Integrated Weed Management for Prevention of Herbicide Resistance























From one herbicide to another





Technology can look good...

Triazine resistance...

Pursuit saves the day



Technology can look good...

Group 2 Resistance





Technology can look good...

Roundup resistance...

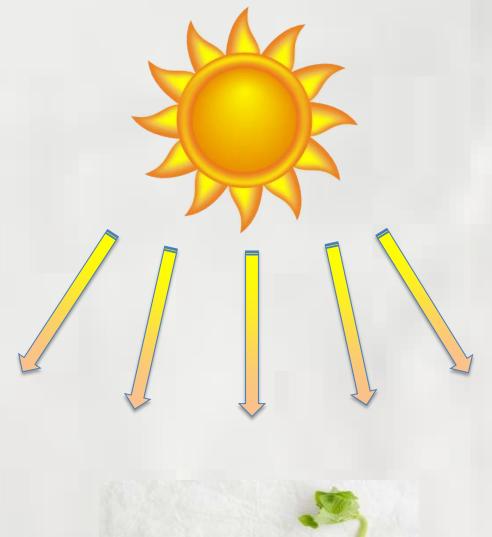
Dicamba saves the day



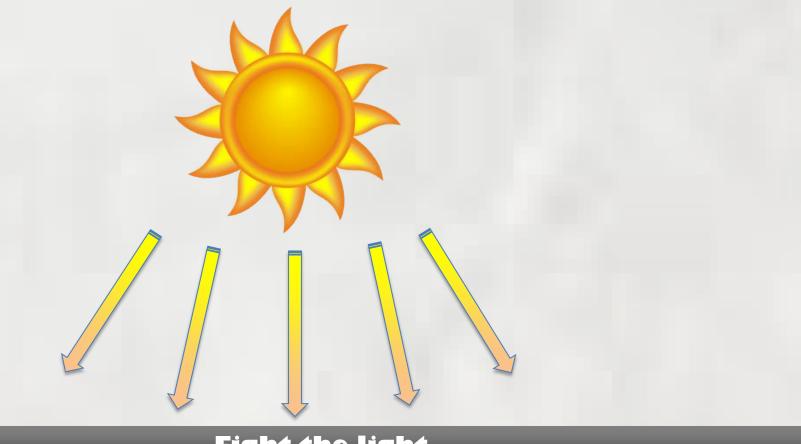
Favourite solution = Alternative herbicides



What do weeds need?



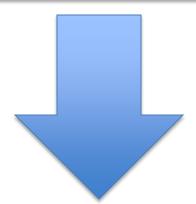




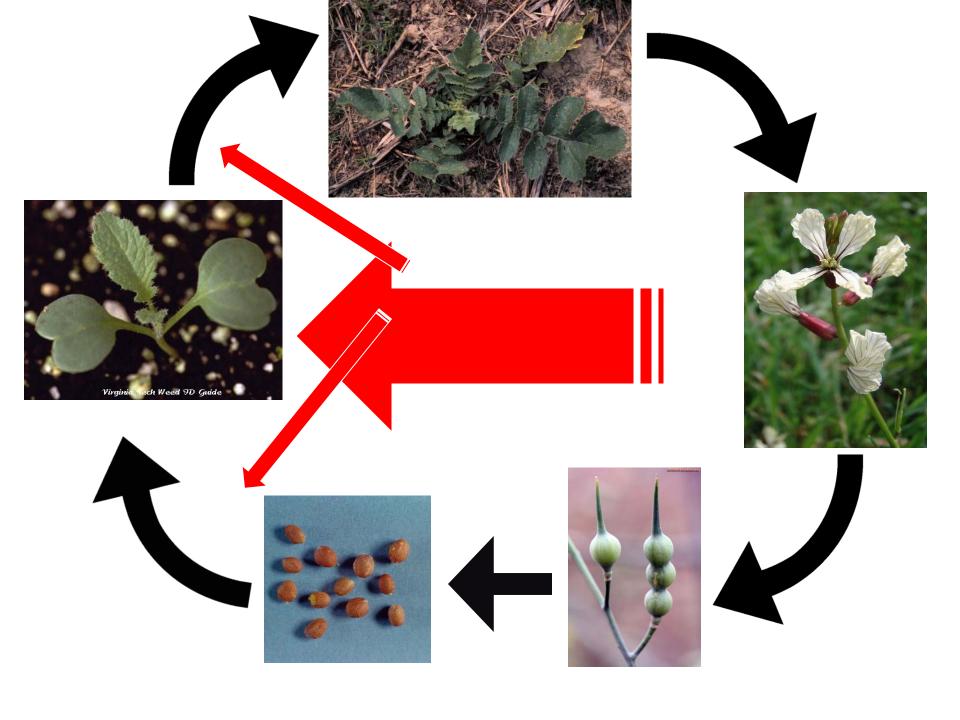
Fight the light



Bring more shade in the system



Reduce reliance on herbicides



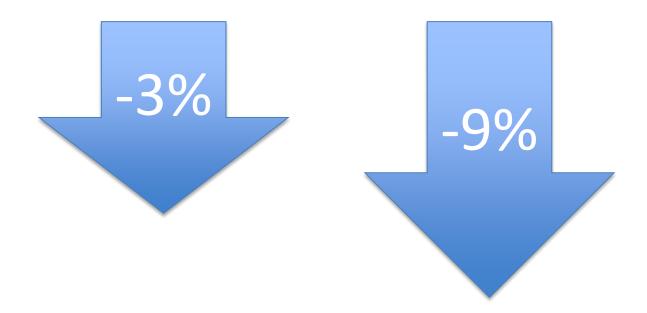
Two trials

- Cultural weed control in soybeans
- Corn/soybean/wheat rotation

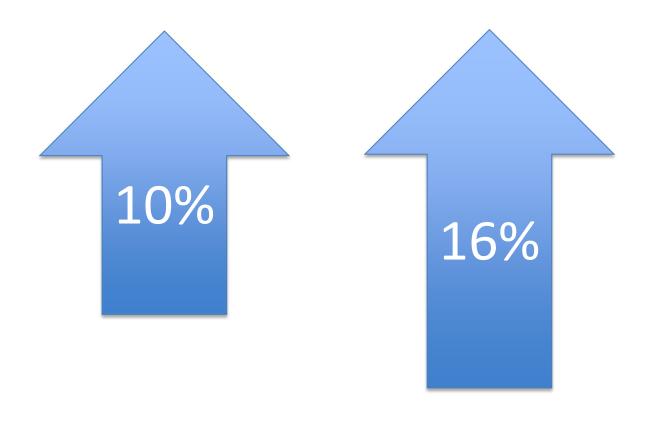
Soybeans

- Thin vs branching cultivar
- N-fertilizer at planting vs no fertilizer
- High seed density vs normal density
- With or without herbicides

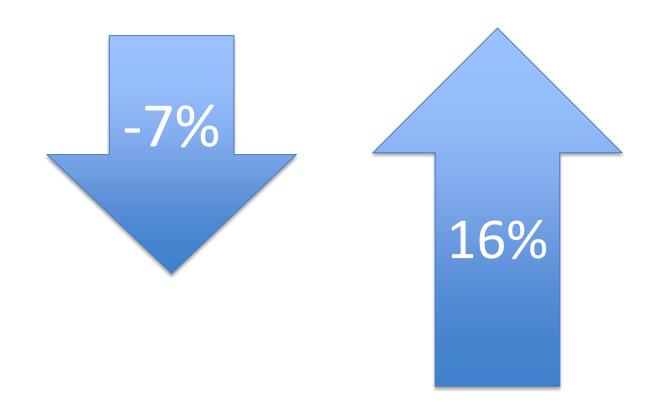
Adding fertilizer at planting reduced yield



Increasing seeding rate was beneficial

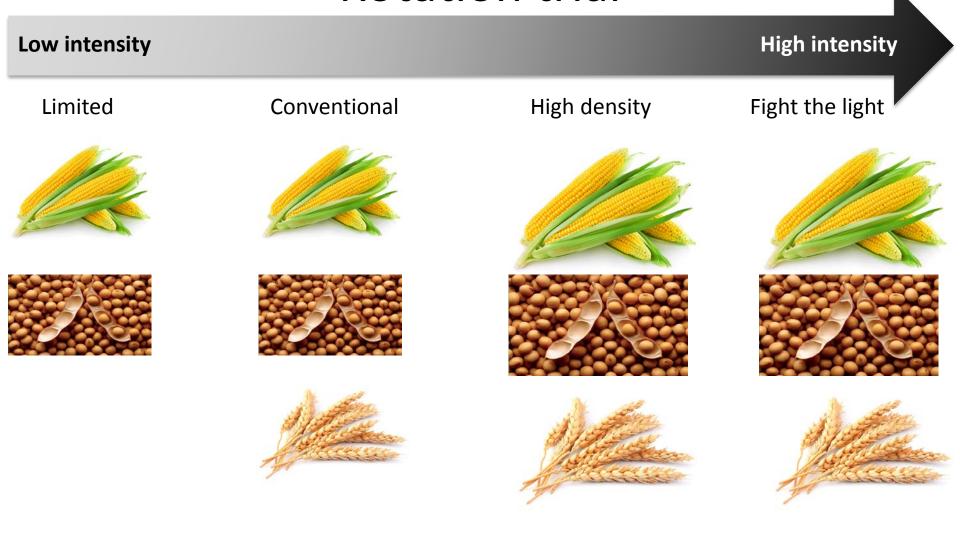


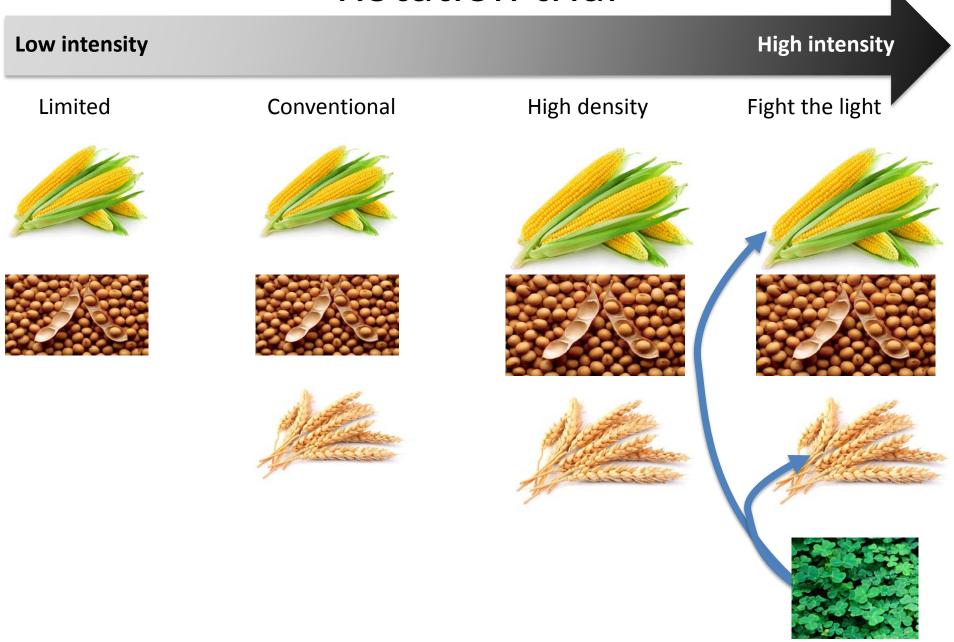
Cultivar effect was variable



Low intensity High intensity

Low intensity			High intensity
Limited	Conventional	High density	Fight the light



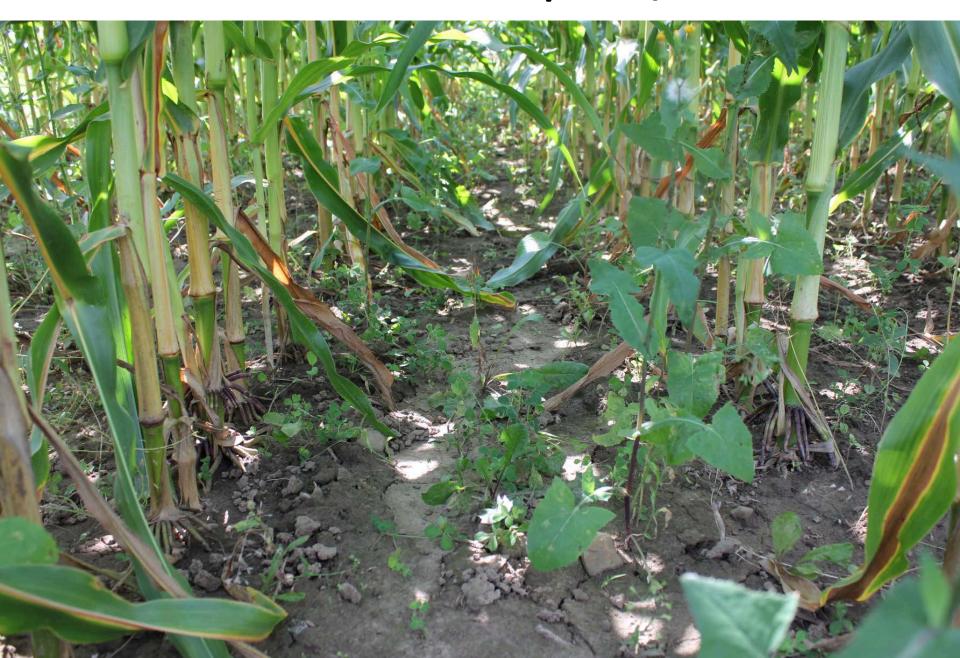


Corn density has an effect on weeds

Corn at 32000 plants/ac



Corn at 42000 plants/ac



Corn at 42000 plants/ac + cover crops



Soybeans high density



Soybeans low density



There are ways to increase canopy

Herbicides still an important part of the system

