

2022-2023  
Vermont Fertilizer Analysis Report



Vermont Agency of Agriculture, Food and Markets  
Public Health & Agricultural Resource Management  
116 State Street  
Montpelier, VT 05620-2901

# Contents

Introduction.....	3
Fertilizer Summary Tables.....	4
2022 Fertilizer Companies with 10 or More Samples Taken .....	4
2023 Fertilizer Companies with 5 or More Samples Taken .....	4
Tonnage Summary Data 2022 .....	5
Total fertilizer tonnage reported summary .....	5
Year over year reported tonnage type and material .....	6
Year over year tonnage by grade and nutrient .....	7
Year over year total tonnage by county .....	8
Tons of N-P-K by County 2022 .....	9
2023 Total Products Registered by VAAF.M.....	10
Fertilizer Categories.....	11
Appendix A.....	13
2022 Fertilizer Sample Results .....	13
2023 Fertilizer Sample Results .....	20

## Introduction

The Agency of Agriculture, Food and Markets fertilizer analysis report provides data on all samples collected, fertilizer analysis conducted, and their results from the previous two years. The purpose of the sampling and testing is to ensure that fertilizer consumers receive products that conform to the guarantee for all labeled nutrients, and to assess penalties as authorized.

In 2022, the Agency collected and analyzed a total of 95 fertilizer samples, and 42 product samples failed to meet the label guarantee for one or more nutrients. In 2023, the total samples collected was 69, and 19 failed to meet the label guarantee. For 2022 samples, the Vermont Agricultural and Environmental Laboratory conducted 335 chemical analyses for nitrogen, available phosphorous, potash, and numerous secondary nutrients such as calcium, magnesium, sulfur, iron, zinc, and boron. For 2023 samples, the laboratory conducted 218 chemical analyses for nitrogen, available phosphorous, potash, and secondary nutrients. This report also contains historical data.

Fertilizer manufacturers may be assessed penalties for product nutrient deficiencies that exceed the permitted analytical variance. The dollar value of a penalty is based on how far below the guarantee a sample is, the total weight of the lot sampled, and the cost of the nutrient that is deficient. If a consumer cannot be identified, the penalty is paid to the Agency's fertilizer program.

The Agency registers soil amendments, plant amendments, and plant biostimulants, in addition to fertilizer and lime. Products may be registered in multiple categories, e.g., a product can be registered as both a fertilizer and a soil amendment, or as a fertilizer and a pesticide. Data is current as of 02/09/24.

- 92.0% fertilizer,
- 11.8% soil amendments,
- 11.3% plant biostimulants, and
- 1.8% plant amendments.

If you have any questions regarding this report or Vermont's Fertilizer Program, please contact the Public Health and Agriculture Resource Management Division; Vermont Agency of Agriculture, Food and Markets; 116 State Street; Montpelier, VT 05620-2901, call (802) 828-5050 or email [agr.feedseedfert@vermont.gov](mailto:agr.feedseedfert@vermont.gov).

## Fertilizer Summary Tables

### 2022 Fertilizer Companies with 10 or More Samples Taken

Company	Samples Collected	Nutrients Analyzed	# of Nutrient Violations
Bourdeau Brothers	15	52	6
Green Mountain Fertilizer	20	61	15
Lawes Ag Services Inc	10	31	5
Northeast Ag Sales	20	70	9
Total	65	214	35

### 2023 Fertilizer Companies with 5 or More Samples Taken

Company	Samples Collected	Nutrients Analyzed	# of Nutrient Violations
Bourdeau Bros Middlebury	11	22	2
Carolina Eastern Vail	9	22	7
Lawes Ag Services	7	17	3
Nutrien Ag Solutions	24	54	3
Total	51	115	15

## Tonnage Summary Data 2022

All tonnage values are as reported by December 25, 2023. Twenty-twenty-three tonnage will be reported in the 2023-2024 Annual Report.

Total fertilizer tonnage reported summary

January 1, 2022-December 31, 2022

	Total (tons)	Container (tons)			Use (tons)	
		Bag	Bulk	Liquid	Agricultural	Nonagricultural
Multi-nutrient	5,398	644	4,207	546	5,115	283
Nitrogen	8,332	115	6,743	1,473	8,329	3
Phosphate	2	2	0	0	2	0
Potash	2,3633	28	2,323	13	2,361	2
Sec/Micro	791	261	517	13	710	81
Misc.*	26,741	6,096	16,106	4,529	23,316	3,414
Total	43,627	7,147	29,896	6,574	39,833	3,783
*Misc. = lime, calcite, compost, filler, etc.						

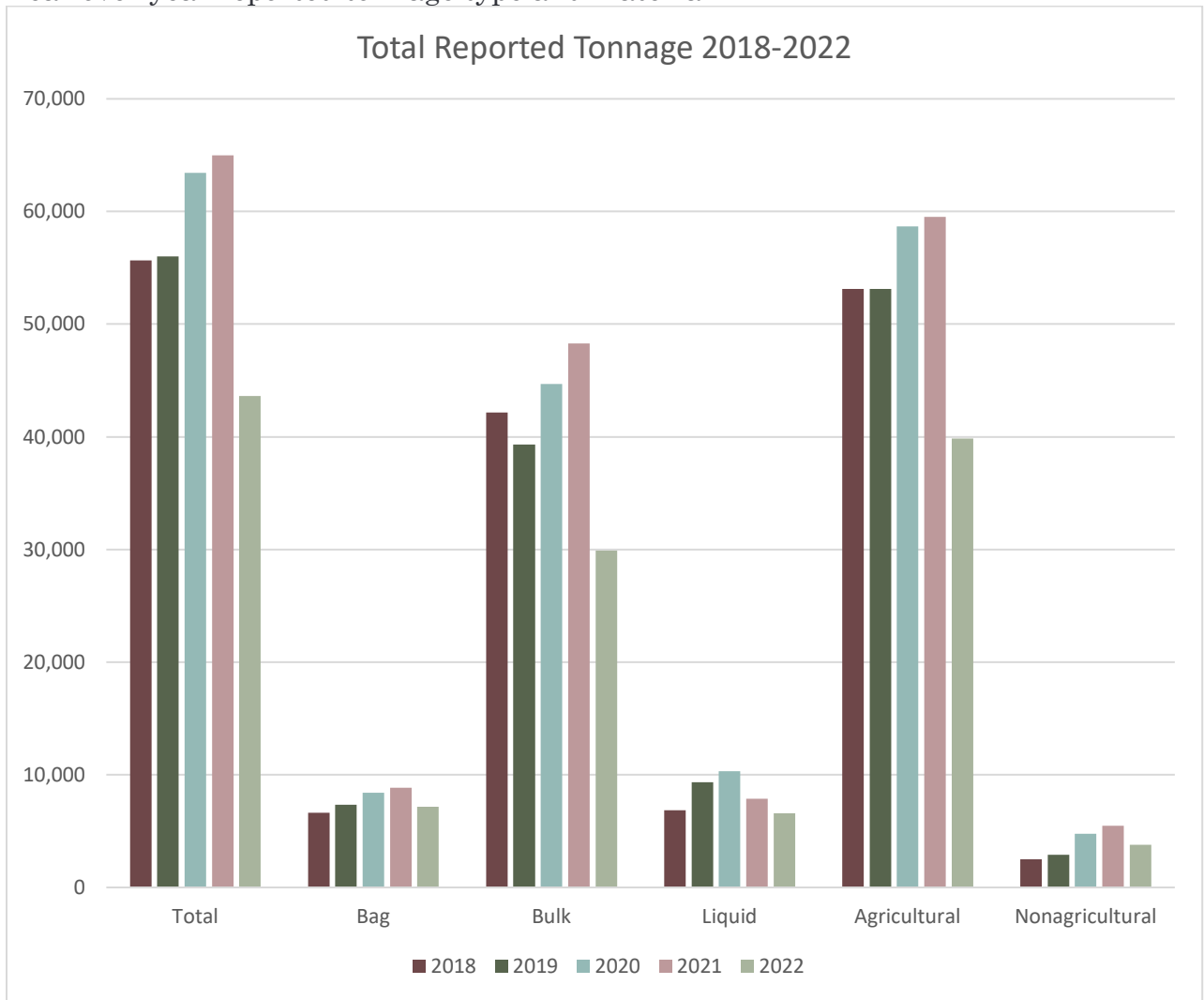
Note: Nitrogen means fertilizer containing nitrogen only i.e., 32-0-0 or 46-0-0.

Phosphate means fertilizer containing phosphate only i.e., 0-22-0 or 0-46-0.

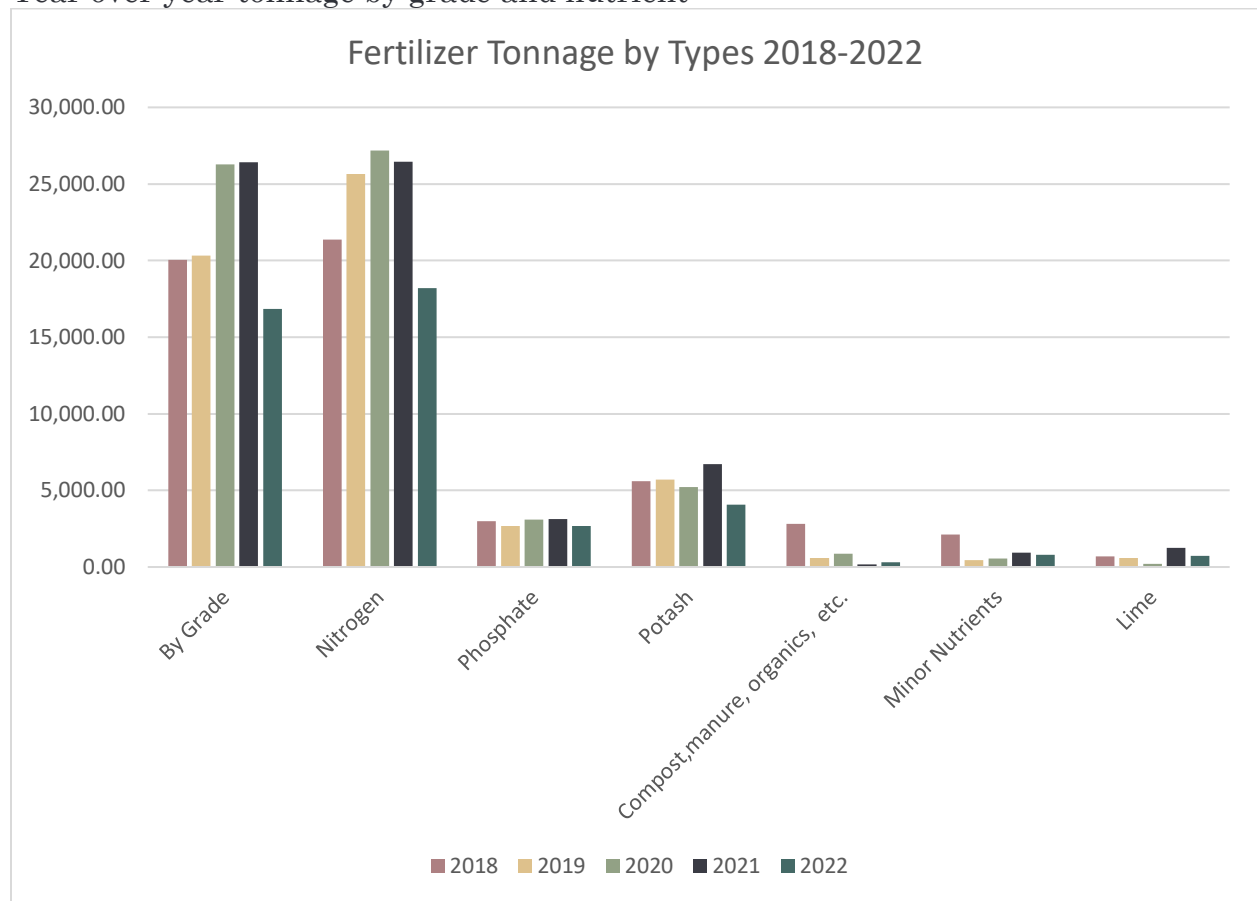
Potash means fertilizer containing Potash only i.e., 0-0-60 or 0-0-22.

Multi-nutrient means fertilizer containing a combination of nitrogen, phosphorous and/or potash.

# Year over year reported tonnage type and material

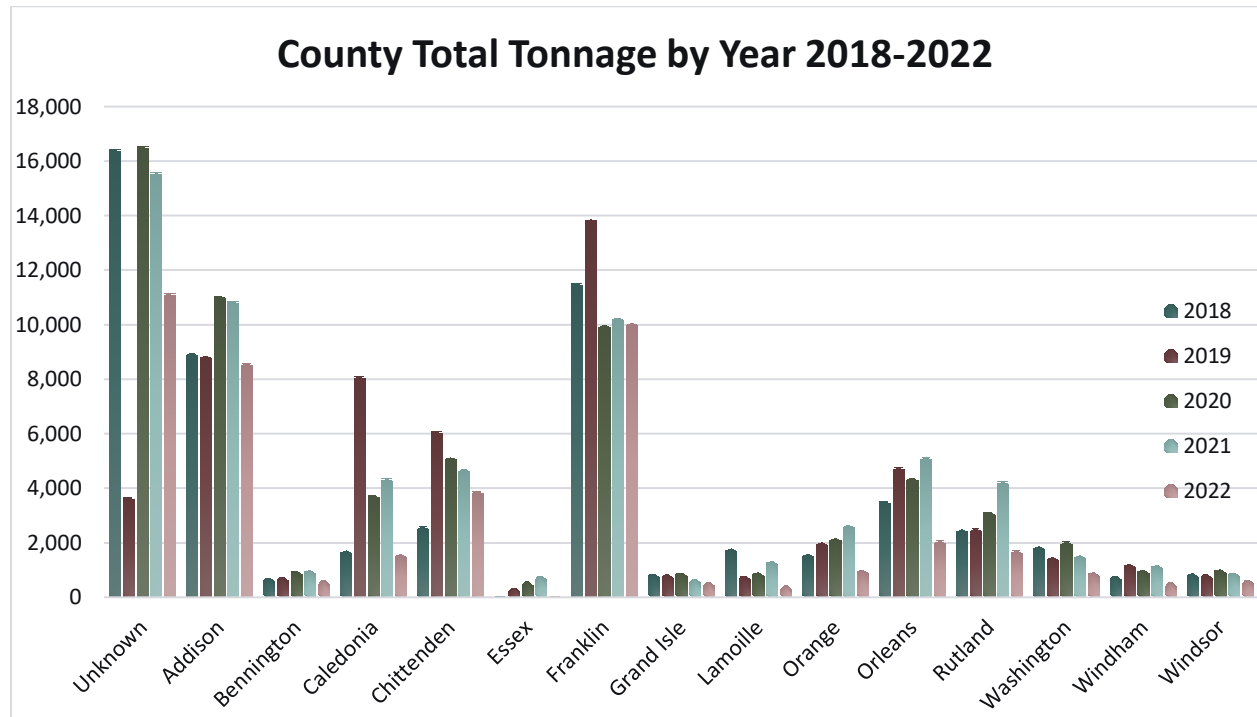


## Year over year tonnage by grade and nutrient



Note that it was not required to report tonnage for non-fertilizer products such as soil amendments and lime prior to 2022. Nitrogen means products that contained only nitrogen, Phosphate means products that contained only phosphate and Potash means products that contained only Potash. By grade means products that included combinations of nitrogen, phosphate, and potash.

Year over year total tonnage by county



County	2018	2019	2020	2021	2022
<b>Unknown*</b>	16,415	3,664	16,526	15,568	11,127
<b>Addison</b>	8,949	8,845	11,045	10,841	8,754
<b>Bennington</b>	706	736	958	977	609
<b>Caledonia</b>	1,713	8,092	3,736	4,341	1,577
<b>Chittenden</b>	2,588	6,069	5,139	4,693	3,879
<b>Essex</b>	47	325	564	767	5
<b>Franklin</b>	11,503	13,876	9,976	10,235	10,054
<b>Grand Isle</b>	847	820	891	655	550
<b>Lamoille</b>	1,787	776	895	1,320	419
<b>Orange</b>	1,586	2,017	2,173	2,645	985
<b>Orleans</b>	3,518	4,753	4,367	5,126	2,071
<b>Rutland</b>	2,494	2,515	3,114	4,231	1,708
<b>Washington</b>	1,869	1,469	2,036	1,532	896
<b>Windham</b>	764	1,213	988	1,172	542
<b>Windsor</b>	859	828	1,007	890	632
<b>Total</b>	55,644	55,997	63,416	64,993	43,628

\*Unknown means the reporter did not include the county where the fertilizer was distributed.



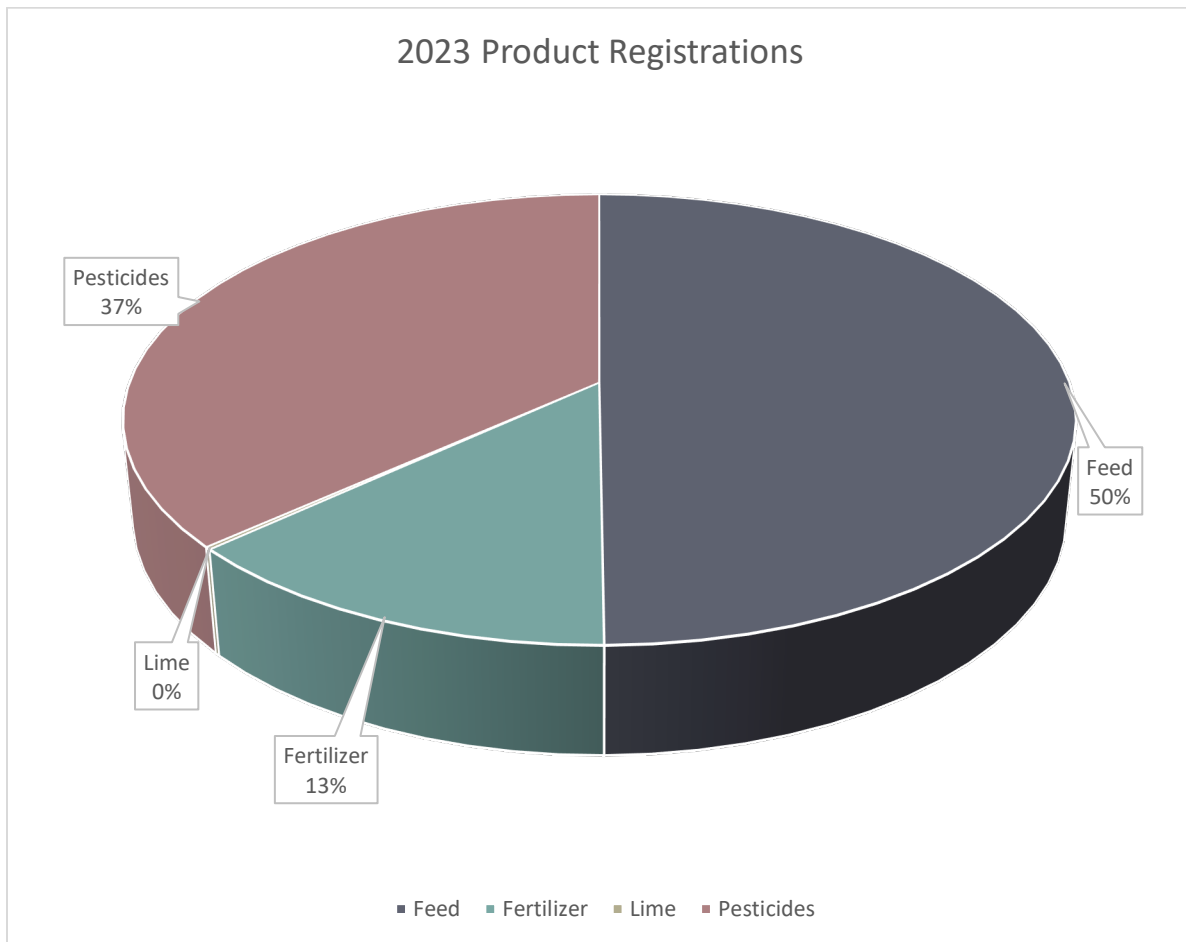
## Tons of N-P-K by County 2022

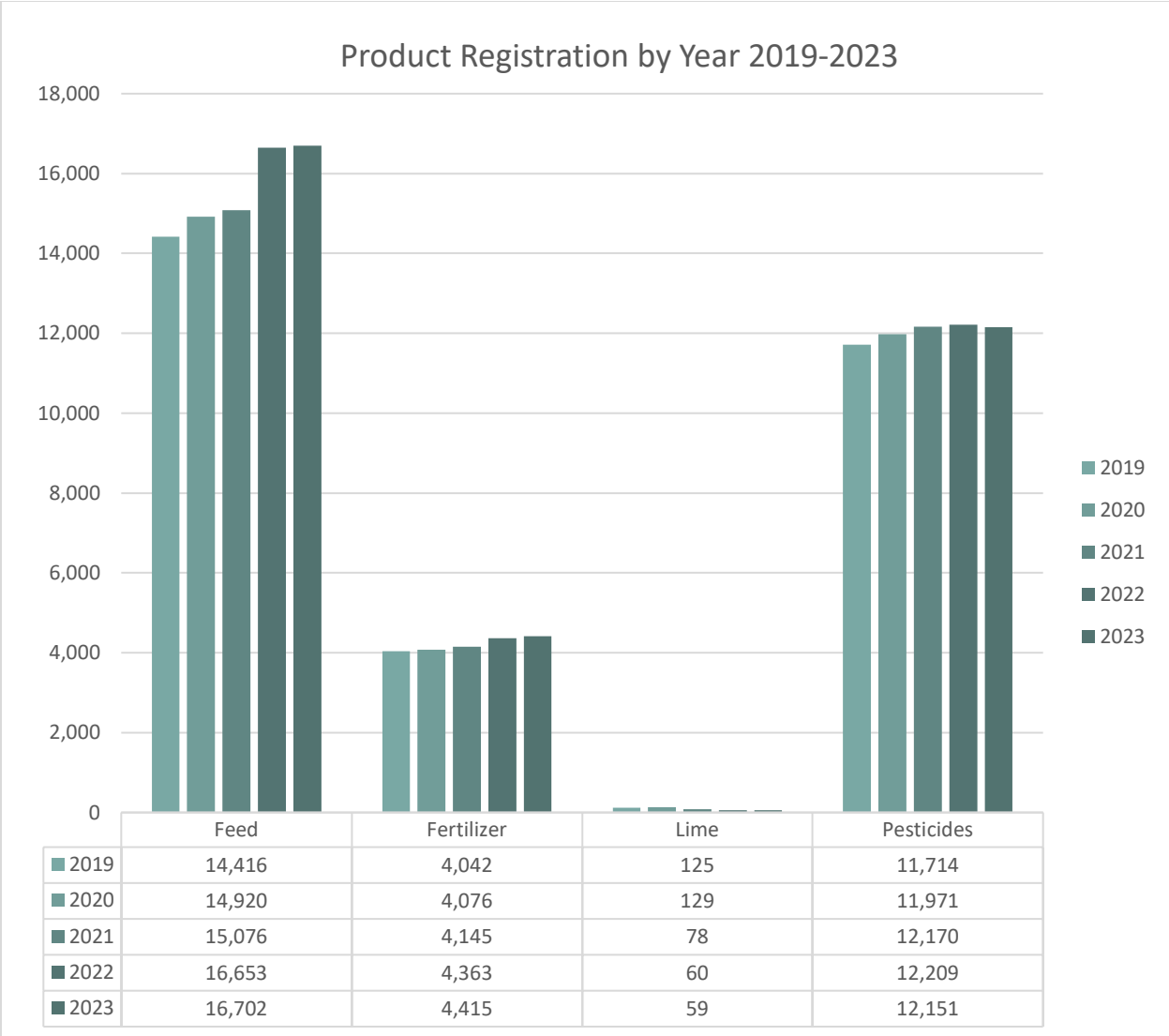
<b>COUNTY</b>	<b>Tons N</b>	<b>Tons P</b>	<b>Tons K</b>
**Unknown	2,810	894	1,184
Addison	2,435	467	638
Bennington	67	17	32
Caledonia	529	52	9
Chittenden	273	73	550
Essex	1	0	.2
Franklin	2,525	368	896
Grand Isle	106	22	42
Lamoille	99	17	25
Orange	139	29	73
Orleans	634	22	123
Rutland	294	45	139
Washington	226	16	13
Windham	45	7	57
Windsor	50	24	25
<b>Total</b>	<b>10,235</b>	<b>2,053</b>	<b>3,807</b>

This chart shows the tonnage broken out by nutrient for each county. For example, the amount of nitrogen listed for each county is the actual amount of nitrogen applied devoid of fillers and other nutrients. If a farmer bought a 100 lb. bag of 5-10-10 in Montpelier, 5 pounds of nitrogen, 10 pounds of phosphorous and 10 pounds of potash would be counted towards the numbers for Washington county. Therefore 896 tons of fertilizer was reported distributed in Washington County in 2022, of that 226 tons was nitrogen, 16 tons was phosphorus, and 13 tons was potash. The balance of the tonnage would have been micronutrients, fillers, compost, etc. \*\*Unknown means the reporter did not include the county where the fertilizer was distributed.

## 2023 Total Products Registered by VAAFM

Product Registered	2023	Percentage
Feed	16,702	50%
Fertilizer	4,415	13%
Lime	59	<1%
Pesticides	12,151	37%
<b>Total</b>	<b>33,157</b>	<b>100%</b>

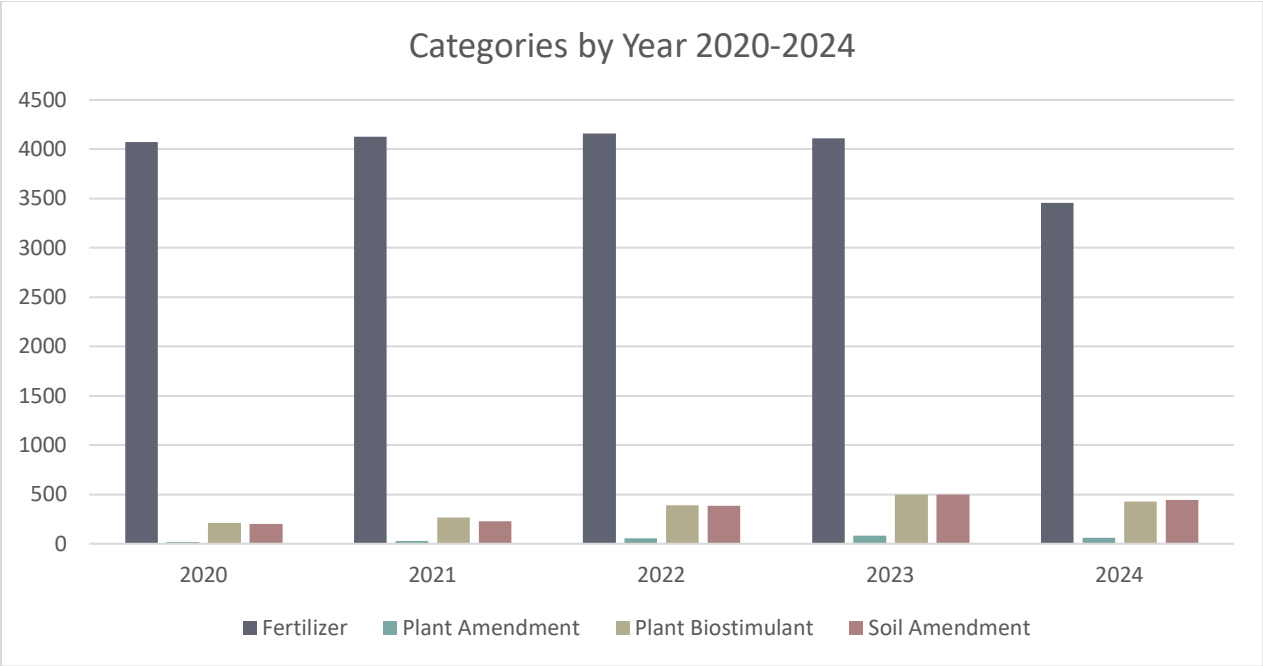




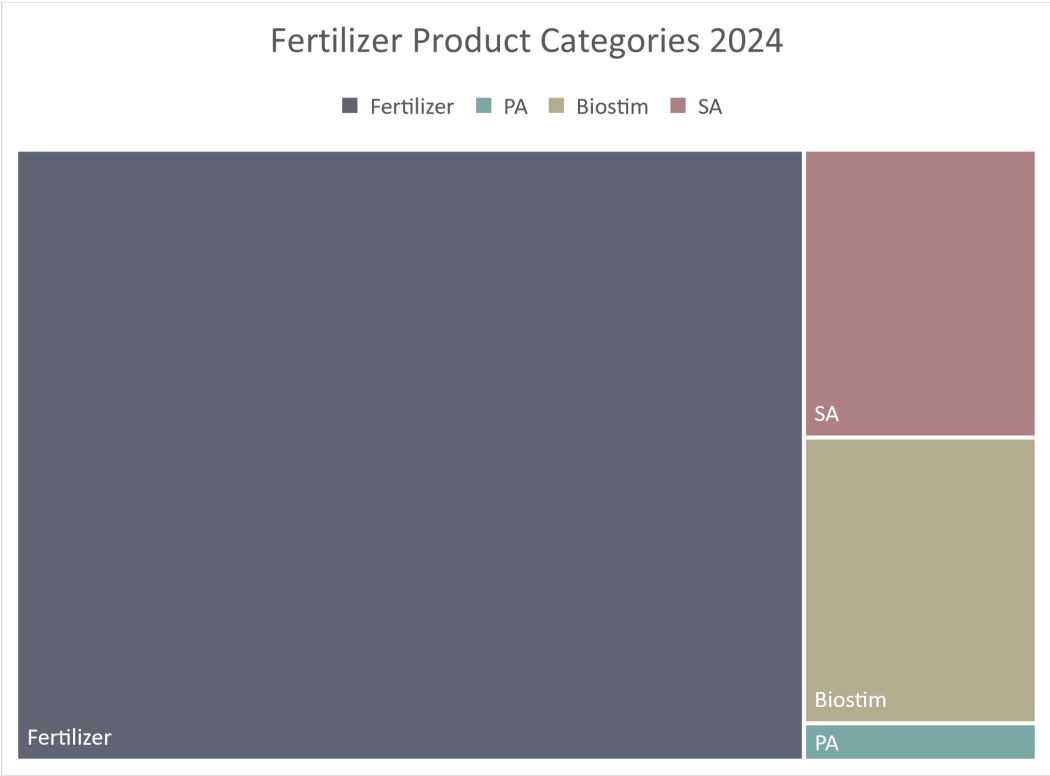
Note: Data reported as of 02/09/2024. Feed registration year ends on February 15, 2024.

### Fertilizer Categories

In the fall of 2023, the fertilizer label review team reviewed all previously registered fertilizer product labels to make sure all labels met the label requirements and to make sure all products were correctly categorized. The team found that many products previously categorized as only fertilizer, fit into additional categories. Additionally, there were labels that needed revision in order to meet all Vermont label requirements. The team is confident that all registered fertilizer, plant amendment, plant biostimulant and soil amendment labels are up to date and meet all requirements as outlined in Vermont Statute.



2024 data is incomplete.



## Appendix A

**Pass:** A sample receives a pass status if the guarantee for nitrogen, phosphorous or potash it is equal to or greater than the test results.

**Fail:** A Sample is considered deficient if the guarantee for nitrogen, phosphorous or potash exceeds The Association of American Plant Food Control Officials' (AAPFCO) established permitted analytical variance at an established confidence level of 97.5%.

**Within Tolerance:** A sample is within tolerance if it is greater than the AAPFCO's established permitted analytical variance at an established confidence level of 97.5% but less than 100%.

### 2022 Fertilizer Sample Results

Sample ID	Business Name	NPK Guarantee	Lab Result N	Lab Result P	Lab Result K	Micronutrients	Sample Status
222018	Advanced Nutrients	2-4-8	2.39	4.46	9.51	Pass	Pass
452213	Agroplasma Inc	13-2-2	.48	.01	.10		Fail
222001	Agrothrive Inc	3-3-2	2.81	3.12	2.24		Within Tolerance
222003	Bonide Products LLC	7-10-7	6.75	9.28	6.75		Within Tolerance
222014	Botanicare	3-2-4	2.9	2.33	4.31	Pass	Within Tolerance
1-083022-10	Bourdeau Brothers - Sheldon	10-20-20	8.29	19.4	20.15	Pass	Fail
1-083022-11	Bourdeau Brothers - Sheldon	19-19-19	17.26	18.3	22.5		Fail
1-083022-12	Bourdeau Brothers - Sheldon	28-0-15	26.41	0	13.5		Fail
1-083022-13	Bourdeau Brothers - Sheldon	5-15-30	5.5	15.1	30		Pass
1-083022-14	Bourdeau Brothers - Sheldon	6-12-12	8.24	11.15	12.1		Within Tolerance

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>Lab Result K</b>	<b>Micronutrients</b>	<b>Sample Status</b>
1-083022-15	Bourdeau Brothers - Sheldon	24-12-18	22.07	11.8	18.8		Fail
1-083022-17	Bourdeau Brothers - Sheldon	24-12-18	25.68	14.3	14.15		Fail
1-083022-16	Bourdeau Brothers - Sheldon	25-4-14	25.1	5.98	13		Within Tolerance
12-050322-01	Bourdeau Brothers of Middlebury	39-0-0	39.40	.00	.00	Fail	Pass
12-050322-02	Bourdeau Brothers of Middlebury	46-0-0	45.30	.00	.00		Within Tolerance
12-050322-03	Bourdeau Brothers of Middlebury	23-0-30	23.50	.01	29.30		Within Tolerance
12-051322-01	Bourdeau Brothers of Middlebury	10-13-27	10.90	15.40	28.30	Fail	Pass
12-051322-02	Bourdeau Brothers of Middlebury	22-38-0	21.20	37.40	.00		Within Tolerance
12-051322-03	Bourdeau Brothers of Middlebury	7-0-45	7.51	.00	43.80	Pass	Within Tolerance
12-051322-04	Bourdeau Brothers of Middlebury	10-13-27	10.00	14.00	27.00	Pass	Within Tolerance
222015	Canna Continental	0-10-11	0	10.9	12		Pass
12-052722-01	Carovail	17-17-0	17.13	15.20	.00	Pass	Fail
12-062722-01	Carovail	2-0-33	2.56	.00	32.00	Pass	Within Tolerance
222016	Coast Of Maine Organic Products	2-3-0	1.79	2.47	0		Within Tolerance
12-062722-02	Connecticut River Ag Services	10-10-10	10.18	10.20	11.10		Pass
12-0627-03	Connecticut River Ag Services	19-19-19	20.18	15.85	20.65		Fail

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>Lab Result K</b>	<b>Micronutrients</b>	<b>Sample Status</b>
12-062722-04	Connecticut River Ag Services	5-10-10	4.96	9.47	9.90		Within Tolerance
222011	Down to Earth Distributors Inc	7-7-2	7.55	9.12	2.44	Pass	Pass
222007	Dr Earth	1-1-1	2.48	1.87	1.33		Pass
222009	General Hydroponics	2-45-28	3.71	51.3	23.75	Fail	Fail
222010	General Hydroponics	7-4-10	5.7	5.32	7.57	Pass	Fail
222012	General Hydroponics	10-12-22	9.86	13.2	21.1	Pass	Within Tolerance
222013	General Hydroponics	0-5-4	0	6.24	3.77	Pass	Within Tolerance
1-091422-01	Green Mountain Fertilizer Div LD Oliver	5-10-5	5.49	9.46	6.38		Within Tolerance
1-091422-02	Green Mountain Fertilizer Div LD Oliver	5-10-10	4.19	9.16	6.65		Fail
1-091422-03	Green Mountain Fertilizer Div LD Oliver	10-10-10	8.3	8.79	9.39		Fail
1-091422-04	Green Mountain Fertilizer Div LD Oliver	5-10-10	4.48	9.3	9.44		Within Tolerance
1-091422-05	Green Mountain Fertilizer Div LD Oliver	6-16-12	9.07	13.35	11.9		Fail
1-091422-06	Green Mountain Fertilizer Div LD Oliver	20-0-12	22.22	0	14.2		Pass
1-091422-07	Green Mountain Fertilizer Div LD Oliver	19-19-19	19.34	19.9	18.2		Within Tolerance

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>Lab Result K</b>	<b>Micronutrients</b>	<b>Sample Status</b>
1-091422-08	Green Mountain Fertilizer Div LD Oliver	10-20-10	12.96	23.3	10		Pass
1-091422-09	Green Mountain Fertilizer Div LD Oliver	5-15-30	5.39	10.8	30.2		Fail
1-091422-10	Green Mountain Fertilizer Div LD Oliver	15-10-15	15.49	11.4	14.2		Within Tolerance
1-091422-11	Green Mountain Fertilizer Div LD Oliver	8-16-16	7.42	14.2	16.1		Fail
1-091422-12	Green Mountain Fertilizer Div LD Oliver	20-0-12	17.29	0	13.6		Fail
1-091422-13	Green Mountain Fertilizer Div LD Oliver	6-16-12	5.93	8.65	8.74		Fail
1-091422-14	Green Mountain Fertilizer Div LD Oliver	6-0-12	6.47	0	10.33	Pass	Fail
1-091422-15	Green Mountain Fertilizer Div LD Oliver	23-12-18	28.83	12.4	10.45		Fail
1-091422-16	Green Mountain Fertilizer Div LD Oliver	46-0-0	44.91	0	0		Within Tolerance
1-091422-17	Green Mountain Fertilizer Div LD Oliver	15-8-12	18.37	7.58	11.4		Within Tolerance
1-091422-18	Green Mountain Fertilizer Div LD Oliver	10-0-10	4.52	0	8.55		Fail



<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>Lab Result K</b>	<b>Micronutrients</b>	<b>Sample Status</b>
1-091422-19	Green Mountain Fertilizer Div LD Oliver	13-13-13	12.97	9.25	12.9		Fail
1-091422-20	Green Mountain Fertilizer Div LD Oliver	6-5-11	7.48	4.25	10.2		Within Tolerance
222008	Jr Peters Inc	20-20-20	20.47	21.00	22.60		Pass
222006	Knox Fertilizer Company Inc	10-15-10	9.94	15.40	10.30		Within Tolerance
12-041822-01	Lawes Agricultural Service Inc	39-8-0-0	35.45	.00	.00	Pass	Fail
12-041822-02	Lawes Agricultural Service Inc	0-0-60	.00	.00	60.90		Pass
12-051622-01	Lawes Agricultural Service Inc	19-19-19	19.60	19.90	18.10		Within Tolerance
12-051622-02	Lawes Agricultural Service Inc	5-10-10	8.09	13.30	13.65		Pass
12-051622-03	Lawes Agricultural Service Inc	15-15-15	12.45	18.70	14.30		Fail
12-051622-04	Lawes Agricultural Service Inc	10-20-10	11.60	19.30	12.30		Within Tolerance
12-051622-05	Lawes Agricultural Service Inc	26-6-21	22.05	7.63	23.45		Fail
12-051622-06	Lawes Agricultural Service Inc	13-13-13	13.40	11.67	14.73		Fail
12-051622-07	Lawes Agricultural Service Inc	46-0-0	44.94	.00	.00		Within Tolerance
12-051622-08	Lawes Agricultural Service Inc	19-19-19	21.40	18.80	16.93		Fail
12-041122-02	North Country Organics	5-3-4	4.56	3.87	3.55		Within Tolerance
12-041122-03	North Country Organics	4-6-4	3.91	10.20	3.68		Within Tolerance

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>Lab Result K</b>	<b>Micronutrients</b>	<b>Sample Status</b>
12-041122-04	North Country Organics	8-1-9	6.83	1.71	7.41		Fail
12-041122-05	North Country Organics	6-0-6	3.84	.00	7.09		Fail
452214	Northeast Agricultural Sales Inc	10-20-20	11.31	20.2	16.4		Fail
452215	Northeast Agricultural Sales Inc	6-24-24	8.58	19.95	23.6		Fail
452216	Northeast Agricultural Sales Inc	19-19-19	19.15	19.5	18		Within Tolerance
452217	Northeast Agricultural Sales Inc	5-10-10	5.68	8.55	9.46		Fail
452218	Northeast Agricultural Sales Inc	34-0-10	30.8	0	12.45		Fail
452219	Northeast Agricultural Sales Inc	0-20-20	0	17.6	21.6		Fail
452220	Northeast Agricultural Sales Inc	10-10-10	10.94	10.1	10.2		Pass
12-041122-01	Northeast Agricultural Sales Inc	40-0-0	41.40	.00	.00	Fail	Within Tolerance
12-041222-01	Northeast Agricultural Sales Inc	40-0-0	39.20	.00	.00	Pass	Within Tolerance
452201	Northeast Agricultural Sales Inc	30-0-20	31.70	.00	18.90		Within Tolerance
452202	Northeast Agricultural Sales Inc	15-10-22	14.70	9.15	22.60	Pass	Within Tolerance
452203	Northeast Agricultural Sales Inc	15-10-28	15.00	11.00	27.20	Pass	Within Tolerance
452204	Northeast Agricultural Sales Inc	20-10-20	18.63	10.60	21.50	Pass	Fail

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>Lab Result K</b>	<b>Micronutrients</b>	<b>Sample Status</b>
452205	Northeast Agricultural Sales Inc	42.5-0-0	43.80	.00	.00	Fail	Pass
452206	Northeast Agricultural Sales Inc	15-15-15	13.11	14.25	16.80		Fail
452207	Northeast Agricultural Sales Inc	20-6-10	17.35	6.44	9.99		Fail
452209	Northeast Agricultural Sales Inc	10-10-10	9.35	10.70	11.40		Within Tolerance
452210	Northeast Agricultural Sales Inc	15-13-20	14.60	13.70	20.70	Pass	Within Tolerance
452211	Northeast Agricultural Sales Inc	24-6-12	23.50	5.24	13.20		Within Tolerance
452212	Northeast Agricultural Sales Inc	30-0-0	28.45	.00	.00	Pass	Fail
222004	Ocean Crest Seafoods Inc	2-4-1	2.13	4.40	.23		Fail
222005	Scotts Company	15-9-12	15.47	9.01	12.00	Pass	Pass
222002	United Compost & Organics Db Fox Farm	38025	3.43	6.88	4.24		Fail
222017	Upper Valley GrowPro,LLC DBA White River GrowPro	0-6-0	0	5.23	0		Within Tolerance
12-100522-01	Winfield Solutions Llc	24-0-4	23.8	0	3.88		Within Tolerance
452208	Yara Canada Inc	46-0-0	46.70	.00	.00		Pass

2023 Fertilizer Sample Results

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>La Result K</b>	<b>Micronutrients Status</b>	<b>Sample Status</b>
12-041123-09	Agrico Canada LP	18-46-0	17.19	44.55	.00		Fail
1-051623-02	Bourdeau Brothers - Sheldon	10-34-0	9.23	27.10	.00		Fail
1-051623-03	Bourdeau Brothers - Sheldon	32-0-0	28.95	.00	.00		Fail
12-041123-05	Bourdeau Brothers of Middlebury	0-0-60	.00	.00	62.80		Pass
12-041123-04	Bourdeau Brothers of Middlebury	21-0-0	21.21	.00	.00		Pass
12-041123-03	Bourdeau Brothers of Middlebury	46-0-0	46.63	.00	.00		Pass
12-041123-02	Bourdeau Brothers of Middlebury	19-0-9	16.33	.00	10.80		Fail
12-041123-01	Bourdeau Brothers of Middlebury	24-12-18	25.47	12.40	19.20		Pass
12-042023-01	Bourdeau Brothers of Middlebury	29-5-7	28.43	5.17	7.41	Pass	Within Tolerance
12-042023-02	Bourdeau Brothers of Middlebury	46-0-0	46.68	.00	.00		Pass
12-042023-03	Bourdeau Brothers of Middlebury	39-0-0	40.81	.00	.00	Pass	Pass
12-042023-04	Bourdeau Brothers of Middlebury	39-0-0	39.59	.00	.00	Within Tolerance	Within Tolerance
12-042023-05	Bourdeau Brothers of Middlebury	6-15-40	5.53	15.10	42.00		Within Tolerance
12-042023-06	Bourdeau Brothers of Middlebury	39-0-0	39.60	.00	.00	Fail	Pass

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>La Result K</b>	<b>Micronutrients Status</b>	<b>Sample Status</b>
12-041823-01	Carolina Eastern Vail Inc	46-0-0	46.89	.00	.00		Pass
12-041823-02	Carolina Eastern Vail Inc	14-0-37	11.78	.00	36.90	Pass	Fail
12-041823-03	Carolina Eastern Vail Inc	0-0-55	.00	.00	57.50	Pass	Pass
223007	Carolina Eastern Vail Inc	46-0-0	46.42	.00	.00		Pass
223008	Carolina Eastern Vail Inc	15-8-12	10.66	7.61	11.30		Fail
223009	Carolina Eastern Vail Inc	10-10-10	7.61	9.55	9.96		Fail
223010	Carolina Eastern Vail Inc	19-19-19	14.41	23.90	18.80		Fail
223011	Carolina Eastern Vail Inc	10-20-20	9.49	20.20	20.40		Within Tolerance
223012	Carolina Eastern Vail Inc	5-10-10	4.05	9.73	10.20		Fail
452301	G Boucher Fertilizer	32-0-0	31.96	.00	.00		Within Tolerance
1-052523-01	G Boucher Fertilizer	11-0-45	11.21	.00	47.20		Pass
1-052523-02	G Boucher Fertilizer	25-5-18	25.08	4.30	18.40	Pass	Within Tolerance
1-052523-03	G Boucher Fertilizer	46-0-0	46.95	.00	.00		Pass
1-052523-04	G Boucher Fertilizer	0-0-60	.00	.00	62.70		Pass
452325	Giroux's Poultry Farm	4-3-2	4.64	3.26	2.26		Pass
1-051623-01	Green Mountain Fertilizer Div LD Oliver	9-9-39	9.10	9.69	42.50		Pass

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>La Result K</b>	<b>Micronutrients Status</b>	<b>Sample Status</b>
12-050423-01	Lawes Agricultural Service Inc	26-0-8	28.30	.00	6.98		Fail
12-050423-02	Lawes Agricultural Service Inc	30-0-20	31.82	.00	18.90		Within Tolerance
12-050423-03	Lawes Agricultural Service Inc	23-0-30	23.59	.00	29.93		Within Tolerance
12-050423-04	Lawes Agricultural Service Inc	15-15-15	13.77	14.50	15.70		Fail
12-050423-05	Lawes Agricultural Service Inc	35-5-10	36.40	3.57	9.14		Fail
12-050423-06	Lawes Agricultural Service Inc	35-0-10	38.49	.00	9.28		Within Tolerance
223006	Lawes Agricultural Service Inc	23-3-20	23.08	3.28	18.90		Within Tolerance
223005	North Country Organics	5-3-4	4.04	4.40	4.88		Fail
223001	Northern Nurseries	18-24-12	17.22	24.00	12.30		Within Tolerance
223002	Northern Nurseries	32-0-6	29.72	.00	9.15		Fail
223003	Northern Nurseries	8-4-24	9.62	3.95	24.00		Within Tolerance
223004	Northern Nurseries	15-2-8	13.49	3.66	9.78		Fail
452302	Nutrien Ag Solutions	32-0-0	31.52	.00	.00		Within Tolerance
452303	Nutrien Ag Solutions	15-15-15	16.38	14.50	15.90		Within Tolerance
452304	Nutrien Ag Solutions	19-19-19	18.44	21.80	17.80		Within Tolerance
452305	Nutrien Ag Solutions	24-6-12	25.10	6.77	18.50		Pass
452306	Nutrien Ag Solutions	0-20-20	.00	20.10	20.70		Pass
452307	Nutrien Ag Solutions	23-12-18	25.44	12.20	17.15		Within Tolerance

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>La Result K</b>	<b>Micronutrients Status</b>	<b>Sample Status</b>
452308	Nutrien Ag Solutions	23-12-18	22.59	14.00	19.90		Within Tolerance
452309	Nutrien Ag Solutions	12-15-20	11.29	14.60	20.70	Pass	Within Tolerance
452310	Nutrien Ag Solutions	12-15-20	11.30	15.00	19.00	Pass	Within Tolerance
452311	Nutrien Ag Solutions	12-15-20	12.34	15.00	18.90	Pass	Within Tolerance
452312	Nutrien Ag Solutions	12-15-20	11.59	15.10	18.80	Pass	Within Tolerance
452313	Nutrien Ag Solutions	45-0-0	45.40	.00	.00		Pass
452314	Nutrien Ag Solutions	45-0-0	45.06	.00	.00		Pass
452315	Nutrien Ag Solutions	40461	5.89	10.20	12.60		Pass
452316	Nutrien Ag Solutions	5-10-10	45.72	.00	.00		Pass
452317	Nutrien Ag Solutions	45-0-0	46.21	.00	.00		Pass
452318	Nutrien Ag Solutions	45-0-0	40.38	.00	.00		Fail
452319	Nutrien Ag Solutions	46-0-0	46.27	.00	.00		Pass
452320	Nutrien Ag Solutions	26.3-0-25.7	25.48	.00	24.90		Within Tolerance
452321	Nutrien Ag Solutions	25.6-0-20	26.63	.00	19.00		Within Tolerance
452322	Nutrien Ag Solutions	26-0-26	28.78	.00	25.70		Within Tolerance
452323	Nutrien Ag Solutions	46-0-0	44.12	.00	.00		Fail
452324	Nutrien Ag Solutions	4-3-2	4.82	3.25	2.28		Pass
452326	Nutrien Ag Solutions	30.7-0-20	30.94	.00	18.20		Fail
12-122022-01	Ocean Crest Seafoods Inc	2-3-1	1.92	3.63	1.00		Within Tolerance
12-122022-02	United Compost & Organics Db Fox Farm	3-1-0	4.99	2.81	.00		Pass

<b>Sample ID</b>	<b>Business Name</b>	<b>NPK Guarantee</b>	<b>Lab Result N</b>	<b>Lab Result P</b>	<b>La Result K</b>	<b>Micronutrients Status</b>	<b>Sample Status</b>
12-122022-03	United Compost & Organics Db Fox Farm	2-0.2-0.3	1.76	.37	.31		Within Tolerance