

ACTRICE

Agronomic Highlights – Irrigated

Actrice is a high yielding early maturing variety(90-95 DAP) that has an attractive smooth skin finish and light yellow flesh. Actrice produces bold, uniform oval shaped tubers and a high marketable yield. It is semi tolerant to heat and drought stresses.

SEED MANAGEMENT:

Actrice has a medium-**long** dormancy. Maintain seed dormancy until just prior to cutting and planting. Ensure seed is > 42 F when handling. Tubers should be showing signs of “**pip**ing” just in advance of planting, if not, a delay in emergence may occur. Do not allow the seed to sprout and then be de-sprouted. Seed should be cut to a target seed size distribution of 75-85 % between 1.5 – 3.0 ounces and minimize seed piece less than 1.5 oz. in weight. Average seed piece weight targets should not be targeted as it is highly dependent upon the mother seed lot size. **The use of a drying agent at seed cutting is highly recommended.**

For best results, Actrice should be pre cut 10-14 days prior to planting if possible.

Actrice can be pre-cut and suberized.

Minimize bruising during handling.

Use of a seed piece treatment that gives excellent control of Rhizoctonia, Fusarium, silver scurf is highly recommended.

The use of an in-furrow fungicide is recommended.

IN ROW SPACING:

[Irrigated Spacing: 9.0-10.0 inch]

This is based on linear row planting, not bed plantings.

Actrice can produce a high percentage of tubers > 3.0 inch diameter if the in-row spacing is > than 10.0 inch

STRENGTHS:

Common scab, Hollow Heart, Rhizoctonia, Secondary Growth, Mechanical damage, good smooth skin finish, no obvious lenticels

FERTILITY

P, K, Mg and micros nutrients are to be based on local soil tests results, crop yield estimates and nutrient removal rate.

Avoid excessive use of K nutrition which may suppress dry matter content.

Yield targets of 500-550 cwt/acre should be used.

Actrice does require a sufficient amount of N compared to other Yellow flesh type varieties but 30-40 % less N than Agata variety.

Excessive N rates may delay maturity and skin set.

A total N rate of 125-140 lb/acre is common for commercial production in under irrigated production, ideally all applied by planting. Although a smaller portion of the total N can be applied at tuber initiation (15-20%).

Allow soil or rotation N credits in the total N amount. Compensate N for high C:N rotation crops (corn, sudan grass....)

Sandy soils (CEC 5-8) may require 15-20% more total N. Monitor N levels using petiole N sampling on a weekly basis beginning after 40-45 DAP. Maintain 15-20000 ppm of N from 50-70 days after planting.

COMMENTS:

Actrice sets ~ 10-12 tubers per plant.

Actrice produces ~ 3.0-3.5 stems per plant

Minimize field conditions that would allow for standing water.

It can require up to 21 days from top-kill to harvest. Ensure tubers are mature before harvest.

Avoid harvesting in dry soil conditions.

Harvest tubers when the tuber temperature is > 45 F or < 60 F to prevent black spot bruising.

Avoid mechanical damages.

If Actrice is to be stored for long term, use of a post- harvest fungicide is suggested.

DO NOT use Metribuzin based herbicides on this variety.

Actrice is a low dry matter variety therefore proper wound healing is required after seed cutting.

DISEASE(S):

Actrice requires a standard Late Blight and Early Blight fungicide program that is typical in the production area.

However, if Late blight pressure is high a more proactive fungicide program is required.

Avoid fields with a known history of common scab.

Avoid fields with a known history of powdery