

Appendix - 5 : Individual data on animals of Experiment 5.

(A) At the end of phase I.

Animal No.	Initial body weight (g)	Final body weight (g)	Body weight gain 5-9 weeks	Blood hemo-globin g/100 ml	Fat hemo (mg)	Dry bone (mg)	Ash weight (mg)	Calcium content (mg)	Phosphorus content (mg)
1	2	3	4	5	6	7	8	9	10
3 weeks at start, 100 mg Ca per 100 g. diet									
1	45	112	67	11.8	389	193	89	31.7	15.6
2	46	123	77	11.5	368	176	97	31.2	14.9
3	47	143	96	10.1	392	191	90	32.5	14.6
4	45	135	90	9.8	371	186	85	30.5	13.9
5	48	112	64	11.3	373	190	86	31.0	14.5
6	45	132	87	10.4	401	199	94	34.0	15.9
3 weeks at start, 440 mg Ca per 100 g. diet									
7	50	180	130	12.2	423	213	103	37.2	17.6
8	51	182	131	11.1	458	240	115	41.2	19.3
9	45	163	118	12.7	451	231	107	38.8	17.7
10	43	171	128	13.2	482	235	119	43.4	11.2
11	45	168	123	11.7	439	221	109	39.5	19.4
12	44	161	117	12.9	448	232	112	40.4	19.5

contd...

Appendix - 5A: contd.

1	2	3	4	5	6	7	8	9	10
<u>3 weeks at start 600 mg Ca per 100g. diet</u>									
13	47	123	76	12.0	452	230	110	39.3	18.7
14	45	132	87	12.0	463	239	114	39.9	19.7
15	48	135	87	12.8	470	243	117	41.9	19.8
16	45	140	95	13.7	448	226	116	42.0	19.1
17	44	121	77	11.6	468	244	111	40.9	19.4
18	43	132	89	13.1	471	257	113	41.9	19.9
<u>13 weeks at start 100 mg Ca per 100 g. diet</u>									
19	280	316	36	11.5	641	408	242	85.7	41.1
20	276	318	42	12.2	639	420	236	84.5	40.4
21	268	317	49	12.4	642	414	239	85.6	38.5
22	379	320	41	13.5	651	425	248	88.5	41.9
23	293	328	35	10.3	660	422	246	88.8	43.1
24	295	330	35	12.1	632	406	239	86.5	42.1

contd...

Appendix - (5A: contd.

1	2	3	4	5	6	7	8	9	10
<u>13 weeks at start 440 mg Ca per 100 g. diet</u>									
25	290	361	71	11.7	671	446	262	92.5	45.1
26	282	360	78	12.5	660	434	256	91.7	43.0
27	276	365	90	12.6	681	458	265	97.8	47.4
28	293	360	67	13.1	711	471	281	102.0	46.4
29	285	360	75	11.4	690	453	277	97.5	44.9
30	288	370	82	11.2	713	471	270	96.7	45.2
<u>13 weeks at start 600 mg Ca per 100 g. diet</u>									
31	290	360	70	11.5	707	465	272	95.2	46.2
32	295	367	72	12.3	682	443	267	94.3	44.3
33	280	366	88	12.4	702	405	270	97.7	44.6
34	285	370	85	12.9	671	445	270	95.0	45.4
35	296	361	65	11.2	652	432	264	92.1	44.4
36	281	373	92	11.0	660	432	257	90.7	42.4

contd...

Appendix - 5A: contd.

1	2	3	4	5	6	7	8	9	10
<u>26 weeks of age 100 mg Ca per 100 g. diet</u>									
73	384	386	2	12.2	831	561	340	120.0	58.5
74	377	375	-24	10.4	811	553	333	116.2	59.3
75	398	392	-6	11.6	812	551	331	119.5	53.6
76	382	380	-2	12.3	818	550	340	121.7	57.1
77	383	378	-7	12.0	821	553	328	117.1	52.2
78	378	377	-1	12.6	815	549	330	118.5	55.1
<u>26 weeks of age 440 mg Ca per 100 g. diet</u>									
79	384	421	37	12.9	820	557	337	117.6	55.6
80	392	421	29	12.6	813	555	329	116.1	52.6
81	376	408	32	11.2	833	561	349	123.6	55.1
82	395	424	29	10.9	815	555	328	115.1	56.1
83	389	422	33	12.4	824	560	346	123.9	56.1
84	382	412	30	11.5	803	542	333	118.6	57.6

contd... 426

Appendix - 5A: contd.

1	2	3	4	5	6	7	8	9	10
<u>26 weeks of age 600 mg Ca per 100 g. diet</u>									
85	389	410	21	13.7	808	552	335	117.3	56.3
86	392	418	26	11.5	831	569	337	115.6	57.6
87	375	412	37	12.9	829	552	338	119.3	57.5
88	372	412	40	12.5	815	549	334	118.9	57.5
89	388	420	32	11.2	832	562	348	124.6	55.3
90	393	420	27	12.0	840	573	341 ^q	118.7	55.6
<u>52 weeks of age 100 mgCa per 100 g. diet</u>									
91	491	507	16	14.1	1020	712	443	156.4	70.4
92	493	507	14	13.8	1131	791	500	174.5	81.5
93	482	499	17	12.0	1076	796	476	172.3	80.0
94	512	525	13	13.5	1062	768	455	160.6	76.0
95	509	526	17	12.6	1105	737	463	164.4	76.4
96	520	540	20	12.7	1190	722	510	182.6	87.7

Appendix - (5A) contd.

1	2	3	4	5	6	7	8	9	10
52 weeks of age 440 mg Ca per 100 g. diet									
97	517	536	19	13.6	1009	705	434	152.3	73.3
98	520	533	13	13.1	1182	783	499	175.7	82.8
99	511	524	13	11.8	1108	759	485	167.8	83.9
100	520	532	12	11.5	1093	751	465	166.5	73.9
101	499	518	19	11.1	1088	742	455	164.3	78.3
102	486	516	28	13.3	1050	730	447	159.6	78.7
52 weeks of age 660 mg Ca per 100 g. diet									
103	519	543	24	13.8	1033	713	443	154.2	75.8
104	501	530	29	13.5	1121	789	460	167.9	74.6
105	499	531	32	12.1	1131	792	482	168.2	83.4
106	486	528	42	11.8	1098	771	473	167.9	80.9
107	511	532	21	13.8	1081	746	463	164.4	76.4
108	513	543	30	12.5	1059	732	458	164.0	76.9

Appendix - B: Individual data on animals of Experiment 5.

(B) At the end of phase II.

Animal No.	Initial body weight (g)	Final body weight (g)	Body weight gain 5 - 9 weeks	Blood hemo-globin g/100 ml	Wet bone (mg)	Dry bone (mg)	Ash weight (mg)	Calcium content (mg)	Phosphorus content (mg)
1	2	3	4	5	6	7	8	9	10
<u>3 weeks at start, 100 mg Ca per 100 g. diet</u>									
37	139	195	56	13.3	591	359	216	75.4	35.6
38	120	190	70	12.6	580	346	208	73.2	34.9
39	158	211	53	12.1	598	355	212	76.7	35.8
40	176	217	217	10.0	602	353	222	79.3	38.4
41	162	220	220	10.6	569	330	201	71.4	35.8
42	163	225	225	12.8	578	352	208	74.4	35.4
<u>3 weeks at start, 440 mg Ca per 100 g. diet</u>									
43	201	271	70	13.0	640	408	245	85.5	42.2
44	203	282	74	12.3	632	396	233	82.0	39.4
45	211	276	65	12.7	658	422	245	86.0	44.3
46	218	276	58	11.8	662	424	260	92.8	46.3
47	198	262	64	12.4	638	399	243	87.7	41.6
48	196	254	58	12.9	671	410	254	90.2	41.9

Appendix - 56: contd.

1	2	3	4	5	6	7	8	9	10
<u>3 weeks at start 600 mg Ca per 100 g. diet</u>									
49	201	269	68	12.8	630	395	247	87.9	42.5
50	206	291	75	12.7	639	399	246	87.8	43.1
51	186	251	65	11.4	680	418	266	95.2	44.7
52	169	253	84	13.1	670	418	254	86.7	41.9
54	214	286	72	13.9	661	405	243	87.5	42.6
<u>13 weeks at start 100 mg Ca per 100 g. diet</u>									
55	338	396	52	11.8	700	461	267	94.5	47.3
56	330	392	62	12.9	705	477	267	93.7	46.7
57	334	398	64	13.0	720	475	273	95.0	47.0
58	328	397	69	12.2	715	476	272	96.8	44.9
59	335	379	44	11.2	721	474	282	100.7	47.4
60	351	401	50	12.8	711	466	273	94.7	46.1

contd...

Appendix -- () : contd.

	1	2	3	4	5	6	7	8	9	10
<u>13 weeks at start 440 mg Ca per 100 g. diet</u>										
61	376	406	32	11.8	718	481	284	99.7	48.9	
62	375	416	41	11.8	720	477	280	97.7	47.3	
63	380	413	33	12.6	722	490	290	102.4	47.6	
64	381	415	34	13.5	741	495	296	105.1	47.1	
65	383	405	22	11.4	731	484	292	104.0	52.0	
66	391	420	29	12.9	725	484	279	100.7	49.7	
<u>13 weeks at start 600 mg Ca per 100 g. diet</u>										
67	369	401	32	11.6	723	484	292	99.6	48.5	
68	373	417	44	12.4	729	490	287	162.8	50.2	
69	381	410	38	12.5	708	469	275	76.0	48.1	
70	378	420	42	13.0	721	475	291	104.2	52.7	
71	375	421	46	11.3	750	501	301	107.5	51.2	
72	388	430	42	11.1	738	487	257	91.0	42.4	

Appendix - (50): contd.

1	2	3	4	5	6	7	8	9	10
<u>26 weeks at start 100 mg Ca per 100 g diet</u>									
109	398	407	9	13.7	871	596	355	125.3	58.6
110	396	410	14	12.6	880	593	363	130.7	57.4
111	395	413	18	10.5	862	597	367	131.4	59.8
112	385	404	19	11.7	820	568	343	120.4	57.6
113	380	405	25	12.3	856	586	358	127.1	61.2
114	385	411	26	12.4	870	589	365	130.7	61.7
<u>26 weeks at start 440 mg Ca per 100 g diet</u>									
115	413	430	17	13.3	881	602	366	128.8	61.9
116	421	433	12	12.9	865	598	363	128.5	59.9
117	425	432	10	11.5	852	585	367	127.3	58.4
118	410	431	21	11.2	843	573	344	118.7	55.7
119	425	442	16	12.9	870	589	362	128.9	62.2
120	414	429	24	11.0	868	592	383	138.3	66.3

Appendix - 57: contd.

1	2	3	4	5	6	7	8	9	10
<u>26 weeks at start 600 mg Ca per 100 g. diet</u>									
121	422	435	13	12.3	893	606	378	131.9	62.4
122	413	433	20	11.2	901	610	386	136.3	64.1
123	415	432	17	12.8	872	596	365	128.1	62.4
124	408	430	22	13.3	801	580	347	120.1	54.8
125	426	443	17	11.8	865	589	345	123.5	56.2
126	431	449	18	13.0	880	598	363	129.6	59.2
<u>52 weeks at start 100 mg Ca per 100 g. diet</u>									
127	519	530	11	14.3	1052	5768	461	164.1	79.3
128	531	534	3	13.2	1065	740	468	160.5	74.4
129	532	541	9	11.1	1078	763	486	175.5	75.8
130	528	538	10	12.3	1102	773	493	176.5	81.5
131	535	543	8	12.0	1081	719	455	162.4	76.9
132	515	523	8	13.0	1010	697	444	159.4	73.7

contd....

Appendix - 5: contd.

1	2	3	4	5	6	7	8	9	10
<u>52 weeks at start 440 mg Ca per 100g. diet</u>									
133	503	324	21	12.6	1031	723	446	101.0	75.4
134	508	534	26	11.4	1090	760	474	165.9	74.9
135	544	562	18	13.3	1110	770	484	166.0	78.4
136	515	536	21	13.4	1078	735	475	162.0	79.5
138	538	550	12	14.6	1052	741	487	172.2	81.1
<u>52 weeks at start 600 mg Ca per 100 g. diet</u>									
139	513	532	19	12.2	1102	768	476	167.1	78.5
140	520	533	13	12.2	1032	714	441	155.7	69.7
141	520	540	20	13.0	1110	767	480	169.6	78.7
142	543	562	10	13.9	1201	829	531	189.0	90.8
143	545	566	21	11.6	1130	793	496	177.1	85.3
144	548	563	15	13.3	1082	752	479	171.5	80.5