

# COMPARISON OF 2 POPULAR PERENNIALS' RESPONSE TO CONCISE™ AND SUMAGIC®

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# Materials & Methods

- **OBJECTIVE:** Compare response of popular perennials to a range of spray and drench rates of Concise vs. Sumagic.
- **PLANT SPECIES:**
  - Coreopsis ‘Moonbeam’
  - Rudbeckia ‘Goldsturm’
- **TREATMENTS:**
  - Spray: applied as a single foliar spray at a volume of 210 ml/m<sup>2</sup> at spray rates: 0, 15, 30, 45, 60 ppm
  - Drench: applied as 2 oz per quart pot at rates: 0, 0.5, 1, 1.5, 2 ppm for Rudbeckia or 0, 1, 2, 3, 4 ppm for Coreopsis

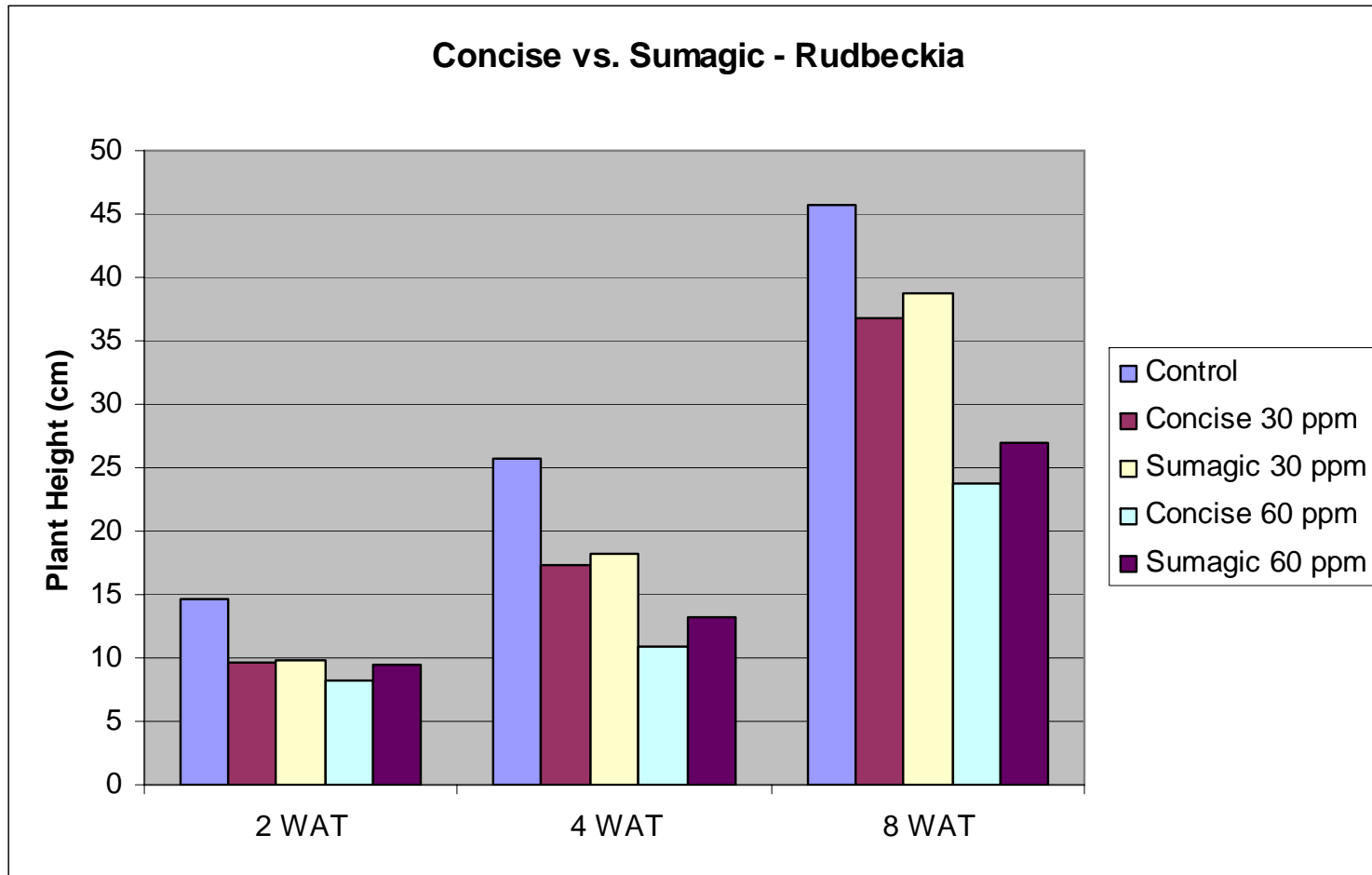
# Timelines

- **Rudbeckia:**

- Plants received and potted: April 27 and May 2, 2006
- Set-up/treatment application: May 9, 2006
- Data collections: 0, 2, 4, 6, 8, and 10 WAT

- **Coreopsis:**

- Plants received and potted: May 24 and May 25, 2006
- Set-up/treatment application: June 8, 2006 (Note: plants were sheared to 4.5 cm on 6/6/06)
- Data collections: 0, 2, 4, 6, and 8 WAT



# Rudbeckia – 2 WAT



Concise @ 0, 15, 30, 45, 60



Sumagic @ 0, 15, 30, 45, 60

# Rudbeckia – 4 WAT



Concise @ 0, 15, 30, 45, 60



Sumagic @ 0, 15, 30, 45, 60

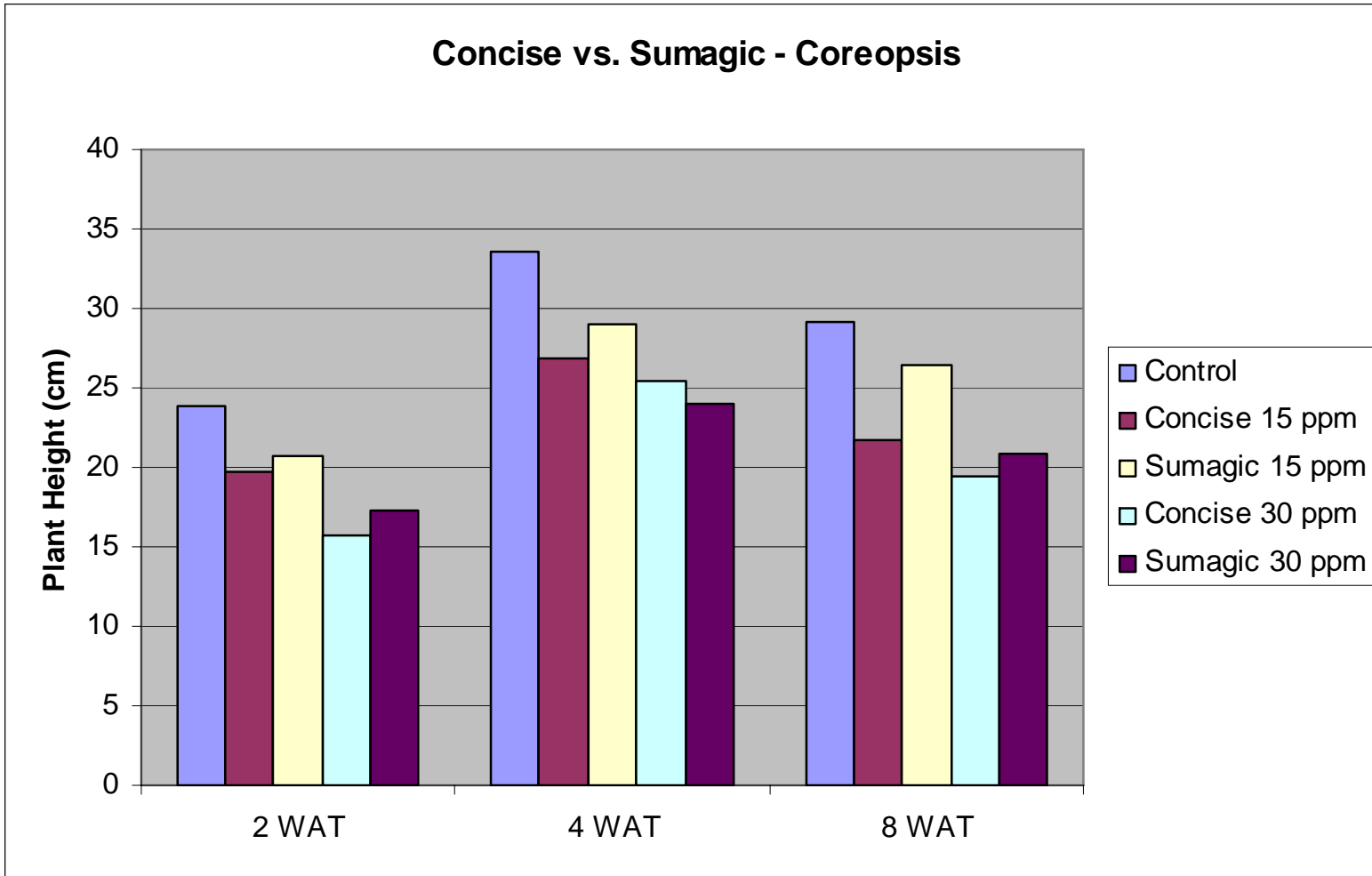
# Rudbeckia – 8 WAT



Concise @ 0, 15, 30, 45, 60



Sumagic @ 0, 15, 30, 45, 60





# Coreopsis – 2 WAT



Concise @ 0, 15, 30, 45, 60



Sumagic @ 0, 15, 30, 45, 60

# Coreopsis – 4 WAT



Concise @ 0, 15, 30, 45, 60



Sumagic @ 0, 15, 30, 45, 60

# Coreopsis – 8 WAT



Concise @ 0, 15, 30, 45, 60



Sumagic @ 0, 15, 30, 45, 60

# Results - Coreopsis

- *Coreopsis* 'Moonbeam' was very responsive to uniconazole applications with up to 35.8% reductions in height with 60 ppm uniconazole at 8 WAT.
- Spray rates of 20 to 30 ppm would be recommended for this crop.
- *Coreopsis* also was very responsive to uniconazole drenches with reductions in both plant height and width at each measurement date for plants treated with drench applications of Concise or Sumagic.
- Rate response was saturated at the 1 ppm drench rate.
- Lower rates such as 0.5 to 0.75 ppm drenches (at 2 oz per quart pot) recommended on this crop.

# Results - Rudbeckia

- *Rudbeckia* 'Goldsturm' was very responsive to uniconazole application with up to 35.8% reductions in height with 60 ppm Concise or Sumagic at 8 WAT.
- Spray rates of 15 to 30 ppm gave moderate control over the 10 week measurement period.
- *Rudbeckia* 'Goldsturm' was not so responsive to lower drench rates of uniconazole.
- Drench rates of 1 to 2 ppm gave only moderate control, 12% to 19% reductions in height, over the 10 week measurement period.
- Drench rates of 2.0 to 2.5 ppm would provide moderate control.

# Conclusions

- For each species and application method (spray vs. drench), there were no significant differences between the responses to Concise™ or Sumagic® at any rate or measurement date tested.
- Statistical analysis confirmed that there was no significant difference in growth control between Concise and Sumagic.

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