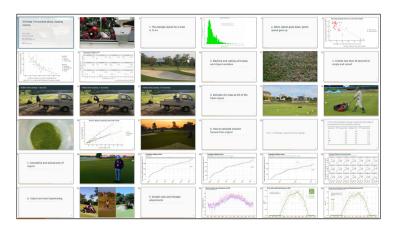
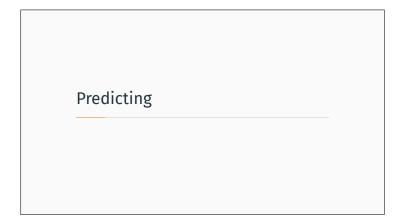
Predicting, checking, and adjusting growth rate with clipping volume and growth potential

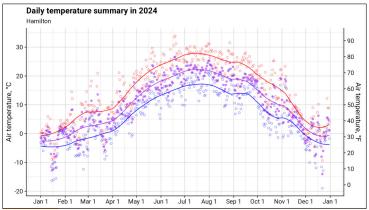
Micah Woods, Ph.D. February 25, 2025 Asian Turfgrass Center www.asianturfgrass.com PACE Turf www.paceturf.org

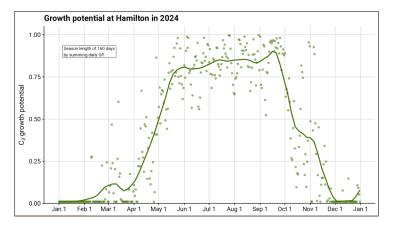


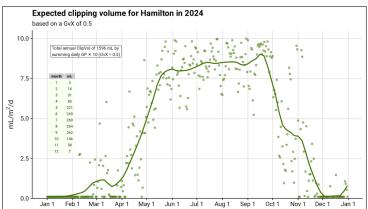










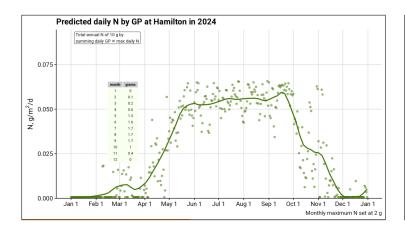


The Turf GvX is the actual growth of the grass compared to the expected growth of the grass.





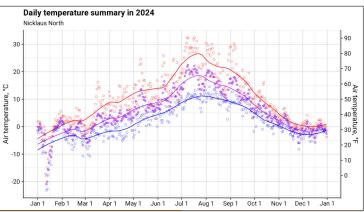


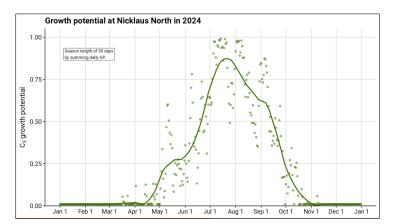


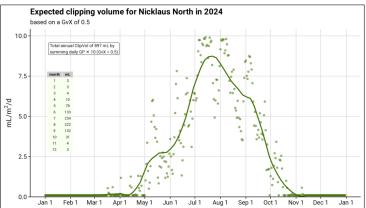
 $GvX = \frac{ClipVol_{14}}{20 \times GP_{14}} \times 100$

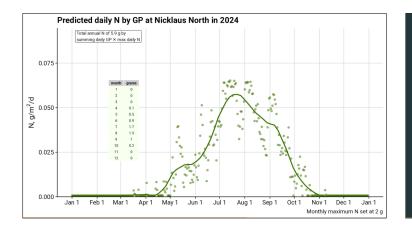
where $\mathit{ClipVol}_{14}$ is the 14 day average of clipping volume and

 GP_{14} is the 14 day growth potential average.

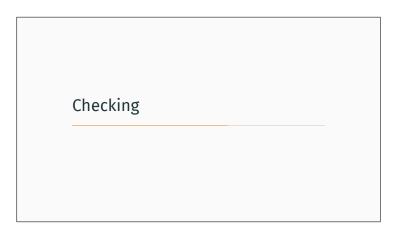








For every 5 kg N added per ha (0.1 lb/1000 ft²), maximum expected clipping volume is 165 mL/m².

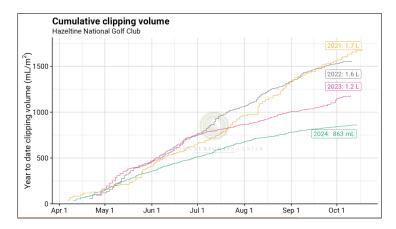




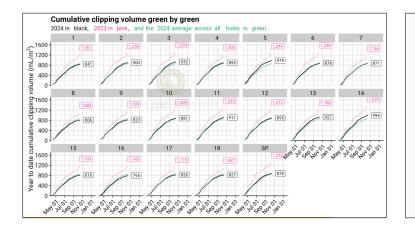


| Table 1: Annual | clipping volume | at that location | from 2013 to 2016 |
|-----------------|-----------------|------------------|-------------------|

| Year | Volume L/m² | Estimated dry weight g/m ² | N applied g/m² |
|------|----------------|---------------------------------------|-------------------|
| 2013 | 4.4 | 266 | NA |
| 2014 | 3.4 | 201 | 13 |
| 2015 | 2.9 | 172 | 10 |
| 2016 | 2.4 | 142 | 8.5 |

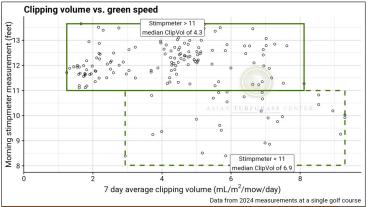


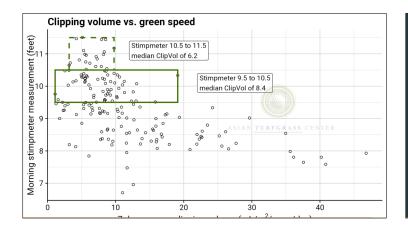












Online handout with slides & more info



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