CROPPING CONCEPTS
FEEDING FARMER INNOVATIONS

JAN 20 - 22 2015

PNW OILSEED & DIRECT SEED CONFERENCE

THREE RIVERS CONVENTION CENTER
Kennewick, WA

www.directseed.org/events

CS: css.wsu.edu/biofuels/

WASHINGTON STATE UNIVERSITY EXTENSION

PACIFIC NORTHWEST DIRECT SEED ASSOCIATION
Winter Canola Water Use, Winter Survival

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Seedling Development

Epigeal emergence: cotyledons are pushed out of the ground.

One tap root

Cereals

Shoot meristems

Several seminal roots

Oilseeds
Ralston, 2013-14, All winter canola died
Winter canola kill in lower landscape at Dusty, WA
Are water stressed plants less cold tolerant?

Ritzville, 2013
Ritzville, 2013

Are taller plants with higher shoot meristems less cold tolerant?

**Graph:**
- **X-axis:** Planting Date
  - 10-Jun
  - 26-Jun
  - 5-Aug
  - 12-Aug

- **Y-axis:** Stalk Height (in)
  - 0
  - 1
  - 2
  - 3
  - 4
  - 5
  - 6

- **Legend:**
  - Stalk Height
  - % survival

- **Winter Survival %**
Good survival in 2011-2012 across the region
KCl: soluble salts lowers freezing point in plant cells, but have not been able to demonstrate improved winter survival with KCl applications in field experiments.
Thanks to growers for plot ground:

- Hennings, Ralston
- Stubbs, Dusty
- Nollmeyers, Davenport
- Johnsons, Davenport