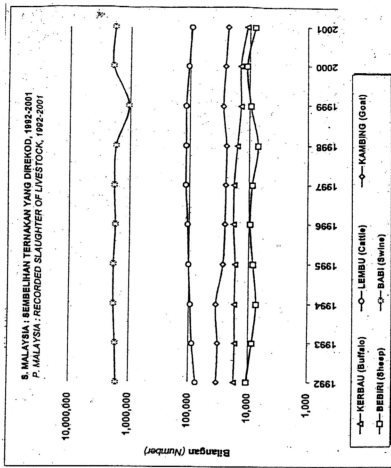
Nota :
 (R) : Revised
 (P) : Provisional
 Sumber : Jabatan Perangkaan Malaysia
 Source : Department of Statistics

Appendix 4. P. Malaysia: import of livestock and livestock products, 1997-2001

RJ : SMALY IMPORT

TAHUN Year	KERBAU Buffalo	LEMBU Cattle	KAMBING Goat	BEBIRI Sheep	BABI Swine
1992	17,225	74,751	33,116	10,636	1,611,027
1993	16,701	87,045	32,163	8,657	1,682,003
1994	17,100	93,781	34,495	7,498	1,798,226
1995	16,829	101,739	26,709	8,489	1,823,399
1996	18,061	107,144	25,093	9,600	1,717,973
1997	17,986	116,310	24,700	8,882	1,798,514
1998	15,923	116,214	24,177	7,229	1,702,661
1999	13,908	116,580	27,434	9,502	1,061,348
2000	14,109	105,452	25,407	11,116	1,912,918
2001	11,037	94,590	23,148	8,182	1,804,612

RUI : SMALAY, SEMB2

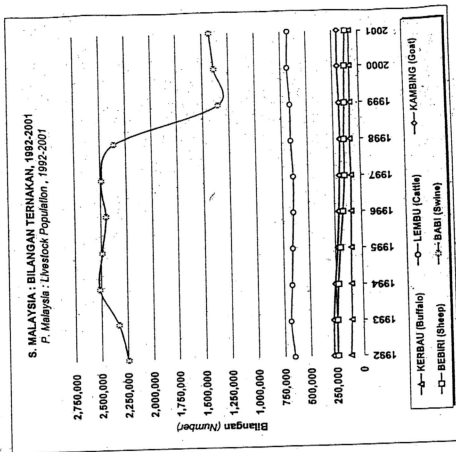


Appendix 5. P. Malaysia: Recorded slaughter of livestock, 1992-2001

TAHUN Year	KERBAU Buffalo	LEMBU Cattle	KAMBING Goat	BEBIRI Sheep	BABI Swine
1992	122,259	654,358	279,365	242,958	2,246,189
1993	110,149	689,288	277,065	244,023	2,334,747
1994	107,181	671,546	258,239	227,866	2,517,959
1995	103,027	659,065	228,589	203,624	2,491,139
1996	96,209	647,070	211,812	174,312	2,452,241
1997	91,909	643,325	200,010	154,569	2,490,667
1998	96,176	660,642	189,124	153,685	2,364,601
1999	88,163	662,015	190,539	140,292	1,355,240
2000	87,948	685,388	200,503	134,226	1,391,351
2001	84,909	676,847	197,584	120,529	1,432,613

RUI: SMOLEY BANZ

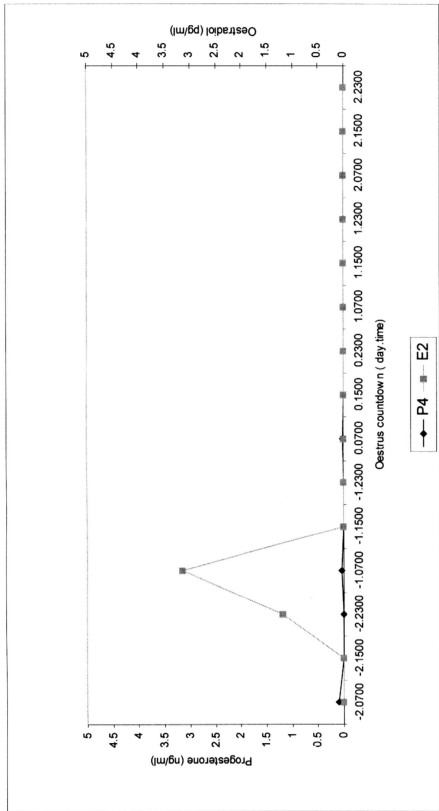
Appendix 6. P. Malaysia: Livestock population, 1992-2001



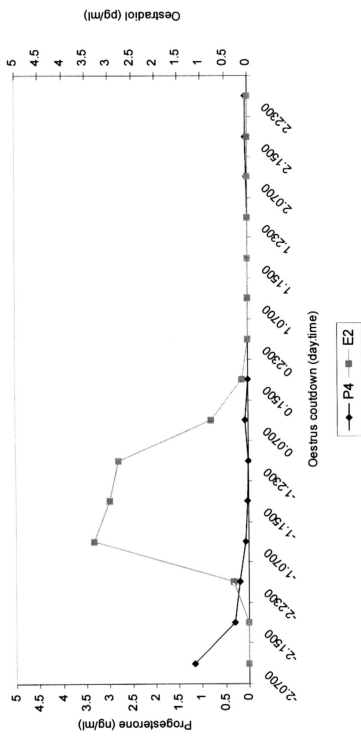
KOMODITI Commodity	JENIS Type	JANUARI January	FEBRUARI February	MARCH March	APRIL April	MAY May	JUNE June	JULAI July	OGOS August	SEPTEMBER September	OKTOBER October	NOVEMBER November	DISEMBER December	PURATA Average
AYAM KACUKAN (RM/KG) Cross Bred (RM/Kg)	HDUP (Live)	4.52	4.52	4.52	4.37	4.38	4.62	4.42	4.18	4.24	4.17	4.28	4.34	4.39
AYAM KAMPONG (RM/KG) Local Fowl (RM/Kg)	BETINA (Female)	9.14	9.29	8.36	8.56	8.39	9.23	8.96	9.10	9.15	9.19	9.40	9.54	9.05
AYAM PROSES (RM/KG) Processed Chicken (RM/Kg)	SEMBELHAN (Slaughtering)	5.28	5.31	5.31	5.01	5.08	5.08	4.95	4.75	4.92	4.77	4.85	4.99	5.03
BIRI-BIRI IMPORT (RM/KG) Imported Mutton (RM/Kg)	PEJAL (Lean)	10.07	10.47	10.53	10.50	10.41	10.72	10.89	10.83	10.62	10.06	10.01	10.19	10.44
DAGING KAMBING (RM/KG) Mutton (RM/Kg)	TEMPATAN (Local)	17.89	17.69	17.86	18.23	18.55	18.52	18.48	18.55	18.50	18.48	18.67	18.64	18.35
DAGING LEMBU (RM/KG) Beef (RM/Kg)	TEMPATAN (Local)	14.61	14.49	14.72	14.73	14.76	14.75	14.96	15.15	15.11	15.15	15.07	14.98	14.87
DAGING LEMBU IMPORT (RM/KG) Imported Beef (RM/Kg)	IMPORT INDIA (NO. 1) (Imported Indian No. 1)	7.88	7.88	7.99	8.09	7.81	7.75	7.63	7.82	7.87	7.94	7.71	7.83	7.85
DAGING LEMBU IMPORT (RM/KG) Imported Beef (RM/Kg)	IMPORT INDIA (NO. 2) (Imported Indian No. 2)	6.34	6.32	6.50	6.46	6.46	6.39	6.40	6.49	6.58	6.65	6.44	6.35	6.45
TELUR AYAM (SEN/BUJ) Chicken Egg (Cent/Egg)	GED A GED B GED C	20 19 18	20 19 18	20 19 18	20 19 18	20 19 17	21 20 19	22 21 20	20 19 18	20 19 18	20 19 18	20 19 18	20 19 18	20 19 18
TELUR ITIK (SEN/BUJ) Duck Egg (Cent/Egg)	BESAR (Large) SEDANG (Medium)	38 34	36 34	38 30	38 31	36 29	35 27	35 28	34 31	36 33	37 32	36 33	36 33	36 32
TELUR MASIN MERAH (SEN/BUJ) Salted Egg (Cent/Egg)		45	41	42	44	40	43	41	44	46	47	44	46	44
TELUR PUYUH (SEN/BUJ) Quail Egg (Cent/Egg)	SEDANG (Medium)	9	9	7	7	7	8	9	9	9	14	9	9	9

SUMBER : FAMA - Waria Barangan 2001 Source : FAMA
RUJ : FAMA-RUPCT

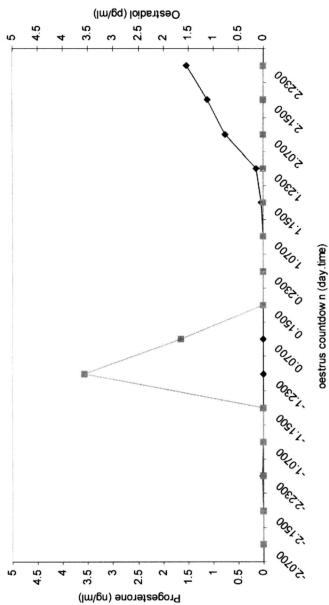
Appendix 7. P. Malaysia: Retail price of livestock products, 2001



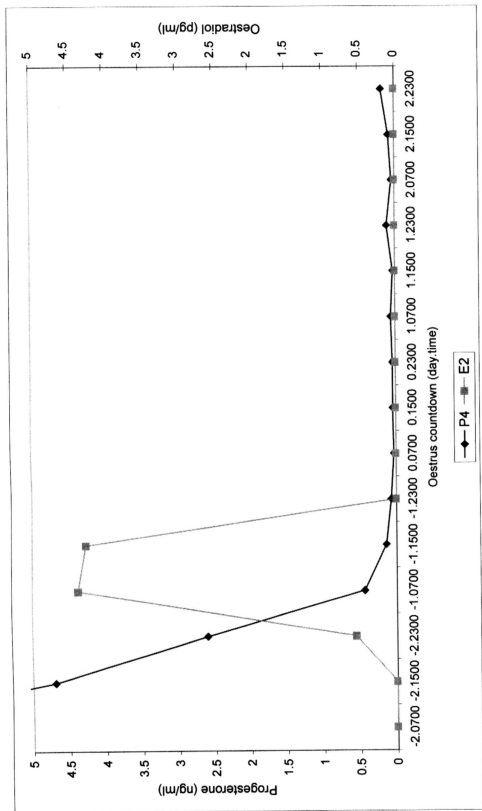
Appendix 8. Progesterone and oestradiol levels in individual 1



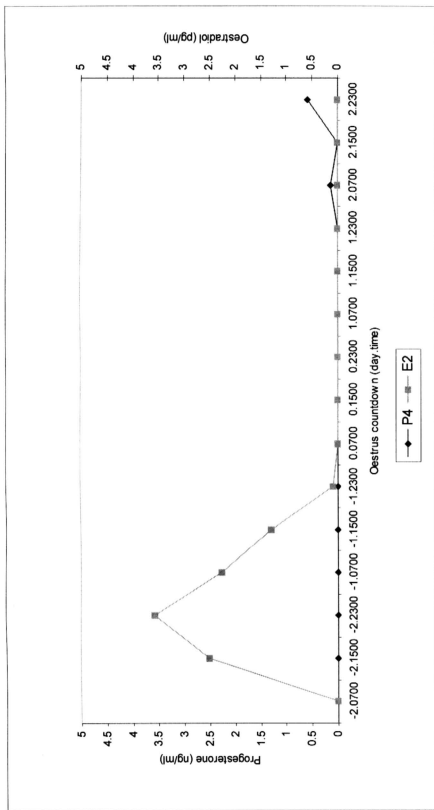
Appendix 9. Progesterone and oestradiol levels in individual 2



Appendix 10. Progesterone and oestradiol levels in individual 3



Appendix 11. Progesterone and oestradiol levels in individual 4



Appendix 12. Progesterone and oestradiol levels in individual 5