



# RAINIER RUSSET

A High Yielding, Medium to Late Dual Purpose Variety



## SUMMARY

Rainier Russet is a medium- to late-maturing selection with oblong to long, large russeted and attractive tubers. Total yields are similar to those of Russet Burbank and Ranger Russet and slightly higher than Russet Norkotah. However Rainier produced significantly higher percent of US No. 1 yields when compared with the standard varieties. It has high protein, high antioxidant level, high specific gravity, light fry color, low acrylamide level, and few internal and external tubers defects. In three years of evaluations in the Western Regional Potato Variety Trials, post-harvest merit scores for fresh and processing qualities were high for Rainier when compared to standard varieties.

The plant has medium to large-sized semi-erect vines with medium- to late- maturity. The tubers are large, heavily russeted and have evenly distributed eyes and long dormancy. Tubers have significantly higher specific gravity than Russet Burbank and Russet Norkotah. Post-harvest merit scores for fresh market and processing quality of Rainier Russet were higher than Russet Burbank and Ranger Russet and similar to Russet Norkotah but has superior fresh packability of individual tubers.

In the National Fry Processing Trial (NFPT) 2013 trials the acrylamide level of Rainier Russet consistently lower than Russet Burbank and Ranger Russet. Rainier Russet tubers are less susceptible to growth cracks, second growth, hollowheart/brown center, and internal brownspot than Russet Burbank tubers.

Tuber net necrosis and shatter bruise for Rainier Russet was higher than Russet Burbank but still within acceptable limits. Blackspot bruise expression for Rainier Russet is similar to Russet Burbank.

Rainier Russet has won first place in the Russet Category for two years at the Oregon Potato Commission Goodness Unearthed Best Potato Award.

## DEFECTS & DISEASE RATINGS

Galena Russet has resistance to growth cracks and second growth similar to that of Russet Norkotah and greater than for Ranger Russet and Russet Burbank. Its resistance to shatter bruise is similar to Ranger Russet, greater than Russet Burbank, but slightly less than Russet Norkotah. Galena Russet exhibited greater resistance to blackspot bruise development than all of the standard varieties evaluated in these trials.

## DISEASE RATINGS

### RESISTANT

- Common Scab
- Fusarium

### MODERATELY RESISTANT

- Common Scab
- Fusarium
- Verticillium Wilt

### MODERATELY SUSCEPTIBLE

- Early Dying
- Net Necrosis
- Late Blight



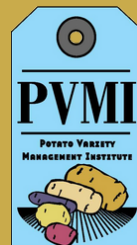
**JENNY GENTRY**

PVMI Executive Director

Phone: 208-242-2644

[jenny@pvmi.org](mailto:jenny@pvmi.org)

[pvmi.org](http://pvmi.org)





Average percent hollow heart incidence for Galena Russet was low, similar to Ranger Russet, but lower than Russet Burbank and Russet Norkotah.

Galena Russet is more resistant to the viruses PVY, and PLRV than Russet Burbank and Ranger Russet, as well as to the expression of net necrosis in the tuber associated with PLRV infection but is slightly more susceptible to foliar early blight. It is slightly more susceptible to Verticillium wilt than Ranger Russet and is very susceptible to PVX, similar to Russet Burbank.

## **FERTILITY**

Low to Medium

## **DEFECTS AND DISEASE REACTIONS**

Rainier Russet has show some hollow heart in early trials and shatter bruise in late trials.

## **STORAGE NOTES**

Storage and dormancy similar to Russet Burbank.