

Manure Summary Report (2003)

Poultry, solid w/litter - 2001 and 2002

1101 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm		%		lbs./100 gallons
Mean	3.34	0.61	2.69	2.55	1.77	0.66	0.57	390.14	421.61	429.23	27.48	N/A
Minimum	0.862	0.103	0.706	0.353	0.251	0.166	0.072	114.13	79.61	16.67	5.15	N/A
Maximum	5.60	1.29	6.13	4.53	5.44	1.52	1.38	739.54	951.66	1150.48	68.49	N/A

Poultry, wo/litter (including high-rise) - 1998 through 2002

261 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm		%		lbs./100 gallons
Mean	2.65	0.72	2.81	2.05	5.64	0.74	0.30	304.70	350.24	171.98	40.70	N/A
Minimum	0.626	0.112	0.624	0.397	0.159	0.003	0.019	24.64	106.56	14.15	10.45	N/A
Maximum	5.20	1.88	5.45	4.41	18.86	1.61	1.26	652.62	747.23	751.97	76.00	N/A

Cattle, solid - 1995 through 2002

891 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm		%		lbs./100 gallons
Mean	0.87	0.08	0.45	0.92	0.57	0.25	0.14	107.69	55.50	18.41	63.54	N/A
Minimum	0.116	0.001	0.048	0.025	0.031	0.050	0.001	5.60	7.78	1.61	20.88	N/A
Maximum	2.61	0.47	1.60	3.47	4.84	0.98	0.48	563.90	267.25	167.99	75.00	N/A

Cattle, semisolid - 1995 through 2002

737 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm		%		lbs./100 gallons
Mean	0.57	0.10	0.26	0.52	0.31	0.15	0.06	49.81	32.11	9.05	79.79	833.78
Minimum	0.110	0.001	0.034	0.077	0.011	0.033	0.020	8.98	0.17	1.08	75.01	760.12
Maximum	1.13	0.39	0.76	1.62	1.77	0.44	0.10	195.27	130.91	88.20	85.00	868.71

* Sample number for liquid wt./100 gallons is 22

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Cattle, liquid - 1995 through 2002

1000 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
	%			ppm								
Mean	0.27	0.11	0.12	0.22	0.13	0.07	0.03	17.29	17.56	7.15	94.02	837.33
Minimum	0.004	0.001	0.002	0.003	0.001	0.001	0.001	0.014	0.014	0.006	85.06	776.83
Maximum	0.73	0.35	0.52	0.67	0.69	0.24	0.08	58.47	80.85	72.68	99.92	877.06

53 Samples

Swine, fresh - 1995 through 2002

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
	%			ppm								
Mean	1.24	0.25	1.21	0.66	0.70	0.32	0.16	102.38	173.70	43.85	64.65	N/A
Minimum	0.452	0.001	0.265	0.164	0.055	0.129	0.016	25.90	23.57	6.63	29.18	N/A
Maximum	3.23	0.90	3.31	2.01	3.64	1.06	0.42	208.87	473.70	188.55	74.89	N/A

Swine, liquid - 1995 through 2002

122 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
	%			ppm								
Mean	0.33	0.20	0.21	0.16	0.08	0.05	0.03	14.53	40.51	14.16	96.55	832.77
Minimum	0.006	0.002	0.001	0.005	0.004	0.001	0.001	0.179	0.338	0.097	84.43	735.06
Maximum	1.10	0.58	1.35	0.53	0.60	0.28	0.12	68.98	185.25	112.57	99.82	852.01

Sheep, solid - 1995 through 2002

79 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
	%			ppm								
Mean	1.20	0.17	0.78	1.51	0.91	0.33	0.19	171.29	87.47	13.45	57.31	N/A
Minimum	0.403	0.002	0.160	0.093	0.219	0.068	0.033	23.07	17.21	2.16	21.32	N/A
Maximum	2.58	0.49	1.84	3.75	2.79	0.69	0.43	753.98	275.86	56.01	74.45	N/A

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Horse, solid- 1995 through 2002

583 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm			— % —	lbs./100 gallons
Mean	0.67	0.06	0.41	0.63	0.58	0.21	0.13	106.04	52.31	20.35	58.62	N/A
Minimum	0.049	0	0.018	0.044	0.034	0.023	0.007	4.64	2.67	0.21	1.91	N/A
Maximum	2.58	0.88	4.49	3.68	19.49	1.62	0.99	1238.48	315.88	547.97	85.29	N/A

Goat 2001 - 2002

8 Samples (Garrett College data)

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm			— % —	lbs./100 gallons
Mean	1.16	0.33	0.41	1.33	0.34	0.12	-	-	-	15	65	N/A
Minimum	0.80	0.05	0.31	0.95	0.26	0.08	-	-	-	5	60	N/A
Maximum	1.74	0.49	0.62	1.50	0.45	0.19	-	-	-	27	73	N/A

C/N ranged from 19 to 40 and averaged 28.

Rabbit 2001 – 2002

21 Samples (Garrett College data)

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm			— % —	lbs./100 gallons
Mean	0.69	0.21	0.70	0.44	0.56	0.17	-	-	-	60	75	N/A
Minimum	0.35	0.07	0.45	0.11	0.26	0.09	-	-	-	41	57	N/A
Maximum	1.50	0.35	1.30	0.95	1.12	0.33	-	-	-	141	82	N/A

C/N ranged from 15 to 71 and averaged 37.

Buffalo (Bison) 2000

4 Samples

	N (total)	NH4-N	P2O5	K2O	Ca	Mg	S	Mn	Zn	Cu	H2O	liquid wt.
			%					ppm			— % —	lbs./100 gallons
Mean	0.67	0.007	0.57	0.15	0.48	0.35	0.09	115	50	9	64	N/A
Minimum	0.57	0.004	0.51	0.14	0.43	0.32	0.08	103	45	8	61	N/A
Maximum	0.78	0.010	0.64	0.15	0.53	0.37	0.09	129	60	10	67	N/A

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