

### Appendix I - Chemical Analyses of Soils

Soils were sampled during mid November, 1965 and mid January, 1966. Analytical methods are discussed in Appendix IV.

For field texture S = sand, LS = loamy sand, SL = sandy loam, SCL = sandy clay loam, LC = light clay, C = clay, HC = heavy clay, Gr = gravelly.

Lab. No. 65/	Depth in.	Field Text.	pH	E.C. μ mho/cm 20° C	Cl %
<b>Site 3. Upper slope of dune. Water table 96". Lucerne, skeleton weed, saffron thistle.</b>					
1219	0-3	SL	8.8	82	0.002
1220	3-6	SL	8.9	95	0.004
1221	10-12	SCL	8.9	120	0.005
1222	16-18	SCL	8.8	180	0.009
1223	22-24	SCL	9.0	140	0.003
1224	28-30	SCL	9.0	170	0.007
1225	34-36	SL	9.3	140	0.002
1228	70-72	SL	9.7	280	0.009
1388	172-174	SC	9.9	410	0.004
<b>Site 4. Lower S. slope of dune. Water table at 50". Barrel Medic, <i>M. minima</i>, barley grass, <i>Stipa</i>, skeleton weed, stinkwort.</b>					
1203	0-3	SL	8.4	71	0.003
1204	5-8	LS	8.7	51	0.003
1205	9-12	LS	8.8	49	0.002
1207	21-24	LS	9.4	95	0.002
1208	33-36	SL	9.7	200	0.003
1212	71-73	SCL	9.9	360	0.004
1217	130-132	HC	9.6	720	0.037
<b>Site 5. N. side of interdune flat. Water table at 30". Bare saltpan.</b>					
1232	0-2	SC	9.1	8,900	1.45
1233	3-6	LC	9.4	3,500	0.53
1234	9-12	GrLC	9.5	2,400	0.35
1236	21-24	GrC	9.3	2,400	0.35
1237	30-33	GrC	9.2	2,200	0.32
1240	70-72	HC	8.9	3,300	0.51
<b>Site 6. Centre of interdune flat. Water table at 58". W. ryegrass, sandspurry, curly ryegrass, Med. Barley grass.</b>					
1241	0-2	SCL	8.5	560	0.063
1242	3-6	SC	9.1	580	0.058
1243	9-12	LC	9.0	780	0.067
1245	22-24	GrC	8.9	1,200	0.14
1246	30-33	GrC	9.0	1,700	0.21
1252	72-74	HC	8.8	2,400	0.34
1259	140-142	HC	8.2	2,400	0.34
1262	178-180	HC	8.1	3,000	0.45
<b>Site 7. S. side of interdune flat. Water table at 52". Sandspurry, curly ryegrass.</b>					
1263	0-3	SCL	8.2	6,700	1.10
1264	4-6	C	8.9	5,500	0.90
1265	9-12	GrLC	8.9	3,000	0.42
1267	22-24	GrLC	9.3	2,200	0.32
1269	34-36	GrC	9.6	1,200	0.13
1276	73-75	HC	8.8	2,800	0.38
<b>Site 8. Lower N slope of dune. Water table at 75". Lucerne, horehound, brome grass, barrel medic, barley, stinkwort, skeleton weed.</b>					
1277	0-3	SL	8.2	87	0.006
1278	4-7	SL	8.8	110	0.005
1279	9-12	SCL	8.9	210	0.014
1281	22-24	SC	9.2	920	0.098
1283	30-26	GrSC	9.6	1,100	0.093

Lab. No. 65/	Depth in.	Field Text.	pH	E.C. μ mho/cm 20° C	Cl %
1289	70-72	GrC	9.6	1,100	0.075
1293	106-108	HC	9.4	1,400	0.11
<b>Site 9. Mid N slope of dune. Water table at 123". Vegetation as at Site 8 except no stinkwort.</b>					
1294	0-3	LS	8.3	78	0.002
1295	3-6	S	8.3	56	0.002
1296	9-12	S	8.5	45	0.002
1298	21-24	S	8.9	80	0.001
1300	32-35	SCL	8.5	320	0.031
1307	70-72	GrC	9.5	360	0.020
1317	142-144	GrC	9.7	1,100	0.087
<b>Site 10. Crest of dune. Water table at 180". Skeleton weed, barrel medic, <i>M. minima</i>, lucerne</b>					
1318	0-3	LS	8.4	82	0.004
1319	3-6	LS	8.4	63	0.002
1320	9-12	SCL	8.9	99	0.003
1322	22-24	SCL	8.8	130	0.005
1324	34-36	SCL	9.0	150	0.004
1340	70-72	SCL	9.7	220	0.002
1348	142-144	SL	10.0	350	0.004
1350	190-192	SC	9.8	450	0.002
<b>Site 11. Interdune flat with non-saline surface. Water table at 99". W ryegrass, barrel medic, lucerne, barley grass.</b>					
1351	0-3	SL	8.6	120	0.006
1352	6-7	SCL	8.9	140	0.006
1353	9-12	LC	9.1	230	0.008
1355	22-24	GrLC	8.6	1,700	0.27
1357	34-36	LC	8.7	2,100	0.34
1362	70-72	SC	8.8	1,300	0.19
1369	142-144	HC	8.4	1,900	0.30
<b>Site 12. Interdune flat with non-saline surface. Water table at 84". Stinkwort, barrel medic, <i>M. minima</i>, W. ryegrass.</b>					
1389	0-3	SCL	8.1	120	0.005
1390	3-6	SC	8.6	150	0.006
1391	9-12	SC	9.4	340	0.017
1393	22-24	SC	9.2	1,500	0.20
1395	32-34	C	9.2	1,700	0.22
1397	102-104	HC	8.9	2,800	0.47
<b>Site 13. Crest of dune. Water table at 198". Skeleton weed, lucerne, <i>M. minima</i>, brome grass.</b>					
1398	0-3	LS	8.1	52	0.001
1399	3-6	S	8.0	52	0.001
1400	9-12	S	8.3	48	0.001
1402	22-24	SL	8.6	110	0.001
1404	34-36	SC	8.8	150	0.001
1407	70-72	SCL	9.4	150	0.001
1413	142-144	SC	9.9	500	0.001
1419	208-210	C	9.8	500	0.002
<b>Site 14. Lower S slope of dune. Water table at 108". Skeleton weed, lucerne, barrel medic, <i>M. minima</i>, brome grass.</b>					
1420	0-3	LS	8.0	110	0.001
1421	3-6	LS	7.9	86	0.001
1422	9-12	LS	8.6	92	0.001
1423	22-24	S	8.7	66	0.001
1425	32-34	SL	9.3	120	0.002
1429	70-72	SC	9.7	550	0.019
1435	130-132	HC	9.1	1,660	0.21

Lab. No. 65/	Depth in.	Field Text.	pH	E.C. μ mho/cm 20° C	Cl %
<b>Site 15. Interdune flat. Water table at 90". Bare saltpan.</b>					
1436	0-3	LC	8.9	3,800	0.68
1437	3-6	C	9.0	2,800	0.44
1438	9-12	C	9.0	2,700	0.44
1440	22-24	C	9.1	2,200	0.34
1442	34-36	C	9.2	1,900	0.29
1446	70-72	HC	9.0	2,600	0.39
1452	142-144	HC	7.9	2,100	0.34
1456	190-192	HC	7.4	1,500	0.37
<b>Site 16. Lower N slope of dune. Water table at 102". W. ryegrass, barrel medic, barley grass, <i>M. minima</i>, <i>Stipa</i>, stinkwort, stemless thistle.</b>					
1457	0-3	SL	8.5	110	0.003
1458	3-6	SCL	8.5	120	0.003
1459	9-12	SCL	8.7	130	0.002
1461	22-24	SCL	9.6	570	0.028
1462	34-36	SC	9.7	700	0.048
1466	70-72	GrC	9.7	770	0.064
1470	118-120	HC	9.1	1,400	0.15
<b>Site 17. Crest of dune. No water table. Skeleton weed, lucerne, stinkwort, <i>M. minima</i>, barrel medic, brome grass.</b>					
1471	0-2	SL	8.7	120	0.002
1472	3-6	SC	8.7	130	0.002
1475	22-24	SC	9.7	340	0.002
1476	34-36	SC	9.9	450	0.002
1479	70-72	SCL	10.0	490	0.004
1482	104-106	SC	9.7	510	0.010
<b>Site 18. Lower W slope of N-S ridge. No water table. Barrel medic, <i>M. minima</i>, barley grass, stinkwort, stemless thistle.</b>					
1483	0-3	SL	8.5	140	0.005
1484	3-6	SC	8.5	140	0.003
1485	9-12	GrLC	8.8	140	0.002
1487	22-24	SC	9.8	350	0.004
1488	34-36	SC	9.9	450	0.008
1491	70-72	SC	9.6	680	0.043
1495	118-120	HC	8.3	1,400	0.16
1737	154-156	SC	8.1	950	0.11
<b>Site 27. Plain to N of dune. Reclaimed former saltpan. Barley stubble, W ryegrass.</b>					
1611	0-3	SCL	8.6	270	0.018
1612	3-6	SC	8.9	280	0.013
1613	9-12	C	9.5	600	0.023
1615	22-24	C	9.1	2,000	0.18
1616	34-36	C	9.1	1,900	0.24
1619	70-72	C	9.2	1,600	0.20
1624	130-132	HC	9.0	1,900	0.27
<b>Site 6e. Interdune flat. E. margin of saltpan. W ryegrass, curly ryegrass, barrel medic, <i>M. minima</i>, <i>Atriplex leptocarpa</i>.</b>					
1625	0-3	SL	9.4	320	0.021
1626	3-6	C	9.1	970	0.11
1627	9-12	C	9.1	2,000	0.30
1629	24-26	C	9.3	1,900	0.27
1630	34-36	C	9.5	1,600	0.21
1633	70-72	C	9.6	1,200	0.15
<b>Site 6w. Crest of low hummock. <i>M. minima</i>, skeleton weed, stinkwort, barrel medic, barley grass.</b>					
1636	0-3	SL	8.2	61	0.005
1637	3-6	SL	8.6	83	0.005
1638	10-12	LS	8.8	72	0.003

Lab. No. 65/	Depth in.	Field Text.	pH	E.C. μ mho/cm 20° C	Cl %
1639	22-24	SC	8.9	100	0.006
1640	34-36	C	9.2	250	0.011
1644	70-72	C	9.8	410	0.030
1647	106-108	C	9.7	630	0.055
<b>Site 29. Lower S slope of dune. Water table at 13". <i>Puccinellia stricta</i>. Previously bare saltpan.</b>					
146	0-2	S	10.1	490	0.009
147	3-6	LS	9.2	180	0.009
148	9-12	LS	8.6	190	0.009
150	21-24	SC	9.5	390	0.012
151	34-36	SC	9.9	710	0.015
154	70-72	C	9.5	790	0.040
156	94-96	C	7.1	860	0.079
<b>Site 29a. Interdune flat on W slope of N-S ridge. No water table. Wheat stubble, paddy melon.</b>					
158	0-3	C	8.3	160	0.020
159	9-12	C	8.4	170	0.020
161	22-24	C	9.4	430	0.020
162	34-36	C	9.5	540	0.008
166	70-72	SC	6.3	600	0.060
167	94-96	SC	4.8	1,200	0.14