

Field	Description
<i>Site</i>	Arbitrary number assigned to each farm participating in the Marketing and Labeling Project.
<i>Sample</i>	Arbitrary number assigned to each sample collected at a given farm.
<i>Collected</i>	Date sample was collected.
<i>Day</i>	Values in this field represent date of collection in reference to the first day samples were collected for the entire Marketing and Labeling Project. This number is used as a reference to calculate 'Duration' for a given sample.
<i>Duration</i>	The date of collection for a given sample in reference to the first day samples were collected for an individual farm.
<i>Group</i>	Each farm in the Marketing and Labeling study submitted samples on 1 or more different days. 'Group' refers to the subset of data that a given sample belongs to on a single farm. Groups are sorted into 'early,' 'mid,' and 'late' categories. 'Early' is always the first date of sampling, and 'late' is always the last. 'Mid' represents any point in time between 'early' and 'late.'
<i>Season</i>	The number found in this field represents the season that the sample was collected in. '1' is winter, '2' is spring, '3' is summer, and '4' is autumn.
<i>Batch</i>	Researchers went to great lengths to ensure that all samples were collected from the same batch of compost over the year and a half period of data collection for the Marketing and Labeling Project. Some sites, however, were unable to comply. This field indicates whether or not samples are from the same batch. '1' represents the first batch, '2' represents the second batch and so on and so forth.
<i>Manure</i>	Composts analyzed in the Marketing and Labeling Project were made from three types of manure. '1' represents un-separated dairy manure, '2' represents separated dairy manure and '3' represents poultry manure.
<i>Bulk</i>	Operations used one of two categories of bulking agent to add to material being composting. '1' represents "Wood and bedding" while '2' represents "straw."
<i>Food</i>	Some operations add food scraps to their compost. '1' means that food is not added while a '2' means that food is added.
<i>Cu_use</i>	Some farms that participated in the Marketing and Labeling Project use copper based products as a foot treatment to control infections, which may end up in compost products. A 'yes' means that copper is used, while 'no' means that it is not.
<i>Pad_type</i>	Composting operations generally use three types of pad for producing compost. '1' means that a dirt pad is used, a '2' indicates an improved pad, such as gravel, and '3' is concrete.
<i>Frqncy</i>	Composting operations that participated in the Marketing and Labeling Project were divided into two arbitrary groups based on how often compost piles are turned. '1' indicates low turning frequency (less than 12 times/year) and '2' indicates high turning frequency (more than 12 times/year).
<i>Trng_mthd</i>	Three general methods were used by operations in the Marketing and Labeling Project to turn compost piles. 'WR-B' is bucket-turned windrow, 'WR-T' indicates that a windrow turner is used and 'PAWS' is a passively aerated windrow system.

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<i>H2O_cpcty</i>	Percent water holding capacity.
<i>% OM</i>	Percent organic matter.
<i>CN_ratio</i>	Ratio of carbon to nitrogen. C:N ratio.
<i>% TKN</i>	Percent total nitrogen.
<i>% ON</i>	Percent organic nitrogen.
<i>% P</i>	Percent phosphorus.
<i>% K</i>	Percent potassium.
<i>% Ca</i>	Percent calcium.
<i>% Mg</i>	Percent magnesium
<i>NO3</i>	Nitrates, ppm.
<i>NO2</i>	Nitrites, ppm.
<i>ppm_Cl</i>	Chloride, ppm.
<i>SO4</i>	Sulfates, ppm.
<i>ppm_Cu</i>	Copper, ppm.
<i>ppm_Fe</i>	Iron, ppm.
<i>ppm_Zn</i>	Zinc, ppm
<i>ppm_Cd</i>	Cadmium, ppm.
<i>ppm_As</i>	Arsenic, ppm.
<i>ppm_Mn</i>	Manganese, ppm.
<i>Fecal</i>	Fecal coliforms, in MPN per gram.
<i>Density</i>	Density, in pounds per cubic foot.
<i>Solids</i>	Percent solids.
<i>Moisture</i>	Percent moisture.
<i>Inert</i>	Percent inert and oversize matter.
<i>pH</i>	pH.
<i>C03</i>	Carbonate rating.
<i>Salts</i>	Conductivity, or soluble salts.
<i>%_germ</i>	Percent Cress germination.
<i>%_weight</i>	Percent Cress weight

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<i>weeds</i>	Weed seeds, number of seeds per liter.
<i>S CO2</i>	Solvita carbon dioxide rating.
<i>S NH3</i>	Solvita ammonia rating.
<i>M index</i>	Woods End Research Laboratory maturity index value.
<i>Johnes</i>	A sub-component of the Marketing and Labeling Project was an analysis of Johnes's persistence throughout the composting process. This field indicates whether or not a sample was taken from a farm known to have Johnes disease. 'Yes' indicates its presence and 'No' means it is not present.

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Site	Sample	Collected	Day	Duration	Group	Season	Batch	Manure	Bulk	Food	Cu use
1	1	02/21/02	364	0	early	1	1	1	1	1	No
1	2	02/21/02	364	0	early	1	1	1	1	1	No
1	3	02/21/02	364	0	early	1	1	1	1	1	No
1	4	02/21/02	364	0	early	1	1	1	1	1	No
1	5	04/24/02	426	62	late	2	1	1	1	1	No
1	6	04/24/02	426	62	late	2	1	1	1	1	No
2	1	07/23/01	151	0	early	3	1	1	1	1	No
2	2	07/23/01	151	0	early	3	1	1	1	1	No
2	3	07/23/01	151	0	early	3	1	1	1	1	No
2	4	07/23/01	151	0	early	3	1	1	1	1	No
2	5	07/23/01	151	0	early	3	1	1	1	1	No
2	6	07/23/01	151	0	early	3	1	1	1	1	No
2	7	04/08/02	410	0	mid	2	1	1	1	1	No
2	8	04/08/02	410	0	mid	2	1	1	1	1	No
2	9	05/07/02	439	29	late	2	1	1	1	1	No
2	10	05/07/02	439	29	late	2	1	1	1	1	No
3	1	02/27/02	370	0	early	1	1	1	1	1	No
3	2	02/27/02	370	0	early	1	1	1	1	1	No
3	3	02/27/02	370	0	early	1	1	1	1	1	No
3	4	02/27/02	370	0	early	1	1	1	1	1	No
3	5	06/05/02	468	98	late	2	2	1	1	1	No
3	6	06/05/02	468	98	late	2	2	1	1	1	No
4	1	03/26/01	32	0	early	2	1	1	1	0	No
4	2	03/26/01	32	0	early	2	1	1	1	0	No
4	3	04/09/01	46	14	mid	2	2	1	1	0	No
4	4	04/09/01	46	14	mid	2	2	1	1	0	No
4	5	08/02/01	161	0	late	3	3	1	1	0	No
4	6	08/02/01	161	0	late	3	3	1	1	0	No
4	7	08/02/01	161	0	late	3	3	1	1	0	No
4	8	08/02/01	161	0	late	3	3	1	1	0	No
4	9	08/02/01	161	0	late	3	3	1	1	0	No
4	10	08/02/01	161	0	late	3	3	1	1	0	No
4	11	04/10/02	47	28	mid	2	4	1	1	0	No
4	12	04/10/02	47	28	mid	2	4	1	1	0	No
5	1	03/08/01	14	0	early	1	1	1	1	1	No
5	2	03/08/01	14	0	early	1	1	1	1	1	No
5	3	04/02/01	39	25	mid	2	1	1	1	1	No
5	4	04/02/01	39	25	mid	2	1	1	1	1	No
5	5	12/17/01	298	284	late	4	2	1	1	1	No
5	6	12/17/01	298	284	late	4	2	1	1	1	No
6	1	06/10/02	473	0	early	2	1	1	1	0	No
6	2	06/10/02	473	0	early	2	1	1	1	0	No
6	3	06/10/02	473	0	early	2	1	1	1	0	No
6	4	06/19/02	482	9	late	2	1	1	1	0	No
6	5	06/19/02	482	9	late	2	1	1	1	0	No
7	1	12/17/01	298	0	early	4	1	1	2	0	No
7	2	12/17/01	298	0	early	4	1	1	2	0	No

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Site	Sample	Collected	Day	Duration	Group	Season	Batch	Manure	Bulk	Food	Cu use
7	3	12/17/01	298	0	early	4	1	1	2	0	No
7	4	12/17/01	298	0	early	4	1	1	2	0	No
7	5	04/23/02	425	47	late	2	1	1	2	0	No
7	6	04/23/02	425	47	late	2	1	1	2	0	No
8	1	04/03/02	405	0	early	2	1	1	2	0	No
8	2	04/03/02	405	0	early	2	1	1	2	0	No
8	3	04/03/02	405	0	early	2	1	1	2	0	No
8	4	05/14/02	446	41	late	2	1	1	2	0	No
8	5	05/14/02	446	41	late	2	1	1	2	0	No
9	1	01/29/02	341	0	early	1	1	1	2	0	Yes
9	2	01/29/02	341	0	early	1	1	1	2	0	Yes
9	3	01/29/02	341	0	early	1	1	1	2	0	Yes
9	4	01/29/02	341	0	early	1	1	1	2	0	Yes
9	5	04/23/02	425	84	late	2	1	1	2	0	Yes
9	6	04/23/02	425	84	late	2	1	1	2	0	Yes
10	1	01/29/02	341	0	early	1	1	1	2	0	No
10	2	01/29/02	341	0	early	1	1	1	2	0	No
10	3	01/29/02	341	0	early	1	1	1	2	0	No
10	4	01/29/02	341	0	early	1	1	1	2	0	No
10	5	05/20/02	452	111	late	2	1	1	2	0	No
10	6	05/20/02	452	111	late	2	1	1	2	0	No
11	1	02/22/01	0	0	early	1	1	1	2	1	No
11	2	02/22/01	0	0	early	1	1	1	2	1	No
11	3	04/12/01	49	49	late	2	1	1	2	1	No
11	4	04/12/01	49	49	late	2	1	1	2	1	No
11	5	04/26/01	63	63	late	2	1	1	2	1	No
12	1	05/22/02	454	0	early	2	1	2	1	0	Yes
12	2	05/22/02	454	0	early	2	1	2	1	0	Yes
12	3	05/22/02	454	0	early	2	1	2	1	0	Yes
13	1	05/02/01	69	0	early	2	1	2	1	0	Yes
13	2	05/02/01	69	0	early	2	1	2	1	0	Yes
13	3	05/10/01	77	8	mid	2	1	2	1	0	Yes
13	4	05/10/01	77	8	mid	2	1	2	1	0	Yes
13	5	05/17/01	84	15	mid	2	1	2	1	0	Yes
13	6	05/22/01	89	15	mid	2	1	2	1	0	Yes
13	7	04/03/02	405	336	late	2	2	2	1	0	Yes
13	8	04/03/02	405	336	late	2	2	2	1	0	Yes
14	1	05/01/01	68	0	early	2	1	2	2	0	Yes
14	2	05/01/01	68	0	early	2	1	2	2	0	Yes
14	3	05/10/01	77	9	mid	2	1	2	2	0	Yes
14	4	05/10/01	77	9	mid	2	1	2	2	0	Yes
14	5	05/17/01	84	16	mid	2	1	2	2	0	Yes
14	6	05/31/01	98	30	mid	2	1	2	2	0	Yes
14	7	07/25/01	153	0	late	3	1	2	2	0	Yes
14	8	07/25/01	153	0	late	3	1	2	2	0	Yes
14	9	07/25/01	153	0	late	3	1	2	2	0	Yes
14	10	07/25/01	153	0	late	3	1	2	2	0	Yes

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Site	Sample	Collected	Day	Duration	Group	Season	Batch	Manure	Bulk	Food	Cu use
14	11	07/25/01	153	0	late	3	1	2	2	0	Yes
14	12	07/25/01	153	0	late	3	1	2	2	0	Yes
15	1	03/13/01	19	0	early	1	1	2	2	0	Yes
15	2	03/13/01	19	0	early	1	1	2	2	0	Yes
15	3	03/22/01	28	9	mid	2	1	2	2	0	Yes
15	4	03/22/01	28	9	mid	2	1	2	2	0	Yes
15	5	04/04/01	41	22	mid	2	1	2	2	0	Yes
15	6	04/18/01	55	36	mid	2	1	2	2	0	Yes
15	7	05/14/02	81	62	late	2	2	2	2	0	Yes
15	8	05/14/02	81	62	late	2	2	2	2	0	Yes
16	1	04/12/01	49	0	early	2	1	2	2	0	Yes
16	2	04/12/01	49	0	early	2	1	2	2	0	Yes
16	3	05/07/01	74	25	mid	2	2	2	2	0	Yes
16	4	05/07/01	74	25	mid	2	2	2	2	0	Yes
16	5	05/22/02	89	40	late	2	3	2	2	0	Yes
16	6	05/22/02	89	40	late	2	3	2	2	0	Yes
17	1	04/09/02	411	0	early	2	1	2	2	0	No
17	2	04/09/02	411	0	early	2	1	2	2	0	No
17	3	04/09/02	411	0	early	2	1	2	2	0	No
17	4	04/24/02	426	15	late	2	1	2	2	0	No
17	5	04/24/02	426	15	late	2	1	2	2	0	No
18	1	04/25/02	427	0	early	2	1	2	2	0	No
18	2	04/25/02	427	0	early	2	1	2	2	0	No
18	3	04/25/02	427	0	early	2	1	2	2	0	No
18	4	05/16/02	448	21	mid	2	1	2	2	0	No
18	5	05/16/02	448	21	mid	2	1	2	2	0	No
18	6	05/16/02	448	21	mid	2	1	2	2	0	No
18	7	06/13/02	476	49	late	2	1	2	2	0	No
18	8	06/13/02	476	49	late	2	1	2	2	0	No
19	1	01/16/02	328	0	early	1	1	3	1	0	No
19	2	01/16/02	328	0	early	1	1	3	1	0	No
19	3	03/07/02	378	0	early	1	1	3	1	0	No
19	4	03/07/02	378	0	early	1	1	3	1	0	No
19	5	05/09/02	441	63	late	2	1	3	1	0	No
19	6	05/09/02	441	63	late	2	1	3	1	0	No
20	1	06/20/02	483	0	early	2	1	3	1	0	No
20	2	06/20/02	483	0	early	2	1	3	1	0	No
20	3	06/20/02	483	0	early	2	1	3	1	0	No
21	1	06/06/02	469	0	early	2	1	3	1	0	No
21	2	06/06/02	469	0	early	2	1	3	1	0	No
21	3	06/06/02	469	0	early	2	1	3	1	0	No
22	1	05/02/02	434	0	early	2	1	3	1	0	No
22	2	05/02/02	434	0	early	2	1	3	1	0	No
22	3	05/02/02	434	0	early	2	1	3	1	0	No
22	4	05/21/02	453	19	late	2	1	3	1	0	No
22	5	05/21/02	453	19	late	2	1	3	1	0	No
23	1	05/29/02	461	0	early	2	1	3	1	0	No

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Site	Sample	Collected	Day	Duration	Group	Season	Batch	Manure	Bulk	Food	Cu use
23	2	05/29/02	461	0	early	2	1	3	1	0	No
23	3	05/29/02	461	0	early	2	1	3	1	0	No
24	1	04/02/02	404	0	early	2	1	3	2	0	No
24	2	04/02/02	404	0	early	2	1	3	2	0	No
24	3	04/02/02	404	0	early	2	1	3	2	0	No
24	4	05/14/02	446	42	late	2	1	3	2	0	No
24	5	05/14/02	446	42	late	2	1	3	2	0	No
25	1	12/11/01	292	0	early	4	1	3	2	0	No
25	2	12/11/01	292	0	early	4	1	3	2	0	No
25	3	12/11/01	292	0	early	4	1	3	2	0	No
25	4	12/11/01	292	0	early	4	1	3	2	0	No
25	5	05/13/02	445	153	late	2	1	3	2	0	No
25	6	05/13/02	445	153	late	2	1	3	2	0	No

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Site	Pad_type	Frgncy	Trng_mthd	Sreened	H20_cpcty	% OM	CN_ratio	% TKN	% ON	% P	% K
1	2	1	WR-T	1	89	23.2	13.9	0.901	0.884	0.285	0.212
1	2	1	WR-T	1	94	25.1	15.0	0.906	0.885	0.286	0.226
1	2	1	WR-T	1	86	22.3	12.9	0.930	0.915	0.300	0.214
1	2	1	WR-T	1	90	23.8	14.7	0.871	0.852	0.266	0.220
1	2	1	WR-T	1	95	25.5	14.7	0.936	0.815	0.290	0.235
1	2	1	WR-T	1	89	23.4	13.0	0.973	0.955	0.287	0.215
2	2	2	WR-T	1	141	42.0	13.6	1.671	1.631	0.472	0.888
2	2	2	WR-T	1	160	49.2	15.2	1.750	1.737	0.552	1.280
2	2	2	WR-T	1	172	53.4	20.3	1.419	1.359	0.452	1.280
2	2	2	WR-T	1	174	54.3	20.5	1.429	1.382	0.564	1.440
2	2	2	WR-T	1	171	53.0	17.9	1.598	1.571	0.484	1.680
2	2	2	WR-T	1	163	50.0	15.5	1.745	1.727	0.496	1.760
2	2	2	WR-T	1	144	43.3	17.5	1.339	1.339	0.572	0.896
2	2	2	WR-T	1	145	43.7	19.1	1.233	1.233	0.437	0.806
2	2	2	WR-T	1	134	39.7	16.7	1.286	1.274	0.385	0.585
2	2	2	WR-T	1	134	39.8	16.5	1.305	1.299	0.414	0.612
3	2	2	WR-B	1	116	33.0	10.8	1.657	1.543	0.470	0.993
3	2	2	WR-B	1	110	30.9	10.1	1.649	1.558	0.435	0.604
3	2	2	WR-B	1	113	31.9	10.2	1.693	1.614	0.457	0.669
3	2	2	WR-B	1	109	30.5	9.1	1.806	1.734	0.444	0.612
3	2	2	WR-B	1	105	29.0	8.6	1.812	1.696	0.313	0.948
3	2	2	WR-B	1	137	40.6	11.7	1.870	1.790	0.406	1.195
4	1	2	WR-B	2	104	28.5	20.6	0.749	*	0.316	0.344
4	1	2	WR-B	2	94	25.2	20.2	0.673	*	0.292	0.380
4	1	2	WR-B	2	100	27.4	18.2	0.812	*	0.332	0.348
4	1	2	WR-B	2	115	32.6	25.5	0.691	*	0.308	0.264
4	1	2	WR-B	2	78	19.2	15.2	0.681	0.667	0.291	0.235
4	1	2	WR-B	2	68	15.8	12.7	0.672	0.655	0.281	0.241
4	1	2	WR-B	2	103	28.5	18.9	0.816	0.803	0.282	0.596
4	1	2	WR-B	2	98	26.5	17.7	0.808	0.808	0.272	0.601
4	1	2	WR-B	2	102	28.1	18.3	0.828	0.811	0.272	0.563
4	1	2	WR-B	2	106	29.4	21.0	0.757	0.742	0.261	0.564
4	1	2	WR-B	2	73	17.5	12.6	0.750	0.740	0.270	0.391
4	1	2	WR-B	2	71	16.7	12.3	0.733	0.712	0.279	0.440
5	2	2	WR-B	2	93	24.6	11.2	1.184	*	0.216	0.360
5	2	2	WR-B	2	89	23.1	11.3	1.107	*	0.236	0.280
5	2	2	WR-B	2	92	24.3	14.2	0.924	*	0.236	0.232
5	2	2	WR-B	2	86	22.3	12.3	0.982	*	0.212	0.272
5	2	2	WR-B	2	99	27.1	11.5	1.269	1.153	0.293	0.675
5	2	2	WR-B	2	95	25.5	10.9	1.265	1.144	0.268	0.653
6	1	2	WR-B	2	131	38.7	12.6	1.664	1.664	0.198	0.615
6	1	2	WR-B	2	121	35.1	11.8	1.604	1.604	0.190	0.577
6	1	2	WR-B	2	127	37.2	20.5	0.981	0.981	0.177	0.559
6	1	2	WR-B	2	117	33.5	14.7	1.231	1.225	0.452	0.567
6	1	2	WR-B	2	115	32.6	14.7	1.201	1.192	0.484	0.564
7	1	1	PAWS	2	143	42.8	11.0	2.107	1.998	0.784	0.546
7	1	1	PAWS	2	122	35.4	12.7	1.510	1.456	0.334	0.390

Appendix F

Site	Pad_type	Frgncy	Trng_mthd	Screened	H2O_cpety	% OM	CN_ratio	% TKN	% ON	% P	% K
7	1	1	PAWS	2	122	35.4	11.9	1.600	1.556	0.544	0.505
7	1	1	PAWS	2	232	75.2	12.4	3.264	3.240	1.051	1.818
7	1	1	PAWS	2	135	39.9	11.4	1.888	1.847	0.559	0.353
7	1	1	PAWS	2	226	73.1	12.6	3.134	3.079	1.147	0.913
8	1	1	WR-B	2	84	21.6	9.4	1.241	1.209	0.306	0.523
8	1	1	WR-B	2	97	26.3	13.3	1.073	1.057	0.342	0.438
8	1	1	WR-B	2	96	25.8	12.5	1.120	1.098	0.326	0.431
8	1	1	WR-B	2	108	30.3	10.6	1.546	1.474	0.425	0.622
8	1	1	WR-B	2	92	24.5	10.5	1.256	1.251	0.358	0.550
9	1	2	WR-B	2	93	24.9	15.5	0.869	0.868	0.180	0.141
9	1	2	WR-B	2	109	30.5	14.8	1.116	1.092	0.287	0.364
9	1	2	WR-B	2	87	22.5	23.8	0.511	0.509	0.162	0.142
9	1	2	WR-B	2	78	19.1	19.0	0.543	0.535	0.149	0.189
9	1	2	WR-B	2	97	26.1	17.6	0.802	0.797	0.166	0.167
9	1	2	WR-B	2	79	19.6	14.4	0.736	0.729	0.148	0.174
10	1	2	WR-T	1	113	31.9	15.8	1.087	0.999	0.307	0.747
10	1	2	WR-T	1	91	23.8	10.9	1.178	1.121	0.466	1.082
10	1	2	WR-T	1	132	38.8	14.1	1.480	1.462	0.439	1.244
10	1	2	WR-T	1	141	42.3	16.5	1.388	1.346	0.362	0.678
10	1	2	WR-T	1	83	20.9	10.0	1.130	1.101	0.383	0.684
10	1	2	WR-T	1	72	17.0	9.6	0.953	0.948	0.297	0.515
11	1	2	WR-T	1	118	33.8	10.8	1.685	*	0.404	0.880
11	1	2	WR-T	1	124	35.9	11.2	1.726	*	0.424	0.880
11	1	2	WR-T	1	140	41.7	12.6	1.792	*	0.380	0.600
11	1	2	WR-T	1	138	41.0	12.1	1.829	*	0.380	0.632
11	1	2	WR-T	1	124	35.9	11.2	1.736	*	0.364	0.740
12	1	2	WR-B	2	129	37.9	8.8	2.329	2.255	0.366	0.952
12	1	2	WR-B	2	144	43.2	10.5	2.211	2.155	0.357	0.988
12	1	2	WR-B	2	129	37.8	8.6	2.388	2.316	0.386	1.070
13	3	1	WR-B	2	212	68.0	14.3	2.571	*	0.328	1.760
13	3	1	WR-B	2	215	69.1	13.7	2.729	*	0.364	1.600
13	3	1	WR-B	2	213	68.4	13.3	2.783	*	0.376	1.760
13	3	1	WR-B	2	211	67.6	13.1	2.784	*	0.347	2.154
13	3	1	WR-B	2	210	67.2	14.9	2.433	*	0.364	1.680
13	3	1	WR-B	2	205	65.5	13.8	2.558	*	0.388	1.800
13	3	1	WR-B	2	209	66.9	15.4	2.345	2.345	0.309	1.304
13	3	1	WR-B	2	199	63.3	13.2	2.592	2.592	0.309	1.396
14	1	1	WR-B	2	144	43.4	13.6	1.717	*	0.204	0.400
14	1	1	WR-B	2	143	42.9	13.6	1.708	*	0.196	0.436
14	1	1	WR-B	2	147	44.4	17.2	1.392	*	0.244	0.440
14	1	1	WR-B	2	130	38.4	12.1	1.718	*	0.211	0.483
14	1	1	WR-B	2	170	52.6	12.3	2.305	*	0.236	0.444
14	1	1	WR-B	2	128	37.3	10.7	1.885	*	0.196	0.368
14	1	1	WR-B	2	220	70.8	11.9	3.220	3.213	0.336	0.288
14	1	1	WR-B	2	214	68.8	11.8	3.145	3.122	0.300	0.284
14	1	1	WR-B	2	200	63.7	14.2	2.427	2.358	0.152	0.732
14	1	1	WR-B	2	191	60.4	14.4	2.267	2.221	0.104	0.676

Appendix F

Site	Pad_type	Frgncy	Trng_mthd	Screened	H20_cpety	% OM	CN_ratio	% TKN	% ON	% P	% K
14	1	1	WR-B	2	184	57.6	13.3	2.346	2.346	0.132	0.800
14	1	1	WR-B	2	191	60.4	13.0	2.508	2.508	0.116	0.892
15	2	2	WR-T	2	213	68.4	13.1	2.809	2.779	0.720	0.596
15	2	2	WR-T	2	204	65.1	14.3	2.460	2.426	0.720	1.040
15	2	2	WR-T	2	210	67.2	11.2	3.232	*	0.672	0.420
15	2	2	WR-T	2	199	63.4	11.8	2.895	*	0.688	0.780
15	2	2	WR-T	2	207	66.2	11.9	2.996	*	0.736	0.296
15	2	2	WR-T	2	218	70.2	11.5	3.304	*	0.772	0.716
15	2	2	WR-T	2	177	55.4	11.0	2.714	2.587	0.783	0.911
15	2	2	WR-T	2	214	68.7	14.7	2.518	2.479	0.755	1.352
16	1	2	WR-T	1	190	59.9	16.4	1.969	*	0.240	0.836
16	1	2	WR-T	1	191	60.4	17.8	1.829	*	0.252	0.840
16	1	2	WR-T	1	165	51.0	20.9	1.316	*	0.244	0.688
16	1	2	WR-T	1	178	55.6	23.7	1.269	*	0.156	0.728
16	1	2	WR-T	1	167	51.8	18.4	1.521	1.518	0.254	0.534
16	1	2	WR-T	1	179	55.9	19.4	1.553	1.549	0.235	0.556
17	1	2	WR-T	2	91	24.1	7.9	1.651	1.551	0.354	0.843
17	1	2	WR-T	2	120	34.5	10.8	1.722	1.622	0.444	1.102
17	1	2	WR-T	2	114	32.3	9.4	1.852	1.745	0.434	1.125
17	1	2	WR-T	2	110	30.9	11.6	1.438	1.350	0.408	0.805
17	1	2	WR-T	2	109	30.7	9.6	1.725	1.648	0.434	0.845
18	3	1	PAWS	2	246	80.5	13.4	3.253	3.155	0.354	1.732
18	3	1	PAWS	2	248	81.0	12.5	3.494	3.431	0.326	1.407
18	3	1	PAWS	2	246	80.3	13.2	3.290	3.289	0.362	1.521
18	3	1	PAWS	2	246	80.4	13.4	3.237	3.236	0.356	1.672
18	3	1	PAWS	2	236	76.7	13.2	3.144	3.143	0.374	1.667
18	3	1	PAWS	2	255	83.7	15.6	2.892	2.892	0.345	1.497
18	3	1	PAWS	2	188	59.4	11.0	2.916	2.916	0.387	1.462
18	3	1	PAWS	2	179	56.0	11.8	2.568	2.568	0.329	1.254
19	3	2	WR-T	1	98	26.6	11.2	1.283	1.123	0.734	0.898
19	3	2	WR-T	1	96	25.9	9.6	1.454	1.288	1.012	1.111
19	3	2	WR-T	1	90	23.7	9.4	1.367	1.154	0.984	0.771
19	3	2	WR-T	1	88	23.0	11.3	1.104	0.990	0.918	0.450
19	3	2	WR-T	1	88	22.8	8.7	1.410	1.256	1.230	1.031
19	3	2	WR-T	1	86	22.2	8.0	1.503	1.251	1.191	0.972
20	1	2	WR-T	2	100	27.3	9.5	1.558	1.558	2.149	2.605
20	1	2	WR-T	2	101	27.7	10.0	1.498	1.498	2.457	3.212
20	1	2	WR-T	2	92	24.4	5.7	2.296	2.296	2.515	3.020
21	1	2	WR-T	2	107	29.7	15.9	1.011	0.995	0.236	0.262
21	1	2	WR-T	2	110	31.1	18.6	0.903	0.887	0.252	0.230
21	1	2	WR-T	2	99	26.8	14.8	0.977	0.958	0.238	0.237
22	3	2	WR-T	1	129	37.7	11.0	1.853	1.851	1.810	1.887
22	3	2	WR-T	1	123	35.5	10.0	1.918	1.915	1.593	1.613
22	3	2	WR-T	1	136	40.4	11.6	1.882	1.878	1.739	2.011
22	3	2	WR-T	1	135	39.9	11.8	1.825	1.819	1.755	2.128
22	3	2	WR-T	1	137	40.6	11.2	1.963	1.959	1.555	2.356
23	1	2	WR-T	2	135	40.1	12.3	1.765	1.403	2.002	2.060

Appendix F

Site	Pad_type	Frqncy	Trng_mthd	Screened	H2O_cpcty	% OM	CN_ratio	% TKN	% ON	% P	% K
23	1	2	WR-T	2	169	52.4	15.6	1.808	1.746	1.502	1.550
23	1	2	WR-T	2	170	52.5	16.8	1.693	1.639	1.480	0.652
24	1	1	PAWS	2	175	54.6	4.4	6.640	6.640	1.977	2.055
24	1	1	PAWS	2	156	47.5	3.1	8.255	8.255	1.945	2.248
24	1	1	PAWS	2	177	55.3	3.8	7.928	7.928	1.777	1.880
24	1	1	PAWS	2	156	47.7	4.0	6.444	6.444	1.729	1.916
24	1	1	PAWS	2	173	53.7	4.0	7.186	7.186	1.743	1.919
25	3	2	WR-T	2	175	54.5	5.1	5.794	5.794	2.063	2.590
25	3	2	WR-T	2	170	52.9	4.4	6.479	6.479	2.041	2.698
25	3	2	WR-T	2	161	49.3	4.0	6.686	6.686	2.027	2.625
25	3	2	WR-T	2	163	50.1	3.9	6.962	6.962	1.776	2.820
25	3	2	WR-T	2	171	53.1	4.5	6.423	6.423	2.025	2.687
25	3	2	WR-T	2	154	47.1	4.6	5.504	5.496	1.645	2.252

Appendix F

Site	% Ca	% Mg	NO3	NO2	ppm Cl	SO4	ppm Cu	ppm Fe	ppm Zn	ppm Cd	ppm As
1	1.257	0.390	169	0	620	856	28.3	10315.2	97.4	1.1	7.5
1	1.328	0.415	212	0	548	791	29.5	10482.3	108.5	0.9	10.0
1	1.340	0.419	144	0	551	984	28.0	9786.4	99.0	0.9	9.0
1	1.362	0.459	189	0	622	995	29.0	11251.2	98.6	1.1	7.8
1	1.240	0.409	208	0	541	765	30.8	10430.1	104.3	1.8	0.0
1	1.173	0.408	175	0	505	664	28.0	10407.8	97.5	1.7	0.0
2	*	*	401	2	1990	0	33.0	7520.0	156.0	*	*
2	*	*	125	2	3344	0	40.0	6800.0	165.2	*	*
2	*	*	598	2	4210	0	36.0	7760.0	152.0	*	*
2	*	*	465	2	4707	0	40.0	6760.0	158.0	*	*
2	*	*	211	56	6223	0	39.0	6480.0	166.0	*	*
2	*	*	180	2	4974	180	44.0	6960.0	182.0	*	*
2	4.223	0.778	0	0	1435	0	33.5	9144.9	158.1	3.0	7.2
2	3.681	0.695	0	0	1641	0	28.0	10394.0	139.8	2.9	8.9
2	4.013	0.679	119	0	1333	0	33.1	9163.9	159.9	2.8	0.0
2	4.353	0.673	63	0	1834	0	31.7	9712.2	174.8	3.5	0.0
3	3.312	1.261	1136	0	3832	562	90.2	9551.1	164.3	1.6	7.8
3	2.924	1.151	911	0	3962	619	83.2	98.6	154.5	1.4	11.0
3	3.172	1.296	791	0	3784	612	86.5	9285.1	152.6	1.4	9.0
3	3.016	1.163	722	0	3606	632	79.1	8529.7	150.0	1.5	11.0
3	3.351	1.488	1158	0	3474	347	89.4	7279.3	162.2	3.2	0.0
3	2.870	1.296	796	0	3298	395	84.7	10251.5	159.8	3.5	5.1
4	*	*	*	*	*	*	36.8	10720.0	124.8	*	*
4	*	*	*	*	*	*	36.0	9720.0	128.8	*	*
4	*	*	*	*	*	*	36.4	8080.0	122.8	*	*
4	*	*	*	*	*	*	30.4	8120.0	124.8	*	*
4	*	*	140	0	86	0	26.3	10967.1	171.5	*	*
4	*	*	169	0	85	0	26.5	9317.3	104.8	*	*
4	*	*	128	0	1732	0	28.2	9622.3	99.4	*	*
4	*	*	0	0	1565	0	30.0	10130.1	105.3	*	*
4	*	*	167	0	1568	0	29.1	8267.7	94.5	*	*
4	*	*	147	0	1681	0	27.2	9533.1	92.6	*	*
4	1.914	0.863	103	0	635	104	105.1	12833.0	124.6	1.4	11.0
4	1.314	0.688	209	0	1019	188	168.3	12784.2	138.2	1.3	11.0
5	*	*	*	*	*	*	24.4	9200.0	132.0	*	*
5	*	*	*	*	*	*	24.0	9960.0	140.0	*	*
5	*	*	*	*	*	*	36.4	12400.0	129.6	*	*
5	*	*	*	*	*	*	30.8	12320.0	132.0	*	*
5	9.911	1.427	1156	0	2783	176	27.4	8800.8	103.1	3.5	8.4
5	11.728	1.150	1210	0	2916	251	35.0	7728.2	98.6	3.8	10.0
6	5.087	1.369	0	0	2308	0	62.6	900.3	186.6	4.9	0.0
6	4.949	1.119	0	0	2368	0	70.5	2101.7	184.4	4.7	0.0
6	9.270	1.508	0	0	2629	246	115.8	5590.6	152.6	6.3	0.0
6	5.926	1.185	62	0	2559	105	73.7	11222.2	187.8	3.0	0.0
6	5.898	1.350	92	0	8868	154	70.7	9905.5	193.2	3.0	0.0
7	2.476	0.729	1088	0	259	115	39.0	9473.7	202.7	2.2	6.8
7	2.436	0.772	537	0	152	123	23.9	11582.1	213.7	2.4	10.0

Appendix F

Site	% Ca	% Mg	NO3	NO2	ppm Cl	SO4	ppm Cu	ppm Fe	ppm Zn	ppm Cd	ppm As
7	2.495	0.638	442	0	442	153	27.0	9868.7	213.9	2.4	9.8
7	4.032	0.743	237	0	2723	612	35.2	1316.2	158.5	2.1	14.0
7	2.619	0.679	407	0	82	0	31.8	10514.1	218.0	2.4	8.8
7	4.841	0.960	548	3	804	0	32.5	1559.5	186.5	2.1	0.0
8	0.644	0.581	321	0	766	94	32.2	15427.4	103.8	2.0	14.0
8	0.885	0.596	154	0	298	0	31.9	14000.0	123.8	2.0	15.0
8	0.799	0.542	217	0	476	0	26.0	13381.6	125.9	1.9	12.0
8	1.004	0.576	720	0	1436	0	14.3	13976.8	132.3	3.0	15.0
8	0.919	0.611	46	0	538	0	13.7	15370.7	115.4	3.3	0.0
9	0.680	0.281	11	0	7	36	23.2	14052.3	92.5	1.5	8.8
9	1.013	0.391	240	0	331	0	75.0	11485.5	118.0	1.6	11.0
9	1.296	0.447	21	0	65	0	20.7	14478.3	89.0	2.1	14.0
9	0.553	0.331	77	0	64	0	13.8	17106.5	98.6	2.0	14.0
9	0.757	0.339	45	0	0	0	20.0	14726.9	102.8	1.7	7.3
9	0.544	0.318	66	0	0	0	14.5	14811.3	98.1	1.9	9.8
10	1.215	0.538	880	0	3237	267	69.2	13796.9	95.9	1.1	127.0
10	1.265	0.664	571	0	2542	416	194.0	14440.3	123.1	1.2	10.0
10	1.722	0.568	177	0	4647	281	65.7	11428.6	105.0	1.1	13.0
10	1.533	0.414	423	0	4616	169	25.6	12655.4	96.0	1.4	9.7
10	1.367	0.595	290	0	1075	184	117.1	13924.1	110.8	<0.8	9.6
10	1.295	0.606	52	0	290	69	118.8	15881.2	108.1	<0.8	9.0
11	*	*	*	*	*	*	24.4	13080.0	110.0	*	*
11	*	*	*	*	*	*	26.4	13760.0	118.0	*	*
11	*	*	*	*	*	*	26.8	11560.0	112.4	*	*
11	*	*	*	*	*	*	26.4	11160.0	116.8	*	*
11	*	*	*	*	*	*	26.4	12840.0	106.0	*	*
12	1.886	0.933	508	234	2280	158	58.3	13676.2	143.2	0.9	0.0
12	2.465	0.956	425	132	2151	156	53.7	10394.2	132.3	0.9	0.0
12	1.987	0.963	492	225	2367	170	59.6	13409.7	145.6	0.0	5.2
13	*	*	*	*	*	*	544.0	1188.0	316.0	*	*
13	*	*	*	*	*	*	564.0	1212.0	288.0	*	*
13	*	*	*	*	*	*	560.0	1276.0	368.0	*	*
13	*	*	*	*	*	*	530.4	1156.5	362.9	*	*
13	*	*	*	*	*	*	484.0	1380.0	300.0	*	*
13	*	*	*	*	*	*	492.0	1268.0	368.0	*	*
13	6.343	0.666	2	2	5906	521	455.9	1201.2	344.9	3.5	11.0
13	6.415	0.717	0	0	6192	457	418.9	1679.2	350.9	3.5	14.0
14	*	*	*	*	*	*	700.0	4200.0	276.0	*	*
14	*	*	*	*	*	*	668.0	4120.0	176.8	*	*
14	*	*	*	*	*	*	576.0	3800.0	214.0	*	*
14	*	*	*	*	*	*	654.0	3908.3	181.5	*	*
14	*	*	*	*	*	*	1076.0	3960.0	200.0	*	*
14	*	*	*	*	*	*	992.0	4400.0	220.0	*	*
14	*	*	71	1	102	0	1072.0	2920.0	392.0	*	*
14	*	*	233	1	236	0	904.0	2160.0	520.0	*	*
14	*	*	690	2	1582	482	708.0	820.0	1308.0	*	*
14	*	*	458	2	1092	337	740.0	300.0	1408.0	*	*

Appendix F

Site	% Ca	% Mg	NO3	NO2	ppm Cl	SO4	ppm Cu	ppm Fe	ppm Zn	ppm Cd	ppm As
14	*	*	2	2	1599	406	532.0	688.0	1348.0	*	*
14	*	*	2	2	1648	312	616.0	540.0	1660.0	*	*
15	*	*	296	2	410	0	468.0	3000.0	275.2	*	*
15	*	*	342	2	1155	209	560.0	1240.0	259.6	*	*
15	*	*	*	*	*	*	480.0	3000.0	288.0	*	*
15	*	*	*	*	*	*	556.0	1000.0	296.0	*	*
15	*	*	*	*	*	*	512.0	4240.0	304.0	*	*
15	*	*	*	*	*	*	480.0	2840.0	320.0	*	*
15	5.975	1.418	1264	0	1586	471	128.3	6177.2	398.3	4.2	0.0
15	5.096	1.073	385	3	4116	475	176.2	3869.7	475.1	3.8	23.0
16	*	*	*	*	*	*	588.0	3840.0	214.0	*	*
16	*	*	*	*	*	*	600.0	3920.0	220.0	*	*
16	*	*	*	*	*	*	140.0	5040.0	156.4	*	*
16	*	*	*	*	*	*	136.0	4560.0	152.0	*	*
16	6.300	0.544	27	0	747	162	473.4	4846.2	231.5	1.9	0.0
16	5.588	0.511	38	0	1075	227	492.6	5735.3	338.2	1.9	0.0
17	1.956	0.567	998	0	2477	411	76.2	6070.8	146.4	2.4	7.9
17	2.748	0.754	999	0	2849	536	91.1	6201.0	178.4	2.8	8.2
17	2.767	0.799	1069	0	3735	893	81.9	5902.8	174.3	2.7	9.2
17	2.237	0.648	875	0	2060	393	71.4	6908.7	168.8	2.4	0.0
17	2.392	0.668	767	0	1906	468	67.2	6909.8	218.8	2.5	0.0
18	2.705	0.728	979	2	8606	1259	267.7	1063.0	190.6	1.6	<8.7
18	2.336	0.690	628	0	6707	911	264.6	1146.7	180.6	1.5	<9.8
18	2.395	0.720	3	3	7917	2381	124.3	841.0	175.9	1.7	0.0
18	2.227	0.664	3	3	9438	1748	207.0	1089.8	159.4	0.0	0.0
18	3.187	0.775	3	3	9004	847	272.2	1440.5	178.4	0.8	31.0
18	2.033	0.580	2	2	6625	1475	105.8	850.1	137.1	0.0	12.0
18	2.755	0.794	0	0	5089	1198	166.0	4505.9	173.1	1.7	0.0
18	7.371	0.786	2	2	6113	1021	172.1	3255.4	154.5	2.8	0.0
19	7.012	0.463	1597	0	3364	808	28.0	1302.2	217.6	2.2	18.0
19	6.624	0.508	1655	0	4341	935	46.0	4415.8	257.6	2.2	14.0
19	6.473	0.468	2127	0	3862	974	35.2	5238.5	264.2	4.6	12.0
19	6.279	0.403	1143	0	1524	553	32.7	5480.9	252.3	4.0	17.0
19	7.969	0.586	1540	0	5122	1315	46.0	10919.5	425.3	4.1	0.0
19	7.964	0.657	2520	0	4714	1069	50.6	11049.3	426.9	4.1	5.1
20	12.996	1.156	0	0	4421	1375	37.7	45.4	533.3	4.5	0.0
20	14.198	1.089	0	0	9401	2824	45.1	60.3	534.8	4.9	0.0
20	16.588	1.048	0	0	9545	3035	48.3	127.4	561.7	5.7	0.0
21	5.499	0.534	156	0	55	0	43.0	10145.2	159.5	5.0	0.0
21	5.709	0.478	160	0	43	19	42.3	8934.2	143.8	5.1	0.0
21	5.336	0.530	191	0	68	0	40.1	11012.3	147.2	5.3	0.0
22	11.424	0.930	14	0	7351	1232	42.1	3909.0	566.1	4.2	0.0
22	12.350	0.971	32	0	7778	1517	43.3	5113.1	672.6	5.1	0.0
22	10.652	0.931	43	0	7000	1205	42.8	2197.4	595.9	4.8	0.0
22	11.383	0.957	64	0	7479	1445	39.0	1294.3	464.5	3.2	0.0
22	11.273	0.879	40	0	7812	1461	42.8	3731.8	478.1	3.0	0.0
23	10.643	0.742	0	0	4720	1220	36.6	4416.3	597.3	1.5	0.0

Appendix F

Site	% Ca	% Mg	NO3	NO2	ppm Cl	SO4	ppm Cu	ppm Fe	ppm Zn	ppm Cd	ppm As
23	7.809	0.550	513	109	3456	759	34.7	4541.8	529.9	1.3	0.0
23	9.533	0.530	539	0	1076	200	28.6	3889.4	476.6	1.4	0.0
24	12.109	0.598	0	0	11584	2395	183.6	1117.2	468.8	3.5	13.0
24	14.252	0.705	0	0	10468	2661	103.5	1043.3	433.1	3.9	15.0
24	11.036	0.594	0	0	10472	1998	163.3	1023.9	438.2	3.6	13.0
24	15.038	0.649	0	0	11201	2092	16.8	1209.9	450.4	5.6	0.0
24	12.620	0.578	0	0	9213	1491	15.4	1134.3	446.9	5.4	0.0
25	12.177	0.812	0	0	6978	3031	41.0	1166.1	398.5	3.0	9.1
25	12.864	0.802	0	0	7139	3113	48.5	2893.5	391.0	2.9	5.8
25	13.981	0.788	0	0	6596	3066	36.9	1079.6	466.0	3.1	13.0
25	13.863	0.739	0	0	6100	3212	37.3	1016.9	480.6	2.9	14.0
25	11.725	0.778	0	0	9743	3034	13.0	1169.0	605.6	5.0	0.0
25	15.638	0.674	81	0	8097	2316	12.8	953.9	468.1	5.4	0.0

Appendix F

Site	ppm Mn	Fecal	Density	Solids	Moisture	Inert	pH	C03	Salts	% germ	% weight	weeds
1	*	52	48	52.9	47.1	2.9	7.17	2	2.9	105	92	0
1	*	19	48	54.1	45.9	0.6	7.25	2	2.9	105	91	1
1	*	19	47	52.9	47.1	0.5	7.18	2	3.0	105	94	0
1	*	34	48	52.8	47.2	0.8	7.27	2	3.3	105	83	0
1	*	1	51	51.0	49.0	2.0	7.05	2	2.9	102	88	0
1	*	1	50	52.3	47.7	1.9	7.06	2	2.9	100	95	0
2	400.0	80	55	29.1	70.9	9.6	7.41	3	2.6	108	94	0
2	416.0	3	69	26.0	74.0	2.9	7.86	3	3.9	74	96	1
2	324.0	111	57	30.4	69.6	11.1	8.12	3	4.9	108	63	0
2	360.0	51	58	28.7	71.3	4.6	8.12	3	5.0	97	76	1
2	364.0	3	56	31.0	69.0	4.2	8.40	3	6.3	105	90	0
2	340.0	3	55	31.1	68.9	9.6	8.50	3	6.9	111	76	0
2	*	1301	42	36.7	63.3	8.4	8.22	3	2.0	100	41	4
2	*	73	44	35.1	64.9	5.4	8.23	3	2.0	98	38	9
2	*	241	55	33.2	66.8	10.5	8.05	3	2.5	98	75	5
2	*	471	51	34.3	65.7	7.1	8.15	3	2.8	98	54	1
3	*	5	47	50.9	49.1	1.1	7.51	2	10.5	102	93	0
3	*	1	47	49.4	50.6	1.9	7.68	2	9.5	102	93	0
3	*	1	46	49.5	50.5	3.0	7.63	2	9.0	100	92	0
3	*	1	46	49.2	50.8	3.8	7.75	2	8.9	102	88	0
3	*	73	50	47.7	52.3	4.3	7.46	2	8.4	90	100	2
3	*	351	47	47.0	53.0	1.7	7.56	2	7.3	98	85	0
4	452.0	2	50	45.2	54.8	*	7.78	2	2.0	105	102	1
4	372.0	3	51	45.8	54.2	0.2	7.85	2	2.7	100	108	1
4	324.0	1	58	40.1	59.9	0.8	7.52	2	1.6	90	89	2
4	336.0	1	52	42.4	57.6	0.2	7.59	2	1.4	93	93	0
4	374.9	1	57	60.2	39.8	5.4	7.31	3	1.4	100	93	2
4	357.4	3	56	66.3	33.7	2.0	7.34	3	1.6	100	85	7
4	361.8	5	59	42.1	57.9	6.4	8.12	3	4.9	103	83	0
4	340.3	5	56	43.1	56.9	2.2	8.18	3	4.8	95	54	0
4	322.8	1	56	44.3	55.7	3.8	8.22	3	4.7	100	95	1
4	346.3	1	58	44.7	55.3	6.9	8.12	3	5.0	105	86	0
4	*	1	56	47.7	52.3	2.0	8.34	2	2.8	102	88	0
4	*	30	57	47.6	52.4	0.9	8.02	2	3.3	102	83	0
5	520.0	71	52	50.9	49.1	16.0	8.01	3	2.1	93	85	2
5	560.0	131	55	47.0	53.0	9.7	7.90	3	1.2	100	88	2
5	572.0	1	46	47.9	52.1	18.3	7.84	3	0.9	103	97	2
5	620.0	3	59	48.8	51.2	25.4	7.82	3	1.4	105	97	5
5	*	13	51	54.0	46.0	10.2	7.61	3	12.0	100	126	0
5	*	36	50	55.9	44.1	8.8	7.63	3	17.1	98	131	0
6	*	65001	44	41.2	58.8	1.5	8.30	3	3.2	98	63	8
6	*	35001	42	43.9	56.1	5.4	8.44	3	3.0	100	65	11
6	*	30	51	41.5	58.5	2.7	8.65	3	5.2	98	84	4
6	*	7301	54	42.2	57.8	2.8	7.95	3	3.9	88	59	8
6	*	18001	56	41.5	58.5	3.2	7.98	3	3.5	90	50	14
7	*	1	41	45.6	54.4	12.6	7.44	1	7.7	100	118	16
7	*	5	44	52.7	47.3	20.0	7.14	2	5.3	100	133	84

Appendix F

Site	ppm Mn	Fecal	Density	Solids	Moisture	Inert	pH	C03	Salts	% germ	% weight	weeds
7	*	26	45	45.5	54.5	10.6	7.59	2	5.3	98	125	88
7	*	1	59	14.5	85.5	*	8.22	2	6.5	100	99	12
7	*	1	44	46.0	54.0	11.7	7.43	2	1.7	80	79	99
7	*	1	42	18.5	81.5	*	7.81	2	1.7	102	99	1
8	*	5	59	48.3	51.7	7.5	7.65	2	2.4	100	93	0
8	*	1	57	44.6	55.4	4.3	7.59	2	1.8	102	70	0
8	34.7	6	60	40.4	59.6	6.0	7.52	2	1.9	100	79	0
8	*	121	57	34.4	65.6	4.9	7.20	2	2.8	88	80	15
8	*	5	64	43.5	56.5	5.2	7.68	2	1.6	100	81	2
9	*	5	51	45.7	54.3	3.7	7.08	1	0.3	95	71	16
9	*	27	44	45.3	54.7	18.9	7.87	2	1.6	98	97	1
9	*	5	51	53.1	46.9	6.0	7.05	2	0.6	95	97	7
9	*	1	55	53.1	46.9	2.4	6.79	1	1.0	98	100	10
9	*	9	48	48.7	51.3	4.4	6.71	2	0.2	102	64	22
9	*	9	55	55.3	44.7	8.9	6.88	2	0.3	85	62	10
10	*	161	45	43.5	56.5	2.1	7.27	1	6.0	98	82	0
10	*	1	51	53.0	47.0	2.2	7.72	2	6.9	98	89	0
10	*	61	41	42.2	57.8	3.7	7.79	2	5.8	100	64	0
10	*	11001	41	42.7	57.3	7.3	7.13	2	5.2	100	83	0
10	*	1	50	62.2	37.8	1.2	7.79	2	4.6	100	91	4
10	*	1	51	68.6	31.4	4.2	8.18	2	2.1	95	55	1
11	936.0	301	*	41.6	58.4	8.0	6.40	*	6.6	95	95	0
11	908.0	1	*	43.0	57.0	2.2	6.38	*	5.4	98	102	0
11	756.0	3	47	44.5	55.5	16.1	6.75	1	2.0	86	79	0
11	796.0	5	47	43.0	57.0	10.4	6.72	1	2.3	93	90	0
11	908.0	18	47	46.3	53.7	10.4	6.23	1	5.0	86	81	18
12	*	451	36	49.9	50.1	7.9	8.05	2	5.0	88	80	11
12	*	171	40	45.8	54.2	4.3	8.04	3	4.8	100	83	5
12	*	10001	37	50.4	49.6	12.1	8.09	2	5.6	100	82	0
13	216.0	141	44	27.5	72.5	*	8.27	2	7.3	98	93	0
13	204.0	501	35	31.8	68.2	0.7	8.50	2	6.4	100	90	0
13	232.0	171	43	27.5	72.5	*	8.29	2	6.2	100	86	0
13	219.3	3501	39	29.4	70.6	*	8.38	2	6.5	98	88	0
13	216.0	701	40	28.5	71.5	*	8.58	3	6.8	95	64	0
13	228.0	18	42	26.9	73.1	0.3	8.70	1	6.7	95	69	0
13	*	1	51	22.9	77.1	*	8.40	3	4.2	90	57	0
13	*	1	49	24.6	75.4	*	8.37	3	4.5	100	57	
14	672.0	3	44	35.5	64.5	1.9	7.67	3	2.1	100	86	131
14	656.0	1	44	32.3	67.7	2.2	7.71	3	2.1	98	87	77
14	588.0	1	44	40.8	59.2	0.6	7.83	3	2.7	100	98	79
14	689.9	1	43	39.5	60.5	2.5	7.61	3	3.2	100	97	52
14	488.0	1	36	43.5	56.5	6.3	7.67	3	2.4	105	78	19
14	684.0	1	42	41.9	58.1	4.5	8.15	3	2.5	95	69	227
14	400.0	3	24	54.8	45.2	*	7.05	3	0.9	100	101	6
14	404.0	701	26	51.4	48.6	2.4	6.94	3	1.2	95	126	5
14	408.0	1	43	25.7	74.3	0.3	7.77	1	2.7	98	109	1
14	384.0	3	41	27.4	72.6	1.1	7.70	3	2.5	95	109	1

Appendix F

Site	ppm Mn	Fecal	Density	Solids	Moisture	Inert	pH	C03	Salts	% germ	% weight	weeds
14	480.0	1	62	23.2	76.8	1.2	8.56	3	4.1	93	58	1
14	384.0	2	61	22.1	77.9	3.0	8.39	3	4.4	95	65	1
15	396.0	131	40	24.2	75.8	0.3	7.84	3	1.9	91	100	0
15	144.0	801	44	23.0	77.0	*	7.99	3	2.7	100	91	1
15	452.0	1	38	27.4	72.6	*	7.61	3	1.3	108	108	1
15	472.0	1	43	23.1	76.9	*	7.94	3	2.0	105	109	1
15	516.0	1	31	30.3	69.7	*	7.78	2	0.8	100	101	0
15	484.0	1	29	41.5	58.5	*	7.72	2	2.8	57	76	0
15	*	98	46	29.2	70.8	1.6	7.90	3	3.8	102	78	0
15	*	13	52	18.2	81.8	*	7.89	3	3.8	100	78	4
16	256.0	12	45	30.1	69.9	3.5	8.08	2	3.4	81	76	0
16	276.0	501	46	30.6	69.4	1.0	7.87	2	3.8	64	70	0
16	352.0	701	40	41.3	58.7	7.0	7.55	2	4.5	98	94	0
16	336.0	501	37	43.2	56.8	3.5	7.55	2	4.2	98	92	0
16	*	1	45	33.9	66.1	7.9	8.11	3	1.8	93	50	0
16	*	1	41	33.7	66.3	4.5	8.19	3	2.0	100	54	0
17	*	42	48	53.2	46.8	6.3	7.73	2	6.9	98	94	6
17	*	9	50	49.8	50.2	6.6	7.70	2	7.2	100	93	4
17	*	23	51	48.1	51.9	2.4	7.74	2	9.3	93	87	3
17	*	31	51	50.4	49.6	3.2	7.90	2	6.2	102	99	3
17	*	9	46	50.2	49.8	2.6	7.99	2	5.8	100	91	4
18	*	21001	36	22.2	77.8	*	8.14	3	4.4	100	90	4
18	*	26001	34	23.4	76.6	*	8.20	3	3.6	98	79	0
18	*	50001	41	17.9	82.1	*	8.23	3	3.7	102	74	0
18	*	1	47	17.8	82.2	*	8.34	2	7.0	95.0	57	14
18	*	12	51	17.8	82.2	0.8	8.02	3	4.9	93	68	10
18	*	1	31	23.9	76.1	*	8.48	2	5.8	93.0	64	5
18	*	1	49	24.5	75.5	4.8	8.12	3	5.4	90	81	0
18	*	1	63	21.9	78.1	4.0	7.97	3	4.3	98	79	0
19	*	1	61	51.4	48.6	9.7	6.87	3	9.7	103	81	0
19	*	15	62	53.2	46.8	9.0	6.97	3	10.1	105	93	0
19	*	1	60	53.8	46.2	8.1	6.39	3	10.4	102	85	2
19	*	1	54	62.6	37.4	4.4	6.78	3	8.8	98	89	22
19	*	53001	54	55.7	44.3	2.5	6.96	3	9.9	100	67	0
19	*	1	59	53.8	46.2	4.4	6.53	3	11.7	98	53	0
20	*	1	62	60.1	39.9	0.8	8.62	3	16.2	17	31	4
20	*	1	55	78.4	21.6	*	9.20	3	26.0	32	32	0
20	*	1	56	69.5	30.5	*	9.17	3	23.7	66	40	0
21	*	1	53	54.2	45.8	8.5	7.71	3	1.2	98	120	4
21	*	5	51	51.6	48.4	9.2	7.65	3	1.1	100	130	66
21	*	1	54	54.2	45.8	7.5	7.71	3	1.3	98	117	7
22	*	1	37	71.7	28.3	1.7	9.05	3	16.9	102	65	0
22	*	1	39	73.8	26.2	1.5	9.05	3	15.2	102	68	0
22	*	1	36	72.4	27.6	0.8	9.04	3	15.5	100	61	0
22	*	1	36	77.4	22.6	3.6	9.28	3	14.8	86	51	4
22	*	1	37	73.1	26.9	1.9	9.23	3	13.8	93	55	0
23	*	1	41	47.9	52.1	0.3	6.91	3	16.6	100	80	12

Appendix F

Site	ppm Mn	Fecal	Density	Solids	Moisture	Inert	pH	C03	Salts	% germ	% weight	weeds
23	*	26001	34	49.3	50.7	5.9	8.16	3	6.9	98	85	10
23	*	117	41	39.3	60.7	12.9	7.46	3	3.0	95	98	0
24	*	1	31	70.3	29.7	*	8.74	3	14.0	41	16	0
24	*	1	38	63.7	36.3	*	8.86	3	17.0	61	12	0
24	*	1	29	78.3	21.7	*	8.46	3	16.9	68	12	0
24	*	1	36	67.4	32.6	*	8.80	3	16.9	5	17	0
24	*	1	37	66.9	33.1	*	8.34	3	20.2	5	9	0
25	*	1	46	74.4	25.6	*	8.26	3	23.6	50.0	16	0
25	*	1	42	75.8	24.2	*	8.18	3	22.1	45	14	0
25	*	1	42	82.8	17.2	*	8.34	3	22.0	36	16	0
25	*	1	39	82.0	18.0	*	8.56	3	19.0	19	16	0
25	*	1	45	72.3	27.7	*	8.27	3	18.8	20	22	0
25	*	1	39	85.9	14.1	*	8.27	3	15.8	7	10	0

Appendix F

Site	S CO2	S NH3	M index	Johnes
1	7	5	7	No
1	7	5	7	No
1	7	5	7	No
1	7	5	7	No
1	7	5	7	No
1	7	5	7	No
2	6	5	6	No
2	7	5	7	No
2	7	5	7	No
2	8	5	7	No
2	7	5	8	No
2	8	5	8	No
2	6	5	6	No
2	6	5	6	No
2	6	5	6	No
2	6	5	6	No
2	6	5	6	No
3	6	5	6	No
3	6	5	6	No
3	6	5	6	No
3	6	5	6	No
3	7	5	7	No
3	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	5	7	No
4	7	4	7	No
4	7	5	7	No
4	7	5	7	No
5	7	5	7	No
5	7	5	7	No
5	7	4	7	No
5	7	5	7	No
5	7	5	7	No
5	7	5	7	No
6	3	5	3	No
6	4	5	4	No
6	3	5	3	No
6	4	5	4	No
6	5	5	5	No
7	7	5	7	No
7	6	5	6	No

Appendix F

Site	S CO2	S NH3	M index	Johnes
7	6	5	6	No
7	4	5	4	No
7	6	5	6	No
7	6	5	6	No
8	6	5	6	No
8	4	5	4	No
8	4	5	4	No
8	6	5	6	No
8	5	5	5	No
9	5	5	5	No
9	6	5	6	No
9	6	5	6	No
9	6	5	6	No
9	5	5	5	No
9	5	5	5	No
10	6	5	6	No
10	6	5	6	No
10	5	5	5	No
10	6	5	6	No
10	7	5	7	No
10	7	5	7	No
11	7	5	7	No
11	7	5	7	No
11	7	5	7	No
11	7	5	7	No
11	7	5	7	No
12	5	5	5	No
12	5	5	5	No
12	5	5	5	No
13	7	3	6	Yes
13	6	4	6	Yes
13	5	5	5	Yes
13	6	5	6	Yes
13	5	5	5	Yes
13	6	5	6	Yes
13	4	5	4	Yes
13	4	5	4	Yes
14	6	5	6	No
14	6	5	6	No
14	5	5	5	No
14	6	5	6	No
14	6	5	6	No
14	6	5	6	No
14	5	5	5	No
14	5	5	5	No
14	4	5	4	No
14	4	5	4	No

Appendix F

Site	S CO2	S NH3	M index	Johnes
14	6	4	6	No
14	6	3	5	No
15	7	5	7	Yes
15	8	5	8	Yes
15	7	5	7	Yes
15	7	5	7	Yes
15	7	5	7	Yes
15	5	5	5	Yes
15	7	5	7	Yes
15	5	5	5	Yes
16	6	5	6	No
16	6	5	6	No
16	5	5	5	No
16	5	5	5	No
16	6	5	6	No
16	5	5	5	No
17	7	5	7	No
17	7	5	7	No
17	6	5	6	No
17	6	5	6	No
17	7	5	7	No
18	5	5	5	Yes
18	6	5	6	Yes
18	6	5	6	Yes
18	6	3	5	Yes
18	6	5	6	Yes
18	6	3	5	Yes
18	6	5	6	Yes
18	7	5	7	Yes
19	7	5	7	No
19	7	5	7	No
19	6	5	6	No
19	7	5	7	No
19	7	5	7	No
19	7	5	7	No
20	5	4	5	No
20	6	3	5	No
20	6	3	5	No
21	7	5	7	No
21	6	5	6	No
21	7	5	7	No
22	7	2	5	No
22	7	2	5	No
22	6	2	4	No
22	6	4	6	No
22	6	3	5	No
23	6	5	6	No

Appendix F

Site	S CO2	S NH3	M index	Johnes
23	6	5	6	No
23	6	5	6	No
24	5	2	3	No
24	7	1	4	No
24	5	2	3	No
24	6	1	4	No
24	5	1	1	No
25	6	1	4	No
25	5	2	3	No
25	5	3	4	No
25	7	2	5	No
25	6	1	4	No
25	4	3	3	No