



531-D N. Alta Ave. Dinuba, CA 93618-3203
PHONE (559) 591-4866
FAX (559) 591-5744
CALBEANS.ORG

DATE: December 6, 2019
TO: Researchers
FROM: Nathan Sano, Manger
RE: Request of Proposals

The following is a list of research priorities discussed and approved by the California Dry Bean Advisory Board. Along with the importance of the breeding program, Council members expressed their desire to see more agronomic type research proposals. Pest and weed control continue to be issues within the industry. With the concerns over nitrogen use and future monitoring there is some interest in nitrogen studies. There is also interest in deep rooted pinquito beans for dry farming along the coastal regions. These priorities reflect current issues and would complement the breeding research program.

The California Dry Bean Advisory Board is also interested in Food Science specifically in food technology and product innovation research using California beans. This is a growing priority for the Board and will receive special attention.

If there are any questions about the research priorities please contact Rachael Long of UCCE, Yolo County, Michelle Leinfelder-Miles of UCCE, San Joaquin County or Board manager Nathan Sano.

Baby Lima Council

Breeding

1. Yield/Better setting Varieties
2. Lygus resistance
3. Nematode resistance
4. Drought tolerance

Agronomics

1. Lygus
2. Black bean aphid
3. Plant growth regulator work to help with bloom set
4. Water efficiency/Drip Irrigation
5. Symphylans

Food Science

1. Food Innovation
2. Nutrition
3. Product Innovation

Large Lima Council

1. Yield/ better bloom set
2. Lygus
3. Nematodes
4. Centipedes
5. Drip/materials within drip
6. Mite control
7. Fertility/Nitrogen

Blackeye Council

Breeding New Varieties

1. Adding lygus and aphid resistance into blackeye varieties
2. Adding Fusarium and Nematode Resistance to Blackeye 50
3. Continue development of fusarium and nematode resistance into Blackeye 46 prototypes
4. Water efficiency and drought tolerance
5. Continue with existing varietal development for full season, high-yielding varieties
6. Get seeds of promising lines into growers' strip trials as soon as possible for realistic evaluation

Agronomic Priorities

1. Protection against weeds (nightshade, morning glory and nutsedge)
2. Protection against lygus
3. Protection against aphids and other insects

Garbanzo Council

Plant Breeding Priorities

1. Yield
2. Seed Quality
3. Ascochyta Resistance
4. White Mold/Soil Disease Resistance
5. Temperature and Regional Acclimation
6. Fusarium Resistance
7. Salt Tolerance

Agronomic Priorities

1. Weed Control
2. White Mold
3. Virus Control/Education
4. Sanitation Education
5. Irrigation Levels and Timing
6. Yield Variations between Test Plots and Growers' Fields

Common Bean Council

1. Development or evaluation of higher yielding varieties for California Production
2. Development of cultural practices including safer crop protection techniques to cut production input costs, and meet future challenges
3. Development of a plant with a better root system
4. Development of a variety that will produce under organic growing conditions and cultural practices
5. Water efficiency and drip irrigation