

Targhee Russet A01010-1

A long, medium maturity, dual purpose russet

- High Yields
- Blackspot Resistance
- Good Specific Gravity
- High Vitamin C
- Hollow Heart Resistance
- A92303-7 X A96004-8

Disease Ratings

Early dying	mod resistant
Common Scab	mod resistant
PVY	mod resistant
PLRV	susceptible
PVX	mod susceptible
Net Necrosis	mod resistant
Soft rot	mod resistant
Dry Rot	mod susceptible
Late Blight Foliar	susceptible
Late Blight Tuber	susceptible

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Targhee Russet is a dual purpose variety with vine maturity similar to **Russet Burbank (RB)**. It produces a high yield of attractive, long tubers with medium-russeted skin. **Targhee Russet** has been trialed in both the western and eastern U.S. with higher marketable yields and merit noted compared with **RB**. However, tuber dormancy is about 50-60 days shorter than **RB**. **Targhee Russet** has resistance to soft rot and to most internal and external defects except shatter bruise. It has significantly higher protein and vitamin C contents than those of most standard varieties. **Targhee Russet** has moderate specific gravity and produces lighter colored fries out of storage than standard processing varieties. Industry evaluations of processing quality indicate that **Targhee Russet** has good potential for producing premium quality

frozen and fresh-cut fries. Fresh merit evaluation scores for **Targhee Russet** indicate that it has excellent potential as a dual-purpose variety.

Tuber Yield and Quality:

Targhee Russet produces long tubers with brown, russet skin. The eyes are intermediate in depth, high in number, and are evenly distributed. Tuber set is medium-low, and tuber size is medium.

In early harvest trials conducted in western Idaho, average total and U.S. No. 1 yields for **Targhee Russet** were lower than early-maturing **Russet Norkotah (RN)** and similar to **Ranger Russet (RR)**, while the percentage of tubers greater than 12 ounces was lower than both **RR** and **RN**. In trials conducted in Oregon, **Targhee Russet** produced substantially higher total and U.S. No. 1 yields than either **RR** or **RN**. In Washington early harvest trials, average total and U.S. No. 1 yields for **Targhee Russet** were greater than **RR** and **RN**. Average yield of tubers >12oz for **Targhee Russet** was lower than **RR** and higher than **RN** in Oregon, and lower than the other two varieties in Washington.

In full-season trials, **Targhee Russet** produced average total yields that were higher than **RR** and **RB** in western Idaho, Oregon and Washington and also produced substantially higher average U.S. No. 1 yields. In eastern regional trials comprised of 9 sites in ME, NB, NY, and PA, average total yield of **Targhee Russet** was 9% greater than **RB** with overall tuber appearance being rated higher.

Defects and Disease Reactions:

Targhee Russet is generally less susceptible to growth cracks, second growth, blackspot bruise, and hollow heart than **RB**, but has similar susceptibility to shatter bruise. Compared to **RR** it has exhibited greater resistance to blackspot bruise, and growth cracks, and similarly low susceptibility to hollow heart and second growth but it has greater susceptibility shatter bruise. Compared with **RN**, Targhee Russet has similar susceptibility to second growth and growth cracks, greater susceptibility to shatter bruise, but greater resistance to blackspot bruise and hollow heart.

Targhee Russet is more resistant to *Verticillium* wilt, soft rot, PVX, PVY, and PLRV net necrosis than **RB** and **RN**, while its susceptibility to other diseases is most similar to **RB**.

Storage Notes:

Dormancy length for **Targhee Russet** was 130 days at 42°F, 110 days at 45°F, and 95 days at 48°F storage temperatures compared with 195 days at 42°F, 170 days at 45°F, and 145 days at 48°F for **RB**. Targhee **Russet** has similar susceptibility to *Fusarium* dry rot development compared with **RB**. Percent glucose is lower in **Targhee Russet** than **RB** at harvest and throughout storage at 42, 45, and 48°F in the three storage years.

Cultural Notes:

Weakness:

- Susceptible to shatter bruise
- Can develop enlarged lenticels which may reduce fresh market appearance



The information contained within this flyer was supplied by researchers of the Northwest Potato Variety Development Program and their collaborators.