

HIBERNATE TRAITS

ABILITY TO **STORE** TUBERS AT 46° F FOR UP TO 9 MONTHS AFTER HARVEST

RESISTANCE TO FOLIAR LATE BLIGHT CAUSED BY SEVERAL OF THE MOST PREVALENT STRAINS OF *PHYTOPHTHORA INFESTANS*

HIGHER SPECIFIC GRAVITY COMPARED TO OTHER CHIPPING VARIETIES

45% REDUCTION IN BLACKSPOT BRUISE COMPARED TO CONVENTIONAL ATLANTIC



Hibernate Potatoes (left) have fewer blackspots than conventional Atlantic Potatoes.

Trial inoculated with late blight. The brown rows are conventional potato plants with heavy infection of late blight. The green plants are Hibernate with late blight protection¹.

Higher Specific Gravity

Hibernate has a higher specific gravity compared to other chipping varieties²





AGRONOMIC GUIDELINE SUMMARY

See "Agronomic Management Guidelines: Hibernate Variety Potatoes" for more details⁴.

SEED SIZE & SPACING:

- Seed spacing depends on seed age.
- Tuber size profile in Hibernate trends slightly lower than Atlantic.
- Seed rate 23-28 cwt/acre.
- Seed size 2-3 oz.

DISEASE MANAGEMENT:

- Hibernate is protected against foliar late blight caused by strains US-8, US-22, US-23, and US-24 of Phytophthora infestans.
- Utilize trait as one part of an Integrated Pest Management Program (IPM). See "Late Blight Integrated Pest⁵ Management Guide for Innate® Generation 2 Varieties".

RESISTANCE TO FOLIAR LATE BLIGHT

Resistance to foliar late blight in Hibernate can be leveraged to reduce fungicide applications by 50% and save over \$120/acre.

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Snowden and Lamoka = Premium Fungicide Program (9.3 lbs a.i. \$250 per acre) Hibernate = reduced fungicide program (3.0 lbs a.i. \$129 per acre)

Temperature Range (°F)	Maximum Ramping Rate (°F/hours)
Harvest temperature to suberization range (50-55°F). Hold 2-3 weeks.	0.1°F/6 hours
52-46°F	0.1°F/12 hours

MATURITY MANAGEMENT FOR STORAGE:

- Manage irrigation and nitrogen to allow vines to senesce 14-20 days prior to vine kill. Discontinue supplemental nitrogen 40 days prior to vine kill.
- Vine kill 14-21 days before harvest.

STORAGE:

Hibernate is a late season storage variety with the ability to store up to 8-9 months at temperatures as low as 46°F, while maintaining acceptable chip color³.

- Sucrose management for Hibernate is essential
 - o The ratio of sucrose to glucose is greater than conventional chip varieties.
 - o Monitor sugars frequently; maintain sucrose levels below 2.0 mg/g for long-term storage; sucrose levels less than 2.0 mg/g should result in low glucose.
 - o Sucrose content in Hibernate must be below 3.0 mg/g upon shipment from storage to processing.
- Final storage temperature can be as low as 46°F for a mature, healthy crop.



Hibernate Potatoes (right) have protection against common U.S. Strains of late blight².



^{**}ZERO foliar late blight infection in Hibernate with reduced fungicide program.