UNIVERSITY OF DELAWARE — SOIL TESTING LABORATORY NEWARK, DELAWARE 19717-1303



BACKGROUND INFORMATION: Grower copy 168849 12/14/23 1284 10/20/23 11/30/23 OUT OF STATE SAREPA FIELD NAME OR NO. COUNTY DATE SAMPLED DATE RECEIVED DATE COMPLETE LAB NO. BAG NO. **COUNTY AGENT** SOIL TEST FOR: GROWER ADDITIONAL COPY TO: MYEASHA TAYLOR 2801 SISSON ST BALTIMORE, MD 21211 CONV PLOW AUSTRIAN PEA NO NO GRAY MOD WELL SOIL SOIL SOIL SAMPLE INJ. TILLAGE PRESENT COVER IRRIGATION SOIL NAME TEXTURE COLOR DEPTH 2 14 7-12 0.0 50 LBS 0 CAL OATS T/A WHEN P₂O₅ K₂O LAST FERTILIZER LAST CROP OTHER NUTRIENTS MANURE LASTLIME LAST CROP SOIL TEST RESULTS: LOW **OPTIMUM** MEDILIM pH 3 *************** P **PHOSPHORUS** 35 ****** EXCESSIVE INDEX VALUE K **POTASSIUM** ****** 53 INDEX VALUE Mg MAGNESIUM ********** 81 INDEX VALUE Ca CALCIUM ************ INDEX VALUE 100 7.61 13.8 10.4 1,2,8,18 56.5 27.0 37.1 4.2 0.21 70.0 1.1 CEC % Base В Zn SO₄-S % ORGANIC SOL. SALTS % Phosphorus **BUFFER pH ENCLOSURES** LBS/ACRE MATTER MMHOS/CM mea/100a SUGGESTED FERTILIZER PROGRAM: 70 SOYBEANS, CONVENTIONAL 0.0 0 60 TILLAGE P₂O₅ LBS/A K₂O LBS/ N S R LIME LBS/A LBS/A YIELD GOAL: 50 BU/A LBS/A

- 1. The yield goal shown is a realistic yield for non-irrigated soybean in this region in an average to good year. If your realistic yield differs from that shown, see the tables in the enclosed handout "Nutrient Recommendations Full Season Soybeans" to adjust the nutrient rates for your situation.
- Because soybeans fix their own nitrogen, they do not benefit from preceeding legume covers to the same extent as do crops such as corn. However, there is no harm in following this practice.
- 3. If soybeans have not been satisfactorily grown in this field in previous years, inoculate seed with nitrogen fixing bacteria.
- 4. Recommended phosphorus rate is for broadcast application. If P is to be banded, apply one-half the indicated rate.
- 5. Potash should be broadcast before planting or banded when planting. Do not band more than 75 lbs/A N plus K20 or salt injury to seedlings could occur.
- 6. If potash will be banded, reduce rate shown by one-half.
- 7. Manganese level in the soil at this pH is adequate.
- 8. Zinc deficiency is unlikely at this pH, soil zinc and soil phosphorus levels.

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BACKGROUND INFORMATION: Grower copy 10/20/23 11/30/23 12/14/23 1284 168849 OUT OF STATE SAREPA BAG NO. FIELD NAME OR NO. ACRES COUNTY DATE SAMPLED DATE RECEIVED DATE COMPLETE LAB NO. **ADDITIONAL COPY TO:** COUNTY AGENT SOIL TEST FOR: GROWER MYEASHA TAYLOR 2801 SISSON ST BALTIMORE, MD 21211 CONV PLOW NO MOD WELL GRAY AUSTRIAN PEA NO SOIL SOIL SOIL SAMPLE IN.I **TILLAGE** PRESENT COVER SOIL NAME IRRIGATION PUMP COLOR 14 7-12 50 LBS 0.0 CAL T/A YIELD OF T/A WHEN P₂O₅ K₂ MOS. AGO OTHER NUTRIENTS LAST CROP LAST CROP MANURE SOIL TEST RESULTS: **OPTIMUM** LOW MEDIUM pH 6.3 ***************** P **PHOSPHORUS** 35 ********** EXCESSIVE INDEX VALUE K **POTASSIUM** ****** 53 INDEX VALUE Mg MAGNESIUM *********** 81 INDEX VALUE Ca CALCIUM *********** INDEX VALUE 100 1.1 56.5 27.0 37.1 4.2 0.21 7.61 13.8 10.4 70.0 1,2,8,18 % Base В SO4-S % ORGANIC SOL. SALTS CEC Mn Zn % Phosphorus BUFFER pH **ENCLOSURES** LBS/ACRE MATTER meq/100g Saturation SUGGESTED FERTILIZER PROGRAM: CROP: SUNFLOWERS

0.0	80	50	0-20		
T/A TYPE	N	P ₂ O ₅	K ₂ O	S	B
	LBS/A	LBS/A	LBS/	LBS/A	LBS/A

YIELD GOAL:

- For Austrian pea cover crop, reduce recommended N by 50 lbs/A if peas are 12 inches tall when killed, by 75 lbs if 18 inches, or by 100 lbs/A if 24 inches.
- 2. Nitrogen use is most efficient when split into at least two applications.
- Recommended phosphorus rate is for broadcast application. If ${\tt P}$ is to be banded, apply one-half the indicated rate.
- Potash should be broadcast before planting or banded when planting. Do not band more than 75 lbs/A N plus K2O or salt injury to seedlings could occur.
- 5. Manganese level in the soil at this pH is adequate.
- 6. Zinc deficiency is unlikely at this pH, soil zinc and soil phosphorus levels.

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BACKGROUND INFORMATION: Grower copy SAREPA 1 OUT OF STATE 10/20/23 11/30/23 12/14/23 1284 168849 FIELD NAME OR NO. COUNTY LAB NO. BAG NO. DATE SAMPLED DATE RECEIVED DATE COMPLETE SOIL TEST FOR: GROWER **ADDITIONAL COPY TO: COUNTY AGENT** MYEASHA TAYLOR 2801 SISSON ST BALTIMORE, MD 21211 MOD WELL **GRAY** CONV PLOW AUSTRIAN PEA NO NO SOIL SOIL SAMPLE SOIL INJ SOIL NAME TILLAGE PRESENT COVER IRRIGATION DRAINAGE TEXTURE COLOR DEPTH PLIMP 50 LBS 2 14 0 7-12 0.0 CAL YIELD OF T/A WHEN P₂O₅ K₂O LAST FERTILIZER MOS. AGO TYPE LAST CROP OTHER NUTRIENTS LAST CROP MANURE LAST LIME **SOIL TEST RESULTS:** LOW **MEDIUM OPTIMUM** pH ********** 6.3 P **PHOSPHORUS** 35 ********** EXCESSIVE INDEX VALUE K POTASSIUM 53 ******* INDEX VALUE Mg MAGNESIUM 81 INDEX VALUE Ca CALCIUM. ************** INDEX VALUE 100 150 1.1 56.5 27.0 37.1 4.2 0.217.61 13.8 10.4 70.0 1,2,5,8,14, 18 SO₄-S В Mn Zn % ORGANIC SOL SALTS CEC % Base % Phosphorus BUFFER pH **ENCLOSURES** LBS/ACRE MATTER MMHOS/CM Saturation meg/100gm Saturation SUGGESTED FERTILIZER PROGRAM: CROP: CORN, CONVENTIONAL

TTILAGE

	1 4		_
YIELD	GOAL:	175	BU/A

0.0	175	60	55		
T/A TYPE	N	P ₂ O ₅	K ₂ O	S	B
	LBS/A	LBS/A	LBS/	LBS/A	LBS/A

- 1. The yield goal shown is a realistic yield for non-irrigates corn in this region in an average to good year. If your realistic yield differs from that shown, see the tables in the enclosed handout "Nutrient Recommendations Grain Corn" to adjust the nutrient rates for your situation.
- For Austrian pea cover crop, reduce recommended N by 50 lbs/A if peas are 12 inches tall when killed, by 75 lbs if 18 inches, or by 100 lbs/A if 24 inches.
- Apply 1/4 to 1/3 of the recommended N at planting, the balance to be sidedressed when corn is 15 inches tall.
- 4. Recommended phosphorus rate is for banded application. If P is to be broadcast, rate should be doubled.
- Potash should be broadcast before planting or banded when planting. Do not band more than 75 lbs/A N plus K2O or salt injury to seedlings could occur.
- If potash will be banded, reduce rate shown by one-half.
- 7. Manganese level in the soil at this pH is adequate.
- 8. Zinc deficiency is unlikely at this pH, soil zinc and soil phosphorus levels.

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BACKGROUND INFORMATION: Grower copy 10/20/23 11/30/23 12/14/23 1285 168850 1 OUT OF STATE SAREPB COUNTY LAB NO BAG NO. FIELD NAME OR NO DATE SAMPLED DATE RECEIVED DATE COMPLETE **COUNTY AGENT** SOIL TEST FOR: GROWER ADDITIONAL COPY TO: MYEASHA TAYLOR 2801 SISSON ST 21211 BALTIMORE, MD MOD WELL NORMALSA LO 8-10 CONV PLOW AUSTRIAN PEA NO NO SAMPLE INJ. PUMP PRESENT COVER TILLAGE IRRIGATION SOIL NAME DRAINAGE COLOR TEXTURE DEPTH 1NEVER 0.0 1 UNK S MN ZN 1 CORN CONV TILL 1023 LBS MOS. AGO YIFI D OF T/A WHEN P₂O₅ K₂O LAST FERTILIZER D T/A OTHER NUTRIENTS LAST CROP LAST CROP MANURE **SOIL TEST RESULTS:** LOW **MEDIUM OPTIMUM** pH ************* . 4 6 P **PHOSPHORUS** *********** 234 INDEX VALUE K **POTASSIUM** W TOPS ************* 383 INDEX VALUE Mg MAGNESIUM ************ 256 INDEX VALUE Ca CALCIUM **************** 298 INDEX VALUE 100 25 7.84 48.9 36.3535.1 5.2 100.0 20.8 93.8 1,2,5,8,18 4.0 SO₄-S % ORGANIC SOL. SALTS CEC B Mn % Phosphorus % Base **ENCLOSURES** BUFFER pH LBS/ACRE MATTER Saturation meg/1000 Saturation SUGGESTED FERTILIZER PROGRAM: CROP: OATS 40-60 0 0 0.0 N S В T/A TYPE **YIELD GOAL:**

100 BU/A

- P₂O₅ LBS/A K₂O LIME LBS/A
- 1. For Austrian pea cover crop, reduce recommended N by 50 lbs/A if peas are 12 inches tall when killed, by 75 lbs if 18 inches, or by 100 lbs/A if 24 inches.
- 2. All of the recommended nitrogen should be topdressed in the early spring when growth resumes.
- Phosphorus level in soil is excessive. Application of phosphorus in fertilizers or manures, other than starter fertilizers, is NOT RECOMMENDED.
- 4. Manganese level in the soil at this pH is adequate.
- Zinc deficiency is unlikely at this pH, soil zinc and soil phosphorus levels.

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BACKGROUND INFORMATION: Grower copy 10/20/23 11/30/23 12/14/23 1285 168850 SAREPB OUT OF STATE FIELD NAME OR NO. COUNTY LAB NO. BAG NO. ACRES DATE SAMPLED DATE RECEIVED DATE COMPLETE SOIL TEST FOR: GROWER **ADDITIONAL COPY TO: COUNTY AGENT** MYEASHA TAYLOR 2801 SISSON ST 21211 BALTIMORE, MD NORMALSA LO 8-10 CONV PLOW AUSTRIAN PEA NO NO MOD WELL SOIL SOIL SOIL SAMPLE INJ. TILLAGE PRESENT COVER SOIL NAME IRRIGATION PUMP DEPTH TEXTURE 1 1023 LBS 1NEVER 0.0 UNK S MN ZN YIELD OF T/A WHEN P₂O₅ K₂O LAST FERTILIZER MOS. AGO OTHER NUTRIENTS LAST CROP LAST LIME LAST CROP MANURE **SOIL TEST RESULTS:** LOW MEDILIM **OPTIMUM** pH ******** 4 6 P **PHOSPHORUS** 234 ************************ INDEX VALUE K **POTASSIUM** *** ********** 383 INDEX VALUE Mg MAGNESIUM ********* 256 Ca CALCIUM *********** 298 INDEX VALUE 48.9 36.3535.1 7.84 4.0 5.2 100.0 20.8 93.8 1,2,8,18 % ORGANIC В Zn SO₄-S CEC % Base SOL SALTS % Phosphorus BUFFER pH **ENCLOSURES** LBS/ACRE MMHOS/CM MATTER Saturation mea/100am Saturation SUGGESTED FERTILIZER PROGRAM: SOYBEANS, CONVENTIONAL 0.0 0 0 0 **TILLAGE** T/A N P₂O₅ LBS/A K₂O B TYPE YIELD GOAL: 50 BU/A LIME LBS/A

- 1. The yield goal shown is a realistic yield for non-irrigated soybean in this region in an average to good year. If your realistic yield differs from that shown, see the tables in the enclosed handout "Nutrient Recommendations Full Season Soybeans" to adjust the nutrient rates for your situation.
- 2. Because soybeans fix their own nitrogen, they do not benefit from preceeding legume covers to the same extent as do crops such as corn. However, there is no harm in following this practice.
- 3. If soybeans have not been satisfactorily grown in this field in previous years, inoculate seed with nitrogen fixing bacteria.
- 4. Phosphorus level in soil is excessive. Application of phosphorus in fertilizers or manures, other than starter fertilizers, is NOT RECOMMENDED.
- 5. Manganese level in the soil at this pH is adequate.
- 6. Zinc deficiency is unlikely at this pH, soil zinc and soil phosphorus levels.