Herbicide Overview Herbicide ->	Diquat	Aquathol K (endothall)	Sonar ONE (granular fluridone)	Sonar Genesis (liquid fluridone)	Komeen crystal (copper complex)	Harpoon Granular (similar to Komeen)
Vendor comment	Usually most cost effective, and a commonly used herbicide. Vendor recommends diquat or Sonar for naiad	Used at the lowest reasonable rate for naiad as its rates do require more product per acre than other products	Most favorable toxicology profile> Vendor recommends diquat or Sonar for naiad..	Most favorable toxicology profile. Vendor recommends diquat or Sonar for naiad.	Copper products are widely used for herbicide/algaecide applications around the country	Copper products are widely used for herbicide/algaecide applications around the country
Treatment Concentration (ppm & ppb)	0.37 ppm	3 ppm	40 ppb (but this will never be 40 ppb actively in the water at any one time due to it's slower release off of the pellet)	20 ppb	0.5 ppm	0.5 ppm
Treatment application timing	Mid to late July	Mid to late July	Mid-June before the naiad growth is present as the Sonar comes off the pellet formulation slowly over a matter of weeks	Early July	Mid to late July	Mid to late July
How Long does treatment take to apply ?	4-6 hours (see restrictions after treatment)1	4-6 hours (see restriction after treatment)1	4-6 hours (see restriction after treatment)1	4-6 hours (see restriction after treatment)1	4-6 hours (see restriction after treatment)1	4-6 hours (see restriction after treatment)1
Impact to native plants (at the level used)	A wide spectrum hebicide. May impact some native species in treatment area.	A wide spectrum herbicide. May impact some native species in treatment area.	Little to no impact anticipated	Little to no impacts anticipated	Will impact any algae or macroalgae (Chara/Nitella) present	Will impact any algae or macroalgae (Chara/Nitella) present
Impact to fanwort (at the level used)	None	None	May be slightly impacted and become chlorotic (bleached/white) on the tips	May be slightly impacted and become chlorotic (bleached/white) on the tips	None	None
Impact variable milfoil (at the level used)	Will be controlled within the treatment area at the proposed rate	Possibly some impact, but likely not controlled at the proposed rate	Little to no impact anticipated	Little to no impact anticipated	Likely none at the proposed rate	Likely none at the proposed rate
Effects on Humans, Fish, Invertebrates, and Waterfowl (at the level used)	None to humans, fish or waterfowl, but possible impact to invertebrates in treatment area.	None.	None. Affects only plant protiens.	None. Affects only plant protiens.	Toxic to invertebrates, some fish. Possible risk to birds and mammals.	Toxic to invertebrates, some fish. Possible risk to birds and mammals.
Herbicide residue in the environment (at the level used)	Degraded by light. Rapidly binds permanently to clays in the sediment.	Residual amounts may persist in water several weeks until degraded by microbial action.	Residual amounts may persist in water up to 3 months. Degraded by light and microbial action.	Residual amounts may persist in water up to 3 months. Degraded by light and microbial action.	Does not degrade. Will accumulate in sediments where it can be released if disturbed.	Does not degrade. Will accumulate in sediments where it can be released if disturbed.
Bioaccumulation (at the level used)	None	None	None	None	None	None
Treatment Cost	treatment: $15,782 sampling: $3,990 total: $19,772	treatment: $41,230 sampling: $3,300 total: $44,530	treatment: $23,973 sampling: $2,960 total: $26,933	treatment: $13,443 sampling: $2,960 total: $16,403	treatment: $49,978 sampling: $3,300 total: $53,278	treatment: $15,834 sampling: $3,300 total: $19,134

For more information: https://aquaplant.tamu.edu/faq/general-water-use-restrictions/

Water use Restrictions Herbicide ->	Diquat	Aquathol K (endothall)	Sonar ONE (granular fluridone)	Sonar Genesis (liquid fluridone)	Komeen crystal (copper complex)	Harpoon Granular (similar to
Drinking Lake Water NH Dept. of Agriculture requires testing before use.	1-3 Days	0 Days	0 Days	0 Days	0 Days	0 Days
Swimming & Fishing Per NH Dept. of Agriculture.	1 day in treatment area	1 day in treatment area	1 day in treatment area	1 day in treatment area	1 day in treatment area	1 day in treatment area
Livestock-Domestic Aniimals Comsumption	1 Day	7-25 Days	0 Days	0 Days	0 Days	0 Days
Irrigation to Turf and Landscape Ornamentals watering lawn, flowers and vegetable gardens	1-3 Days	7 Days	7-30 Days	7-30 Days	0 Days	0 Days
Irrigation to food crops and production ornamentals	5 Days	7 Days	7-30 Days	7-30 Days	0 Days	0 Days

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