

## Garden Soil Sample Trend

## Garden North

|                    | 2013 | 2014 | 2015 | 2016 | Optimal     |
|--------------------|------|------|------|------|-------------|
| Soil pH            | 8.2  | 7.8  | 7.8  | 7.8  | 6.2 - 7.0   |
| Organic Matter %   | 2.6  | 3.2  | 2.9  | 2.2  | ~5 - 8      |
| CEC                | 24.4 | 23.4 | 20.9 | 20.8 |             |
| K Saturation       | 14.9 | 14.5 | 10.5 | 9.9  | 2.0 - 4.0   |
| Mg Saturation      | 23.7 | 21.4 | 17.6 | 17.9 | 10. - 20.   |
| Ca Saturation      | 61.4 | 64.1 | 71.9 | 72.2 | 50 - 70     |
| K/Mg Ratio         | 2.1  | 2.3  | 2    | 1.9  |             |
| Ca/Mg Ratio        | 7.8  | 8.8  | 10.9 | 10.3 |             |
| Phosphorus m3-ppm  | 117  | 320  | 278  | 185  | 40 - 60     |
| Potassium m3-ppm   | 1690 | 1575 | 1021 | 955  | 220 - 330   |
| Magnesium m3-ppm   | 790  | 681  | 500  | 506  | 290 - 480   |
| Calcium m3-ppm     | 6200 | 6017 | 5462 | 5228 | 3100 - 4400 |
| Sulfur             | 42   | 69   | 65   | 58   | 20 - 40     |
| Boron              | 3    | 3.5  | 2.9  | 2.4  | 1.7 - 2.6   |
| Copper             | 2.2  | 2.3  | 1.8  | 2    | Varies      |
| Iron               | 38   | 46   | 38   | 35   | 9. - 40.    |
| Manganese          | 113  | 91   | 79   | 85   | Varies      |
| Zinc               | 2.9  | 7.7  | 5.8  | 5.1  | 3.9 - 10.9  |
| K, NH4Ac - pH 8.2  | 1720 | 1780 | 1230 | 1110 |             |
| Mg, NH4Ac - pH 8.2 | 519  | 439  | 373  | 369  |             |
| Ca, NH4Ac - pH 8.2 | 2680 | 2840 | 2750 | 2910 |             |
| Na, NH4Ac - pH 8.2 | 171  | 57   | 40   | 36   |             |

## Notes:

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All samples are taken early in the year before any soil preparations.

2013 - 2000 lbs per acre gypsum before season.

2013 - fertilize with mixture of compost, soybean meal, bonemeal and kelpmeal

2013 - water source = city water which contains chlorine

2014 - 2000 lbs per acre gypsum before season.

2014 - fertilize with mixture of compost, fishmeal and kelpmeal (elim. bonemeal due to Phosphorus rise)

2014 - water source = city water which contains chlorine

2015 - 2000 lbs per acre gypsum before season.

2015 - fertilize with mixture of compost, fishmeal and kelpmeal

2015 - water source = city water which contains chlorine

2016 Plan - 1320 lbs per acre gypsum before season

2016 Plan - fertilize with mixture of compost, fishmeal and kelpmeal

2016 Plan - water source = city water which contains chlorine