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# **Weed Control Guide for Ohio and Indiana**

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**"Herbicide and Soil pH Interactions"**

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## Herbicide and Soil pH Interactions

Certain herbicides can become more, or less ("tied up") available depending on soil pH. The following table includes some corn and soybean herbicides that can be influenced by soil pH.

### Corn Herbicides

Herbicide	Soil pH	Influence	Result
Accent Celebrity Plus, Steadfast	> 7.5	hydrolysis of herbicide is slowed	more available to carryover to sorghum
Atrazine	< 5.5	herbicide adsorbed to soil - "tied up"	reduction in weed control
Atrazine	> 7.0	herbicide released into soil solution	better weed control; possible carryover
Balance	> 7.5	degradation of herbicide is slowed	better weed control; highly probable corn injury
Products with atrazine	< 5.0	herbicide adsorbed to soil - "tied up"	reduction in weed control
Products with atrazine	> 7.0	herbicide released into soil solution	better weed control; possible corn injury
Broadstrike+Dual	> 7.8	herbicide released into soil solution	possibility of increased corn injury
Exceed	> 7.8	hydrolysis of herbicide is slowed	more available to carryover
Hornet WDG	> 7.8	herbicide released into soil solution	possibility of increased corn injury
Lightning	< 5.5	action unknown	possibility of increased carryover
Princep	< 5.0	herbicide adsorbed to soil - "tied up"	reduction in weed control
Princep	> 7.0	herbicide released into soil solution	better weed control; possible carryover
Spirit	> 7.8	hydrolysis of herbicide is slowed	more available to carryover

### Soybean Herbicides

Herbicide	Soil pH	Influence	Result
Broadstrike+Dual, Broadstrike+Treflan	> 7.8	herbicide released into soil solution	possibility of increased soybean injury
Canopy Canopy XL	> 6.8	hydrolysis of herbicide is slowed	more available to carryover
Classic, Synchrony STS	> 7.0	hydrolysis of herbicide is slowed	more available to carryover
Command Command Xtra	< 5.5	action unknown	possibility of increased carryover
FirstRate Amplify, Gauntlet	> 7.8	hydrolysis of herbicide is slowed	more available to carryover
Pursuit, Scepter, Backdraft, Extreme	< 5.5	action unknown	possibility of increased carryover
Sencor, Lexone Axiom, Boundary	< 5.0	herbicide adsorbed to soil - "tied up"	reduction in weed control
Sencor, Lexone, Axiom, Boundary	> 7.0	herbicide released into soil solution	possibility of increased soybean injury