



California Seed Association Spinach Seed Committee

February, 2018

Spinach Seed Committee History

- California Seed Association Mid Year 2012 ~Initial meeting to discuss need for a committee devoted to spinach seed
- March 2013 ~Spinach Seed Fund letter of Solicitation sent to CSA members
 - Started with 20 members and a research fund of \$49,500

Spinach Seed Committee Goal

To identify research needs and/or special projects for spinach seed and to establish a sustainable source of funding to support these projects.



Spinach Seed Committee Objectives

- To identify research needs to address current and anticipated issues that could potentially prevent the movement and availability of spinach seed for the leafy greens market in the U.S.
- Educate CSA members on current issues associated with spinach production in the U.S.

Spinach Seed Committee Structure

Membership: There are currently 19 paid members representing: seed producers, dealers/distributors and associates

❖ **Dues:** Voluntary annual contributions -due April 15

Seed Producers ~ \$5000

Seed Dealers/Distributors ~ \$1000

Associates ~ \$1000

- ❖ **Monies are collected and held in a separate bank account by the California Seed Association for the exclusive use by the Spinach Committee.**
- ❖ **Voting: One vote per paid member company**
- ❖ **We have \$181,000 available for research**

Research Proposal Guidelines

- Proposals must be submitted to committee chair two months before each meeting
 - Proposals shared with voting members prior to the meeting
 - At the CSA meeting we discuss proposals merits and vote on funding approval or denial

The Current Spinach Seed Committee Structure

Chairperson: Dale Krolikowski, Germains Seed Technology, Inc.

Vice chair: Pine Higgins, Enza Zaden, USA

Scheduled Meetings: Twice a year in conjunction with the CSA midyear and annual meetings.

Spinach Seed Committee Projects Funded to date

- Growth Chamber for UC Extension ~Salinas
- Dr. Jim Correll, Univ Arkansas
 - DM race Identification
- Dr. Allen Van Deynze: Spinach Genome for targeted traits, UC Davis
 - Downey Mildew and Cadmium Uptake

Spinach Seed Committee

Current Projects

- Review and prioritization of issues of concern...

#1 Downy Mildew

- ❖ DNA Marker Diagnostics
- ❖ Epidemiology of Downy Mildew
- ❖ Effective organic treatments (foliar & seed)

Spinach Seed Committee

Past projects that have been completed

- Update Fact Sheets
 - *Verticillium dahliae*
 - Downy Mildew

Past projects that have been completed

➤ Update Fact Sheets

➤ *Verticillium dahliae*

➤ Downy Mildew

Spinach Seed Committee

Future Projects

Potential projects being prepared

Standardized testing Downy Mildew oospores on seed and viability of spores

With ISHI

- ❖ Evaluate Downey Mildew infected seeds grown in commercial field with no history of Downy Mildew
- We are currently accepting proposals. They are needed before March 1st

How to Submit a Research Proposal?

Submit to:

California Seed Association

1521 I Street

Sacramento, California 95814

Fax: (916) 446-1063

Office: (916) 441-2251

www.calseed.org

Attn: Spinach Seed Committee

Questions?