Herbicide Testing in Strawberry

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Strawberry Herbicide Trials

- Two trials each in 2014, 2015, and 2016 were funded by the Washington Strawberry Commission
- Established strawberry herbicide trial
- Newly-planted strawberry herbicide trial
Weeds Present

- Ladysthumb
- Common chickweed
- Shepherd’s-purse
- Henbit
More Weeds

- Common Lambsquarters
- Common Groundsel
- Pineapple-weed
- Annual Sowthistle
Established Strawberry Trials
2014-2016
Established Strawberry Trial

• ‘Totem’ strawberry transplanted in May, 2013, 2014, and 2015
  - Treated with Spartan + Chateau shortly after transplanting, and with Poast, Fusilade, or Select for grass control in June-May
  - Roto-tilled several times during establishment, and once more prior to dormancy

• Herbicide combinations were applied in February, 2015 and January, 2016

• Tested herbicides included:
  - Registered: Chateau, Devrinol, Sinbar, and Spartan
  - Nonregistered: Alion, Dual Magnum, Fierce, Trellis, Reflex, and Treevix
Established Strawberry Trial

- Crop injury and weed control monitored prior to berry harvest
- Berries harvested in May and June of each year (three to four pickings per plot)
  - Total berry weight recorded and 50-berry average fruit weight calculated
Strawberry Injury
March, 2015

%
Conclusions

Established Strawberry Trials

- Strawberry injury in March, 2015 was high with **Fierce** and **Treevix + Chateau**
- Depending on the year, weed control was **fair to excellent** through harvest with most combinations
- Berry size and yield were fairly similar among treatments (2015 was a bad year...)
  - Generally greater with **Treevix** or **Trellis** with **Spartan** or **Sinbar**
  - Generally lower with **Fierce combinations**, **Alion + Sinbar**, **Treevix alone** or with **Chateau** or **Devrinol**
Newly-planted Strawberry Trials
2015-2016
Newly-planted Strawberry Trials

- ‘Honeoye’ strawberries were transplanted in early June, 2015 and mid-May, 2016
- Herbicides applied shortly after transplanting (POSTR)
  - Registered herbicides were combinations of Spartan, Chateau, Devrinol, and Sinbar,
  - Nonregistered herbicides were Reflex, Trellis, Fierce, Alion, and Dual Magnum
Crop injury and weed control monitored through the season

Three plants per plot were collected and their total leaf area was measured in late August, 2015 and early September, 2016
Conclusions

Newly-planted Strawberry Trials

- Weed control was **fair to good** through the summer with several combinations, especially those with **Alion** and **Trellis**, as well as **Reflex** with **Devrinol** or **Dual Magnum**

- Strawberry leaf area was generally greater with **Alion**, **Reflex**, or **Trellis** with **Devrinol**, or with **Trellis** with **Chateau** or **Dual Magnum**
Many Thanks

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