



Washington State Department of Agriculture
Pesticide Management Division
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Annual Tonnage Report
Commercial Fertilizers Including Liming Materials 2022-2023
AGR PUB 632-336

Code	Nitrogen Materials	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
002	ANHYDROUS AMMONIA (82-0-0)	36,568.31	22,506.84	59,075.15
006	AQUA AMMONIA (20-0-0)	23,116.34	23,806.09	46,922.43
010	AMMONIUM NITRATE (34-0-0)	1,390.21	5.40	1,395.61
012	AMMONIUM NITRATE SOLUTION (18-20% N)	1,983.36	8,029.16	10,012.52
016	AMMONIUM NITRATE-SULFATE (30%N)	302.46	650.09	952.55
024	AMMONIUM SULFATE (20.5%-21%N, 24%S)	8,644.09	11,050.13	19,694.22
025	AMMONIUM SULFATE SOLUTION	1,897.65	2,305.52	4,203.17
027	AMMONIUM SULFATE-NITRATE (26%N)	422.55	13.36	435.91
031	AMMONIUM THIOSULFATE (12-0-0-26)	30,132.59	26,814.41	56,947.00
035	CALCIUM AMMONIUM NITRATE (17%N)	1,657.16	7,195.55	8,852.71
043	CALCIUM NITRATE	2,416.51	4,858.90	7,275.41
058	NITROGEN SOLUTION (URAN 28%-31%N)	564.11	433.20	997.31
060	NITROGEN SOLUTION (URAN 32%N) (32-0-0)	138,417.68	117,851.02	256,268.70
062	SODIUM NITRATE	92.87	18.12	110.99
064	SULFUR COATED UREA	526.94	47.25	574.19
066	UREA (46-0-0)	28,546.53	49,190.25	77,736.78
067	UREA SOLUTION (20%N) (20-0-0)	3,593.01	2,507.38	6,100.39
068	UREA-FORMALDEHYDE	12.18	145.46	157.64
097	OTHER NITROGEN	16,549.98	52,452.33	69,002.31
Nitrogen Materials Total:		296,834.53	329,880.46	626,714.99

Code	Phosphate Materials	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
202	AMMONIUM PHOSPHATE	3.00	325.71	328.71
203	DIAMMONIUM PHOSPHATE (18-46-0)		0.02	0.02
206	AMMONIUM PHOSPHATE NITRATE (27-14-0)	6,440.12		6,440.12
207	AMMONIUM PHOSPHATE SULFATE (16-20-0)	859.52	653.42	1,512.94
209	MONOAMMONIUM PHOSPHATE (11-52-0)	12,842.50	21,649.50	34,492.00
214	BONE MEAL	41.85	383.24	425.09
228	COLLOIDAL PHOSPHATE (SOFT)	6.20	2.37	8.57
241	NITRIC PHOSPHATE	0.94	20.38	21.32
243	PHOSPHATE ROCK	875.74	62.58	938.32
248	PHOSPHORIC ACID (54%)	6.39	20.71	27.10
249	LIQUID AMM. PHOLYPHOS (11-37-0 & 10-34-0)	12,586.03	27,201.04	39,787.07



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263	SUPERPHOSPHATE (NORMAL)	4.56	25.02	29.58
267	SUPERPHOSPHATE (TRIPLE)	309.31	253.12	562.43
273	SUPERPHOSPHORIC ACID (68%)	0.80	1.17	1.97
297	OTHER PHOSPHATE	5,247.40	7,694.45	12,941.85
Phosphate Materials Total:		39,224.36	58,292.73	97,517.09

Code	Potash Materials	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
415	POTASH SUSPENSIONS (13-15% K)	10,043.78	1,996.13	12,039.91
423	POTASSIUM CARBONATE (64% K ₂ O)	0.15	1.02	1.17
428	MURIATE OF POTASH (60-61% K ₂ O)	10,257.30	27,357.41	37,614.71
430	MURIATE OF POTASH (62% K ₂ O)	3,773.36	9,122.53	12,895.89
443	POTASSIUM MAGNESIUM SULFATE (KMAG)	672.74	2,486.80	3,159.54
448	POTASSIUM-METAPHOSPHATE (0-55-37)	2.20	1.25	3.45
453	POTASSIUM NITRATE (14-0-44)	445.12	1,095.32	1,540.44
458	POTASSIUM-SODIUM NITRATE (15-0-14)		1.00	1.00
463	POTASSIUM SULFATE (50-53% K ₂ O)	5,861.23	18,844.71	24,705.94
497	OTHER POTASH	3,941.76	5,026.23	8,967.99
Potash Materials Total:		34,997.64	65,932.40	100,930.04

Code	Secondary Nutrients & Micronutrients	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
050	FERROUS AMMONIUM SULFATE	2.86		2.86
702	ALUMINUM SULFATE	1.01	4.43	5.44
706	BORAX (BORON AS BORAX)	1,077.04	2,693.41	3,770.45
714	COBALT SULFATE	0.45	10.93	11.38
716	COPPER OXIDE, BLACK		0.72	0.72
720	COPPER SULFATE	38.01	224.32	262.33
722	COPPER CHELATE	86.62	26.49	113.11
723	COPPER COMPOUND	21.27	167.11	188.38
724	FERRIC OXIDE		0.10	0.10
726	FERRIC SULFATE	1.42	101.20	102.62
728	FERROUS SULFATE	921.83	2,058.35	2,980.18
730	IRON CHELATE	12.23	60.11	72.34
731	IRON COMPOUND	3.12	3.82	6.94
732	GYPSUM (CALCIUM SULFATE)	47,493.32	37,457.33	84,950.65
733	CALCIUM CHELATE	798.94	2,678.32	3,477.26



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734	CALCIUM SULFATE (HYDROUS)	299.71	187.25	486.96
736	LIME SULFUR SOLUTION	41.31	2,551.32	2,592.63
742	MAGNESIA (MAGNESIUM OXIDE)	2.64	0.13	2.77
744	EPSOM SALT (MAGNESIUM SULFATE)	135.90	290.78	426.68
745	MAGNESIUM CHELATE	24.18	198.41	222.59
749	MANGANESE CHELATE	17.47	67.82	85.29
750	MANGANESE OXIDE	4.23	10.12	14.35
754	MANGANESE SULFATE	122.56	439.47	562.03
762	SODIUM MOLYBDONATE	0.72	5.69	6.41
770	SULFUR	7,496.58	10,755.88	18,252.46
773	CALCIUM CHLORIDE	4,022.27	4,099.33	8,121.60
774	SULFURIC ACID	1,564.86	1,495.46	3,060.32
778	ZINC OXIDE	4.15	22.31	26.46
782	ZINC SULFATE	236.28	373.31	609.59
783	ZINC SULFATE SOLUTION	492.42	832.24	1,324.66
784	ZINC CHELATE	278.69	580.99	859.68
797	OTHER SECONDARY AND MICRONUTRIENTS	3,937.66	9,281.90	13,219.56
Secondary Nutrients & Micronutrients Total:		69,139.75	76,679.05	145,818.80

Code	Natural Organic Materials	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
601	BLOOD, DRIED	8.42	29.11	37.53
613	COMPOST	41,764.29	56,266.49	98,030.78
615	COTTONSEED MEAL	4.41	5.10	9.51
617	FISH SCRAP	28.85	933.57	962.42
629	GUANO	7.55	3.72	11.27
649	MANURE, MANIPULATED	9,899.37	28,342.57	38,241.94
665	SEWAGE SLUDGE, HEAT DRIED	354.28	177.00	531.28
671	SOYBEAN MEAL	31.87	26.13	58.00
673	TANKAGE, ANIMAL		70.48	70.48
675	TANKAGE, PROCESS	124.10	94.03	218.13
697	OTHER NATURAL ORGANIC	7,356.64	20,494.57	27,851.21
Natural Organic Materials Total:		59,579.78	106,442.77	166,022.55

Code	Liming Materials	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
901	CALCIUM OXIDE (BURNT)	27.88	6.58	34.46



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902	CALCIUM HYDROXIDE (HYDRATE)	14,254.94	797.62	15,052.56
903	STANDARD DOLOMITE	8,211.85	6,317.89	14,529.74
904	DOLOMITE LIME (75% NEUTRAL)	1,362.40	1,872.17	3,234.57
905	LIMESTONE	4,112.92	13,952.94	18,065.86
905	STANDARD CALCITE	23.94	904.14	928.08
906	CALCITIC LIME (75% NEUTRAL)	1,924.06	3,914.79	5,838.85
907	SUGAR BEET LIME	22,130.28	12,275.30	34,405.58
908	BOILER ASH	3,456.10	4,506.10	7,962.20
908	WOOD ASH	439.59	561.98	1,001.57
910	DOLOMITIC & CALCITIC BLEND (PELLETIZED)	28.74	152.47	181.21
997	OTHER LIME	666.11	691.94	1,358.05
Liming Materials Total:		56,638.81	45,953.92	102,592.73

Code	Miscellaneous Materials	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
	Bagged Mixed Fertilizer	63,392.15	65,080.86	128,473.01
	Bulk Mixed Fertilizer	60,207.48	174,892.10	235,099.58
	Liquid Mixed Fertilizer	41,267.66	47,586.33	88,853.99
Miscellaneous Materials Total:		164,867.29	287,559.29	452,426.58

Code	Grand	July - December 2022 (Tons)	January - June 2023 (Tons)	Total (Tons)
	Period Total for Fertilizer Materials	664,643.35	924,786.70	1,589,430.05
	Period Total for Liming Materials	56,638.81	45,953.92	102,592.73
Grand Total:		721,282.16	970,740.62	1,692,022.78