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DATE: November 20, 2023  
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. While the Board recognizes the importance of the breeding program, Council members expressed their desire for more research projects focused on weed and insect control as these issues continue to impact production each year. With the concerns over nitrogen use and future monitoring there is some interest in nitrogen studies. These priorities reflect current issues and would complement the breeding research program.

If there are any questions about the research priorities, please contact Nicholas Clark of UCCE Kings/Tulare/Fresno Counties, Michelle Leinfelder-Miles of UCCE, San Joaquin County or Board manager Nathan Sano.

**Baby Lima Council**

- | Breeding                | Agronomics  | Food Science          |
|-------------------------|---|-----------------------|
| 1. Yield/Better setting | 1. Lygus  | 1. Food Innovation    |
| Varieties               | 2. Black bean aphid                                   | 2. Nutrition          |
| 2. Lygus resistance     | 3. Plant growth regulator work to help with bloom set | 3. Product Innovation |
| 3. Nematode resistance  |   |                       |
| 4. Drought tolerance    | 4. Water efficiency/Drip Irrigation                   |                       |
|                         | 5. Symphylans   |                       |

**Large Lima Council**

1. Yield/ better bloom set
2. Lygus
3. Nematodes
4. Mite Control
5. Centipedes
6. Drip/materials within drip
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. Breeding for a more upright plant
5. Water efficiency and drought tolerance
6. Continue with existing varietal development for full season, high-yielding varieties
7. Get seeds of promising lines into growers' strip trials as soon as possible for realistic evaluation

### Agronomic Priorities

1. Protection against weeds (nightshade, Pigweed, 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
8. Color Consistency

### 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
7. Nitrogen/Soil Health Study

## **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