

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS
Turf Samples

of Samples 7,640

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|----------------|---------------|----------------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.5 | | |
| P (ppm) | 65 | | |
| K (ppm) | 147 | K (% Sat) | 2.9 |
| Mg (ppm) | 196 | Mg (% Sat) | 13.0 |
| Ca (ppm) | 1,682 | Ca (% Sat) | 62.8 |
| CEC | 12.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|-----------------------|----------------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K2O (LB/A) | 2 |
| MGO (LB/a) | 25 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|--------------|---------------------|----|
| COUNTY: | Adams | # of Samples | 45 |
|----------------|--------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.6 | | |
| Acidity (meq/100 g) | 2.1 | | |
| P (ppm) | 60 | | |
| K (ppm) | 185 | K (% Sat) | 3.2 |
| Mg (ppm) | 223 | Mg (% Sat) | 3.3 |
| Ca (ppm) | 1,843 | Ca (% Sat) | 65.6 |
| CEC | 13.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 23 |

| | | | |
|----------------|------------------|---------------------|-----|
| COUNTY: | Allegheny | # of Samples | 284 |
|----------------|------------------|---------------------|-----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.5 | | |
| P (ppm) | 73 | | |
| K (ppm) | 140 | K (% Sat) | 2.3 |
| Mg (ppm) | 228 | Mg (% Sat) | 6.5 |
| Ca (ppm) | 2,428 | Ca (% Sat) | 68.6 |
| CEC | 15.7 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 26 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: **Armstrong** **# of Samples** **14**

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.8 | | |
| P (ppm) | 68 | | |
| K (ppm) | 154 | K (% Sat) | 2.9 |
| Mg (ppm) | 184 | Mg (% Sat) | 3.4 |
| Ca (ppm) | 1,990 | Ca (% Sat) | 63.4 |
| CEC | 13.7 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 5 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 54 |

COUNTY: **Beaver** **# of Samples** **41**

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 3.1 | | |
| P (ppm) | 38 | | |
| K (ppm) | 122 | K (% Sat) | 2.4 |
| Mg (ppm) | 182 | Mg (% Sat) | 12.0 |
| Ca (ppm) | 1,705 | Ca (% Sat) | 61.0 |
| CEC | 13.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 25 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

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|----------------|----------------|---------------------|----|
| COUNTY: | Bedford | # of Samples | 12 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.6 | | |
| Acidity (meq/100 g) | 1.7 | | |
| P (ppm) | 34 | | |
| K (ppm) | 123 | K (% Sat) | 3.0 |
| Mg (ppm) | 162 | Mg (% Sat) | 10.7 |
| Ca (ppm) | 1,691 | Ca (% Sat) | 68.6 |
| CEC | 11.7 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 65 |

| | | | |
|----------------|--------------|---------------------|-----|
| COUNTY: | Berks | # of Samples | 226 |
|----------------|--------------|---------------------|-----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.5 | | |
| P (ppm) | 64 | | |
| K (ppm) | 163 | K (% Sat) | 2.9 |
| Mg (ppm) | 217 | Mg (% Sat) | 7.3 |
| Ca (ppm) | 1,738 | Ca (% Sat) | 62.2 |
| CEC | 13.0 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 14 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

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|----------------|--------------|---------------------|----|
| COUNTY: | Blair | # of Samples | 55 |
|----------------|--------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.7 | | |
| Acidity (meq/100 g) | 1.8 | | |
| P (ppm) | 77 | | |
| K (ppm) | 148 | K (% Sat) | 2.6 |
| Mg (ppm) | 219 | Mg (% Sat) | 9.3 |
| Ca (ppm) | 2,290 | Ca (% Sat) | 70.5 |
| CEC | 14.4 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 32 |

| | | | |
|----------------|-----------------|---------------------|----|
| COUNTY: | Bradford | # of Samples | 29 |
|----------------|-----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 5.9 | | |
| Acidity (meq/100 g) | 6.0 | | |
| P (ppm) | 14 | | |
| K (ppm) | 86 | K (% Sat) | 2.0 |
| Mg (ppm) | 72 | Mg (% Sat) | 1.9 |
| Ca (ppm) | 1,076 | Ca (% Sat) | 44.8 |
| CEC | 12.0 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 10 |
| K20 (LB/A) | 4 |
| MGO (LB/a) | 114 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Bucks **# of Samples** 166

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.1 | | |
| Acidity (meq/100 g) | 3.7 | | |
| P (ppm) | 71 | | |
| K (ppm) | 134 | K (% Sat) | 2.9 |
| Mg (ppm) | 186 | Mg (% Sat) | 10.0 |
| Ca (ppm) | 1,236 | Ca (% Sat) | 51.0 |
| CEC | 11.7 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 24 |

COUNTY: Butler **# of Samples** 100

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.3 | | |
| Acidity (meq/100 g) | 3.2 | | |
| P (ppm) | 39 | | |
| K (ppm) | 121 | K (% Sat) | 2.4 |
| Mg (ppm) | 151 | Mg (% Sat) | 8.0 |
| Ca (ppm) | 1,703 | Ca (% Sat) | 61.7 |
| CEC | 13.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 47 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|----------------|---------------------|----|
| COUNTY: | Cambria | # of Samples | 45 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.9 | | |
| P (ppm) | 29 | | |
| K (ppm) | 98 | K (% Sat) | 1.8 |
| Mg (ppm) | 229 | Mg (% Sat) | 6.5 |
| Ca (ppm) | 1,846 | Ca (% Sat) | 62.5 |
| CEC | 13.9 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 6 |

| | | | |
|----------------|----------------|---------------------|---|
| COUNTY: | Cameron | # of Samples | 5 |
|----------------|----------------|---------------------|---|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 5.6 | | |
| Acidity (meq/100 g) | 5.0 | | |
| P (ppm) | 41 | | |
| K (ppm) | 73 | K (% Sat) | 1.7 |
| Mg (ppm) | 136 | Mg (% Sat) | 5.1 |
| Ca (ppm) | 845 | Ca (% Sat) | 36.0 |
| CEC | 10.5 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 7 |
| K20 (LB/A) | 4 |
| MGO (LB/a) | 28 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Carbon **# of Samples** 12

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.7 | | |
| Acidity (meq/100 g) | 2.3 | | |
| P (ppm) | 92 | | |
| K (ppm) | 159 | K (% Sat) | 2.6 |
| Mg (ppm) | 203 | Mg (% Sat) | 7.8 |
| Ca (ppm) | 2,401 | Ca (% Sat) | 71.4 |
| CEC | 15.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 6 |

COUNTY: Centre **# of Samples** 148

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.7 | | |
| Acidity (meq/100 g) | 1.8 | | |
| P (ppm) | 60 | | |
| K (ppm) | 152 | K (% Sat) | 3.0 |
| Mg (ppm) | 227 | Mg (% Sat) | 9.9 |
| Ca (ppm) | 1,932 | Ca (% Sat) | 66.4 |
| CEC | 12.9 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 22 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|----------------|---------------------|-----|
| COUNTY: | Chester | # of Samples | 195 |
|----------------|----------------|---------------------|-----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.6 | | |
| Acidity (meq/100 g) | 2.2 | | |
| P (ppm) | 63 | | |
| K (ppm) | 183 | K (% Sat) | 3.8 |
| Mg (ppm) | 213 | Mg (% Sat) | 6.1 |
| Ca (ppm) | 1,629 | Ca (% Sat) | 61.4 |
| CEC | 12.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 31 |

| | | | |
|----------------|----------------|---------------------|----|
| COUNTY: | Clarion | # of Samples | 16 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.9 | | |
| P (ppm) | 85 | | |
| K (ppm) | 112 | K (% Sat) | 2.2 |
| Mg (ppm) | 182 | Mg (% Sat) | 4.8 |
| Ca (ppm) | 1,700 | Ca (% Sat) | 64.6 |
| CEC | 13.2 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 18 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-------------------|---------------------|----|
| COUNTY: | Clearfield | # of Samples | 47 |
|----------------|-------------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.3 | | |
| Acidity (meq/100 g) | 3.5 | | |
| P (ppm) | 70 | | |
| K (ppm) | 154 | K (% Sat) | 2.7 |
| Mg (ppm) | 233 | Mg (% Sat) | 2.4 |
| Ca (ppm) | 1,762 | Ca (% Sat) | 58.4 |
| CEC | 14.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 19 |

| | | | |
|----------------|----------------|---------------------|----|
| COUNTY: | Clinton | # of Samples | 12 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.8 | | |
| Acidity (meq/100 g) | 1.7 | | |
| P (ppm) | 63 | | |
| K (ppm) | 108 | K (% Sat) | 2.1 |
| Mg (ppm) | 144 | Mg (% Sat) | 10.2 |
| Ca (ppm) | 2,552 | Ca (% Sat) | 74.6 |
| CEC | 13.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 5 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 10 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-----------------|---------------------|----|
| COUNTY: | Columbia | # of Samples | 18 |
|----------------|-----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.0 | | |
| Acidity (meq/100 g) | 4.0 | | |
| P (ppm) | 109 | | |
| K (ppm) | 114 | K (% Sat) | 2.4 |
| Mg (ppm) | 143 | Mg (% Sat) | 7.7 |
| Ca (ppm) | 1,590 | Ca (% Sat) | 51.9 |
| CEC | 12.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 68 |

| | | | |
|----------------|-----------------|---------------------|----|
| COUNTY: | Crawford | # of Samples | 15 |
|----------------|-----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 3.3 | | |
| P (ppm) | 68 | | |
| K (ppm) | 121 | K (% Sat) | 2.7 |
| Mg (ppm) | 187 | Mg (% Sat) | 12.5 |
| Ca (ppm) | 1,518 | Ca (% Sat) | 57.3 |
| CEC | 12.7 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 18 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-------------------|---------------------|-----|
| COUNTY: | Cumberland | # of Samples | 228 |
|----------------|-------------------|---------------------|-----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.2 | | |
| P (ppm) | 60 | | |
| K (ppm) | 173 | K (% Sat) | 3.3 |
| Mg (ppm) | 178 | Mg (% Sat) | 9.4 |
| Ca (ppm) | 2,022 | Ca (% Sat) | 68.5 |
| CEC | 13.8 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 50 |

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|----------------|----------------|---------------------|-----|
| COUNTY: | Dauphin | # of Samples | 363 |
|----------------|----------------|---------------------|-----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.3 | | |
| Acidity (meq/100 g) | 3.0 | | |
| P (ppm) | 62 | | |
| K (ppm) | 171 | K (% Sat) | 3.1 |
| Mg (ppm) | 212 | Mg (% Sat) | 8.3 |
| Ca (ppm) | 1,811 | Ca (% Sat) | 62.8 |
| CEC | 14.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 27 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Delaware **# of Samples** 733

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.3 | | |
| Acidity (meq/100 g) | 3.2 | | |
| P (ppm) | 64 | | |
| K (ppm) | 154 | K (% Sat) | 3.2 |
| Mg (ppm) | 219 | Mg (% Sat) | 5.7 |
| Ca (ppm) | 1,458 | Ca (% Sat) | 56.2 |
| CEC | 12.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 18 |

COUNTY: Elk **# of Samples** 6

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.6 | | |
| P (ppm) | 19 | | |
| K (ppm) | 82 | K (% Sat) | 1.5 |
| Mg (ppm) | 150 | Mg (% Sat) | 5.7 |
| Ca (ppm) | 1,958 | Ca (% Sat) | 68.2 |
| CEC | 13.5 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 42 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-------------|---------------------|----|
| COUNTY: | Erie | # of Samples | 32 |
|----------------|-------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.6 | | |
| Acidity (meq/100 g) | 2.5 | | |
| P (ppm) | 68 | | |
| K (ppm) | 95 | K (% Sat) | 2.0 |
| Mg (ppm) | 188 | Mg (% Sat) | 12.7 |
| Ca (ppm) | 1,833 | Ca (% Sat) | 65.1 |
| CEC | 12.8 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 3 |

| | | | |
|----------------|----------------|---------------------|----|
| COUNTY: | Fayette | # of Samples | 40 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.3 | | |
| Acidity (meq/100 g) | 3.0 | | |
| P (ppm) | 29 | | |
| K (ppm) | 110 | K (% Sat) | 2.2 |
| Mg (ppm) | 157 | Mg (% Sat) | 3.1 |
| Ca (ppm) | 1,709 | Ca (% Sat) | 62.4 |
| CEC | 13.0 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 5 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 34 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|---------------|---------------------|---|
| COUNTY: | Forest | # of Samples | 1 |
|----------------|---------------|---------------------|---|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 5.7 | | |
| Acidity (meq/100 g) | 6.3 | | |
| P (ppm) | 26 | | |
| K (ppm) | 82 | K (% Sat) | 1.9 |
| Mg (ppm) | 52 | Mg (% Sat) | 3.9 |
| Ca (ppm) | 860 | Ca (% Sat) | 38.2 |
| CEC | 11.2 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 8 |
| K20 (LB/A) | 4 |
| MGO (LB/a) | 140 |

| | | | |
|----------------|-----------------|---------------------|----|
| COUNTY: | Franklin | # of Samples | 96 |
|----------------|-----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.5 | | |
| P (ppm) | 77 | | |
| K (ppm) | 161 | K (% Sat) | 3.2 |
| Mg (ppm) | 181 | Mg (% Sat) | 9.2 |
| Ca (ppm) | 1,773 | Ca (% Sat) | 66.0 |
| CEC | 13.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 41 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: FRANKLIN

of Samples

5

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 7.1 | | |
| Acidity (meq/100 g) | 0.8 | | |
| P (ppm) | 61 | | |
| K (ppm) | 220 | K (% Sat) | 3.9 |
| Mg (ppm) | 158 | Mg (% Sat) | 10.4 |
| Ca (ppm) | 2,389 | Ca (% Sat) | 82.0 |
| CEC | 14.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 122 |

COUNTY: Greene

of Samples

6

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.0 | | |
| Acidity (meq/100 g) | 3.9 | | |
| P (ppm) | 61 | | |
| K (ppm) | 153 | K (% Sat) | 2.6 |
| Mg (ppm) | 181 | Mg (% Sat) | 13.5 |
| Ca (ppm) | 2,092 | Ca (% Sat) | 61.8 |
| CEC | 15.4 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 27 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-------------------|---------------------|----|
| COUNTY: | Huntingdon | # of Samples | 34 |
|----------------|-------------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.2 | | |
| P (ppm) | 62 | | |
| K (ppm) | 99 | K (% Sat) | 2.4 |
| Mg (ppm) | 135 | Mg (% Sat) | 6.9 |
| Ca (ppm) | 1,381 | Ca (% Sat) | 64.6 |
| CEC | 10.4 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 33 |

| | | | |
|----------------|----------------|---------------------|----|
| COUNTY: | Indiana | # of Samples | 32 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.1 | | |
| Acidity (meq/100 g) | 4.1 | | |
| P (ppm) | 39 | | |
| K (ppm) | 118 | K (% Sat) | 2.4 |
| Mg (ppm) | 209 | Mg (% Sat) | 8.1 |
| Ca (ppm) | 1,614 | Ca (% Sat) | 54.5 |
| CEC | 13.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 6 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 33 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Jefferson **# of Samples** 7

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 5.9 | | |
| Acidity (meq/100 g) | 4.9 | | |
| P (ppm) | 67 | | |
| K (ppm) | 154 | K (% Sat) | 2.6 |
| Mg (ppm) | 209 | Mg (% Sat) | 7.6 |
| Ca (ppm) | 1,684 | Ca (% Sat) | 48.8 |
| CEC | 14.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 8 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 23 |

COUNTY: Juniata **# of Samples** 15

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 7.0 | | |
| Acidity (meq/100 g) | 1.3 | | |
| P (ppm) | 76 | | |
| K (ppm) | 132 | K (% Sat) | 2.9 |
| Mg (ppm) | 205 | Mg (% Sat) | 7.5 |
| Ca (ppm) | 1,983 | Ca (% Sat) | 70.9 |
| CEC | 12.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 5 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 42 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Lackawanna **# of Samples** 44

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.1 | | |
| Acidity (meq/100 g) | 3.7 | | |
| P (ppm) | 52 | | |
| K (ppm) | 80 | K (% Sat) | 1.9 |
| Mg (ppm) | 123 | Mg (% Sat) | 6.0 |
| Ca (ppm) | 1,272 | Ca (% Sat) | 52.6 |
| CEC | 11.2 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 71 |

COUNTY: Lancaster **# of Samples** 1,667

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.6 | | |
| Acidity (meq/100 g) | 1.9 | | |
| P (ppm) | 70 | | |
| K (ppm) | 179 | K (% Sat) | 3.5 |
| Mg (ppm) | 204 | Mg (% Sat) | 9.8 |
| Ca (ppm) | 1,711 | Ca (% Sat) | 66.4 |
| CEC | 12.4 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 23 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Lawrence **# of Samples** 57

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.7 | | |
| P (ppm) | 46 | | |
| K (ppm) | 110 | K (% Sat) | 2.3 |
| Mg (ppm) | 148 | Mg (% Sat) | 6.2 |
| Ca (ppm) | 1,701 | Ca (% Sat) | 64.2 |
| CEC | 12.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 32 |

COUNTY: Lebanon **# of Samples** 96

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.8 | | |
| P (ppm) | 62 | | |
| K (ppm) | 172 | K (% Sat) | 3.3 |
| Mg (ppm) | 206 | Mg (% Sat) | 10.7 |
| Ca (ppm) | 1,730 | Ca (% Sat) | 62.9 |
| CEC | 13.5 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 39 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Lehigh **# of Samples** 207

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.7 | | |
| P (ppm) | 68 | | |
| K (ppm) | 154 | K (% Sat) | 3.0 |
| Mg (ppm) | 188 | Mg (% Sat) | 8.3 |
| Ca (ppm) | 1,755 | Ca (% Sat) | 62.8 |
| CEC | 13.0 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 25 |

COUNTY: Luzerne **# of Samples** 154

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.3 | | |
| Acidity (meq/100 g) | 3.0 | | |
| P (ppm) | 75 | | |
| K (ppm) | 119 | K (% Sat) | 2.5 |
| Mg (ppm) | 149 | Mg (% Sat) | 4.8 |
| Ca (ppm) | 1,456 | Ca (% Sat) | 58.7 |
| CEC | 11.5 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 47 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-----------------|---------------------|----|
| COUNTY: | Lycoming | # of Samples | 38 |
|----------------|-----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.7 | | |
| Acidity (meq/100 g) | 1.6 | | |
| P (ppm) | 62 | | |
| K (ppm) | 121 | K (% Sat) | 2.4 |
| Mg (ppm) | 137 | Mg (% Sat) | 5.6 |
| Ca (ppm) | 2,160 | Ca (% Sat) | 74.3 |
| CEC | 12.8 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 40 |

| | | | |
|----------------|---------------|---------------------|---|
| COUNTY: | McKean | # of Samples | 7 |
|----------------|---------------|---------------------|---|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 5.5 | | |
| Acidity (meq/100 g) | 6.4 | | |
| P (ppm) | 29 | | |
| K (ppm) | 101 | K (% Sat) | 2.0 |
| Mg (ppm) | 155 | Mg (% Sat) | 8.5 |
| Ca (ppm) | 1,081 | Ca (% Sat) | 39.6 |
| CEC | 13.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 19 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Mercer **# of Samples** 53

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.3 | | |
| P (ppm) | 49 | | |
| K (ppm) | 70 | K (% Sat) | 1.5 |
| Mg (ppm) | 155 | Mg (% Sat) | 5.7 |
| Ca (ppm) | 1,817 | Ca (% Sat) | 66.7 |
| CEC | 11.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 4 |
| MGO (LB/a) | 25 |

COUNTY: Mifflin **# of Samples** 9

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.7 | | |
| Acidity (meq/100 g) | 1.5 | | |
| P (ppm) | 93 | | |
| K (ppm) | 129 | K (% Sat) | 2.5 |
| Mg (ppm) | 141 | Mg (% Sat) | 6.8 |
| Ca (ppm) | 1,917 | Ca (% Sat) | 74.1 |
| CEC | 12.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 49 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|---------------|---------------------|----|
| COUNTY: | Monroe | # of Samples | 24 |
|----------------|---------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.8 | | |
| P (ppm) | 89 | | |
| K (ppm) | 126 | K (% Sat) | 2.3 |
| Mg (ppm) | 139 | Mg (% Sat) | 7.8 |
| Ca (ppm) | 1,846 | Ca (% Sat) | 63.0 |
| CEC | 12.9 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 60 |

| | | | |
|----------------|-------------------|---------------------|-------|
| COUNTY: | Montgomery | # of Samples | 1,345 |
|----------------|-------------------|---------------------|-------|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.4 | | |
| P (ppm) | 72 | | |
| K (ppm) | 111 | K (% Sat) | 2.5 |
| Mg (ppm) | 188 | Mg (% Sat) | 8.5 |
| Ca (ppm) | 1,419 | Ca (% Sat) | 61.4 |
| CEC | 11.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 10 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|----------------|---------------------|----|
| COUNTY: | Montour | # of Samples | 19 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 5.9 | | |
| Acidity (meq/100 g) | 4.3 | | |
| P (ppm) | 75 | | |
| K (ppm) | 119 | K (% Sat) | 2.7 |
| Mg (ppm) | 103 | Mg (% Sat) | 8.0 |
| Ca (ppm) | 1,232 | Ca (% Sat) | 51.2 |
| CEC | 11.5 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 64 |

| | | | |
|----------------|--------------------|---------------------|----|
| COUNTY: | Northampton | # of Samples | 71 |
|----------------|--------------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.8 | | |
| Acidity (meq/100 g) | 2.0 | | |
| P (ppm) | 56 | | |
| K (ppm) | 147 | K (% Sat) | 2.8 |
| Mg (ppm) | 209 | Mg (% Sat) | 4.1 |
| Ca (ppm) | 2,741 | Ca (% Sat) | 68.5 |
| CEC | 13.7 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 30 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Northumberland **# of Samples** 13

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.1 | | |
| Acidity (meq/100 g) | 3.6 | | |
| P (ppm) | 55 | | |
| K (ppm) | 95 | K (% Sat) | 2.2 |
| Mg (ppm) | 117 | Mg (% Sat) | 6.2 |
| Ca (ppm) | 1,223 | Ca (% Sat) | 53.1 |
| CEC | 10.9 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 64 |

COUNTY: Perry **# of Samples** 38

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.2 | | |
| Acidity (meq/100 g) | 3.7 | | |
| P (ppm) | 55 | | |
| K (ppm) | 132 | K (% Sat) | 2.8 |
| Mg (ppm) | 154 | Mg (% Sat) | 5.4 |
| Ca (ppm) | 1,361 | Ca (% Sat) | 54.9 |
| CEC | 12.0 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 64 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|---------------------|---------------------|----|
| COUNTY: | Philadelphia | # of Samples | 30 |
|----------------|---------------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.7 | | |
| Acidity (meq/100 g) | 2.3 | | |
| P (ppm) | 108 | | |
| K (ppm) | 199 | K (% Sat) | 3.5 |
| Mg (ppm) | 260 | Mg (% Sat) | 6.5 |
| Ca (ppm) | 2,075 | Ca (% Sat) | 64.3 |
| CEC | 14.2 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 43 |

| | | | |
|----------------|-------------|---------------------|---|
| COUNTY: | Pike | # of Samples | 7 |
|----------------|-------------|---------------------|---|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.2 | | |
| Acidity (meq/100 g) | 3.2 | | |
| P (ppm) | 85 | | |
| K (ppm) | 104 | K (% Sat) | 2.1 |
| Mg (ppm) | 138 | Mg (% Sat) | 8.2 |
| Ca (ppm) | 1,499 | Ca (% Sat) | 59.2 |
| CEC | 12.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 49 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|---------------|---------------------|----|
| COUNTY: | Potter | # of Samples | 10 |
|----------------|---------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.4 | | |
| P (ppm) | 53 | | |
| K (ppm) | 116 | K (% Sat) | 2.6 |
| Mg (ppm) | 194 | Mg (% Sat) | 19.5 |
| Ca (ppm) | 1,418 | Ca (% Sat) | 61.4 |
| CEC | 11.4 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 0 |

| | | | |
|----------------|-------------------|---------------------|----|
| COUNTY: | Schuylkill | # of Samples | 75 |
|----------------|-------------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.0 | | |
| Acidity (meq/100 g) | 4.7 | | |
| P (ppm) | 75 | | |
| K (ppm) | 110 | K (% Sat) | 2.3 |
| Mg (ppm) | 153 | Mg (% Sat) | 2.3 |
| Ca (ppm) | 1,293 | Ca (% Sat) | 49.8 |
| CEC | 12.6 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 31 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|---------------|---------------------|----|
| COUNTY: | Snyder | # of Samples | 12 |
|----------------|---------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.2 | | |
| Acidity (meq/100 g) | 3.3 | | |
| P (ppm) | 45 | | |
| K (ppm) | 116 | K (% Sat) | 2.5 |
| Mg (ppm) | 137 | Mg (% Sat) | 6.4 |
| Ca (ppm) | 1,417 | Ca (% Sat) | 60.8 |
| CEC | 11.8 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 48 |

| | | | |
|----------------|-----------------|---------------------|----|
| COUNTY: | Somerset | # of Samples | 18 |
|----------------|-----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.2 | | |
| Acidity (meq/100 g) | 3.6 | | |
| P (ppm) | 41 | | |
| K (ppm) | 118 | K (% Sat) | 2.3 |
| Mg (ppm) | 167 | Mg (% Sat) | 6.2 |
| Ca (ppm) | 1,624 | Ca (% Sat) | 59.8 |
| CEC | 13.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 21 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: Susquehanna **# of Samples** 5

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.1 | | |
| Acidity (meq/100 g) | 4.2 | | |
| P (ppm) | 47 | | |
| K (ppm) | 130 | K (% Sat) | 2.0 |
| Mg (ppm) | 227 | Mg (% Sat) | 8.2 |
| Ca (ppm) | 1,958 | Ca (% Sat) | 60.4 |
| CEC | 16.2 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 60 |

COUNTY: Tioga **# of Samples** 9

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.9 | | |
| P (ppm) | 36 | | |
| K (ppm) | 100 | K (% Sat) | 2.1 |
| Mg (ppm) | 166 | Mg (% Sat) | 6.0 |
| Ca (ppm) | 1,541 | Ca (% Sat) | 61.1 |
| CEC | 12.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 24 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|--------------|---------------------|----|
| COUNTY: | Union | # of Samples | 31 |
|----------------|--------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.4 | | |
| Acidity (meq/100 g) | 2.7 | | |
| P (ppm) | 76 | | |
| K (ppm) | 108 | K (% Sat) | 2.4 |
| Mg (ppm) | 134 | Mg (% Sat) | 13.3 |
| Ca (ppm) | 1,539 | Ca (% Sat) | 63.2 |
| CEC | 11.8 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 49 |

| | | | |
|----------------|----------------|---------------------|---|
| COUNTY: | Venango | # of Samples | 5 |
|----------------|----------------|---------------------|---|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.7 | | |
| Acidity (meq/100 g) | 1.4 | | |
| P (ppm) | 88 | | |
| K (ppm) | 388 | K (% Sat) | 5.1 |
| Mg (ppm) | 242 | Mg (% Sat) | 5.4 |
| Ca (ppm) | 2,249 | Ca (% Sat) | 67.7 |
| CEC | 14.5 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 33 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

COUNTY: **Venango** # of Samples **1**

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.2 | | |
| Acidity (meq/100 g) | 4.5 | | |
| P (ppm) | 138 | | |
| K (ppm) | 92 | K (% Sat) | 1.4 |
| Mg (ppm) | 179 | Mg (% Sat) | 8.8 |
| Ca (ppm) | 2,158 | Ca (% Sat) | 63.4 |
| CEC | 17.0 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | |
| K20 (LB/A) | 3 |
| MGO (LB/a) | 0 |

COUNTY: **Warren** # of Samples **7**

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.2 | | |
| Acidity (meq/100 g) | 3.9 | | |
| P (ppm) | 63 | | |
| K (ppm) | 92 | K (% Sat) | 1.5 |
| Mg (ppm) | 231 | Mg (% Sat) | 11.7 |
| Ca (ppm) | 1,933 | Ca (% Sat) | 60.9 |
| CEC | 15.7 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 1 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 5 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-------------------|---------------------|----|
| COUNTY: | Washington | # of Samples | 53 |
|----------------|-------------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.6 | | |
| Acidity (meq/100 g) | 2.5 | | |
| P (ppm) | 42 | | |
| K (ppm) | 154 | K (% Sat) | 2.4 |
| Mg (ppm) | 225 | Mg (% Sat) | 11.3 |
| Ca (ppm) | 2,673 | Ca (% Sat) | 69.5 |
| CEC | 16.1 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 4 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 7 |

| | | | |
|----------------|--------------|---------------------|----|
| COUNTY: | Wayne | # of Samples | 30 |
|----------------|--------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.1 | | |
| Acidity (meq/100 g) | 3.6 | | |
| P (ppm) | 80 | | |
| K (ppm) | 143 | K (% Sat) | 3.1 |
| Mg (ppm) | 122 | Mg (% Sat) | 7.0 |
| Ca (ppm) | 1,239 | Ca (% Sat) | 47.5 |
| CEC | 10.5 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 6 |
| K20 (LB/A) | 4 |
| MGO (LB/a) | 84 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|---------------------|---------------------|-----|
| COUNTY: | Westmoreland | # of Samples | 101 |
|----------------|---------------------|---------------------|-----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.7 | | |
| P (ppm) | 52 | | |
| K (ppm) | 139 | K (% Sat) | 2.4 |
| Mg (ppm) | 200 | Mg (% Sat) | 6.0 |
| Ca (ppm) | 2,170 | Ca (% Sat) | 67.7 |
| CEC | 15.0 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 25 |

| | | | |
|----------------|----------------|---------------------|----|
| COUNTY: | Wyoming | # of Samples | 11 |
|----------------|----------------|---------------------|----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|------------|---------|
| pH | 6.2 | | |
| Acidity (meq/100 g) | 3.5 | | |
| P (ppm) | 79 | | |
| K (ppm) | 130 | K (% Sat) | 3.1 |
| Mg (ppm) | 141 | Mg (% Sat) | 6.9 |
| Ca (ppm) | 1,287 | Ca (% Sat) | 55.8 |
| CEC | 11.4 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 2 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 43 |

SUMMARY REPORT
SOIL TEST RESULTS AND RECOMMENDATIONS-BY COUNTY
Turf Samples

| | | | |
|----------------|-------------|---------------------|-----|
| COUNTY: | York | # of Samples | 310 |
|----------------|-------------|---------------------|-----|

SOIL TEST RESULTS

| RESULT | AVERAGE | RESULT | AVERAGE |
|---------------------|---------|-------------------|---------|
| pH | 6.5 | | |
| Acidity (meq/100 g) | 2.1 | | |
| P (ppm) | 50 | | |
| K (ppm) | 141 | K (% Sat) | 2.9 |
| Mg (ppm) | 191 | Mg (% Sat) | 8.7 |
| Ca (ppm) | 1,689 | Ca (% Sat) | 65.9 |
| CEC | 12.3 | | |

SOIL TEST RECOMMENDATIONS

| RECOMMENDATION | AVERAGE |
|----------------|---------|
| LIME (lb/A) | 0 |
| N (lb/A) | |
| P2O5 (LB/A) | 3 |
| K20 (LB/A) | 2 |
| MGO (LB/a) | 20 |