

# ALTA CLOUD

## Agronomic Highlights – Irrigated

Alta Cloud is a maincrop maturing Russet variety (110-115 DAP) that produces a high total and marketable yield of medium to large attractive tubers and is well suited for the table market sector. It is heat and drought tolerant.

### SEED MANAGEMENT:

Alta Cloud has a medium to long tuber dormancy. Maintain seed dormancy until just prior to cutting and planting. Ensure seed is > 42 F when handled. Tubers should be showing signs of “pipping” just in advance of planting. 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 recommended.**

**Alta Cloud can be pre-cut and suberized.**

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

### IN ROW SPACING:

[Irrigated Spacing: 19.5-10.5 inch]

This is based on linear row planting, not bed plantings. Alta Cloud will produce a high percentage of tuber > 3.0 inch diameter if the in-row spacing is wider than 10.5 inch

### STRENGTHS:

Common scab, Hollow Heart, Growth Cracks, Secondary Growth, Heat and Drought tolerance, Verticillium wilt

### FERTILITY

P, K, Mg and micros nutrients are to be based on local soil tests results, crop yield estimates and nutrient removal rate. Yield targets of 500 cwt/acre should be used.

Alta Cloud does not require a large amount of N compared to other long season Russet type varieties. Higher N rates will delay maturity and skin set.

A total N rate of 140-150 lb/acre is common for commercial irrigated production. Ideally the N should be split between pre plant, planter and fertigation.

If the crop is to be side-dressed, then ~70-80 lb/acre N should be applied by planting and the balance by tuber initiation. The balance would then represent ~ 35-40 lb/ac N on the side dress applying no more than 12-15 lb/ac N per week.

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.

### COMMENTS:

Alta Cloud sets ~7-9 tubers per plant.

Alta Cloud produces 2.5-3.5 stems per plant

It can require up to 14-21 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.

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

Alta Cloud has a dry matter content higher than Goldrush, Norkotah, Russet Burbank..

Alta Cloud vines are very tolerant to environmental heat stress, superior to Goldrush, Norkotah, Canela....

### DISEASE(S):

Alta Cloud requires a standard Late Blight fungicide program that is typical in the production area.