

Appendix 1 Sheep population in Peninsular Malaysia in 2003

State	Male		Female	Total Sheep Population	
	< 6 mths	> 6 mths	< 6 mths	< 6 mths	> 6 mths
Perlis	0	2	43	43	2
Kedah	329	3425	3402	13599	19032
Pulau Pinang	124	100	162	394	257
Perak	187	304	736	1304	2106
Selangor	607	310	972	1378	2106
N. Sembilan	2413	1234	3732	1837	3730
Malaka	967	1635	2004	1070	2082
Johor	57	4909	3297	1111	4539
Pahang	1254	1320	3730	2543	3934
Terengganu	434				
Kelantan	757				
W. Pahang	0	0	0	0	0
Sumatra					
Total	7120	7040	9404	32203	44342

Source: Department of Veterinary Services, Malaysia. Last updated on Jan 2004

Appendix 1 Sheep population in Peninsular Malaysia in 2002

State	Male			Female			Total Sheep Population		
	< 6	> 6		< 6	> 6		< 6	> 6	
	mth	mth	Total	mth	mth	Total	mth	mth	Total
Perlis	600	291	891	933	722	1655	1533	1013	2546
Kedah	5254	5425	10679	5482	11509	16991	10736	16934	27670
P.Pinang	124	102	226	163	264	427	287	366	653
Perak	482	508	990	796	1304	2100	1278	1812	3090
Selangor	662	310	972	1378	728	2106	2040	1038	3078
N.Sembilan	2413	1299	3712	1837	3730	5567	4250	5029	9279
Melaka	967	1035	2004	1070	2083	3153	2039	3118	5157
Johor	797	6500	7297	1111	4539	5650	1908	11039	12947
Pahang	1759	1820	3579	2543	3934	6477	4302	5754	10056
Terengganu	636	616	1152	1132	2300	3432	1768	2816	4584
Kelantan	7571	9001	16572	9653	13430	23083	17224	22431	39655
W. Perse kutuan	0	0	0	0	0	0	0	0	0
Total	21267	26807	48074	26098	44543	70641	47365	71350	118715

Source: Department of Veterinary Services, Malaysia – Last updated on Jan 2004

Appendix 2 Total Livestock Population 1970 – 2002 in Peninsular Malaysia

Year	Buffalo	Cattle	Goat	Sheep	Swine
1970	233,040	301,220	332,520	38,180	725,440
1971	214,572	317,011	321,856	37,257	742,098
1972	204,900	330,121	310,230	39,780	732,980
1973	200,780	334,480	303,620	40,930	744,870
1974	204,000	363,270	310,380	42,980	789,990
1975	212,705	380,346	328,590	45,495	1,157,115
1976	211,914	411,910	332,467	47,017	1,308,265
1977	211,408	428,270	332,000	51,544	1,186,495
1978	216,187	455,475	324,252	55,245	1,201,857
1979	199,883	462,090	321,802	62,624	1,217,152
1980	199,492	481,424	312,069	59,283	1,392,854
1981	180,064	498,374	309,217	64,783	1,485,968
1982	179,636	503,051	286,456	61,380	1,372,090
1983	163,051	518,316	274,492	69,732	1,463,308
1984	166,626	556,420	288,989	68,371	1,560,200
1985	163,359	552,675	273,586	78,035	1,673,044
1986	141,934	559,582	258,101	90,359	1,591,529
1987	143,766	579,736	269,113	128,383	1,768,523
1988	139,674	586,408	277,900	148,159	1,624,406
1989	135,260	607,414	283,240	181,002	1,887,610
1990	129,517	614,498	281,759	199,909	2,242,055
1991	127,850	637,461	284,257	234,901	2,257,462
1992	122,259	654,358	279,365	242,958	2,246,189
1993	110,152	689,288	277,065	244,023	2,334,747
1994	105,213	675,750	258,220	227,800	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
2002	79,837	663,468	196,777	118,715	1,486,708

Source: Department of Veterinary Services, Malaysia – Last updated on Jan 2004

Year	Genotypes	Age groups (days)							Total
		1	2-30	31-60	61-90	91-180	181-270	271-360	
1990	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	-	-	-	-	-
	F ₁	-	-	-	-	-	-	-	-
	F ₂	-	-	-	-	-	-	-	-
	F ₃	-	-	-	-	-	-	-	-
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	-	-	-	-	-	-	-	-
Total		0	0	0	0	0	0	0	0
1991	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	-	-	-	-	-
	F ₁	-	-	-	-	-	-	-	-
	F ₂	-	-	-	-	-	-	-	-
	F ₃	-	-	-	-	-	-	-	-
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	-	-	-	-	-	-	-	-
Total		0	0	0	0	0	0	0	0
1992	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	-	-	-	-	-
	F ₁	-	-	-	-	1	-	-	1
	F ₂	-	-	-	1	1	-	-	2
	F ₃	-	-	-	-	-	-	-	-
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	-	-	-	-	-	-	-	-
Total		0	0	0	1	2	0	0	3
1993	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	1	-	-	-	1
	F ₁	-	-	-	-	-	1	-	1
	F ₂	-	-	-	-	-	-	-	-
	F ₃	-	-	-	-	-	-	-	-
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	-	-	-	-	-	-	-	-
Total		0	0	0	1	0	0	1	2
1994	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	-	-	-	-	-
	F ₁	-	-	-	-	-	-	-	-
	F ₂	1	-	1	-	-	-	-	2
	F ₃	-	-	-	-	-	-	-	-
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	-	-	-	-	-	-	-	-
Total		1	0	1	0	0	0	0	2

Appendix 3 (cont.) Number of lamb mortality by genotypes, year of birth and the age groups

Year	Genotypes	Age groups (days)							Total
		1	2-30	31-60	61-90	91-180	181-270	271-360	
1995	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	-	-	-	-	-
	F ₁	-	-	-	-	-	-	-	-
	F ₂	4	-	-	-	-	-	-	4
	F ₃	-	-	-	-	-	-	-	-
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	1	-	-	-	-	-	-	1
Total		5	0	0	0	0	0	0	5
1996	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	-	-	-	-	-
	F ₁	-	-	-	-	-	-	-	-
	F ₂	-	-	-	-	1	1	-	2
	F ₃	1	-	-	1	2	1	-	5
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	-	-	-	-	-	-	-	-
Total		1	0	0	1	3	2	0	7
1997	C	-	-	-	-	-	-	-	-
	TLT	-	-	-	-	-	-	-	-
	F ₁	-	-	-	-	-	-	-	-
	F ₂	-	-	-	-	-	-	-	-
	F ₃	-	-	-	-	2	2	-	4
	BC ₁	-	-	-	-	-	-	-	-
	BC ₂	-	-	-	1	-	-	-	1
Total		0	0	0	1	2	2	0	5
TO-TAL		7	0	1	4	7	4	1	24

- C = Cameroon
 TLT = Thai Long Tail
 F₁ = Cameroon x Thai Long tail
 F₂ = F₁ x F₁
 F₃ = F₂ x F₂
 BC₁ = F₁ male x TLT female
 BC₂ = TLT male x F₁ female