

2022

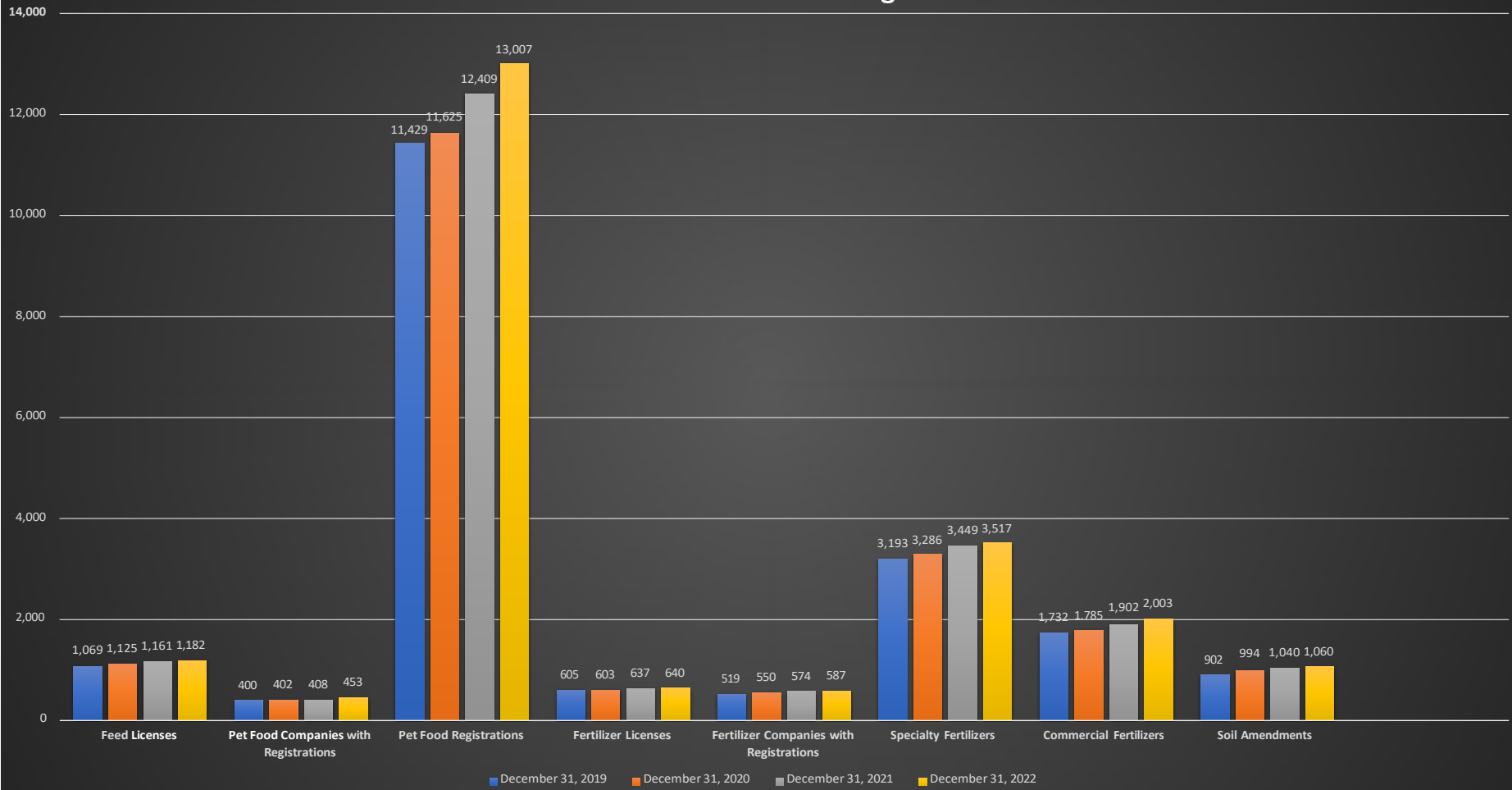
**Montana Commercial
Feed & Fertilizer Report**



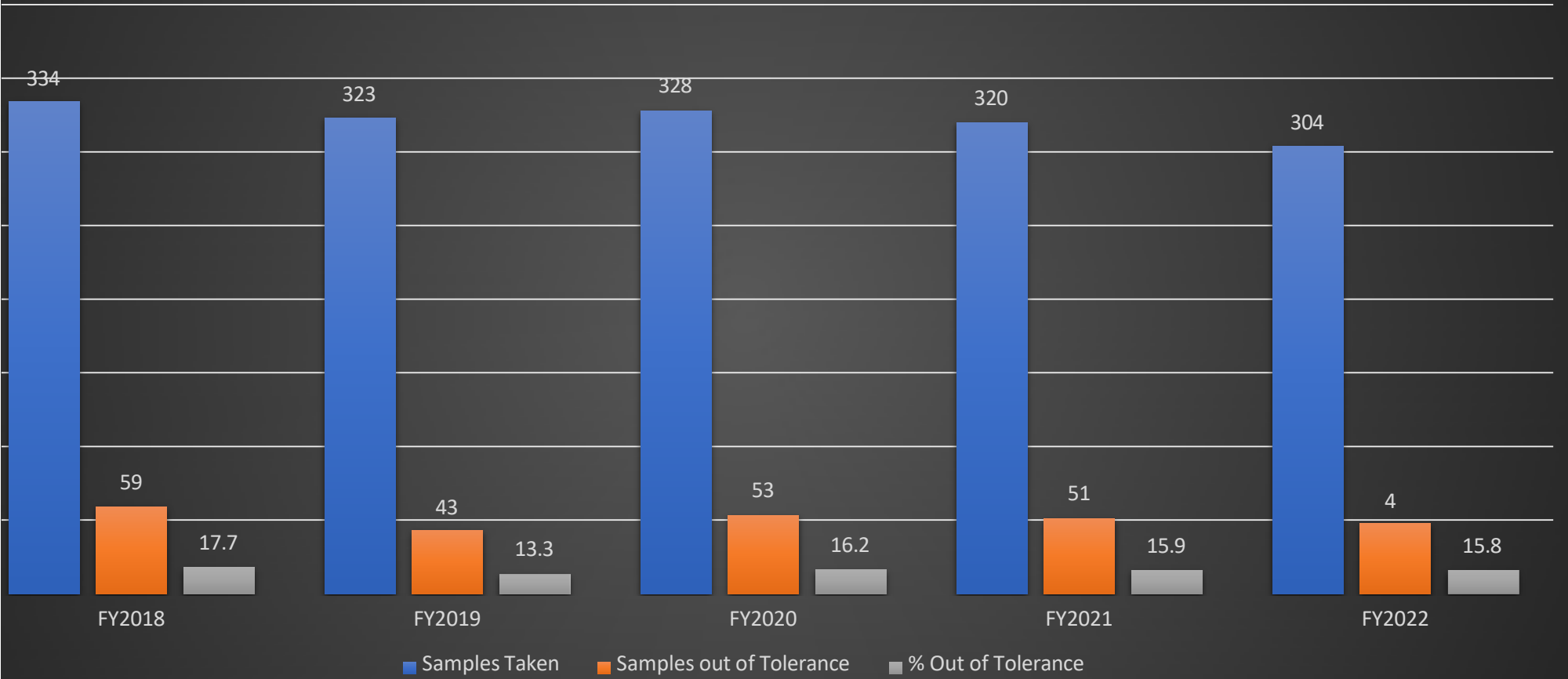
Christy Clark, Director
Ian Foley, Administrator

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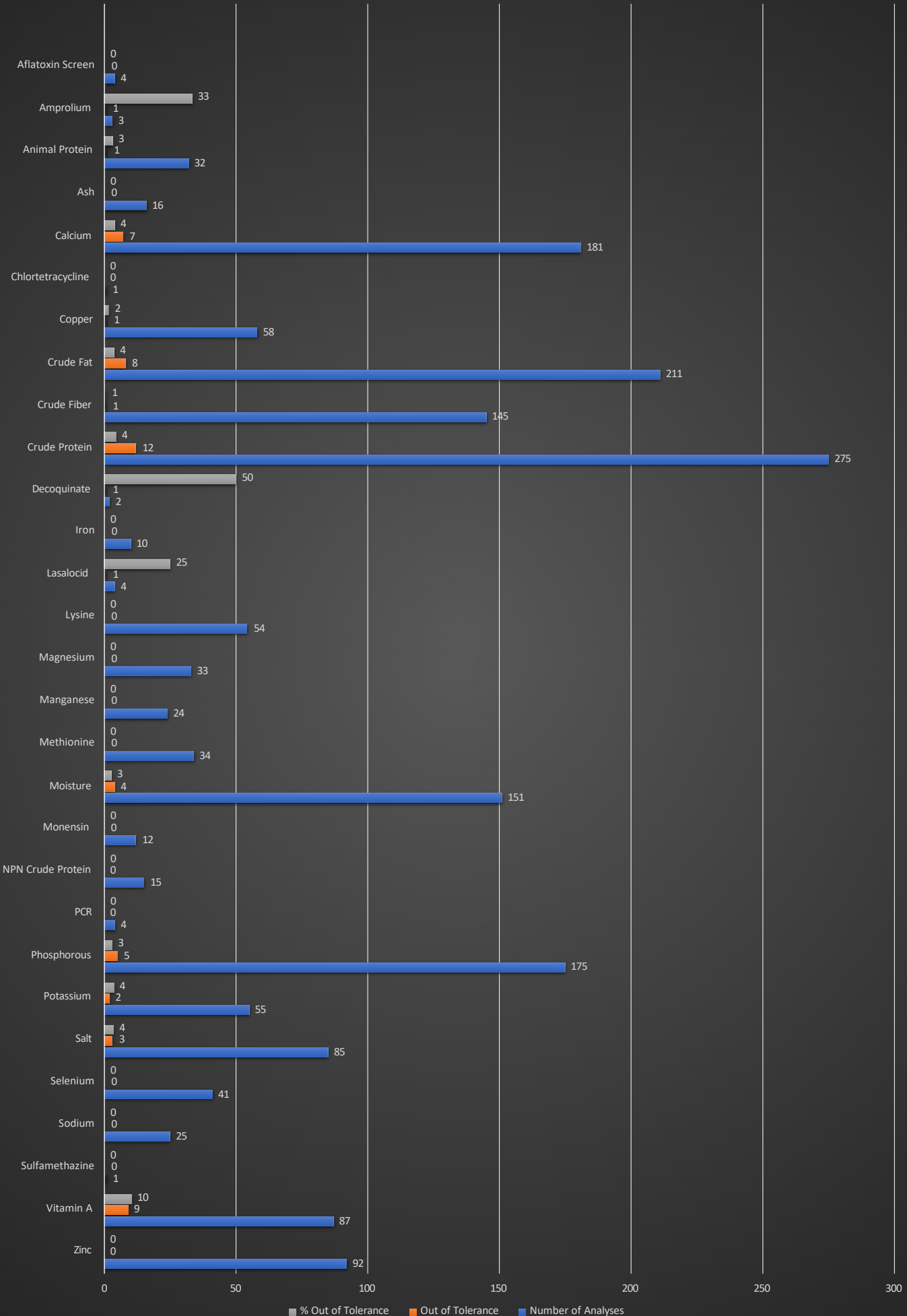
2022 Licenses and Registrations



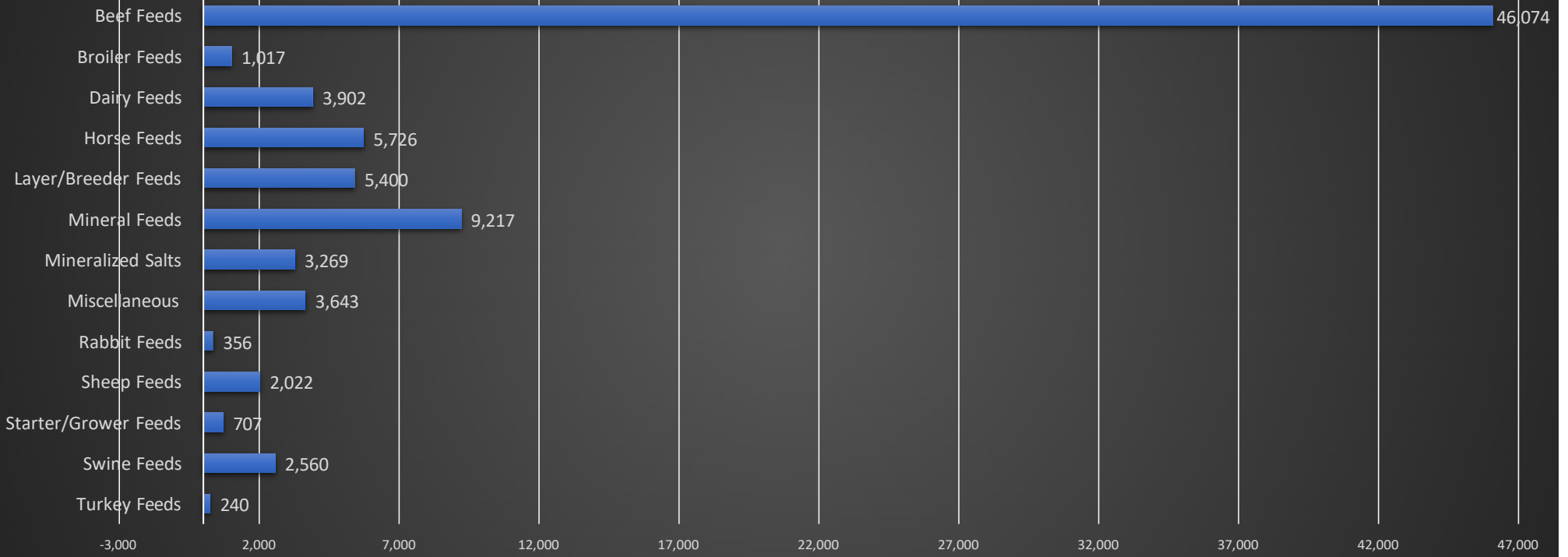
FY2022 Feed Sample History



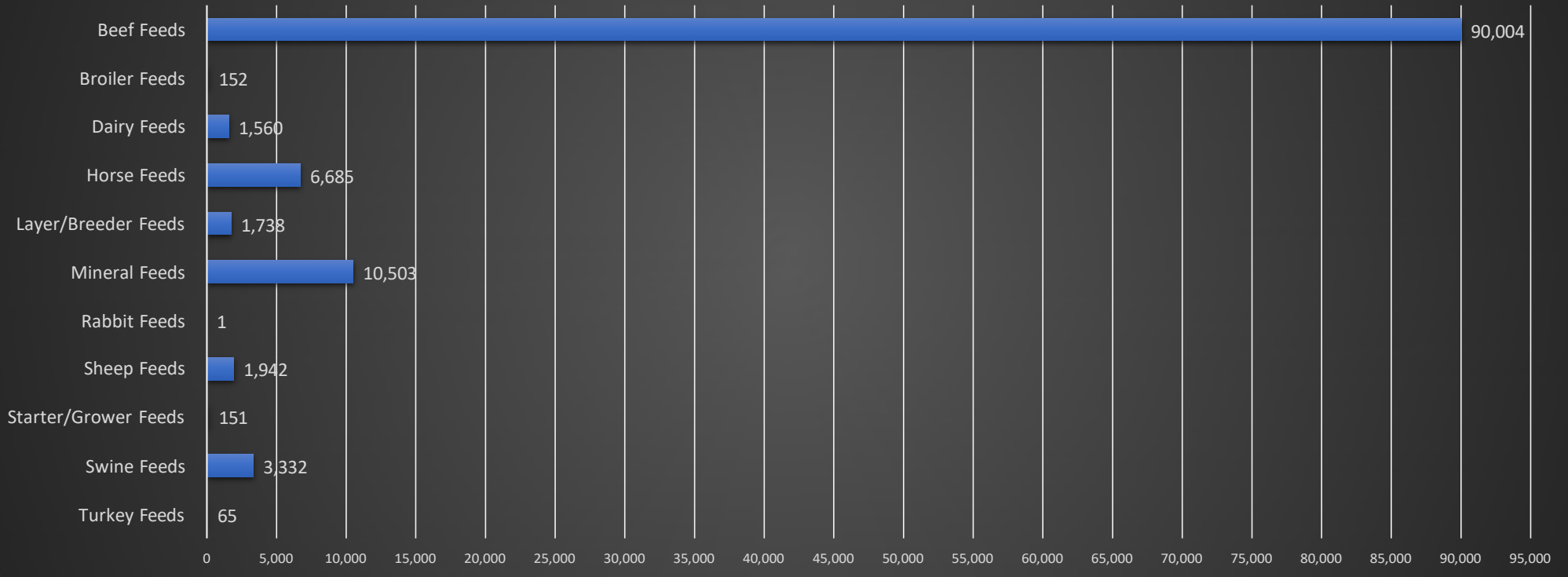
FY2022 Feed Analyte Breakdown



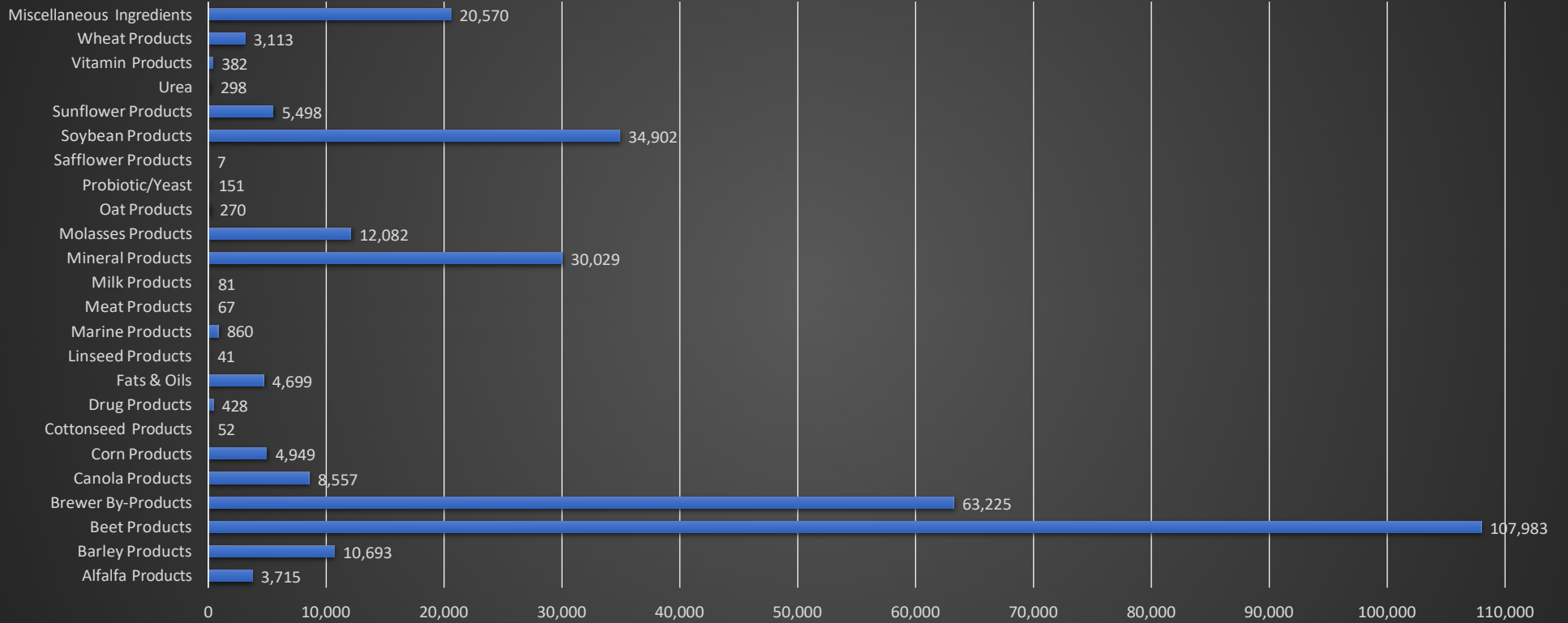
2022 Complete Formula Feeds (84,133 Tons)



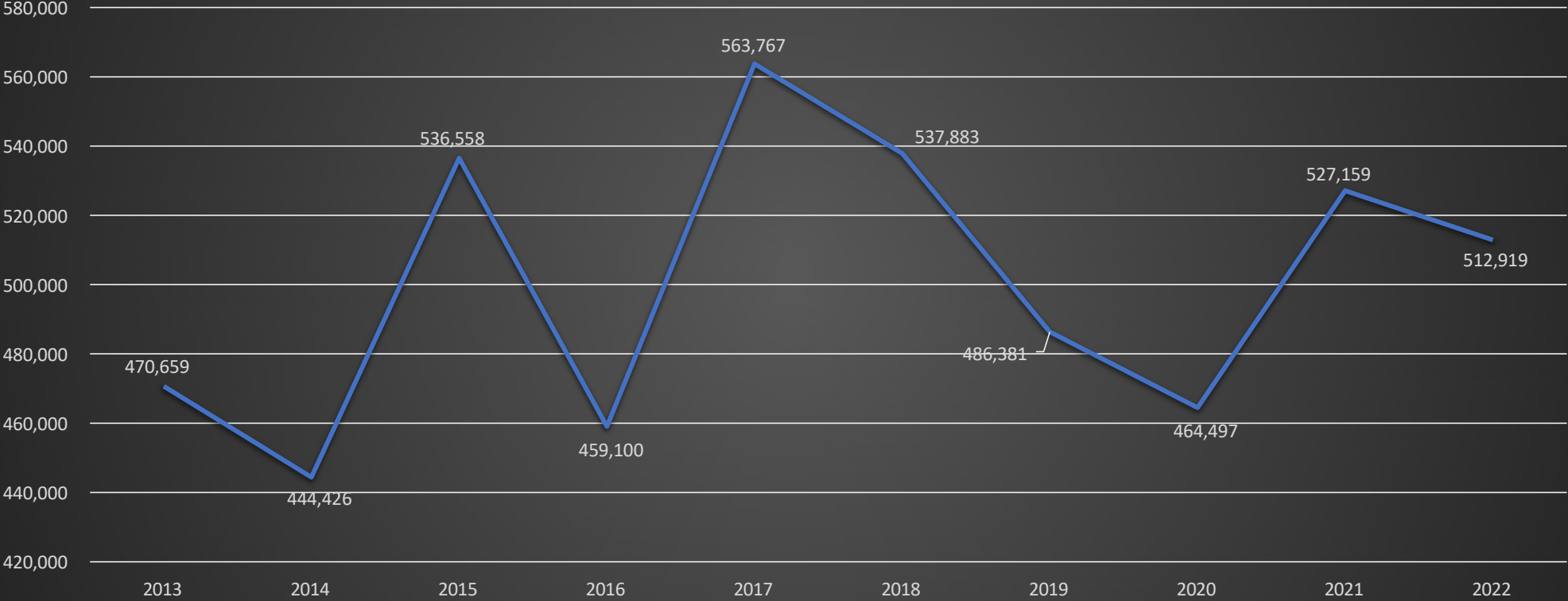
2022 Supplement Formula Feeds (116,133 Tons)



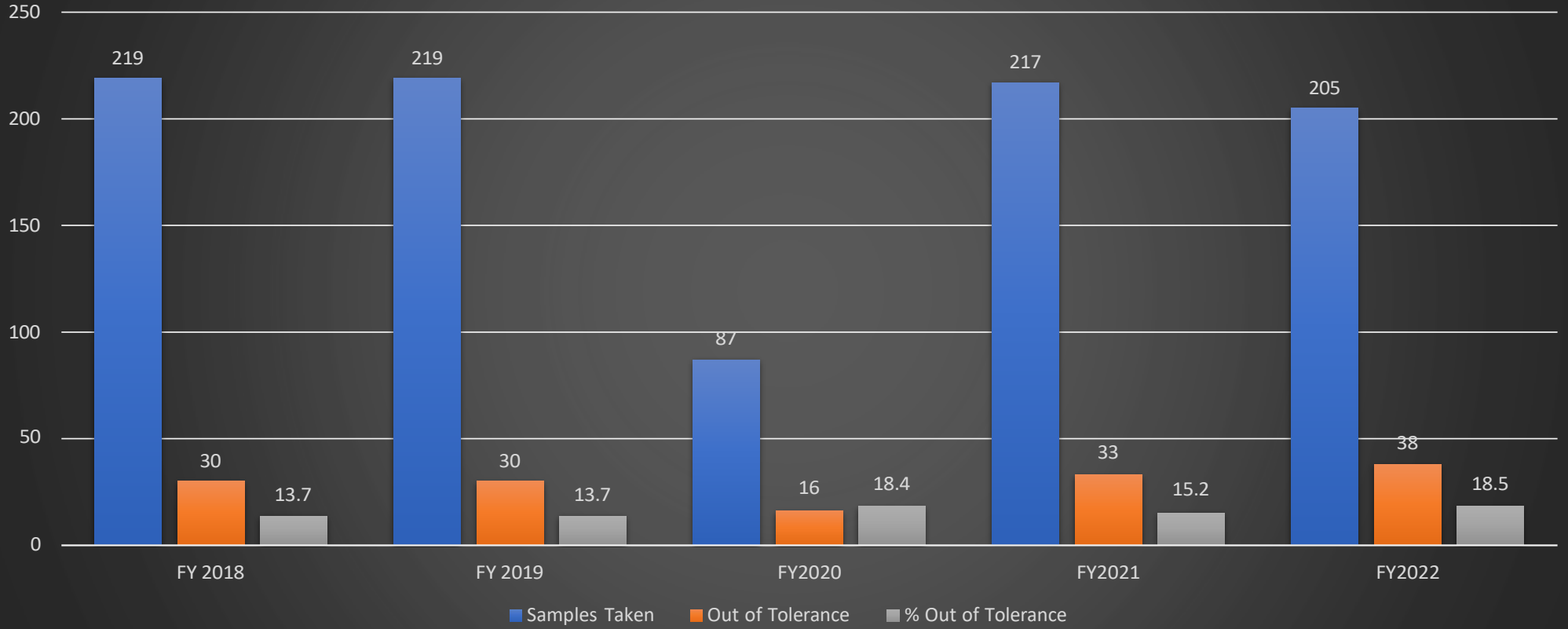
2022 Feed Ingredients (312,652 Tons)



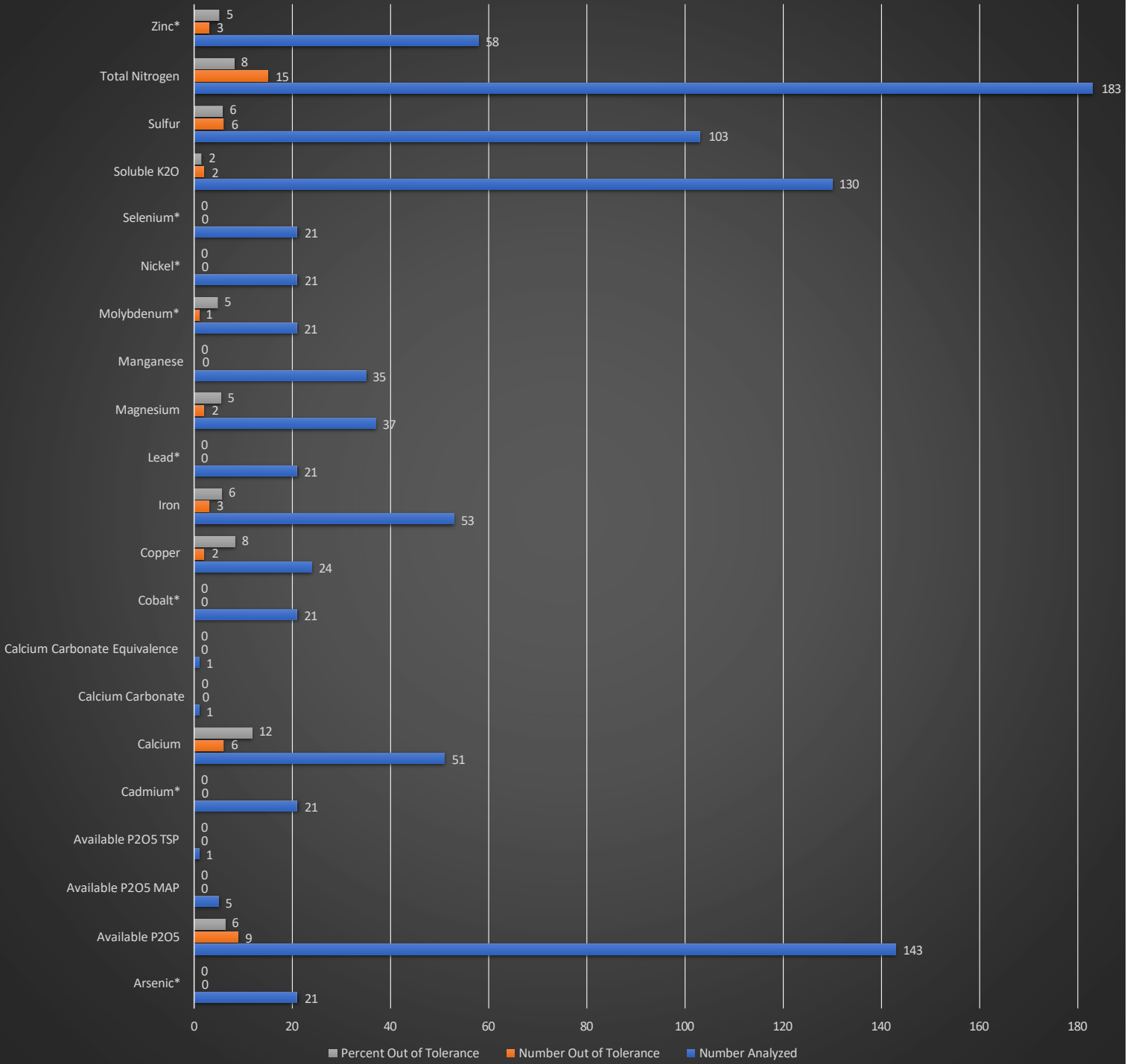
Feed Tonnage History



FY2021 Fertilizer Sample History



FY 2022 Fertilizer Analyte Breakdown



| FERTILIZER | JANUARY - JUNE | | | | JULY - DECEMBER | | | | YEARLY TOTALS |
|---|----------------|---------|--------|--------|-----------------|--------|--------|-------|---------------|
| | 2022 | N | P | K | 2022 | N | P | K | |
| Identified By Grade | 5,620 | 0 | 0 | 0 | 3,061 | 0 | 0 | 0 | 8,681 |
| Anhydrous Ammonia | 1,305 | 1,070 | 0 | 0 | 416 | 341 | 0 | 0 | 1,721 |
| Ammonium Nitrate | 4,655 | 1,583 | 0 | 0 | 1,276 | 434 | 0 | 0 | 5,931 |
| Ammonium Nitrate - Limestone Mixtures | 567 | 116 | 0 | 0 | 141 | 29 | 0 | 0 | 708 |
| Ammonium Nitrate Sulfate | 2,682 | 805 | 0 | 0 | 3,630 | 1,089 | 0 | 0 | 6,312 |
| Ammonium Polysulfide | 0 | 0 | 0 | 0 | 365 | 73 | 0 | 0 | 365 |
| Ammonium Sulfate | 25,283 | 5,309 | 0 | 0 | 9,069 | 1,904 | 0 | 0 | 34,352 |
| Ammonium Sulfate Solution | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Ammonium Sulfate-Urea | 107 | 36 | 0 | 0 | 85 | 28 | 0 | 0 | 192 |
| Ammonium Thiosulfate | 964 | 116 | 0 | 0 | 323 | 39 | 0 | 0 | 1,287 |
| Calcium Ammonium Nitrate | 345 | 59 | 0 | 0 | 2 | 1 | 0 | 0 | 347 |
| Calcium Nitrate | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Ferrous Ammonium Sulfate | 1 | 0.07 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Nitrogen Solution <28% | 2,877 | 0 | 0 | 0 | 961 | 0 | 0 | 0 | 3,838 |
| Nitrogen Solution 28% | 9,527 | 2,668 | 0 | 0 | 3,524 | 987 | 0 | 0 | 13,051 |
| Nitrogen Solution 30% | 286 | 86 | 0 | 0 | 203 | 61 | 0 | 0 | 489 |
| Nitrogen Solution 32% | 4,411 | 1,412 | 0 | 0 | 3,749 | 1,200 | 0 | 0 | 8,160 |
| Nitrogen Solution >32% | 90 | 0 | 0 | 0 | 340 | 0 | 0 | 0 | 430 |
| Urea | 171,122 | 78,716 | 0 | 0 | 80,277 | 36,927 | 0 | 0 | 251,399 |
| Urea Solution | 9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Urea ESN | 2,976 | 1,309 | 0 | 0 | 767 | 337 | 0 | 0 | 3,743 |
| Zinc Ammonium Sulfate Solution | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Zinc Manganese Ammonium Sulfate | 3 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 9 |
| Ammonium Phosphate | 0 | 0 | 0 | 0 | 400 | 44 | 192 | 0 | 400 |
| Diammonium Phosphate | 82 | 15 | 38 | 0 | 4 | 1 | 2 | 0 | 86 |
| Ammonium Phosphate Sulfate | 7,723 | 1,236 | 1,545 | 0 | 498 | 80 | 100 | 0 | 8,221 |
| Monoammonium Phosphate | 45,048 | 4,955 | 23,425 | 0 | 26,260 | 2,889 | 13,655 | 0 | 71,308 |
| Micro Essentials Zinc | 41,623 | 4,995 | 16,649 | 0 | 19,020 | 2,282 | 7,608 | 0 | 60,643 |
| Phosphate Rock | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| Liquid Ammonium Polyphosphate | 1,463 | 146 | 497 | 0 | 432 | 43 | 147 | 0 | 1,895 |
| Manure Salts | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Muriate of Potash 60% | 16,259 | 0 | 0 | 9,755 | 7,490 | 0 | 0 | 4,494 | 23,749 |
| Muriate of Potash 62% | 2,830 | 0 | 0 | 1,755 | 1,143 | 0 | 0 | 709 | 3,973 |
| Potassium-Magnesium Sulfate | 60 | 0 | 0 | 13 | 5 | 0 | 0 | 1 | 65 |
| Potassium Sulfate | 419 | 0 | 0 | 210 | 75 | 0 | 0 | 38 | 494 |
| Compost | 229 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 229 |
| Fish Scrap | 69 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 69 |
| Borax | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Copper Sulfate | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Ferrous Sulfate | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Iron Chelate | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 12 |
| Iron Compound | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| Gypsum (Calcium Sulfate) | 5,246 | 0 | 0 | 0 | 3,611 | 0 | 0 | 0 | 8,857 |
| Calcium Chelate | 8 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 10 |
| Calcium Sulfate (Hydrous) | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 22 |
| Magnesium Chelate | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Soil Amendment | 853 | 0 | 0 | 0 | 2,609 | 0 | 0 | 0 | 3,462 |
| Soil Additive | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 |
| Soil Conditioner | 12,592 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 12,596 |
| Sulphur | 896 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 1,096 |
| Calcium Chloride | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| Zinc Oxide | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Zinc Sulfate | 14 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 24 |
| Secondary/Micronutrient Code Unknown | 4,801 | 0 | 0 | 0 | 4,527 | 0 | 0 | 0 | 9,328 |
| Standard Dolomite | 36 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 65 |
| Calcitic Lime (75% Neutralizing) | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| Lime Product Code Unknown | 5 | 0 | 0 | 0 | 123 | 0 | 0 | 0 | 128 |
| Lime Product Code/Grade Unknown | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| Dolomitic & Calcitic Blend | 308 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 308 |
| Fertilizer Product Code/Grade Unknown | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| TOTALS | 373,460 | | | | 174,683 | | | | 548,143 |
| TOTAL NITROGEN | | 104,642 | | | | 48,790 | | | 153,432 |
| TOTAL AVAILABLE P ₂ O ₅ | | | 42,163 | | | | 21,704 | | 63,866 |
| TOTAL K ₂ O | | | | 11,739 | | | | 5,241 | 16,981 |

Montana Department of Agriculture
Fertilizer Sold in Montana
Reported by Montana Agricultural Statistic Districts

January to June 2021

| FERTILIZER | North West | South West | North Central | Central | South Central | North East | South East | Total |
|---------------------------------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|----------------|
| Identified By Grade | 0 | 26 | 1,621 | 466 | 411 | 1,136 | 1,953 | 5,614 |
| Anhydrous Ammonia | 0 | 0 | 0 | 0 | 0 | 1,098 | 206 | 1,304 |
| Ammonium Nitrate | 491 | 2,926 | 0 | 296 | 942 | 0 | 0 | 4,655 |
| Ammonium Nitrate - Limestone Mixtures | 0 | 0 | 0 | 0 | 0 | 418 | 149 | 567 |
| Ammonium Nitrate Sulfate | 0 | 0 | 0 | 0 | 0 | 0 | 2,682 | 2,682 |
| Ammonium Sulfate | 2,376 | 3,064 | 6,667 | 3,270 | 2,439 | 7,102 | 366 | 25,283 |
| Ammonium Sulfate-Urea | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 107 |
| Ammonium Thiosulfate | 0 | 190 | 291 | 237 | 131 | 51 | 63 | 963 |
| Calcium Ammonium Nitrate | 0 | 0 | 0 | 0 | 345 | 0 | 0 | 345 |
| Calcium Nitrate | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Ferrous Ammonium Sulfate | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Nitrogen Solution <28% | 0 | 0 | 677 | 323 | 1,810 | 67 | 0 | 2,877 |
| Nitrogen Solution 28% | 68 | 0 | 5,976 | 905 | 25 | 2,011 | 542 | 9,527 |
| Nitrogen Solution 30% | 0 | 0 | 35 | 0 | 251 | 0 | 0 | 286 |
| Nitrogen Solution 32% | 196 | 953 | 1,004 | 564 | 1,650 | 0 | 42 | 4,410 |
| Nitrogen Solution >32% | 3 | 0 | 87 | 0 | 0 | 0 | 0 | 90 |
| Urea | 6,074 | 6,496 | 56,950 | 17,085 | 16,635 | 63,786 | 4,097 | 171,122 |
| Urea Solution | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Urea ESN | 156 | 585 | 443 | 6 | 16 | 519 | 1,252 | 2,977 |
| Zinc Ammonium Sulfate Solution | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Zinc Manganese Ammonium Sulfate | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| Diammonium Phosphate | 0 | 0 | 0 | 0 | 82 | 0 | 0 | 82 |
| Ammonium Phosphate Sulfate | 820 | 1,745 | 4,582 | 212 | 339 | 25 | 0 | 7,723 |
| Monoammonium Phosphate | 1,944 | 4,169 | 13,035 | 5,806 | 3,614 | 15,439 | 1,041 | 45,048 |
| Micro Essentials Zinc | 665 | 455 | 9,230 | 5,224 | 1,195 | 23,038 | 1,816 | 41,624 |
| Liquid Ammonium Polyphosphate | 0 | 211 | 264 | 213 | 93 | 650 | 31 | 1,462 |
| Manure Salts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Potash Suspensions | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Muriate of Potash 60% | 863 | 1,819 | 4,162 | 2,489 | 1,999 | 3,867 | 1,060 | 16,259 |
| Muriate of Potash 62% | 1,803 | 0 | 311 | 118 | 131 | 467 | 0 | 2,830 |
| Potassium-Magnesium Sulfate | 59 | 0 | 0 | 0 | 1 | 0 | 0 | 60 |
| Potassium Sulfate | 0 | 419 | 0 | 0 | 0 | 0 | 0 | 419 |
| Compost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 229 |
| Fish Scrap | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 |
| Borax | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Copper Sulfate | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Ferrous Sulfate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Iron Chelate | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 10 |
| Gypsum (Calcium Sulfate) | 245 | 69 | 0 | 0 | 4,930 | 1 | 0 | 5,245 |
| Calcium Chelate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Magnesium Chelate | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Soil Amendment | 2 | 0 | 584 | 27 | 239 | 0 | 0 | 853 |
| Soil Additive | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| Soil Conditioner | 0 | 0 | 7 | 0 | 12,585 | 0 | 0 | 12,592 |
| Sulphur | 128 | 279 | 72 | 200 | 6 | 210 | 0 | 895 |
| Zinc Oxide | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Zinc Sulfate | 0 | 0 | 0 | 9 | 0 | 5 | 0 | 14 |
| Zinc Chelate | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Secondary/Micronutrient Code Unknown | 326 | 69 | 3,654 | 662 | 36 | 47 | 6 | 4,800 |
| Standard Dolomite | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| Lime Product Code Unknown | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| Dolomitic & Calcitic Blend | 308 | 0 | 0 | 0 | 0 | 0 | 0 | 308 |
| TOTALS | 16,662 | 23,483 | 109,656 | 38,113 | 49,915 | 119,937 | 15,304 | 373,453 |

Montana Department of Agriculture
Fertilizer Sold in Montana
Reported by Montana Agricultural Statistic Districts

July - December 2021

| FERTILIZER | North West | South West | North Central | Central | South Central | North East | South East | Total |
|---------------------------------------|--------------|--------------|---------------|---------------|---------------|---------------|--------------|----------------|
| Identified By Grade | 0 | 1 | 1,526 | 281 | 354 | 796 | 111 | 3,069 |
| Anhydrous Ammonia | 0 | 0 | 0 | 0 | 0 | 124 | 292 | 416 |
| Ammonium Nitrate | 0 | 623 | 0 | 273 | 380 | 0 | 0 | 1,276 |
| Ammonium Nitrate - Limestone Mixtures | 0 | 0 | 0 | 0 | 0 | 71 | 70 | 141 |
| Ammonium Nitrate Sulfate | 0 | 0 | 0 | 0 | 0 | 0 | 3,630 | 3,630 |
| Ammonium Polysulfide | 0 | 0 | 0 | 0 | 365 | 0 | 0 | 365 |
| Ammonium Sulfate | 145 | 1,313 | 4,464 | 1,843 | 424 | 684 | 196 | 9,068 |
| Ammonium Sulfate Solution | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Ammonium Sulfate-Urea | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 85 |
| Ammonium Thiosulfate | 0 | 16 | 221 | 79 | 6 | 0 | 0 | 323 |
| Calcium Ammonium Nitrate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Nitrogen Solution <28% | 0 | 0 | 46 | 0 | 185 | 729 | 0 | 961 |
| Nitrogen Solution 28% | 0 | 24 | 2,218 | 189 | 104 | 841 | 146 | 3,523 |
| Nitrogen Solution 30% | 0 | 0 | 142 | 0 | 61 | 0 | 0 | 203 |
| Nitrogen Solution 32% | 0 | 222 | 860 | 1,757 | 612 | 1 | 296 | 3,749 |
| Nitrogen Solution >32% | 0 | 0 | 340 | 0 | 0 | 0 | 0 | 340 |
| Urea | 150 | 1,646 | 37,182 | 9,719 | 13,816 | 15,698 | 2,066 | 80,276 |
| Urea ESN | 0 | 41 | 286 | 0 | 20 | 381 | 38 | 766 |
| Zinc Manganese Ammonium Sulfate | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 6 |
| Ammonium Phosphate | 0 | 0 | 400 | 0 | 0 | 0 | 0 | 400 |
| Diammonium Phosphate | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 4 |
| Ammonium Phosphate Sulfate | 46 | 168 | 189 | 34 | 60 | 1 | 0 | 498 |
| Monoammonium Phosphate | 188 | 994 | 14,270 | 6,411 | 2,285 | 1,671 | 439 | 26,259 |
| Micro Essentials Zinc | 0 | 41 | 7,195 | 5,679 | 2,777 | 1,967 | 1,363 | 19,021 |
| Phosphate Rock | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Liquid Ammonium Polyphosphate | 0 | 0 | 277 | 95 | 60 | 0 | 0 | 432 |
| Muriate of Potash 60% | 121 | 461 | 2,449 | 1,530 | 1,245 | 1,179 | 503 | 7,488 |
| Muriate of Potash 62% | 38 | 0 | 573 | 205 | 39 | 287 | 0 | 1,142 |
| Potassium-Magnesium Sulfate | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Potassium Sulfate | 0 | 75 | 0 | 0 | 0 | 0 | 0 | 75 |
| Iron Chelate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Iron Compound | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Gypsum (Calcium Sulfate) | 57 | 0 | 0 | 1 | 3,551 | 1 | 1 | 3,611 |
| Calcium Chelate | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Calcium Sulfate (Hydrous) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Soil Amendment | 315 | 0 | 294 | 202 | 1,722 | 76 | 0 | 2,609 |
| Soil Additive | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Soil Conditioner | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Sulphur | 7 | 76 | 19 | 5 | 37 | 55 | 0 | 199 |
| Calcium Chloride | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Zinc Sulfate | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 |
| Secondary/Micronutrient Code Unknown | 56 | 120 | 3,043 | 407 | 854 | 40 | 6 | 4,527 |
| Standard Dolomite | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Calcitic Lime (75% Neutralizing) | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| Lime Product Code Unknown | 123 | 0 | 0 | 0 | 0 | 0 | 0 | 123 |
| Lime Product Code/Grade Unknown | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 3 |
| Fertilizer Product Code/Grade Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| TOTALS | 1,365 | 5,827 | 76,000 | 28,709 | 28,972 | 24,605 | 9,157 | 174,683 |

Fertilizer Tonnage History

