



**DIVISION OF AGRICULTURE**  
**RESEARCH & EXTENSION**

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# Edamame Production Practices: What We Know Now

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# Edamame

- Edamame – “beans on a branch”
- Native of Japan
- Same species (*Glycine max*) as commercial soybean
- Specifically bred for large seeds, sweeter flavor, and creamier texture



# Edamame in Arkansas

- Specialty crop
  - Arkansas River Valley, North Central Arkansas
- American Vegetable Soybean and Edamame, Inc.
  - Mulberry, AR
- UA Soybean Breeding Program

# Objectives

- Establish Extension Research/Demonstrations
- Organize and conduct field days
- Develop educational materials



# Insect Research

- Seed Treatment Study
- Comparing conventional vs. edamame insect pressure
- Stink bug threshold study

# Labeled Insecticides

- Acramite
- Admire 2 Flowable
- Brigadier
- Capture
- Cruiser
- CruiserMaxx
- Hero
- Intrepid
- Mustang
- Proaxis
- Provado
- Warrior

# Disease Research

- Fungicide Studies
- Nematode screening
- Variety screening

# Labeled Fungicides

- Apron XL
- Endura
- Headline
- Maxim XL
- Quadris
- Serenade



# Weed Science Research

- Herbicide sensitivity trials
- Post herbicides

# Labeled Herbicides

- AIM
- Dual Magnum
- Intensity One
- Select Max
- Treflan HFP
- Roundup (Burndown)
- Lorox

# Edamame Seeding Rate Study

- Variety 8080
- Variety 4002
  
- 50,000 seed/ac
- 75,000 seed/ac
- 100,000 seed /ac
- 125,000 seed/ac



# Edamame Seeding Rate Study

Variety	Seeding Rate	3 Bean Wt (lb)	2 Bean (lb)	Other
8080	50,000	0.202 c	0.674 a	0.436 ab
8080	75,000	0.233 c	0.839 a	0.455 a
8080	100,000	0.310 c	1.154 a	0.544 a
8080	125,000	0.209 c	0.930 a	0.547 a
4002	50,000	0.818 a	0.934 a	0.290 bc
4002	75,000	0.645 ab	0.784 a	0.268 c
4002	100,000	0.575 b	0.619 a	0.256 c
4002	125,000	0.509 b	0.528 a	0.235 c

# Edamame N

## Rate/Timing/Product

- Variety 8080
- Variety 4002
- Urea + Agrotain
- Amm. Sulfate
- Preplant
- V6
- R1
- R3

# Edamame N Rate/Timing/Product

- Significantly different yield between varieties
- No significance with rate, timing, or product



# Edamame K Rate/Product Study

- Variety 8080
- Variety 4002
- $K_2O$
- $K_2SO_4$
- 0 lb/ac
- 60 lb/ac
- 120 lb/ac

# Edamame K Rate/Product Study

- Significantly different yield between varieties
- No significant difference in rate or product



# Edamame P Rate Study

- Variety 8080
- Variety 4002
  
- 0 lb/ac
- 40 lb/ac
- 80 lb/ac
- 120 lb/ac
- 160 lb/ac



# Edamame P Rate Study

- Significantly different yields between varieties
- No significant difference between rates

- Questions?