Center for Value Added Seed Technology

Dr. Grant Vest/Utah State University/Logan, Utah

Established center in 1991. The center is developing agricultural products that will prevent major yield losses for wheat and barley producers in Utah. In addition to patented breeding lines of wheat that will increase yields 10 to 15%, a special turf seed is being researched that is drought resistant.

Overview

Current State Contract	$70,000
FY92 Matching Funds	$168,613
Cumulative	$210,913
Total Jobs Created	17
Industry	0
Center	17
Direct Center Spin-offs	0
Total Benefiting Utah Companies	0
License Agreements	0
Patents Applied	0
Patents Issued	0

Technologies

*Biotechnology
- Plant tissue culture
- Molecular procedures
- PCR, RAPD, RFLP Procedures

*Plant Physiology

*Plant Breeding, Genetics and Cytogenetics

*Develop drought-tolerance turf

*Transfer apomixis from wild grass species into commercial small grain crops

Status

*Current grass breeding program has led to the development of two crested wheatgrass breeding populations suitable as turfs

*Efforts to transfer DNA from sainfoin (bloat safe) to alfalfa (bloat causing) via microinjection and electroporation is underway

*Developing improved varieties of small grains and forages

Economic Impact

*Received a USDA grant of almost $90,000

*Drought tolerant turfgrass will be released in three years

*Hybrid wheat could create value added wheat seed production for Cache Valley

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