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Tissue Analysis Comparison

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| Date | Area | N | P | K | Ca | Mg | B | Fe | Mn | Cu | Zn | S | Na | AM / PM | Visual Rating | Weather |
|----------------|------|-------|-------|------|------|-------|-------|-----|------|------|------|------|------|---------|---------------|--------------------------|
| Desired | | 4.5-5 | 0.50 | 2.50 | 0.50 | 0.25 | 8.00 | 100 | 50 | 8 | 25 | 0.50 | <500 | | 1=bad, 5=good | Temp/ Wet/Dry/ Humid |
| Greens | | | | | | | | | | | | | | | | |
| 9/25/20 | 4 | 4.7 | 0.412 | 2.24 | 0.52 | 0.207 | 7.5 | 504 | 86.6 | 14.3 | 109 | 0.45 | 320 | AM | 5 | 80/ low-moderate |
| 9/25/20 | 18 | 4.51 | 0.394 | 2.43 | 0.51 | 0.194 | 7 | 529 | 73.5 | 13.2 | 122 | 0.46 | 331 | AM | 5 | |
| 7/29/20 | 14 | 4.96 | 0.59 | 2.4 | 0.7 | 0.303 | 13.3 | 390 | 167 | 13.8 | 115 | 0.52 | 498 | AM | 5 | 85 Humid |
| 7/29/20 | 18 | 5.16 | 0.6 | 2.53 | 0.82 | 0.355 | 12.7 | 453 | 208 | 11.4 | 128 | 0.56 | 706 | AM | 5 | |
| 7/14/20 | 4 | 4.52 | 0.663 | 2.58 | 0.78 | 0.362 | 13.7 | 566 | 163 | 23 | 140 | 0.58 | 429 | AM | 5 | 85-95/ Humid |
| 7/14/20 | 18 | 4.55 | 0.559 | 2.44 | 0.78 | 0.322 | 16.3 | 606 | 142 | 19.8 | 128 | 0.53 | 353 | AM | 5 | |
| 6/26/20 | 4 | 4.17 | 0.589 | 2.42 | 0.62 | 0.303 | 9.8 | 268 | 83.2 | 10.2 | 89.6 | 0.44 | 301 | AM | 5 | 75-80, dry, low-moderate |
| 6/26/20 | 18 | 4.7 | 0.636 | 2.58 | 0.63 | 0.271 | 11 | 311 | 83.8 | 10.9 | 98.4 | 0.50 | 292 | AM | 5 | |
| Avg | | 4.659 | 0.56 | 2.45 | 0.67 | 0.29 | 11.41 | 453 | 126 | 14.6 | 116 | 0.51 | 404 | | 5 | |

| | | | | | | | | | | | | | | | | |
|------------|----|-------|-------|------|------|-------|------|-----|------|------|------|------|------|----|---|------------------|
| 8/26/19 | 5 | 5.91 | 0.466 | 2.27 | 0.57 | 0.203 | 6.8 | 343 | 105 | 16.8 | 92.8 | 0.44 | 254 | AM | 5 | 80 / moderate |
| 8/26/19 | 18 | 5.91 | 0.492 | 2.49 | 0.52 | 0.212 | 6.7 | 343 | 108 | 17.5 | 99.3 | 0.48 | 325 | AM | 5 | |
| 8/16/19 | 15 | 5.64 | 0.57 | 2.67 | 0.47 | 0.188 | 9 | 252 | 74.7 | 12.9 | 75.7 | 0.47 | 345 | AM | 5 | 80-85 / moderate |
| 8/16/19 | 18 | 5.98 | 0.499 | 2.77 | 0.39 | 0.176 | 5.2 | 147 | 43.6 | 12.2 | 68 | 0.49 | 276 | AM | 5 | |
| 7/17/19 | 14 | 5.95 | 0.472 | 2.59 | 0.47 | 0.199 | 10.5 | 234 | 62.1 | 11.9 | 76.5 | 0.41 | 222 | AM | 5 | 85/ Humid |
| 7/17/19 | 18 | 6.16 | 0.485 | 2.58 | 0.51 | 0.205 | 9.3 | 246 | 71.9 | 12.2 | 78.4 | 0.43 | 219 | AM | 5 | 85/ Humid |
| 6/26/19 | 4 | 4.97 | 0.542 | 2.55 | 0.52 | 0.17 | 18.3 | 217 | 57.3 | 14.6 | 71.7 | 0.47 | 68.6 | AM | 5 | 85/ Humid |
| 6/26/19 | 18 | 5.23 | 0.563 | 2.85 | 0.51 | 0.17 | 15.8 | 181 | 52.4 | 14.2 | 69.3 | 0.50 | 59.5 | AM | 5 | 85/ Humid |
| Avg | | 5.719 | 0.51 | 2.6 | 0.5 | 0.19 | 10.2 | 245 | 71.9 | 14 | 79 | 0.46 | 221 | | 5 | |

| | | | | | | | | | | | | | | | | |
|------------|----|------|-------|------|------|-------|-------|------|------|------|------|------|-----|----|------|----------------|
| 8/10/18 | 4 | 6.57 | 0.65 | 2.67 | 0.64 | 0.257 | 13.2 | 853 | 261 | 29.3 | 154 | 0.58 | | AM | 4.75 | 85/Humid |
| 8/10/18 | 18 | 6.53 | 0.624 | 2.67 | 0.6 | 0.248 | 11.2 | 915 | 266 | 24 | 164 | 0.59 | | AM | 4.75 | 85/Humid |
| 7/25/18 | 4 | 5.82 | 0.568 | 2.89 | 0.4 | 0.175 | 7.1 | 109 | 52.8 | 11.4 | 72.1 | 0.40 | 262 | AM | 4.75 | 80 |
| 7/25/18 | 18 | 5.88 | 0.61 | 3.14 | 0.4 | 0.181 | 7.4 | 118 | 53 | 13.6 | 79.7 | 0.50 | 358 | AM | 4.75 | 80 |
| 7/5/18 | 4 | 6.07 | 0.614 | 2.64 | 0.51 | 0.217 | 18.1 | 313 | 69.4 | 14.4 | 80.8 | 0.46 | 221 | AM | 4.75 | 90/ Very Humid |
| 7/5/18 | 18 | 5.76 | 0.534 | 2.62 | 0.46 | 0.2 | 15.4 | 316 | 64.8 | 14 | 84.5 | 0.49 | 261 | AM | 4.75 | 90/ Very Humid |
| 6/11/18 | 4 | 7.13 | 0.55 | 4.22 | 0.52 | 0.314 | 23 | 1620 | 486 | 24.3 | 403 | 1.28 | 281 | AM | 3.5 | 75 / moderate |
| 6/11/18 | 18 | 7.52 | 0.51 | 4.27 | 0.61 | 0.413 | 26.6 | 2610 | 719 | 44.4 | 602 | 1.38 | 257 | AM | 3 | 75 / moderate |
| Avg | | 6.41 | 0.58 | 3.14 | 0.52 | 0.251 | 15.25 | 857 | 247 | 21.9 | 205 | 0.71 | 273 | | 4.38 | |

Remarks:

Tissue test results indicate that there are many more nutrient deficiencies this time with lower Phosphorus, Potassium, Magnesium and Sulfur compared to the last two sets of samples. Fortunately all are only slightly low and the temperatures are much cooler to reduce plant stress. Iron levels remain much higher if they are not being influenced by top-dressing sand. If there are issues with turf density, then increase Nitrogen and Phosphorus applications based on these results.