



Atrazine Interim Registration Decision

170th IPRB Meeting

August 9, 2022

-Dave Scott-

EPA Seeks Public Comment on Additional Ecological Mitigation Measures for Atrazine

2016 atrazine ecological risk assessment, EPA determined that the scientifically derived concentration equivalent level of concern (CE-LOC) for atrazine, measured as a 60-day average, was 3.4 micrograms per liter (µg/L).

This is the concentration of atrazine that, when exceeded, presents a greater than 50 percent chance of negatively affecting an aquatic environment.

The CE-LOC is based on effects to aquatic plant communities; however, by ensuring protection of primary producers, the CE-LOC is intended to also provide protection for the entire aquatic ecosystem, including fish, invertebrates and amphibians

EPA Seeks Public Comment on Additional Ecological Mitigation Measures for Atrazine

October 2019, EPA released a memo entitled Regulatory Update on the Registration Review of Atrazine, that announced a policy decision that an atrazine concentration of 15 µg/L as a 60-day average triggers required monitoring and/or mitigation to protect aquatic plant communities from atrazine runoff.

This policy decision did not supplant the scientifically derived CE-LOC of 3.4 µg/L. The currently proposed mitigations, if finalized, would supersede the October 2019 memo.

October 2020, EPA received a petition alleging that the Agency violated its duties under FIFRA by issuing the atrazine ID without substantial evidence supporting the decision.

EPA sought a voluntary partial remand in light of <u>President Biden's executive order</u> on protecting public health and the environment and <u>restoring</u> a commitment to <u>science and scientific integrity</u>.

December 14, 2021, the Ninth Circuit Court of Appeals granted EPA a voluntary partial remand, which provided the Agency the opportunity to reevaluate the policy decision to use 15 µg/L as the level of regulation for aquatic plant communities.

EPA's Proposed Mitigation Measures to Protect Aquatic Plant Communities from Runoff

- Prohibit application when soils are saturated or above field capacity (i.e., the soil's ability to retain water);
- Prohibit application during rain or when a storm event, likely to produce runoff from the treated area, is forecasted to occur within 48 hours following application;
- Prohibit aerial applications of all formulations; and
- Restrict annual application rates to 2 pounds of active ingredient or less per acre
 per year or less for applications to sorghum, field corn, and sweet corn.

Mitigation Measures to Protect Aquatic Plant Communities from Runoff...plus "picklist" items

- No picklist requirements for fields located in watersheds with predicted atrazine concentrations below 3.4 µg/L (approximately 82 % of the total number of watersheds nationwide).
- Fields located in watersheds with predicted atrazine concentrations between 3.4-9.8 μg/L (approximately 8 % of watersheds) would generally be required to choose 1-4 picklist requirements, depending on application rate, crop, region, and soil erodibility.
- Fields located in watersheds with predicted atrazine concentrations of above 9.8 μg/L
 (approximately 10 % of watersheds) would have the highest level of required picklist mitigations to select.

Mitigation Measures to Protect Aquatic Plant Communities from Runoff...plus "picklist" items

- No preemergence applications (to the crop)
- Greater than or equal to 30 ft vegetative filter strips on A and B hydrologic group soils9
- Greater than or equal to 100 ft vegetative filter strips on C and D hydrologic group soils
- Grassed waterway
- Field border
- Irrigation water management
- Cover crop
- Contour buffer strips
- Contour farming
- Terrace farming
- Strip cropping
- Soil incorporation to a depth of 2.5 cm (1 in)
- No tillage/ reduced tillage

Mitigation Measures to Protect Aquatic Plant Communities from Runoff...plus "picklist" items

• Picklist items look similar to many of the new label runoff restrictions on the Enlist One and Enlist Duo labels recently re-registered by EPA.

• This time there is an opportunity comment on the proposal.

Comments due Sept. 6, 2022...extended to Oct. 6, 2022 ?

Discussion Amongst Region 5 States

- MN, WI, IL, MI, IN, (OH)
- MN...
 - Atrazine surface water monitoring back to 1990s...8,100 samples over 12 years
 - Exceedances of 3.4 ug/L in the 1990s, but no exceedances over 60-day avg. since lowering application rates
 - What default rates were used in the EPA modeling (WARP model from USGS)?
 - Proposed mitigation measures vague & difficult or impossible to enforce
 - What herbicides might replace atrazine if restrictions are too onerous?
- WI...
 - 1500 surface water monitoring data points
 - Only one exceedance of 3.4 ug/L
 - WI already has some atrazine restriction areas based on ground water protection
 - Proposed mitigation measures vague & difficult or impossible to enforce
 - Challenges for applicators who don't own land or make conservation practice decisions each year
- IL, MI,IN... no monitoring data to report, but ditto on the applicator compliance & enforceability

Comments from IPRB or OISC?

- Application rates ?
- Compliance by applicators & landowners?
- Enforceability by OISC ?
- Implications for other future product re-evaluation decisions?
- Others?

Comments or Questions on Off-Target Mosquito Adulticiding Plan?