

Team Event 2017- Agronomy CDE Scenario

For Event Use Only—Turn this scenario in to the Judges with your answers

State Number: _____ **State Name:** _____

Onion Seed Production Problem

Using the provided cost and growing information, you will answer the questions given as it relates to the scenario.

Scenario—This is early summer in the desert southwest and you have a 13.7 acre field with an additional 1.5 acres of road ways and ditches. The soil is that of a silty loam and is currently in sudan grass. The sudan grass will be harvested and finished by end of Aug. You are looking for another crop to grow on that field. A production seed company has approached you to see if you are interested in growing an onion seed crop that will have an estimated plant date of September 15th and harvest date of March 15. The seed company will provide bulbs, planting and harvesting. You have to pay all your production costs. At the end of the contract all listed expenditures will be reimbursed plus \$1000/acre. Is this a reasonable rate of return on investment?

1. **Complete the task description charts and associated cost sheets to determine if this venture is profitable.**
2. **Complete the pesticide & fertilizer related questions and cost sheets.**

Field conditions:

Your field's irrigation is provided by Colorado River water which has a pH of 7.6.

Pest Control: Insect & Disease use aerial application @ \$20/acres.

Pests-

- Heavy thrip Oct. 10
- Low Thrip and mite pressure Oct 20th

Disease- Downy mildew, Purple blotch, and Phytophthora

- Phytophthora application Nov 10th
- Downy Mildew application Nov. 21
- Downy Mildew application Nov.30
- Purple Blotch, light Downy Mildew application Dec. 20

Weeds-

Purslane and volunteer sudan grass are throughout field and on ditches and roadways. (Treatment of ditches & roads Oct 27th).

Fertilizers-

N-Phuric Acid 15-49-00 (liquid)

Ammonium nitrate UAN32 (liquid)

11-52-00 dry

Irrigation-

1 flood irrigation and 3 furrow irrigations