

Magnacide H Discussion

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Target Species

- Algae rather than aquatic weed (controlled mechanically)
- Generally treat the same canals each year
 - treatment timing based on algae growth, water flow and problems experienced by water users
 - repeat treatments in approximately 3 weeks as needed
- Algae growth slows and water demand drops by early to mid August, so late season treatments are less common



Kilometres of canal treated

- Last Year (2009)
 - 54 treatments totaling 270 kilometres
 - 4192 litres – 21 cylinders
- Injection sites selected to provide good mixing
- Some sites have been shifted to avoid fish kills



Treatment process

- Two licensed applicators on staff
 - Alberta Class A Pesticide Applicator, Baker Petrolite certified, TDG certification
- Water users currently taking water are notified by the WDS
 - Close all deliveries to domestic dugouts, fish ponds and cattle water supplies during treatment and for several hours after the treated water passes (no residue left after treatment)
 - Discourage swimming



Treatment process (continued)

- Most treatments done at 45 litres/metre³ per second of flow, 90 minute treatments (6.99 ppm)
- Some can be effective as low as 33 litres, maximum 65 litres (any higher the injection time has to be extended to stay under 10 ppm)
 - depends on biomass, velocity and depth of flow, number of check/drop structures, water temperature, water pH, available nutrients,
 - no noticeable change in effectiveness over time
- The higher rates have the added benefit of controlling aquatic weed if treatments are started early enough in the growth cycle
- Response time on algae is less than 24 hours



Price vs. Weed Control

- **Have price increases changed our weed control program?**