Waters Ag Labs - GA
257 Newton Road - P.O. Box 382
Camilla GA , 31730, United States

No Parcel Associated

Pasture
CBX02D

General Features

Pasture	-	-	30Jan2026
Crop	*Location*	*Soil Type*	*Date*

Summary

Selected BeCrop index to be improved

Here you will find the highest impact improvement opportunities.

Soil
Biosustainability
44
MEDIUM

NUTRITION LOW

Global nitrogen



HEALTH & BIOCONTROL LOW

Biocontrol



Microbiome Analysis Report

All the information shown in this microbial report is based on the detection presence of *1110* different species

1e+9 units/gr
Total Bacteria

1e+6 units/gr
Total Fungi



Only Ectomycorrhiza
Arbuscular-Ectomycorrhiza Ratio



1:1531
Fungi-Bacterial Ratio

Health

HEALTH
MEDIUM

5
Disease Risks found

Crop health according to the pathogens detected

Slight Risk Detected



BLACK POINT
LOW Risk level



FUSARIUM ROOT AND CROWN ROT
LOW Risk level



PYTHIUM ROOT ROT
VERY LOW Risk level

ALTERNARIA BLIGHT • PYTHIUM SEED AND SEEDLING ROT

Not Detected

ANTHRACNOSE • ASCOCHYTA BLIGHT • BACTERIAL BLIGHT • CEPHALOSPORIUM STRIPE • CERCOSPORA LEAF SPOT • CURVULARIA LEAF BLIGHT • DWARF BUNT • ERGOT • EYESPOT • FALSE LOOSE SMUT • FUSARIUM HEAD BLIGHT • GRAY MOLD • LEAF RUST • MILDEW • NORTHERN ANTHRACNOSE • PHOMOPSIS STEM ROT • PHYTOPHTHORA ROOT ROT • PINK SNOW MOLD • PLEIOCHAETA ROOT ROT OF LUPINS • POWDERY MILDEW • RHIZOCTONIA ROOT ROT • RHIZOCTONIA SEED AND SEEDLING ROT • RUST • SCLEROTINIA WHITE MOLD • SEPTORIA LEAF SPOT • TAKE ALL • TAN SPOT (YELLOW LEAF SPOT) • WIRREGA BLOTCH

Biocontrol

FUNGICIDE AGENTS — MEDIUM

BACTERICIDE AGENTS — NOT DETECTED

INSECTICIDE AGENTS — VERY LOW

NEMATICIDE AGENTS — HIGH

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HORMONE PRODUCTION
MEDIUM

3 Detected

Microbial phytohormone potential based on Microbial species detected

AUXIN PRODUCTION
CELL DIVISION | STEM ELONGATION

HIGH

CYTOKININ PRODUCTION
CELL PROLIFERATION | CELL DIFFERENTIATION

HIGH

GIBBERELLIN PRODUCTION
STEM ELONGATION | GERMINATION | FLOWERING

MEDIUM

STRESS ADAPTATION
HIGH

7 Detected

Microbial species grouped according to their relationship with the metabolisms linked to the capability to withstand stress conditions

EXOPOLYSACCHARIDE PRODUCTION
NUTRIENT TRAP | SALINITY PROTECT. | DROUGHT PROTECT.

HIGH

ACC DEAMINASE
PATHOGEN PROTECT. | SALINITY PROTECT. | DROUGHT PROTECT.

HIGH

HEAVY METAL RESISTANCE
BIOREMEDIATION | DETOXIFICATION | ALLEVIATE HEAVY METAL STRESS

MEDIUM

SALICYLIC ACID
DROUGHT PROTECT. | SALINITY PROTECT. | ALLEVIATE HEAVY METAL STRESS

MEDIUM

SALT TOLERANCE
SALINITY PROTECT. | ROOT GROWTH PROMOTION

HIGH

ABSCISIC ACID
GROWTH REGULATION | PLANT RESISTANCE | INCREASE YIELDS

VERY LOW

SIDEROPHORE PRODUCTION
IRON AVAILABILITY | BIOFERTILIZER

HIGH

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Nutrition

Nutritional status based on the microbial mobilization of certain compounds

Major Compounds

C Carbon — HIGH

PATHWAYS

GAIN		LOSS	
CARBON FIXATION	MEDIUM	AEROBIC RESPIRATION	MEDIUM
ORGANIC COMPOUNDS DEGRADATION	HIGH	FERMENTATION	HIGH
		METHANOGENESIS	HIGH

N Nitrogen — LOW

PATHWAYS

GAIN		LOSS	
GAIN OF NITROGEN FROM GAS	HIGH	LOSS OF NITROGEN TO GAS	LOW
GAIN OF NITROGEN TO AMMONIA	LOW	LOSS OF UREA BY VOLATILIZATION	MEDIUM
GAIN OF NITROGEN TO NITRATE	MEDIUM	LOSS OF NITROGEN TO BIOMASS	HIGH

P Phosphorus — MEDIUM

PATHWAYS

NUTRIENT SUPPLY		NUTRIENT COMPETITION	
INORGANIC P SOLUBILIZATION	MEDIUM	INORGANIC P CONSUMPTION	MEDIUM

K Potassium — MEDIUM

PATHWAYS

NUTRIENT SUPPLY		NUTRIENT COMPETITION	
POTASSIUM EXPORT	MEDIUM	POTASSIUM CONSUMPTION	MEDIUM

Minor Compounds

Fe Iron — HIGH
Iron assimilation

Zn Zinc — MEDIUM
Zinc transport equilibrium

Mn Manganese — VERY LOW
Manganese transport equilibrium

S Sulfur — HIGH
Sulfur cycle equilibrium

Ca Calcium — LOW
Calcium transport

Cu Copper — LOW
Copper export

Mg Magnesium — LOW
Magnesium transport

Cl Chlorine — MEDIUM
Chlorine transport

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Chemical fertility ratings WATERS AGRICULTURAL LABORATORIES, INC. SOIL ANALYSIS

General Insights

1.44% Organic Matter

5.70 pH

Buffer pH **6.80**

Estimated Nitrogen Release **29.00 lb/ac**

TEXTURE

Not Available

Texture analysis not applied

Extractable Elements

MACRONUTRIENTS

Nitrate-Nitrogen
NO3 4.27 PPM
NO3-N

Phosphorus lb/ac 40.00
P MEDIUM
P (M3)

Potassium lb/ac 279.00
K MEDIUM
K (M3)

Ammonium-Nit...
NH4 3.04 PPM
NH4-N (KCl)

MICRONUTRIENTS

Sulfur
S 52.00 LB/AC
S (M3)

Calcium lb/ac 2115.00
Ca VERY HIGH
Ca (M3)

Magnesi... lb/ac 244.00
Mg MEDIUM
Mg (M3)

Iron lb/ac 492.00
Fe VERY HIGH
Fe (M3)

Zinc lb/ac 6.80
Zn MEDIUM
Zn (M3)

Mangane... lb/ac 329.00
Mn HIGH
Mn (M3)

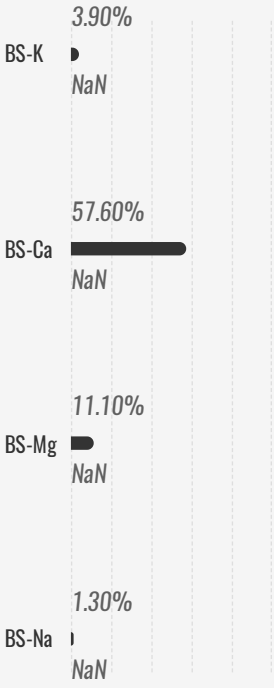
Copper lb/ac 2.40
Cu MEDIUM
Cu (M3)

Boron lb/ac 0.70
B LOW
B (M3)

CATION EXCHANGE CAPACITY

9.2 meq/100g

BASE SATURATION RATINGS



Detrimental Elements

Sodium
Na 57.00 LB/AC
Na (M3)

ELECTRICAL CONDUCTIVITY

-



mmhos/cm
0.105

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Physico-Chemical results

Waters Agricultural Laboratories, Inc. Soil Analysis

General Insights (4)

Buffer pH *B-pH (SMP)*	6.8	Estimated Nitrogen Release *ENR*	29lb/ac
Organic Matter *OM (LOI)*	1.44%	pH *pH (1:1)*	5.7

Metrics (21)

Ammonium-Nitrogen *NH4-N (KCl)*	3.04ppm	Base Saturation - Ca *BS-Ca*	57.6%
Base Saturation - H *BS-H*	26.1%	Base Saturation - K *BS-K*	3.9%
Base Saturation - Mg *BS-Mg*	11.1%	Base Saturation - Na *BS-Na*	1.3%
Boron *B (M3)*	0.7lb/ac	Calcium *Ca (M3)*	2115lb/ac
Cation Exchange Capacity *CEC (Calc)*	9.2meq/100g	CO2eq *CO2eq*	21.40344t/ha
Copper *Cu (M3)*	2.4lb/ac	Electrical Conductivity *ECe (1:1)*	0.105mmhos/cm
Iron *Fe (M3)*	492lb/ac	Magnesium *Mg (M3)*	244lb/ac
Manganese *Mn (M3)*	329lb/ac	Nitrate-Nitrogen *NO3-N*	4.27ppm
Phosphorus *P (M3)*	40lb/ac	Potassium *K (M3)*	279lb/ac
Sodium *Na (M3)*	57lb/ac	Sulfur *S (M3)*	52lb/ac
Zinc *Zn (M3)*	6.8lb/ac		

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