

Effect of Employ[®] Application Timing on Yield and Quality of Ranger Russet Potato

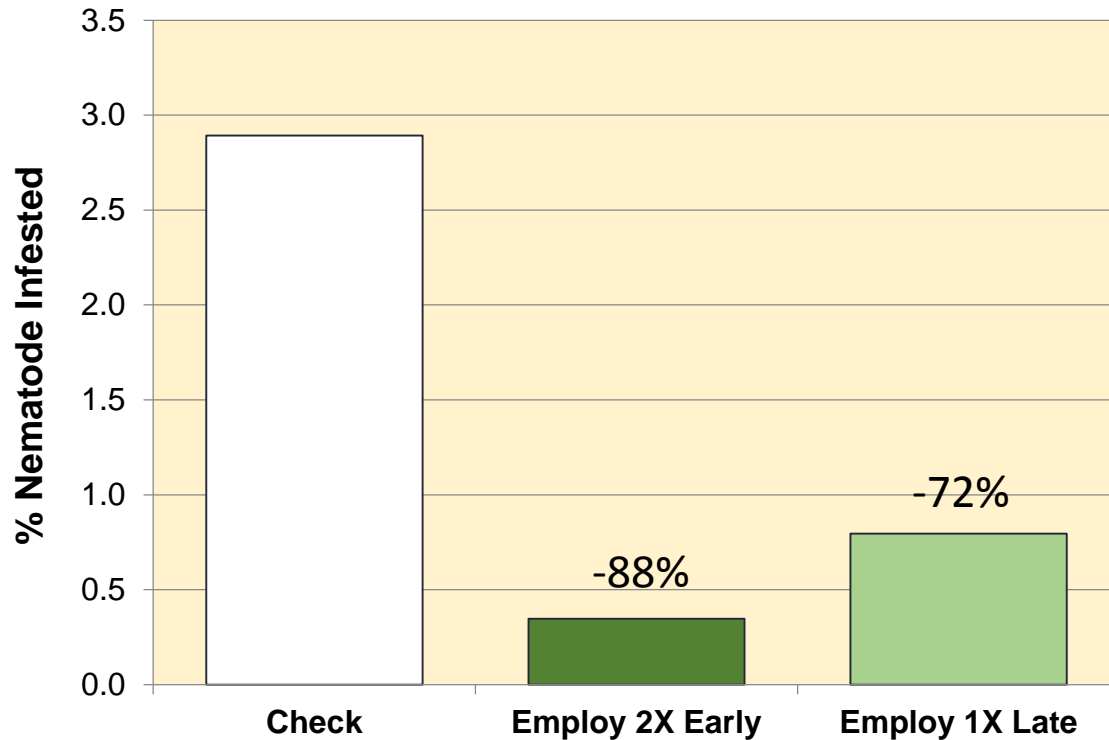
Details of Trial

Location:	Connell, WA, 99326 (46.69957°, -118.994318°)
Researcher:	Hubbard Ag Services, LLC
Experimental Design:	Randomized Complete Block – 3 entries X 5 replicates
Crop:	Irish Potato c.v. ‘Ranger Russet’ , 34 inch rows, 2200 lbs/acre planted
Irrigation:	Pivot
Plant Date:	8 May 2015
Spray Dates:	25 June, 4 July, 4 September 2015
Spray Details:	2 oz/acre; 40 gallons water; 40 psi; tractor mounted sprayer
Experimental Unit:	1 plot – 11.3 feet X 30 feet = 340 ft ² (2 rows harvested – 5.67’ X 30’)
Harvest Date:	21 October 2015
Timings:	

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Effect on Nematode Damage

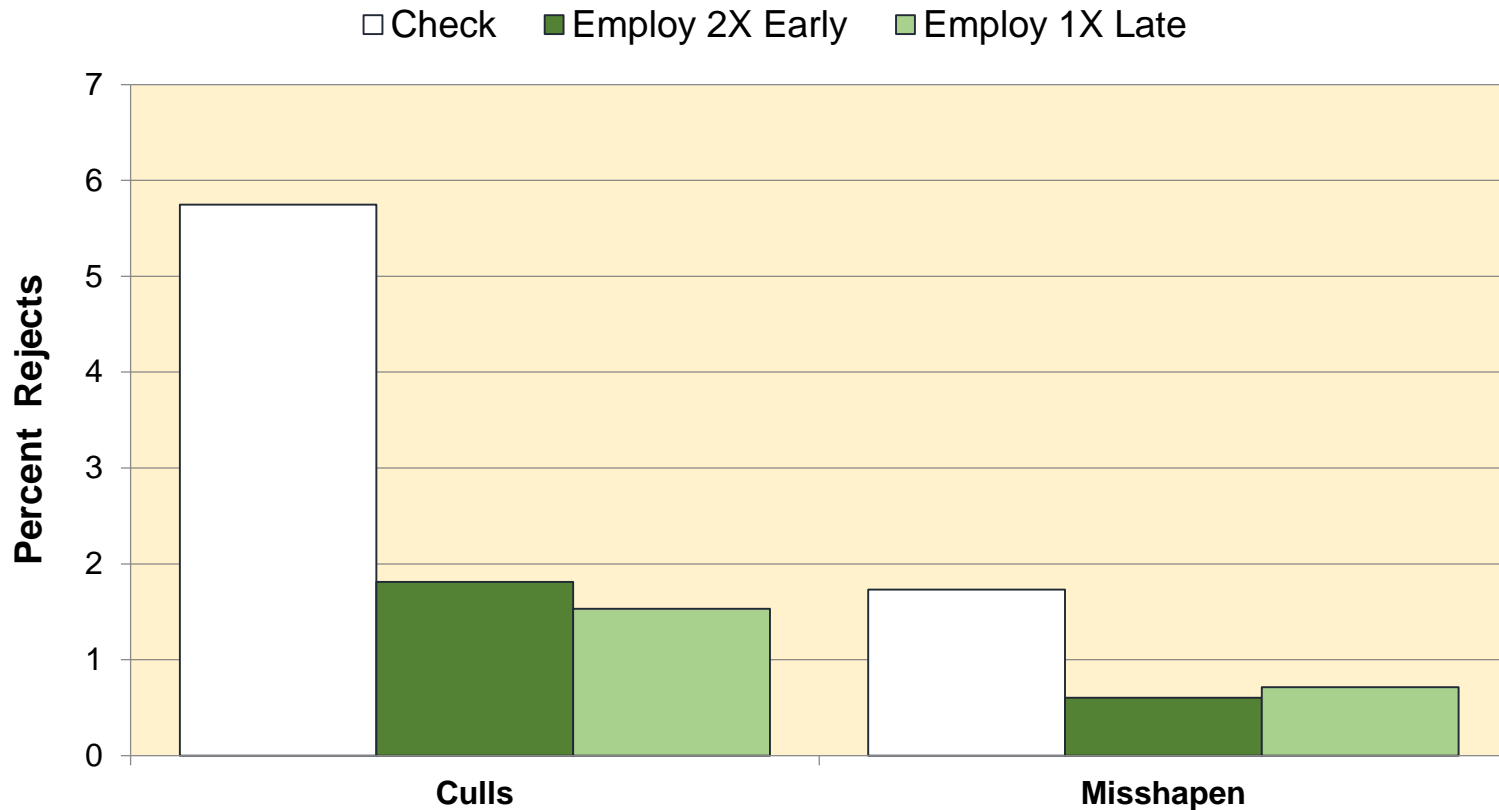
Both treatments reduced the percent of tubers damaged by the Columbia Rootknot Nematode (*Meloidogyne chitwoodi*).



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Effect on Percent Rejected Tubers

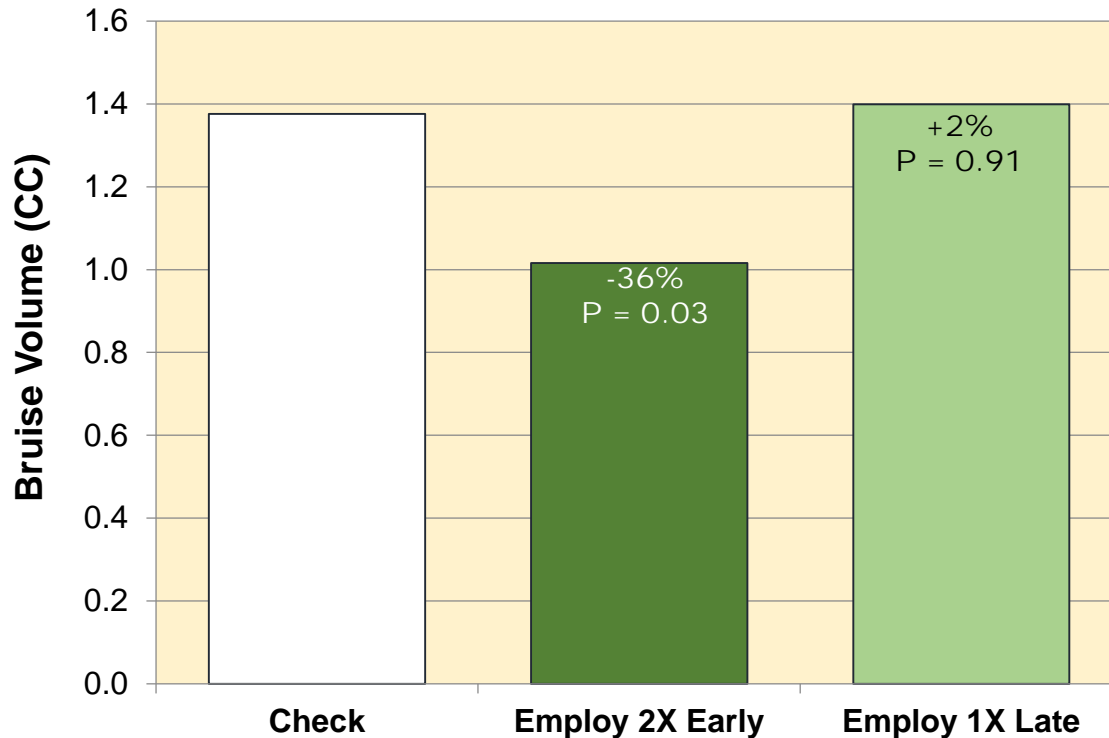
All treatments **decreased** the percent of rejected tubers.



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Effect on Bruise Size in Storage

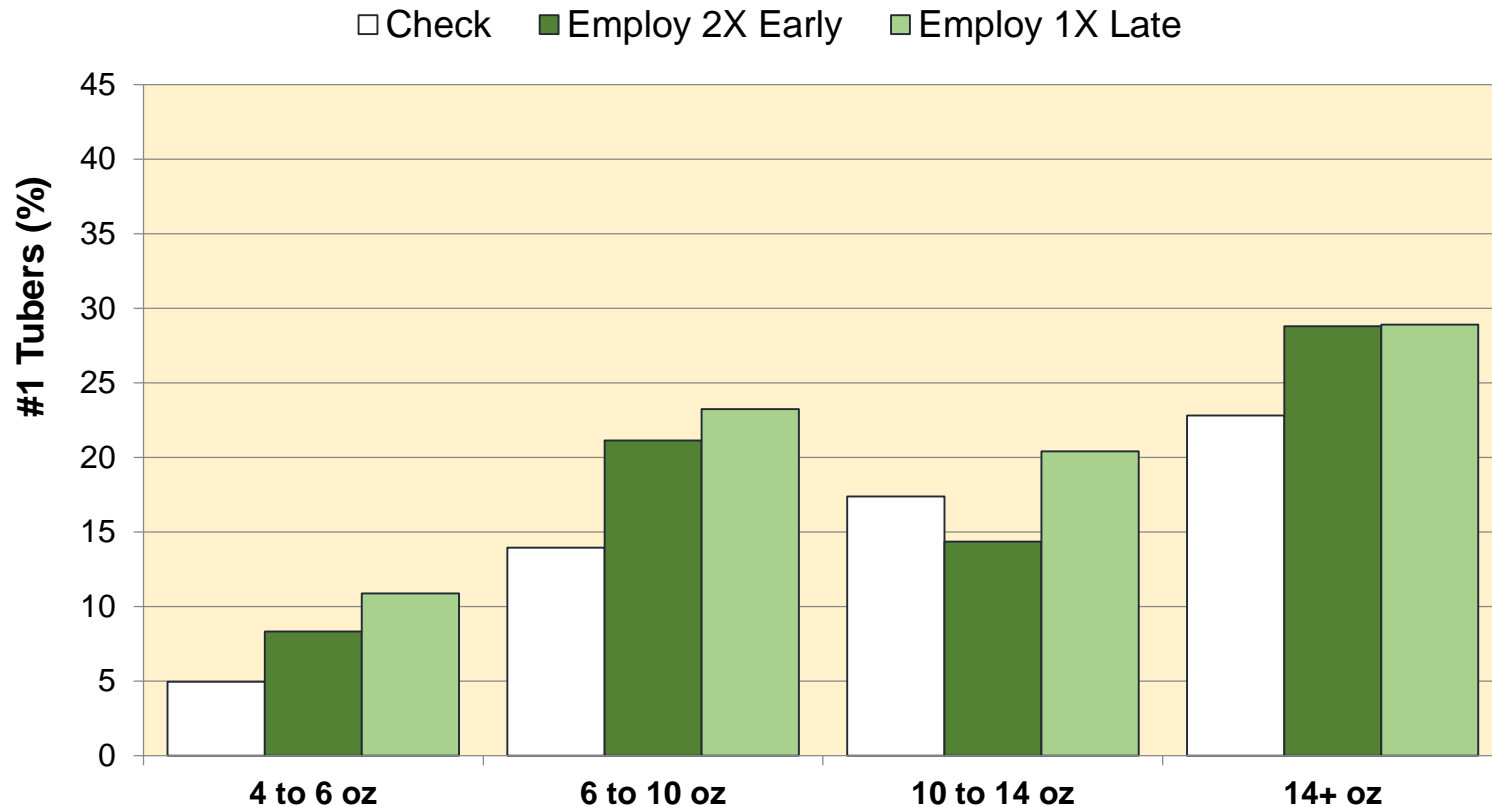
Samples from the trial were taken to Oregon State University and tested for susceptibility to bruising. The early applications statistically reduced bruise size.



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Effect on Size Distribution of Grade #1 Tubers

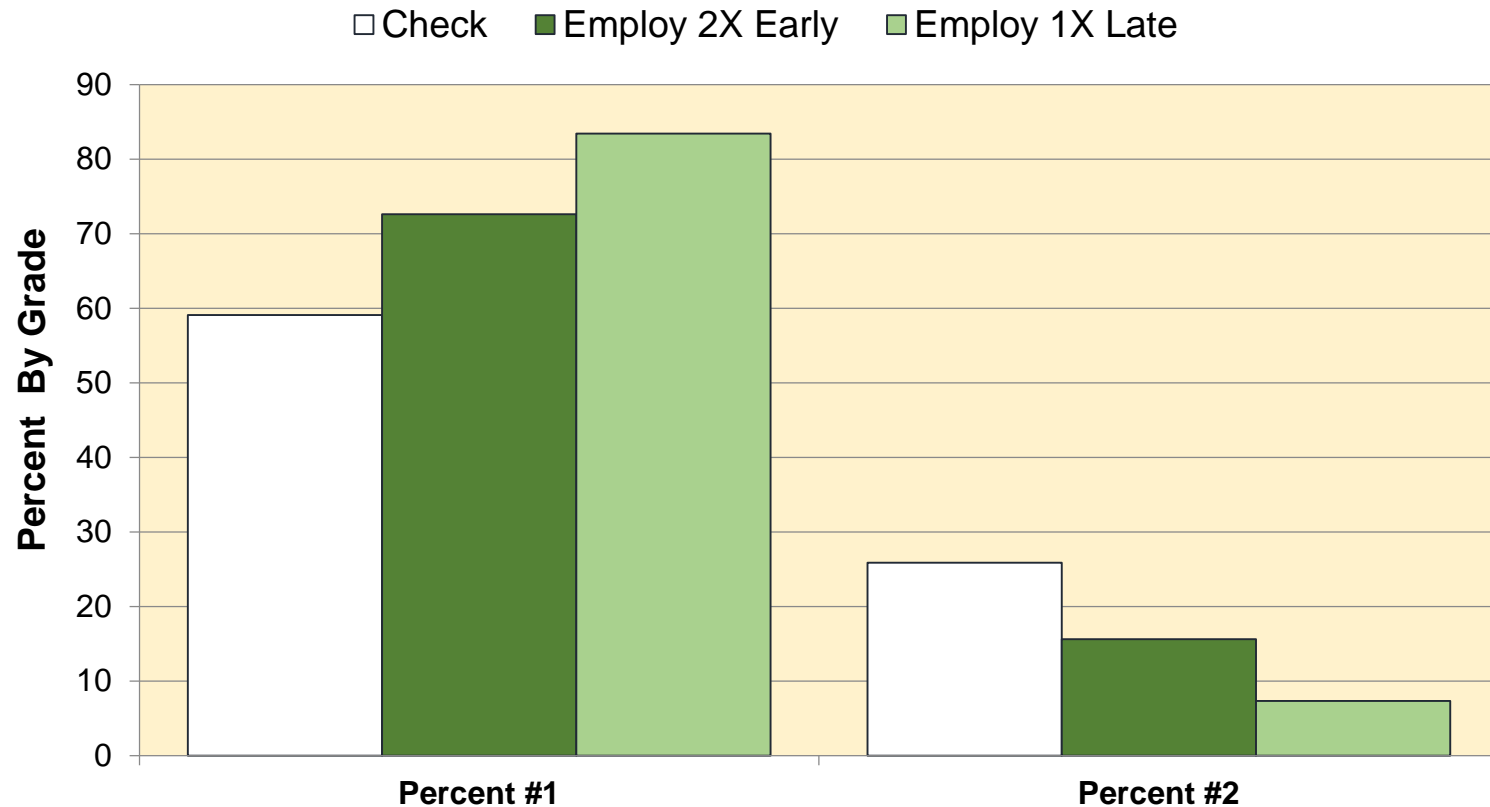
Almost all treatments **increased** the percent of #1 grade tubers.



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Effect on Grade #1 and Grade #2 Tuber Percentages

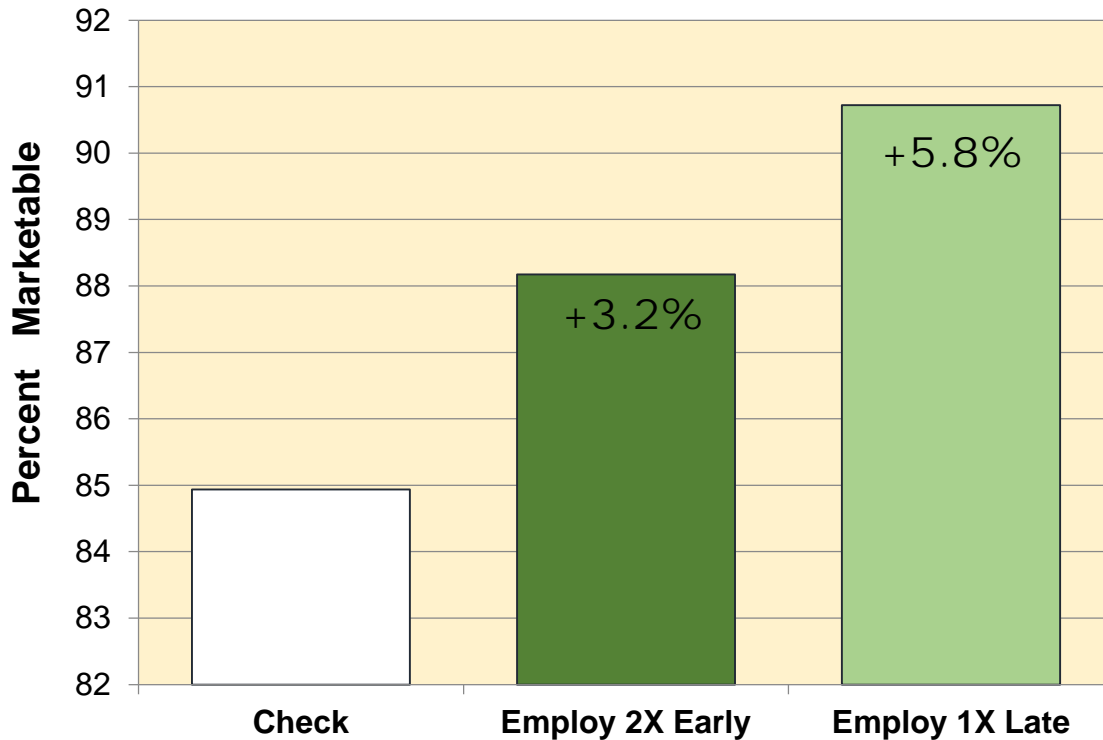
Summed across all sizes, the treatments increased grade #1 tubers and decreased grade #2 tubers.



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Effect on Percent Marketable Yield

Summed across all sizes and grades, the treatments increased the percent marketable yields.



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Effect on Size Distribution of Grade #2 Tubers

All treatments **decreased** the percent of #2 grade tubers.

