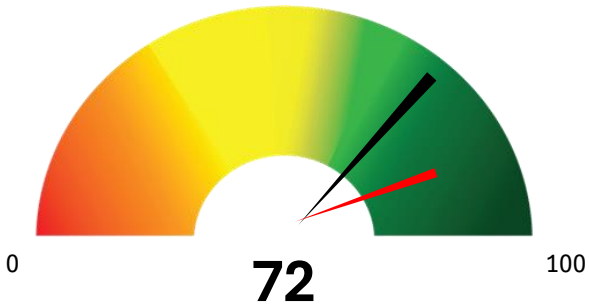


Arthurs Point Farm
Arthur's Point Farm
118 Eagle Rock Rd
Ghent, NY 12075
United States

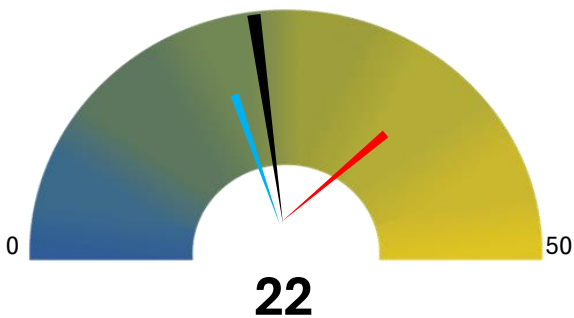
Account / Sample ID: 3433 / 12514.0
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree2 T1 R7 Z1
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 88.8 | Optimal |
| Solvita Response | (0 - 5) | 4.15 | Medium |
| Soil Amino-N | ppm | 55 | Medium |
| Crumb Aggregates | Vol % | 24 | Low |
| Scoop Bulk Density | g/cc | 0.87 | Optimal |
| Total Carbon | % | 0.627 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 107 | 108 | 543 | 10,868 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 16.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



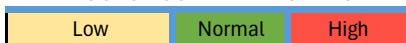
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1.8 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 102 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 107 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 27 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.6 |
| Potassium - Extractable K | mg kg | 261 |
| Calcium - Extractable Ca | mg kg | 1290 |
| Magnesium - Extractable Mg | mg kg | 198 |
| Sodium - Extractable Na | mg kg | 70 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.3% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 5.988 |
| Optional test (buffer pH) | Unit | 6.281 |
| Water Soluble Carbon | mg kg | 365 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 132 |
| Aluminum, Extractable | mg kg | 280 |
| Iron, Extractable (Optional) | mg kg | 90 |

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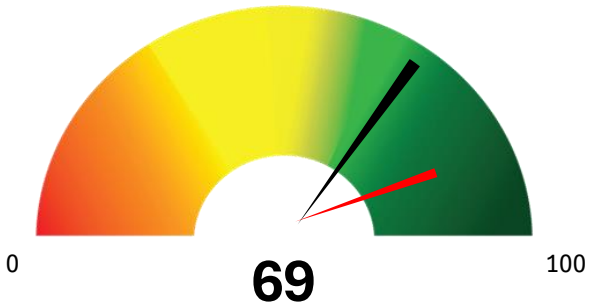
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United States

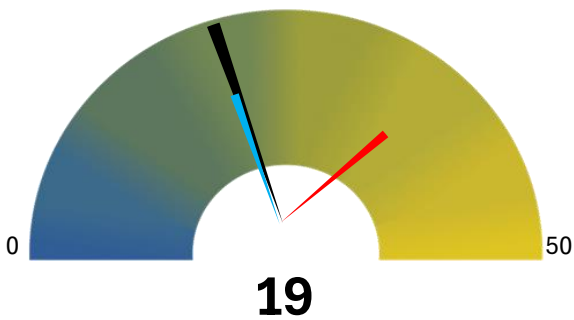
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree6 T2 R8 Z2
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 61.0 | Optimal |
| Solvita Response | (0 - 5) | 3.75 | Medium |
| Soil Amino-N | ppm | 36 | Low |
| Crumb Aggregates | Vol % | 25 | Medium |
| Scoop Bulk Density | g/cc | 0.89 | Optimal |
| Total Carbon | % | 0.330 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 74 | 114 | 529 | 5,896 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 1 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 13.0 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



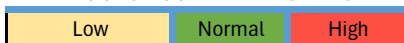
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 1.3 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 70 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 74 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 28 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.8 |
| Potassium - Extractable K | mg kg | 247 |
| Calcium - Extractable Ca | mg kg | 1122 |
| Magnesium - Extractable Mg | mg kg | 137 |
| Sodium - Extractable Na | mg kg | 39 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 9.4% |
| Other Factors | | |
| pH in water 1:1 | Unit | 5.962 |
| Optional test (buffer pH) | Unit | 6.453 |
| Water Soluble Carbon | mg kg | 336 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 150 |
| Aluminum, Extractable | mg kg | 305 |
| Iron, Extractable (Optional) | mg kg | 72 |

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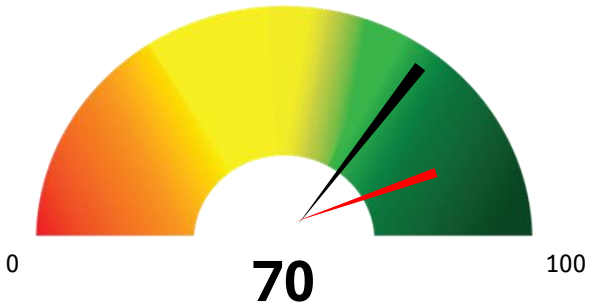
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118 Eagle Rock Rd
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United States

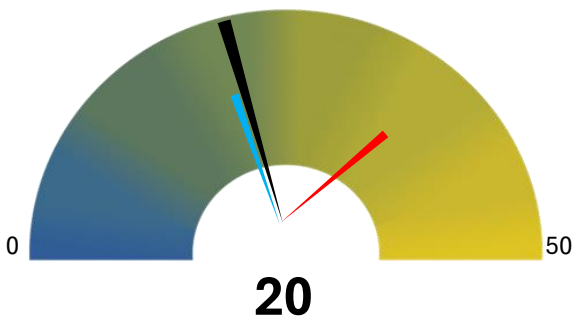
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree10 T2 R7 Z2
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 64.1 | Optimal |
| Solvita Response | (0 - 5) | 3.83 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 23 | Low |
| Scoop Bulk Density | g/cc | 0.91 | Optimal |
| Total Carbon | % | 0.561 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 80 | 100 | 509 | 10,173 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



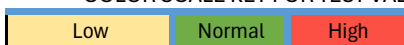
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 0 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 74 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 80 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 24 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.6 |
| Potassium - Extractable K | mg kg | 234 |
| Calcium - Extractable Ca | mg kg | 1129 |
| Magnesium - Extractable Mg | mg kg | 172 |
| Sodium - Extractable Na | mg kg | 50 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.5% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.445 |
| Optional test (buffer pH) | Unit | 6.630 |
| Water Soluble Carbon | mg kg | 386 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 117 |
| Aluminum, Extractable | mg kg | 229 |
| Iron, Extractable (Optional) | mg kg | 71 |

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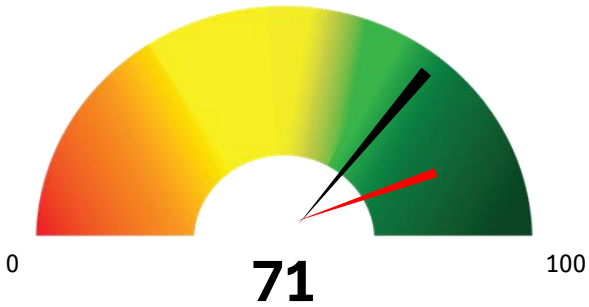
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United States

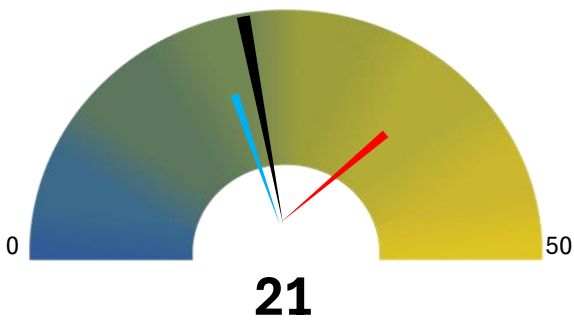
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree14 T3 R9 Z3
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 59.1 | Med-Low |
| Solvita Response | (0 - 5) | 3.83 | Medium |
| Soil Amino-N | ppm | 61 | Medium |
| Crumb Aggregates | Vol % | 22 | Low |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 1.130 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 74 | 180 | 959 | 22,223 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 1 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



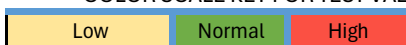
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 0 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 68 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 74 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 40 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.4 |
| Potassium - Extractable K | mg kg | 406 |
| Calcium - Extractable Ca | mg kg | 1283 |
| Magnesium - Extractable Mg | mg kg | 138 |
| Sodium - Extractable Na | mg kg | 30 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 99% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 13.8% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.416 |
| Optional test (buffer pH) | Unit | 6.639 |
| Water Soluble Carbon | mg kg | 345 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 109 |
| Aluminum, Extractable | mg kg | 327 |
| Iron, Extractable (Optional) | mg kg | 62 |

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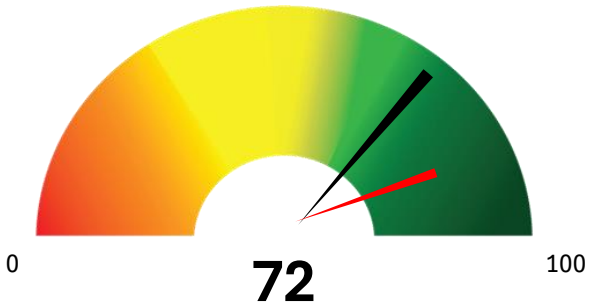
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United States

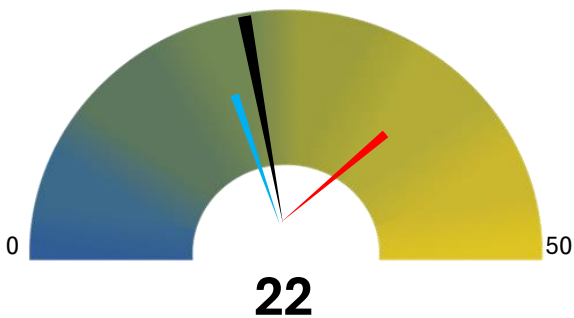
Account / Sample ID: 3433 / 12514.4
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree18 T3 R8 Z3
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 79.3 | Optimal |
| Solvita Response | (0 - 5) | 4.07 | Medium |
| Soil Amino-N | ppm | 14 | Low |
| Crumb Aggregates | Vol % | 25 | Medium |
| Scoop Bulk Density | g/cc | 0.91 | Optimal |
| Total Carbon | % | 0.522 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 97 | 141 | 701 | 9,500 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



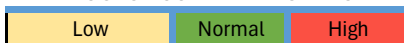
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 91 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 97 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 34 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.4 |
| Potassium - Extractable K | mg kg | 321 |
| Calcium - Extractable Ca | mg kg | 1557 |
| Magnesium - Extractable Mg | mg kg | 210 |
| Sodium - Extractable Na | mg kg | 72 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.6% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.683 |
| Optional test (buffer pH) | Unit | 6.793 |
| Water Soluble Carbon | mg kg | 411 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 125 |
| Aluminum, Extractable | mg kg | 331 |
| Iron, Extractable (Optional) | mg kg | 81 |

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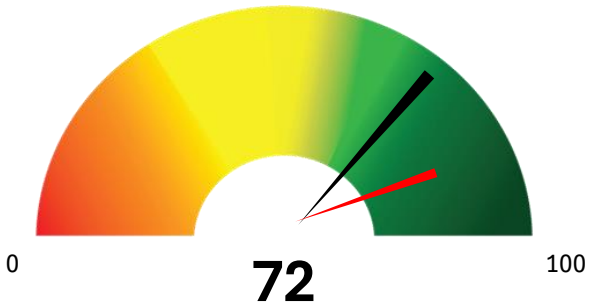
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United States

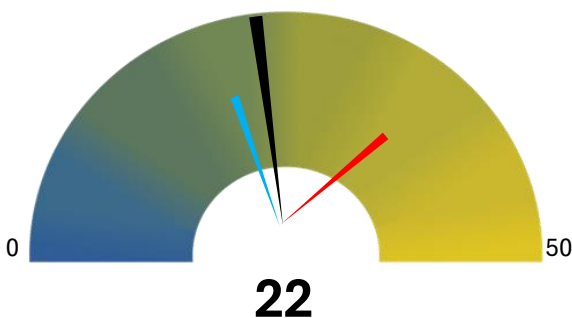
Account / Sample ID: 3433 / 12514.5
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree22 T3 R7 Z3
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 59.3 | Med-Low |
| Solvita Response | (0 - 5) | 3.83 | Medium |
| Soil Amino-N | ppm | 26 | Low |
| Crumb Aggregates | Vol % | 26 | Medium |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 1.180 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 72 | 126 | 648 | 23,128 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 3 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 16.8 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

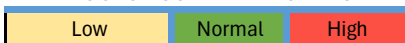
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 2.2 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 68 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 72 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 28 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.3 |
| Potassium - Extractable K | mg kg | 275 |
| Calcium - Extractable Ca | mg kg | 1122 |
| Magnesium - Extractable Mg | mg kg | 163 |
| Sodium - Extractable Na | mg kg | 74 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 99% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 10.1% |
| Other Factors | | |
| pH in water 1:1 | Unit | 5.761 |
| Optional test (buffer pH) | Unit | 6.122 |
| Water Soluble Carbon | mg kg | 401 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 179 |
| Aluminum, Extractable | mg kg | 292 |
| Iron, Extractable (Optional) | mg kg | 86 |

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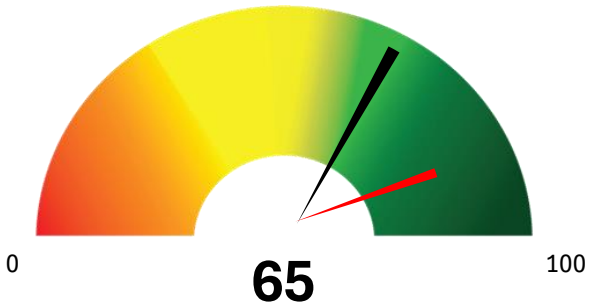
Generated by user ID: nh

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United States

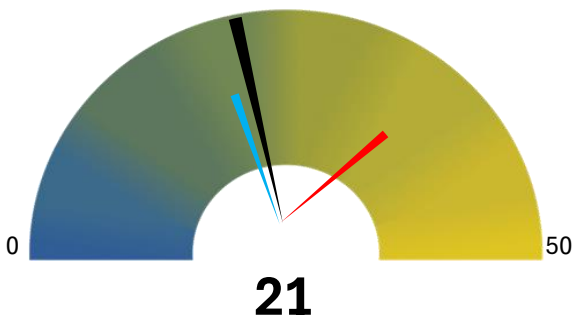
Account / Sample ID: 3433 / 12514.6
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree26 T4 R9 Z4
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 39.6 | Med-Low |
| Solvita Response | (0 - 5) | 3.32 | Medium |
| Soil Amino-N | ppm | 61 | Medium |
| Crumb Aggregates | Vol % | 29 | Medium |
| Scoop Bulk Density | g/cc | 0.94 | Optimal |
| Total Carbon | % | 0.771 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 49 | 85 | 451 | 14,546 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 26 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



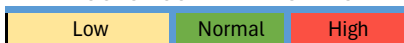
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 46 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 49 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 20 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.2 |
| Potassium - Extractable K | mg kg | 199 |
| Calcium - Extractable Ca | mg kg | 1084 |
| Magnesium - Extractable Mg | mg kg | 145 |
| Sodium - Extractable Na | mg kg | 67 |

Rating Factors

| | | |
|--|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 89% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.7% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.090 |
| Optional test (buffer pH) | Unit | 6.572 |
| Water Soluble Carbon | mg kg | 391 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 184 |
| Aluminum, Extractable | mg kg | 277 |
| Iron, Extractable (Optional) | mg kg | 72 |

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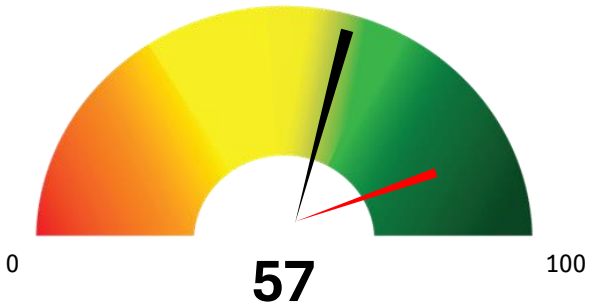
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United States

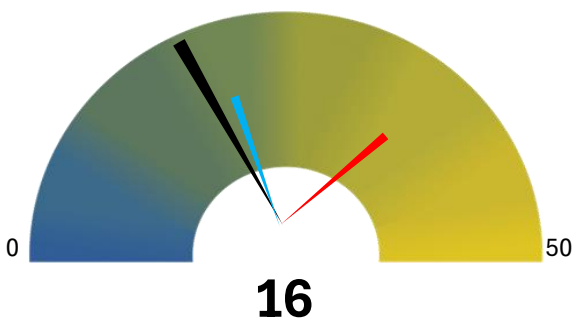
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree30 T4 R8 Z4
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 28.0 | V Low |
| Solvita Response | (0 - 5) | 2.97 | Low |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 21 | Low |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 0.331 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 35 | 76 | 365 | 6,510 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 40 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Normal | 10.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

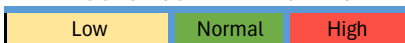
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

40% Legume 60% Grass/Non-Legume

Lime Suggestion 0 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 32 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 35 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 17 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.1 |
| Potassium - Extractable K | mg kg | 154 |
| Calcium - Extractable Ca | mg kg | 1082 |
| Magnesium - Extractable Mg | mg kg | 144 |
| Sodium - Extractable Na | mg kg | 47 |

Rating Factors

| | | |
|---|---------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 82% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Optimal | 6.0% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.408 |
| Optional test (buffer pH) | Unit | 6.655 |
| Water Soluble Carbon | mg kg | 367 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 226 |
| Aluminum, Extractable | mg kg | 254 |
| Iron, Extractable (Optional) | mg kg | 68 |

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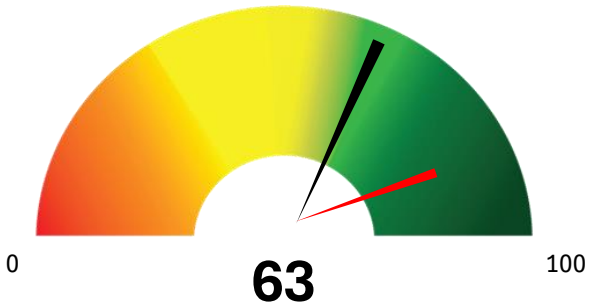
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United States

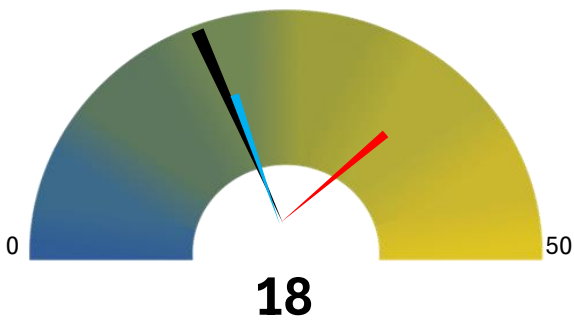
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree34 T4 R7 Z4
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 41.8 | Med-Low |
| Solvita Response | (0 - 5) | 3.52 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 16 | Low |
| Scoop Bulk Density | g/cc | 1.06 | Optimal |
| Total Carbon | % | 0.834 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 51 | 109 | 571 | 17,625 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 24 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.2 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



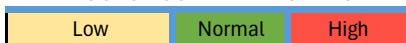
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 1.1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 48 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 51 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 23 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.5 |
| Potassium - Extractable K | mg kg | 225 |
| Calcium - Extractable Ca | mg kg | 1134 |
| Magnesium - Extractable Mg | mg kg | 143 |
| Sodium - Extractable Na | mg kg | 48 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 89% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.4% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.289 |
| Optional test (buffer pH) | Unit | 6.542 |
| Water Soluble Carbon | mg kg | 346 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 192 |
| Aluminum, Extractable | mg kg | 308 |
| Iron, Extractable (Optional) | mg kg | 89 |

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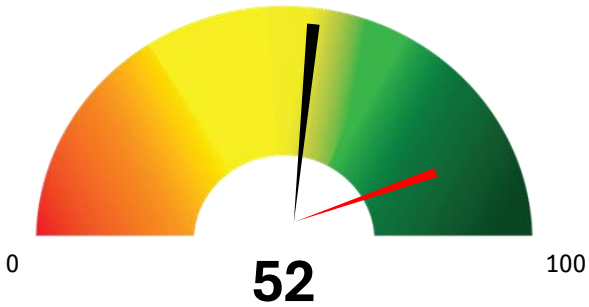
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United States

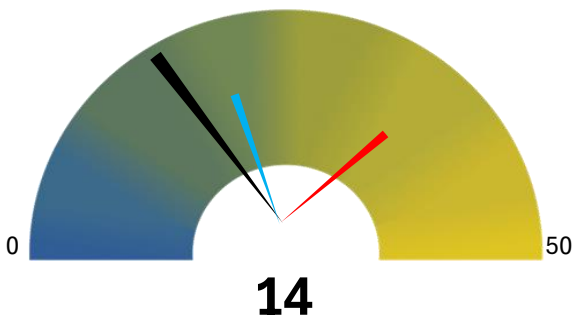
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Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree38 T5 R9 Z5
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 14.1 | V Low |
| Solvita Response | (0 - 5) | 2.38 | Low |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 12 | Low |
| Scoop Bulk Density | g/cc | 1.17 | Optimal |
| Total Carbon | % | 1.260 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 21 | 104 | 561 | 29,400 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 54 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 10.5 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

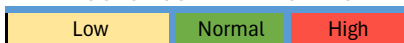
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

50% Legume 50% Grass/Non-Legume

Lime Suggestion 0.9 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 16 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 21 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 19 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.6 |
| Potassium - Extractable K | mg kg | 200 |
| Calcium - Extractable Ca | mg kg | 923 |
| Magnesium - Extractable Mg | mg kg | 141 |
| Sodium - Extractable Na | mg kg | 36 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 76% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.9% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.165 |
| Optional test (buffer pH) | Unit | 6.591 |
| Water Soluble Carbon | mg kg | 271 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 102 |
| Aluminum, Extractable | mg kg | 235 |
| Iron, Extractable (Optional) | mg kg | 80 |

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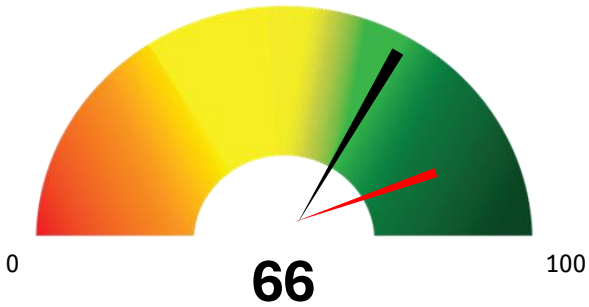
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United States

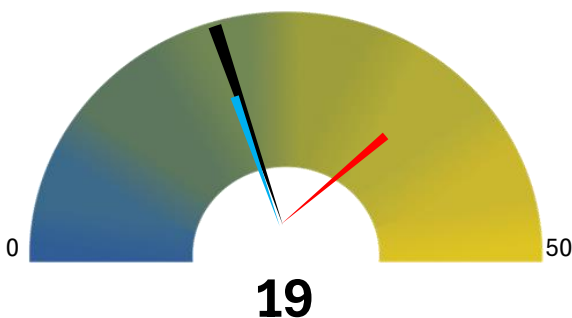
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree42 T5 R8 Z5
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 47.2 | Med-Low |
| Solvita Response | (0 - 5) | 3.64 | Medium |
| Soil Amino-N | ppm | 62 | Medium |
| Crumb Aggregates | Vol % | 19 | Low |
| Scoop Bulk Density | g/cc | 1.05 | Optimal |
| Total Carbon | % | 0.545 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 60 | 83 | 422 | 11,445 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 15 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



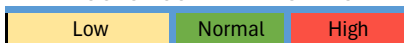
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|---------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 54 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 60 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 17 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.1 |
| Potassium - Extractable K | mg kg | 167 |
| Calcium - Extractable Ca | mg kg | 1185 |
| Magnesium - Extractable Mg | mg kg | 175 |
| Sodium - Extractable Na | mg kg | 20 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 93% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Optimal | 5.8% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.557 |
| Optional test (buffer pH) | Unit | 6.559 |
| Water Soluble Carbon | mg kg | 352 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 119 |
| Aluminum, Extractable | mg kg | 262 |
| Iron, Extractable (Optional) | mg kg | 77 |

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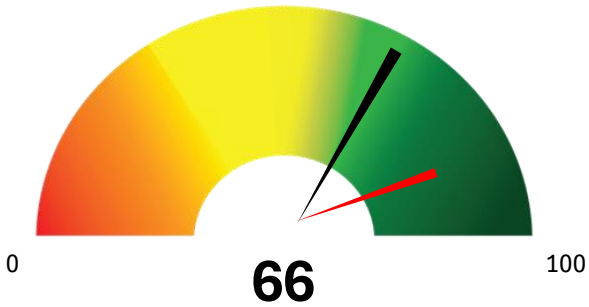
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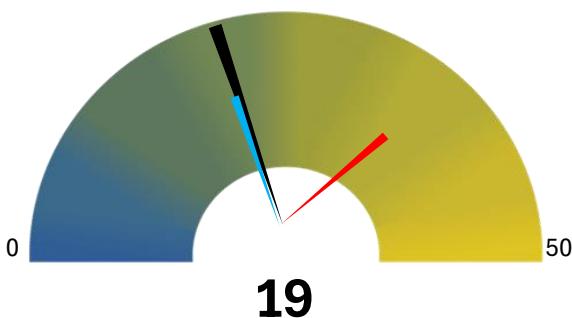
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree46 T5 R7 Z5
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 45.1 | Med-Low |
| Solvita Response | (0 - 5) | 3.48 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 21 | Low |
| Scoop Bulk Density | g/cc | 0.95 | Optimal |
| Total Carbon | % | 0.769 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 58 | 95 | 506 | 14,611 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 17 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.2 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



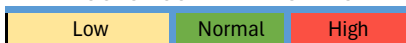
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 4 |
| Est. Seasonal Biological N-Release | lb/a | 52 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 58 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 22 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.2 |
| Potassium - Extractable K | mg kg | 222 |
| Calcium - Extractable Ca | mg kg | 1156 |
| Magnesium - Extractable Mg | mg kg | 219 |
| Sodium - Extractable Na | mg kg | 46 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 93% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.5% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.799 |
| Optional test (buffer pH) | Unit | 6.716 |
| Water Soluble Carbon | mg kg | 395 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 110 |
| Aluminum, Extractable | mg kg | 255 |
| Iron, Extractable (Optional) | mg kg | 65 |

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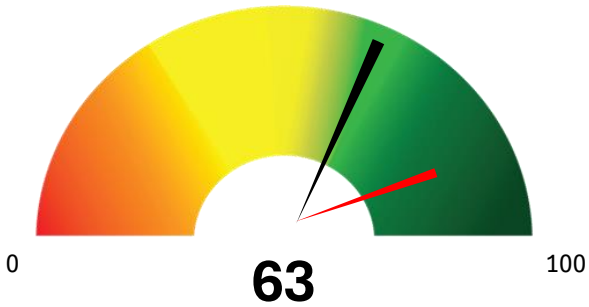
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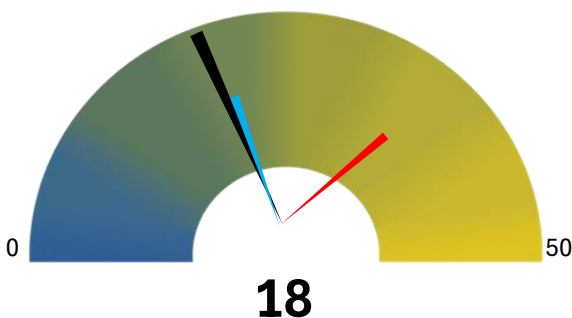
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree50 T1 R9 Z6
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 41.3 | Med-Low |
| Solvita Response | (0 - 5) | 3.40 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 21 | Low |
| Scoop Bulk Density | g/cc | 0.97 | Optimal |
| Total Carbon | % | 0.712 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 51 | 96 | 489 | 13,813 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 24 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.9 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



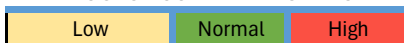
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 48 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 51 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 22 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.7 |
| Potassium - Extractable K | mg kg | 210 |
| Calcium - Extractable Ca | mg kg | 1064 |
| Magnesium - Extractable Mg | mg kg | 146 |
| Sodium - Extractable Na | mg kg | 74 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 90% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.2% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.115 |
| Optional test (buffer pH) | Unit | 6.553 |
| Water Soluble Carbon | mg kg | 340 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 157 |
| Aluminum, Extractable | mg kg | 270 |
| Iron, Extractable (Optional) | mg kg | 94 |

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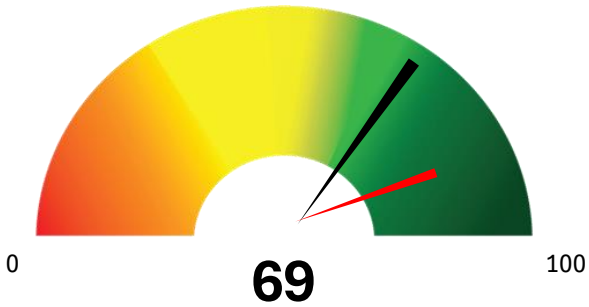
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United States

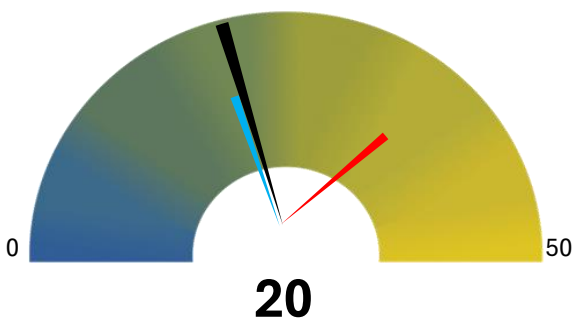
Account / Sample ID: 3433 / 12515.3
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree54 T1 R8 Z6
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 56.9 | Med-Low |
| Solvita Response | (0 - 5) | 3.79 | Medium |
| Soil Amino-N | ppm | 35 | Low |
| Crumb Aggregates | Vol % | 19 | Low |
| Scoop Bulk Density | g/cc | 0.99 | Optimal |
| Total Carbon | % | 0.596 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 70 | 103 | 522 | 11,801 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 5 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.4 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



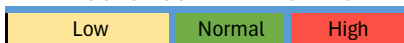
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 65 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 70 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 23 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.9 |
| Potassium - Extractable K | mg kg | 220 |
| Calcium - Extractable Ca | mg kg | 1236 |
| Magnesium - Extractable Mg | mg kg | 164 |
| Sodium - Extractable Na | mg kg | 90 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 98% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.5% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.560 |
| Optional test (buffer pH) | Unit | 6.714 |
| Water Soluble Carbon | mg kg | 373 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 137 |
| Aluminum, Extractable | mg kg | 273 |
| Iron, Extractable (Optional) | mg kg | 67 |

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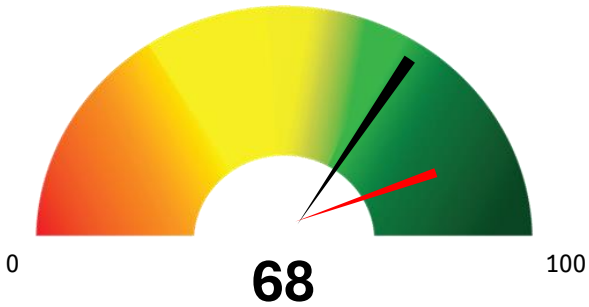
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United States

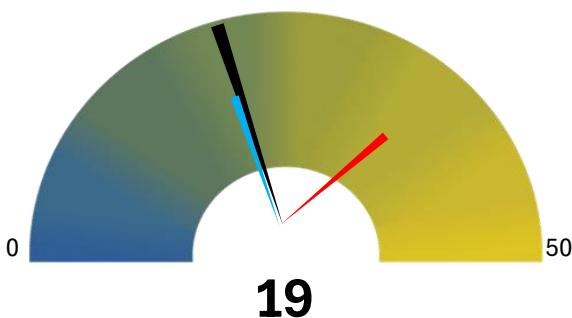
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree58 T1 R7 Z6
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 54.5 | Med-Low |
| Solvita Response | (0 - 5) | 3.71 | Medium |
| Soil Amino-N | ppm | 47 | Low |
| Crumb Aggregates | Vol % | 24 | Low |
| Scoop Bulk Density | g/cc | 0.97 | Optimal |
| Total Carbon | % | 0.311 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 68 | 100 | 540 | 6,013 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 7 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



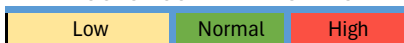
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 63 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 68 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 22 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.3 |
| Potassium - Extractable K | mg kg | 233 |
| Calcium - Extractable Ca | mg kg | 1242 |
| Magnesium - Extractable Mg | mg kg | 199 |
| Sodium - Extractable Na | mg kg | 72 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 97% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.6% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.762 |
| Optional test (buffer pH) | Unit | 6.745 |
| Water Soluble Carbon | mg kg | 362 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 113 |
| Aluminum, Extractable | mg kg | 259 |
| Iron, Extractable (Optional) | mg kg | 65 |

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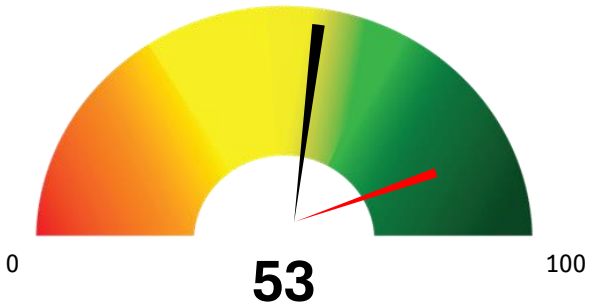
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United States

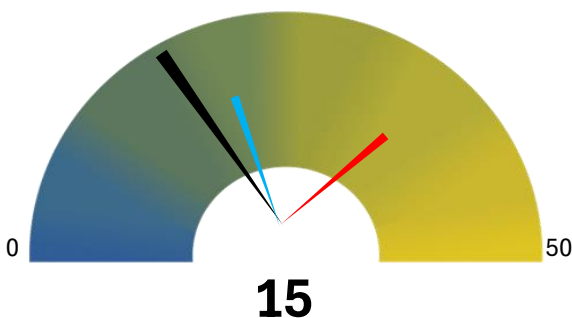
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree62 T2 R9 Z7
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 17.2 | V Low |
| Solvita Response | (0 - 5) | 2.50 | Low |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 20 | Low |
| Scoop Bulk Density | g/cc | 1.05 | Optimal |
| Total Carbon | % | 0.830 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 22 | 105 | 536 | 17,430 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 53 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 16.4 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

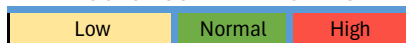
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

50% Legume 50% Grass/Non-Legume

Lime Suggestion 2.4 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 1 |
| Est. Seasonal Biological N-Release | lb/a | 20 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 22 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 22 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.9 |
| Potassium - Extractable K | mg kg | 213 |
| Calcium - Extractable Ca | mg kg | 999 |
| Magnesium - Extractable Mg | mg kg | 144 |
| Sodium - Extractable Na | mg kg | 79 |

Rating Factors

| | | |
|--|----------|-------------|
| Nutrient Index, Scale 0 - 100 | Rating | 76% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.8% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.152 |
| Optional test (buffer pH) | Unit | 6.072 |
| Water Soluble Carbon | mg kg | 292 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 236 |
| Aluminum, Extractable | mg kg | 248 |
| Iron, Extractable (Optional) | mg kg | 79 |

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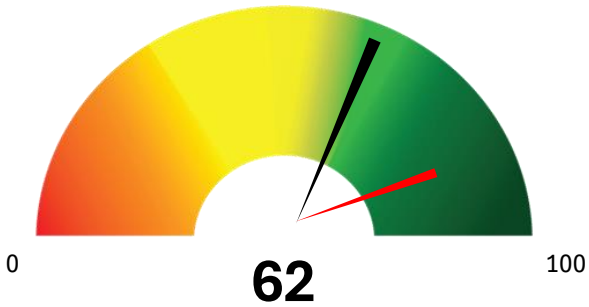
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United States

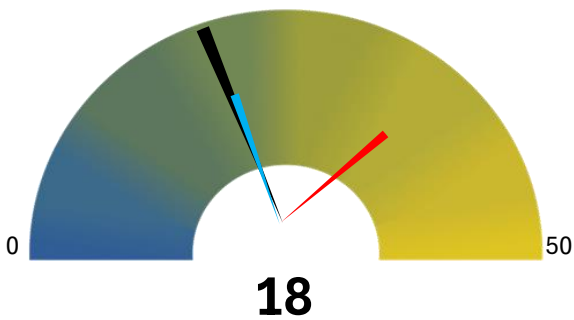
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree66 T2 R8 Z7
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 38.0 | Med-Low |
| Solvita Response | (0 - 5) | 3.32 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 20 | Low |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 0.556 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 46 | 104 | 548 | 10,935 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 29 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.5 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



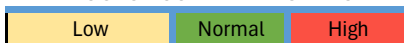
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 1 |
| Est. Seasonal Biological N-Release | lb/a | 44 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 46 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 23 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.8 |
| Potassium - Extractable K | mg kg | 232 |
| Calcium - Extractable Ca | mg kg | 1212 |
| Magnesium - Extractable Mg | mg kg | 205 |
| Sodium - Extractable Na | mg kg | 51 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 87% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.7% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.553 |
| Optional test (buffer pH) | Unit | 6.610 |
| Water Soluble Carbon | mg kg | 430 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 302 |
| Aluminum, Extractable | mg kg | 281 |
| Iron, Extractable (Optional) | mg kg | 91 |

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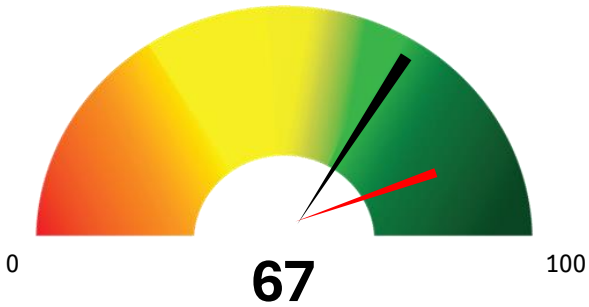
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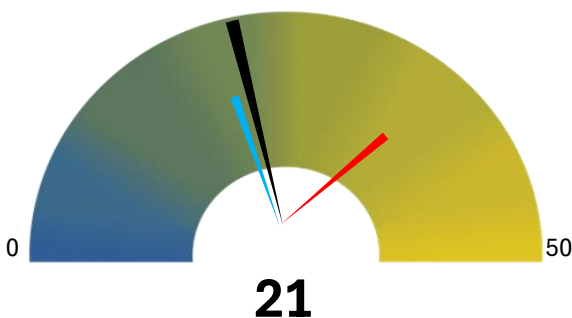
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree70 T2 R7 Z7
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 49.8 | Med-Low |
| Solvita Response | (0 - 5) | 3.56 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 28 | Medium |
| Scoop Bulk Density | g/cc | 0.92 | Optimal |
| Total Carbon | % | 0.866 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 60 | 108 | 580 | 15,992 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 15 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 13.1 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



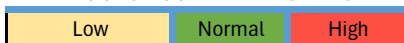
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 57 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 60 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 25 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.4 |
| Potassium - Extractable K | mg kg | 262 |
| Calcium - Extractable Ca | mg kg | 1168 |
| Magnesium - Extractable Mg | mg kg | 252 |
| Sodium - Extractable Na | mg kg | 36 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 93% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.5% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.842 |
| Optional test (buffer pH) | Unit | 6.571 |
| Water Soluble Carbon | mg kg | 434 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 267 |
| Aluminum, Extractable | mg kg | 277 |
| Iron, Extractable (Optional) | mg kg | 83 |

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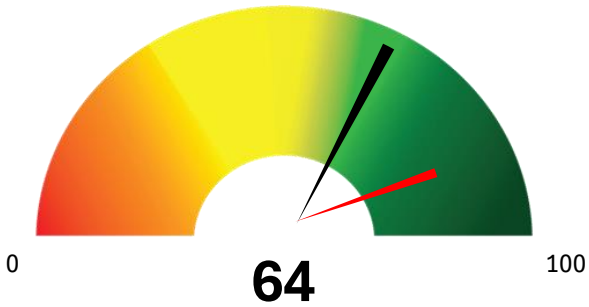
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United States

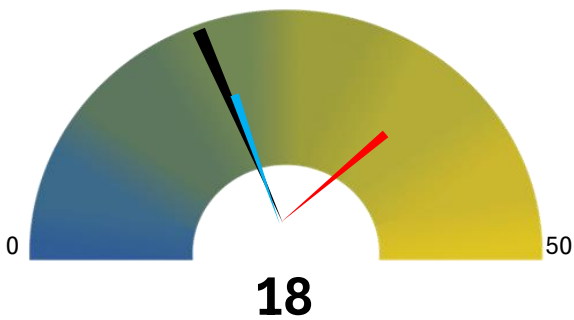
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree74 T3 R9 Z8
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 48.9 | Med-Low |
| Solvita Response | (0 - 5) | 3.64 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 10 | Low |
| Scoop Bulk Density | g/cc | 1.01 | Optimal |
| Total Carbon | % | 0.745 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 58 | 106 | 568 | 15,099 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 17 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 14.2 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



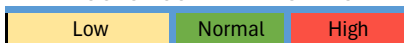
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 1.5 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 1 |
| Est. Seasonal Biological N-Release | lb/a | 56 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 58 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 23 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.1 |
| Potassium - Extractable K | mg kg | 233 |
| Calcium - Extractable Ca | mg kg | 1146 |
| Magnesium - Extractable Mg | mg kg | 157 |
| Sodium - Extractable Na | mg kg | 64 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 93% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.5% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.166 |
| Optional test (buffer pH) | Unit | 6.371 |
| Water Soluble Carbon | mg kg | 371 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 342 |
| Aluminum, Extractable | mg kg | 259 |
| Iron, Extractable (Optional) | mg kg | 74 |

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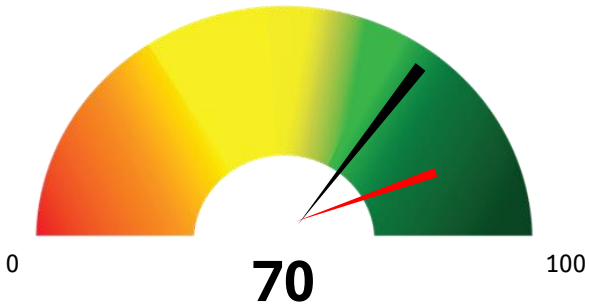
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United States

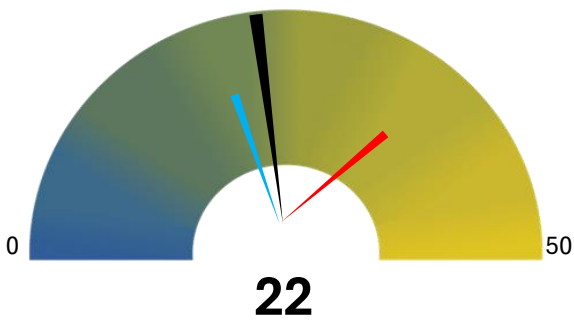
Account / Sample ID: 3433 / 12515.9
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree78 T3 R8 Z8
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 53.0 | Med-Low |
| Solvita Response | (0 - 5) | 3.64 | Medium |
| Soil Amino-N | ppm | 80 | Medium |
| Crumb Aggregates | Vol % | 26 | Medium |
| Scoop Bulk Density | g/cc | 0.94 | Optimal |
| Total Carbon | % | 0.923 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 64 | 108 | 539 | 17,291 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 11 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



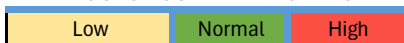
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 61 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 64 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 25 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.0 |
| Potassium - Extractable K | mg kg | 240 |
| Calcium - Extractable Ca | mg kg | 1391 |
| Magnesium - Extractable Mg | mg kg | 218 |
| Sodium - Extractable Na | mg kg | 88 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 95% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.0% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.693 |
| Optional test (buffer pH) | Unit | 6.720 |
| Water Soluble Carbon | mg kg | 418 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 230 |
| Aluminum, Extractable | mg kg | 304 |
| Iron, Extractable (Optional) | mg kg | 72 |

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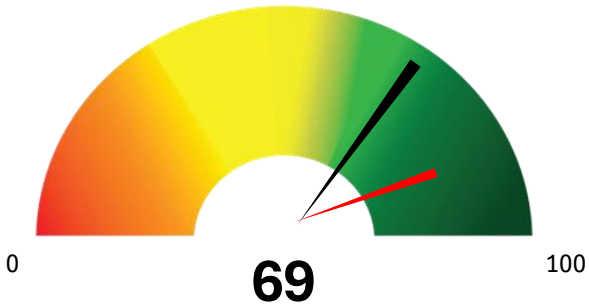
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Arthur's Point Farm
118 Eagle Rock Rd
Ghent, NY 12075
United States

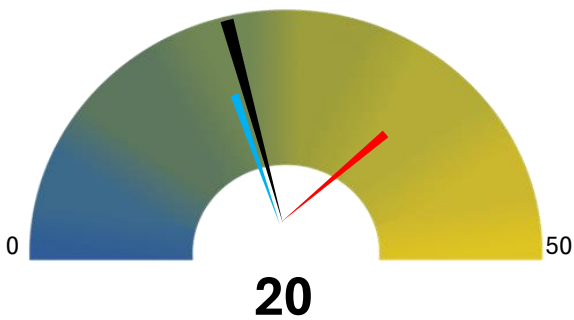
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: **Soil: Tree82 T3 R7 Z8**
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: *General Crops*

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 57.4 | Med-Low |
| Solvita Response | (0 - 5) | 3.79 | Medium |
| Soil Amino-N | ppm | 48 | Low |
| Crumb Aggregates | Vol % | 21 | Low |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 0.882 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 70 | 115 | 544 | 17,287 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 5 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



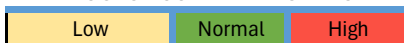
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 66 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 70 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 26 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.1 |
| Potassium - Extractable K | mg kg | 231 |
| Calcium - Extractable Ca | mg kg | 1304 |
| Magnesium - Extractable Mg | mg kg | 205 |
| Sodium - Extractable Na | mg kg | 54 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 98% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.2% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.583 |
| Optional test (buffer pH) | Unit | 6.679 |
| Water Soluble Carbon | mg kg | 335 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 157 |
| Aluminum, Extractable | mg kg | 277 |
| Iron, Extractable (Optional) | mg kg | 74 |

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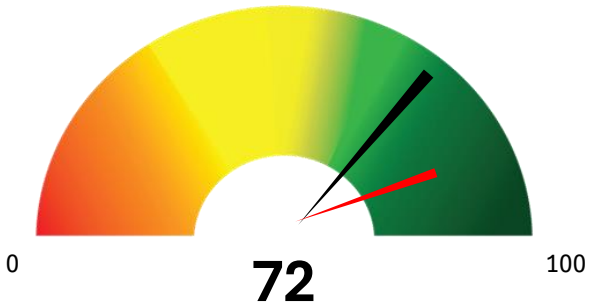
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United States

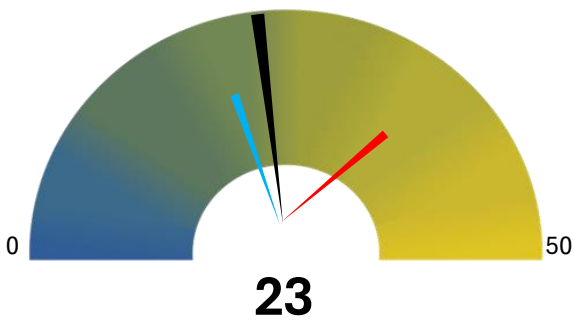
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree86 T4 R9 Z9
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 57.9 | Med-Low |
| Solvita Response | (0 - 5) | 3.64 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 34 | Medium |
| Scoop Bulk Density | g/cc | 0.86 | Optimal |
| Total Carbon | % | 1.260 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 71 | 177 | 923 | 21,588 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 4 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 14.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



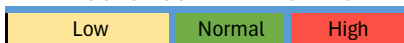
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 0.8 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 67 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 71 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 45 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.6 |
| Potassium - Extractable K | mg kg | 449 |
| Calcium - Extractable Ca | mg kg | 1546 |
| Magnesium - Extractable Mg | mg kg | 232 |
| Sodium - Extractable Na | mg kg | 37 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 98% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 11.9% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.384 |
| Optional test (buffer pH) | Unit | 6.637 |
| Water Soluble Carbon | mg kg | 409 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 175 |
| Aluminum, Extractable | mg kg | 303 |
| Iron, Extractable (Optional) | mg kg | 89 |

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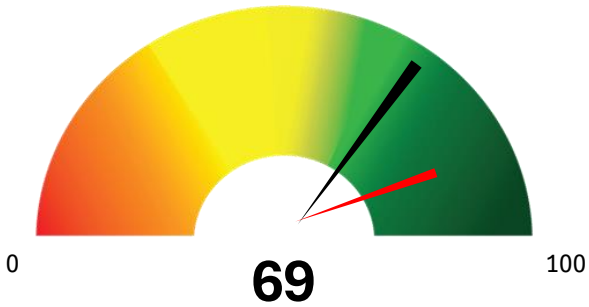
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United States

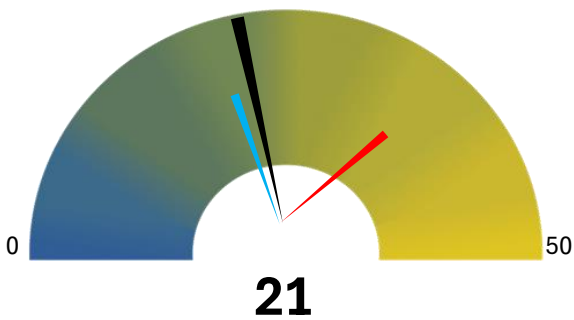
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree90 T4 R8 Z9
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 46.5 | Med-Low |
| Solvita Response | (0 - 5) | 3.48 | Medium |
| Soil Amino-N | ppm | 33 | Low |
| Crumb Aggregates | Vol % | 28 | Medium |
| Scoop Bulk Density | g/cc | 0.92 | Optimal |
| Total Carbon | % | 0.848 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 67 | 114 | 569 | 15,603 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 8 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



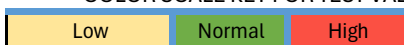
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 8 |
| Est. Seasonal Biological N-Release | lb/a | 54 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 67 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 27 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.2 |
| Potassium - Extractable K | mg kg | 258 |
| Calcium - Extractable Ca | mg kg | 1199 |
| Magnesium - Extractable Mg | mg kg | 168 |
| Sodium - Extractable Na | mg kg | 96 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 97% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.9% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.211 |
| Optional test (buffer pH) | Unit | 6.579 |
| Water Soluble Carbon | mg kg | 622 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 82 |
| Aluminum, Extractable | mg kg | 294 |
| Iron, Extractable (Optional) | mg kg | 82 |

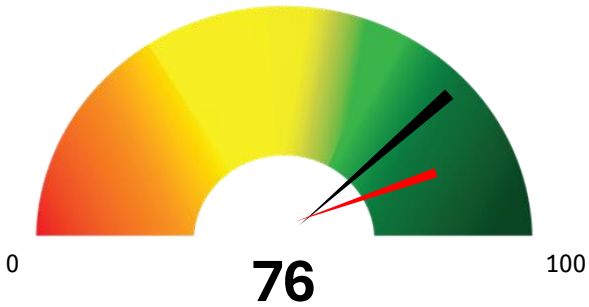
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United States

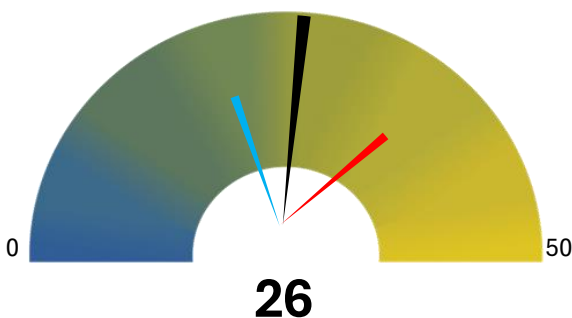
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree94 T4 R7 Z9
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 100.6 | High |
| Solvita Response | (0 - 5) | 4.38 | Medium |
| Soil Amino-N | ppm | 90 | Medium |
| Crumb Aggregates | Vol % | 24 | Low |
| Scoop Bulk Density | g/cc | 0.94 | Optimal |
| Total Carbon | % | 1.300 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 132 | 107 | 520 | 24,527 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 13.9 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

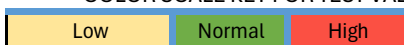
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

Lime Suggestion 0

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 9 |
| Est. Seasonal Biological N-Release | lb/a | 116 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 132 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 25 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.1 |
| Potassium - Extractable K | mg kg | 230 |
| Calcium - Extractable Ca | mg kg | 1261 |
| Magnesium - Extractable Mg | mg kg | 219 |
| Sodium - Extractable Na | mg kg | 60 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.2% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.515 |
| Optional test (buffer pH) | Unit | 6.508 |
| Water Soluble Carbon | mg kg | 649 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 70 |
| Aluminum, Extractable | mg kg | 303 |
| Iron, Extractable (Optional) | mg kg | 62 |

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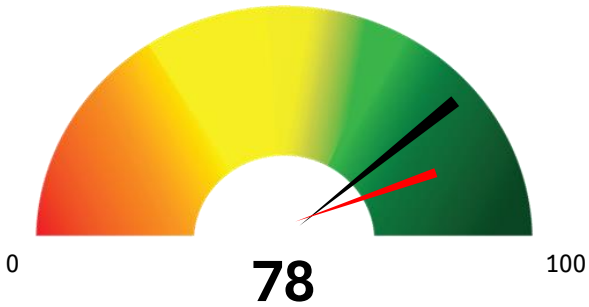
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United States

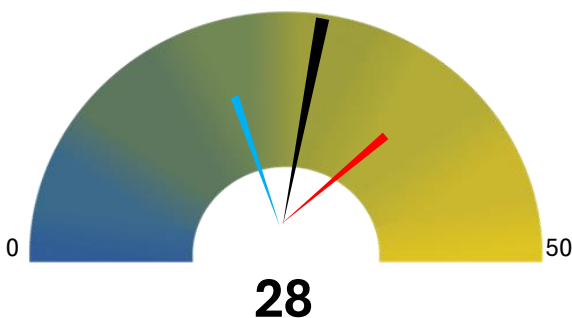
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree98 T5 R9 Z10
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 111.8 | High |
| Solvita Response | (0 - 5) | 4.50 | High |
| Soil Amino-N | ppm | 105 | Medium |
| Crumb Aggregates | Vol % | 29 | Medium |
| Scoop Bulk Density | g/cc | 0.93 | Optimal |
| Total Carbon | % | 1.310 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 151 | 161 | 832 | 24,366 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 25 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 14.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



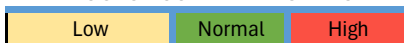
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

Lime Suggestion 1.1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 13 |
| Est. Seasonal Biological N-Release | lb/a | 129 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 151 |
| Likelihood of N-Response based on Org-N | Rating | Moderate |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 38 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.1 |
| Potassium - Extractable K | mg kg | 373 |
| Calcium - Extractable Ca | mg kg | 1363 |
| Magnesium - Extractable Mg | mg kg | 223 |
| Sodium - Extractable Na | mg kg | 25 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 11.0% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.321 |
| Optional test (buffer pH) | Unit | 6.546 |
| Water Soluble Carbon | mg kg | 490 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 39 |
| Aluminum, Extractable | mg kg | 255 |
| Iron, Extractable (Optional) | mg kg | 66 |

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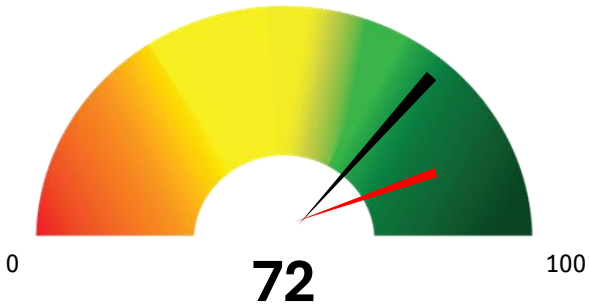
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United States

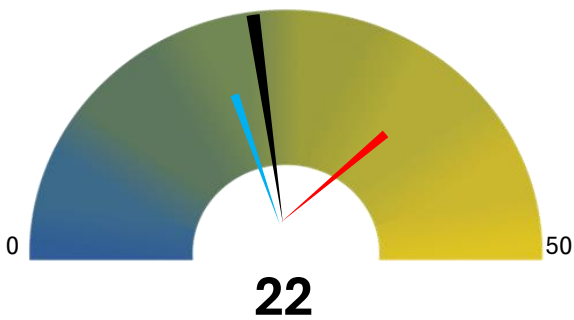
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree102 T5 R8 Z10
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 73.8 | Optimal |
| Solvita Response | (0 - 5) | 4.15 | Medium |
| Soil Amino-N | ppm | 31 | Low |
| Crumb Aggregates | Vol % | 22 | Low |
| Scoop Bulk Density | g/cc | 1.04 | Optimal |
| Total Carbon | % | 0.803 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 99 | 234 | 1214 | 16,756 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 13.8 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



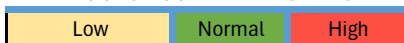
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 8 |
| Est. Seasonal Biological N-Release | lb/a | 85 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 99 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 49 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.9 |
| Potassium - Extractable K | mg kg | 485 |
| Calcium - Extractable Ca | mg kg | 1257 |
| Magnesium - Extractable Mg | mg kg | 196 |
| Sodium - Extractable Na | mg kg | 44 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 15.7% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.587 |
| Optional test (buffer pH) | Unit | 6.552 |
| Water Soluble Carbon | mg kg | 698 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 92 |
| Aluminum, Extractable | mg kg | 236 |
| Iron, Extractable (Optional) | mg kg | 54 |

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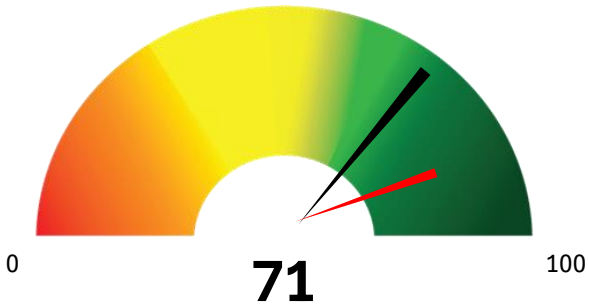
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United States

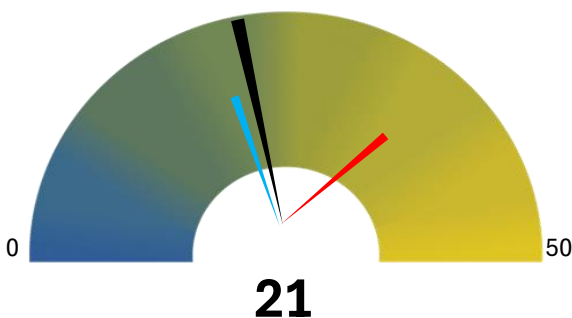
Account / Sample ID: 3433 / 12516.6
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree106 T5 R7 Z10
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 59.5 | Med-Low |
| Solvita Response | (0 - 5) | 3.79 | Medium |
| Soil Amino-N | ppm | 69 | Medium |
| Crumb Aggregates | Vol % | 11 | Low |
| Scoop Bulk Density | g/cc | 0.95 | Optimal |
| Total Carbon | % | 0.896 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 90 | 126 | 626 | 16,964 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 13.1 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



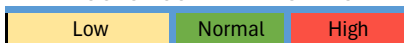
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 12 |
| Est. Seasonal Biological N-Release | lb/a | 68 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 90 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 29 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.3 |
| Potassium - Extractable K | mg kg | 275 |
| Calcium - Extractable Ca | mg kg | 1173 |
| Magnesium - Extractable Mg | mg kg | 184 |
| Sodium - Extractable Na | mg kg | 56 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 9.6% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.571 |
| Optional test (buffer pH) | Unit | 6.524 |
| Water Soluble Carbon | mg kg | 686 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 57 |
| Aluminum, Extractable | mg kg | 274 |
| Iron, Extractable (Optional) | mg kg | 67 |

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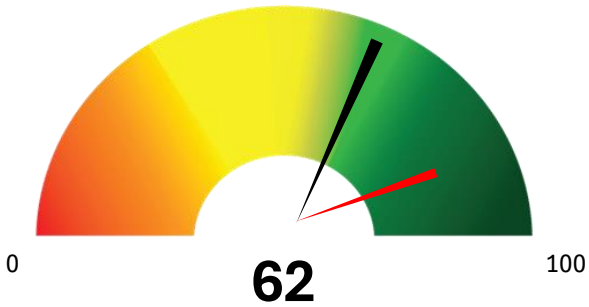
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Arthurs Point Farm
Arthur's Point Farm
118 Eagle Rock Rd
Ghent, NY 12075
United States

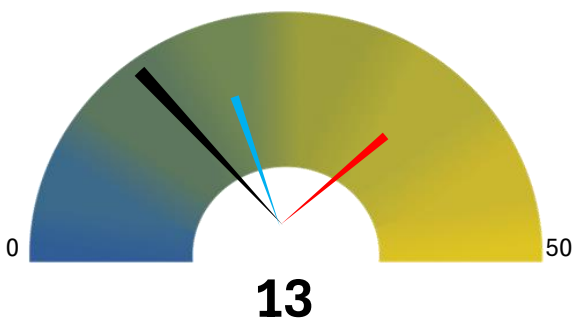
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree110 T1 R9 Z11
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 59.7 | Med-Low |
| Solvita Response | (0 - 5) | 3.87 | Medium |
| Soil Amino-N | ppm | 47 | Low |
| Crumb Aggregates | Vol % | 13 | Low |
| Scoop Bulk Density | g/cc | 1.01 | Optimal |
| Total Carbon | % | 0.826 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 74 | 82 | 420 | 16,685 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 1 | 0 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



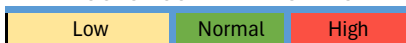
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

50% Legume 50% Grass/Non-Legume

Lime Suggestion 1.4 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 69 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 74 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 18 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.5 |
| Potassium - Extractable K | mg kg | 173 |
| Calcium - Extractable Ca | mg kg | 1006 |
| Magnesium - Extractable Mg | mg kg | 148 |
| Sodium - Extractable Na | mg kg | 44 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 99% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.1% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.312 |
| Optional test (buffer pH) | Unit | 6.433 |
| Water Soluble Carbon | mg kg | 6 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 2 |
| Aluminum, Extractable | mg kg | 265 |
| Iron, Extractable (Optional) | mg kg | 50 |

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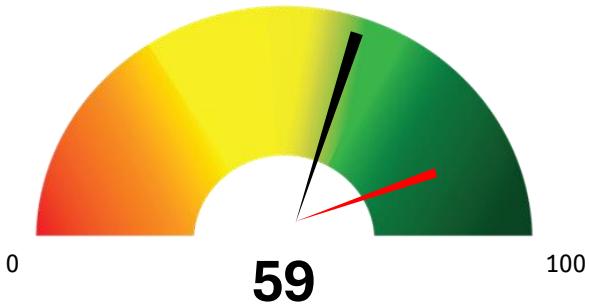
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Ghent, NY 12075
United States

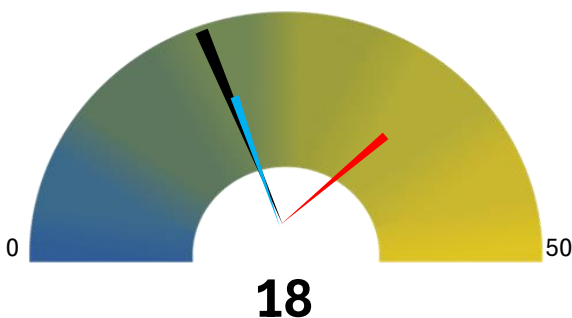
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree118 T1 R7 Z11
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 25.9 | V Low |
| Solvita Response | (0 - 5) | 2.97 | Low |
| Soil Amino-N | ppm | 17 | Low |
| Crumb Aggregates | Vol % | 24 | Low |
| Scoop Bulk Density | g/cc | 1.06 | Optimal |
| Total Carbon | % | 0.599 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 33 | 105 | 538 | 12,699 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 42 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 9.9 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



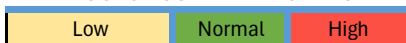
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 0.7 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 30 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 33 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 22 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.0 |
| Potassium - Extractable K | mg kg | 212 |
| Calcium - Extractable Ca | mg kg | 923 |
| Magnesium - Extractable Mg | mg kg | 174 |
| Sodium - Extractable Na | mg kg | 10 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 82% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 9.0% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.271 |
| Optional test (buffer pH) | Unit | 6.670 |
| Water Soluble Carbon | mg kg | 426 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 215 |
| Aluminum, Extractable | mg kg | 234 |
| Iron, Extractable (Optional) | mg kg | 53 |

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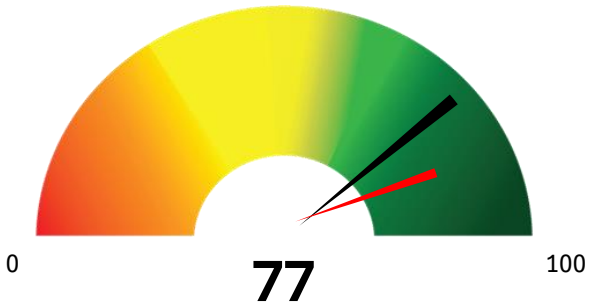
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United States

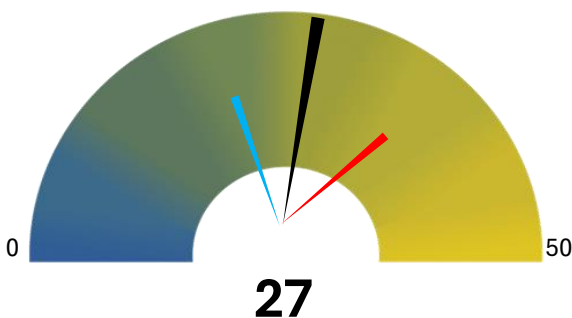
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree114 T1 R8 Z11
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 96.2 | Optimal |
| Solvita Response | (0 - 5) | 4.18 | Medium |
| Soil Amino-N | ppm | 61 | Medium |
| Crumb Aggregates | Vol % | 35 | Medium |
| Scoop Bulk Density | g/cc | 0.82 | Optimal |
| Total Carbon | % | 1.720 | Medium |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 118 | 95 | 526 | 28,323 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 14.8 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



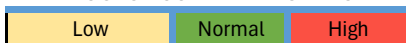
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

Lime Suggestion 1.1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 4 |
| Est. Seasonal Biological N-Release | lb/a | 111 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 118 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 25 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.6 |
| Potassium - Extractable K | mg kg | 266 |
| Calcium - Extractable Ca | mg kg | 1411 |
| Magnesium - Extractable Mg | mg kg | 238 |
| Sodium - Extractable Na | mg kg | 59 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.6% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.260 |
| Optional test (buffer pH) | Unit | 6.516 |
| Water Soluble Carbon | mg kg | 564 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 133 |
| Aluminum, Extractable | mg kg | 257 |
| Iron, Extractable (Optional) | mg kg | 51 |

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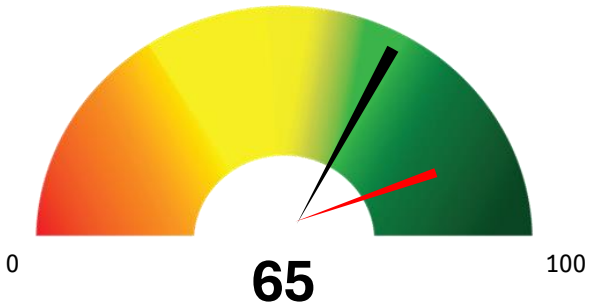
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Ghent, NY 12075
United States

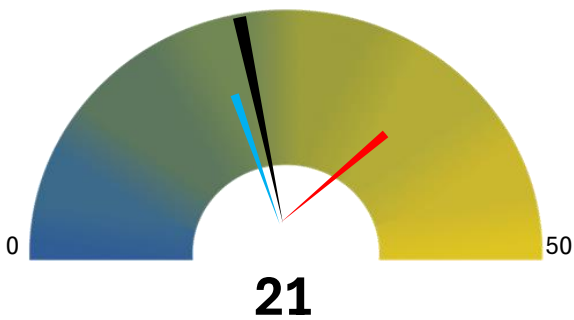
Account / Sample ID: 3433 / 12517.0
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree122 T2 R9 Z12
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 36.1 | Med-Low |
| Solvita Response | (0 - 5) | 3.24 | Low |
| Soil Amino-N | ppm | 73 | Medium |
| Crumb Aggregates | Vol % | 23 | Low |
| Scoop Bulk Density | g/cc | 0.96 | Optimal |
| Total Carbon | % | 1.090 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 47 | 96 | 496 | 20,928 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 28 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.8 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



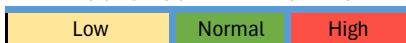
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1.1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 42 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 47 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 22 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.0 |
| Potassium - Extractable K | mg kg | 215 |
| Calcium - Extractable Ca | mg kg | 1047 |
| Magnesium - Extractable Mg | mg kg | 133 |
| Sodium - Extractable Na | mg kg | 20 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 88% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.7% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.253 |
| Optional test (buffer pH) | Unit | 6.515 |
| Water Soluble Carbon | mg kg | 545 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 181 |
| Aluminum, Extractable | mg kg | 334 |
| Iron, Extractable (Optional) | mg kg | 45 |

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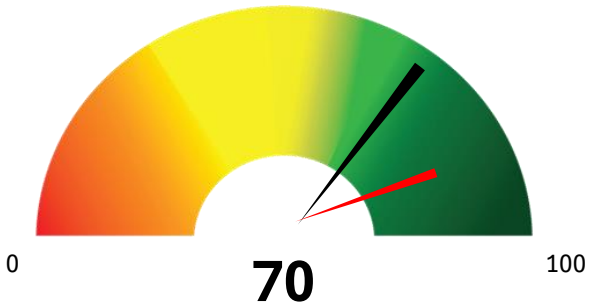
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United States

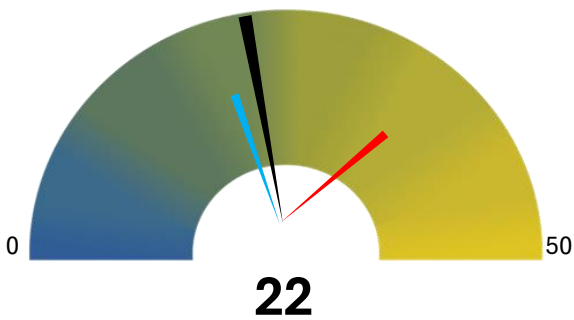
Account / Sample ID: 3433 / 12517.1
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree126 T2 R8 Z12
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 52.7 | Med-Low |
| Solvita Response | (0 - 5) | 3.75 | Medium |
| Soil Amino-N | ppm | 60 | Medium |
| Crumb Aggregates | Vol % | 22 | Low |
| Scoop Bulk Density | g/cc | 1.03 | Optimal |
| Total Carbon | % | 0.849 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 67 | 91 | 470 | 17,546 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 8 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 10.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



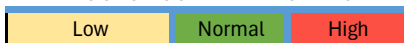
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 4 |
| Est. Seasonal Biological N-Release | lb/a | 61 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 67 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 19 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.0 |
| Potassium - Extractable K | mg kg | 190 |
| Calcium - Extractable Ca | mg kg | 917 |
| Magnesium - Extractable Mg | mg kg | 150 |
| Sodium - Extractable Na | mg kg | 47 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 97% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.3% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.642 |
| Optional test (buffer pH) | Unit | 6.619 |
| Water Soluble Carbon | mg kg | 596 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 158 |
| Aluminum, Extractable | mg kg | 245 |
| Iron, Extractable (Optional) | mg kg | 48 |

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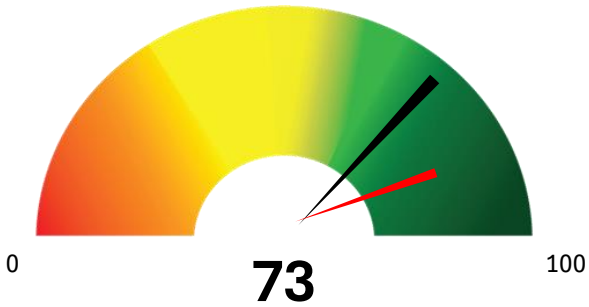
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United States

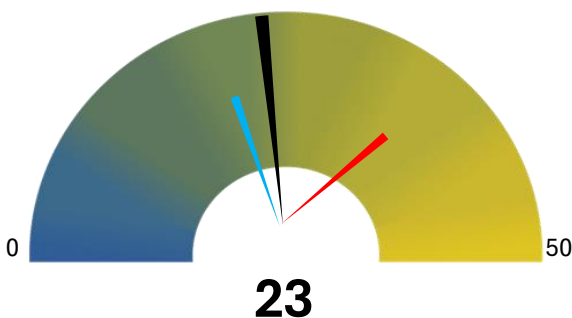
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree130 T2 R7 Z12
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 82.5 | Optimal |
| Solvita Response | (0 - 5) | 4.26 | Medium |
| Soil Amino-N | ppm | 55 | Medium |
| Crumb Aggregates | Vol % | 19 | Low |
| Scoop Bulk Density | g/cc | 1.04 | Optimal |
| Total Carbon | % | 0.804 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 100 | 87 | 462 | 16,670 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



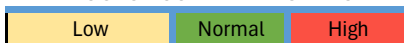
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1.4 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 95 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 100 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 18 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.8 |
| Potassium - Extractable K | mg kg | 186 |
| Calcium - Extractable Ca | mg kg | 973 |
| Magnesium - Extractable Mg | mg kg | 158 |
| Sodium - Extractable Na | mg kg | 61 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.7% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.244 |
| Optional test (buffer pH) | Unit | 6.433 |
| Water Soluble Carbon | mg kg | 723 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 268 |
| Aluminum, Extractable | mg kg | 250 |
| Iron, Extractable (Optional) | mg kg | 53 |

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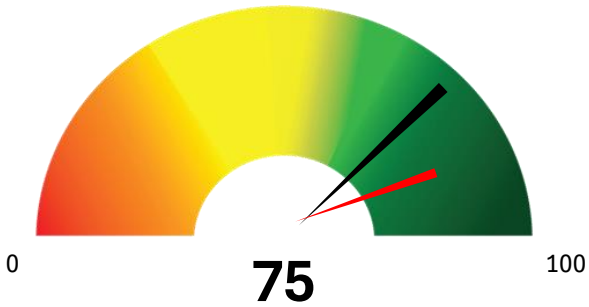
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Ghent, NY 12075
United States

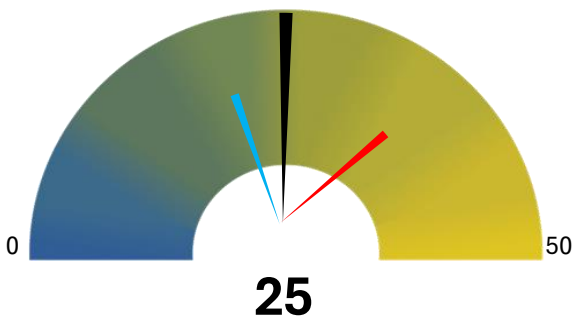
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree134 T3 R9 Z13
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 84.6 | Optimal |
| Solvita Response | (0 - 5) | 4.30 | Medium |
| Soil Amino-N | ppm | 86 | Medium |
| Crumb Aggregates | Vol % | 20 | Low |
| Scoop Bulk Density | g/cc | 1.05 | Optimal |
| Total Carbon | % | 1.210 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 116 | 135 | 717 | 25,329 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 13.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



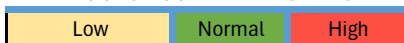
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 10 |
| Est. Seasonal Biological N-Release | lb/a | 97 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 116 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 28 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.9 |
| Potassium - Extractable K | mg kg | 285 |
| Calcium - Extractable Ca | mg kg | 1339 |
| Magnesium - Extractable Mg | mg kg | 178 |
| Sodium - Extractable Na | mg kg | 98 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 8.9% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.672 |
| Optional test (buffer pH) | Unit | 6.609 |
| Water Soluble Carbon | mg kg | 428 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 41 |
| Aluminum, Extractable | mg kg | 271 |
| Iron, Extractable (Optional) | mg kg | 52 |

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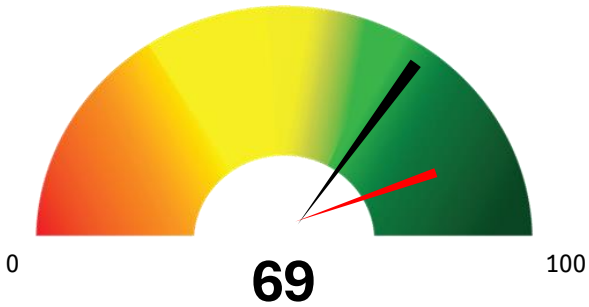
Generated by user ID: nh

Arthurs Point Farm
Arthur's Point Farm
118 Eagle Rock Rd
Ghent, NY 12075
United States

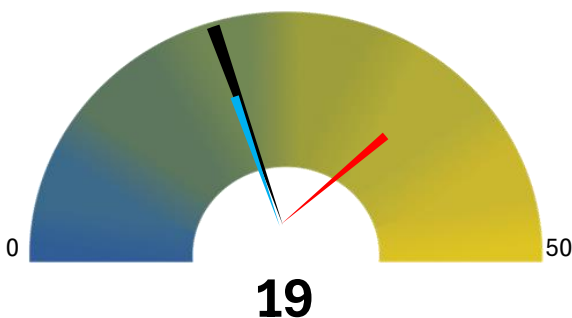
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree138 T3 R8 Z13
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 83.4 | Optimal |
| Solvita Response | (0 - 5) | 4.22 | Medium |
| Soil Amino-N | ppm | 99 | Medium |
| Crumb Aggregates | Vol % | 36 | Medium |
| Scoop Bulk Density | g/cc | 0.99 | Optimal |
| Total Carbon | % | 1.560 | Medium |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 110 | 98 | 513 | 30,784 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 25 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 14.0 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



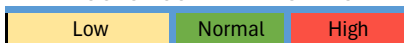
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 8 |
| Est. Seasonal Biological N-Release | lb/a | 96 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 110 |
| Likelihood of N-Response based on Org-N | Rating | Moderate |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 22 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.3 |
| Potassium - Extractable K | mg kg | 216 |
| Calcium - Extractable Ca | mg kg | 1194 |
| Magnesium - Extractable Mg | mg kg | 197 |
| Sodium - Extractable Na | mg kg | 54 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 7.3% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.573 |
| Optional test (buffer pH) | Unit | 6.445 |
| Water Soluble Carbon | mg kg | 6 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 1 |
| Aluminum, Extractable | mg kg | 295 |
| Iron, Extractable (Optional) | mg kg | 38 |

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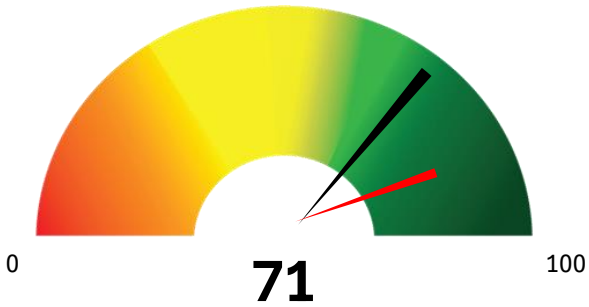
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118 Eagle Rock Rd
Ghent, NY 12075
United States

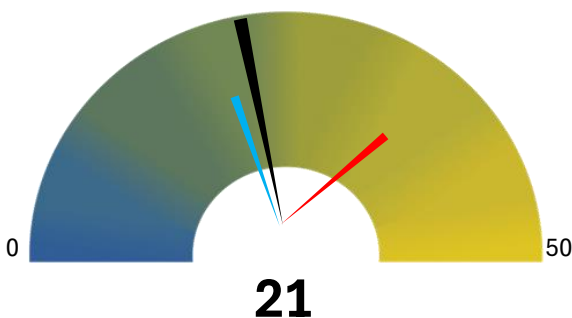
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree142 T3 R7 Z13
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 60.8 | Optimal |
| Solvita Response | (0 - 5) | 3.95 | Medium |
| Soil Amino-N | ppm | 42 | Low |
| Crumb Aggregates | Vol % | 17 | Low |
| Scoop Bulk Density | g/cc | 1.07 | Optimal |
| Total Carbon | % | 0.830 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 79 | 140 | 698 | 17,762 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 10.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



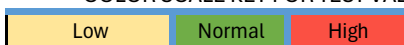
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 0 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 5 |
| Est. Seasonal Biological N-Release | lb/a | 70 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 79 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 28 |
| Phosphorus - Carbonate Ext-P | mg kg | 2.8 |
| Potassium - Extractable K | mg kg | 272 |
| Calcium - Extractable Ca | mg kg | 1012 |
| Magnesium - Extractable Mg | mg kg | 171 |
| Sodium - Extractable Na | mg kg | 59 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 10.7% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.488 |
| Optional test (buffer pH) | Unit | 6.669 |
| Water Soluble Carbon | mg kg | 546 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 115 |
| Aluminum, Extractable | mg kg | 247 |
| Iron, Extractable (Optional) | mg kg | 40 |

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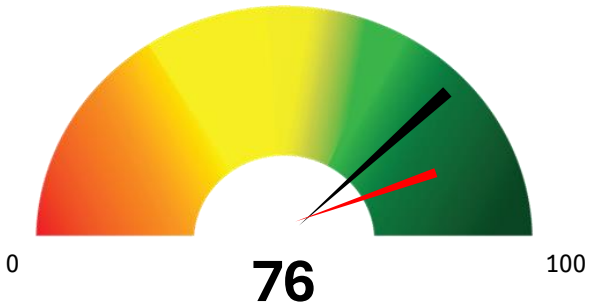
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118 Eagle Rock Rd
Ghent, NY 12075
United States

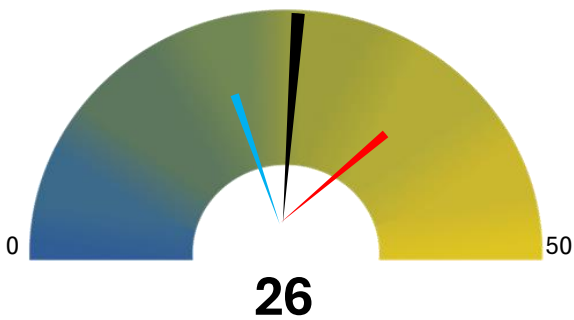
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree146 T4 R9 Z14
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 77.8 | Optimal |
| Solvita Response | (0 - 5) | 4.15 | Medium |
| Soil Amino-N | ppm | 76 | Medium |
| Crumb Aggregates | Vol % | 37 | Medium |
| Scoop Bulk Density | g/cc | 0.99 | Optimal |
| Total Carbon | % | 1.140 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 105 | 106 | 615 | 22,572 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 13.5 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



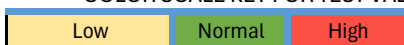
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

Lime Suggestion 0 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 9 |
| Est. Seasonal Biological N-Release | lb/a | 89 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 105 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 23 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.0 |
| Potassium - Extractable K | mg kg | 259 |
| Calcium - Extractable Ca | mg kg | 1129 |
| Magnesium - Extractable Mg | mg kg | 175 |
| Sodium - Extractable Na | mg kg | 72 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 9.3% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.437 |
| Optional test (buffer pH) | Unit | 6.460 |
| Water Soluble Carbon | mg kg | 510 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 59 |
| Aluminum, Extractable | mg kg | 306 |
| Iron, Extractable (Optional) | mg kg | 38 |

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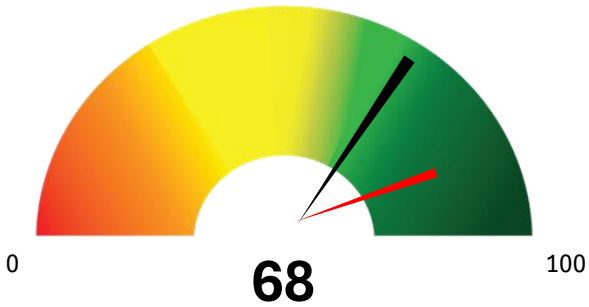
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Arthur's Point Farm
118 Eagle Rock Rd
Ghent, NY 12075
United States

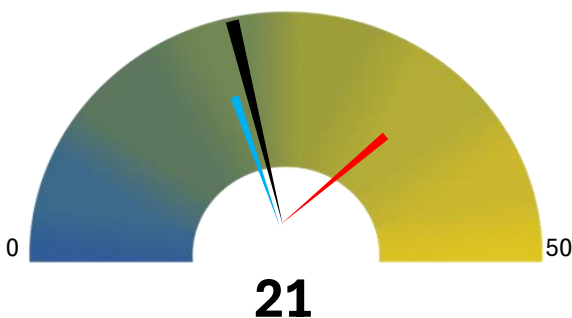
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree150 T4 R8 Z14
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 45.5 | Med-Low |
| Solvita Response | (0 - 5) | 3.56 | Medium |
| Soil Amino-N | ppm | 22 | Low |
| Crumb Aggregates | Vol % | 20 | Low |
| Scoop Bulk Density | g/cc | 1.01 | Optimal |
| Total Carbon | % | 1.370 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 63 | 75 | 821 | 27,674 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 12 | 0 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 10.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



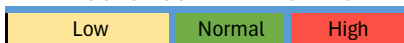
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1.4 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 6 |
| Est. Seasonal Biological N-Release | lb/a | 52 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 63 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 16 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.0 |
| Potassium - Extractable K | mg kg | 339 |
| Calcium - Extractable Ca | mg kg | 559 |
| Magnesium - Extractable Mg | mg kg | 104 |
| Sodium - Extractable Na | mg kg | 25 |

Rating Factors

| | | |
|---|--------|-------|
| Nutrient Index, Scale 0 - 100 | Rating | 95% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 23.7% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.286 |
| Optional test (buffer pH) | Unit | 6.435 |
| Water Soluble Carbon | mg kg | 367 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 63 |
| Aluminum, Extractable | mg kg | 239 |
| Iron, Extractable (Optional) | mg kg | 41 |

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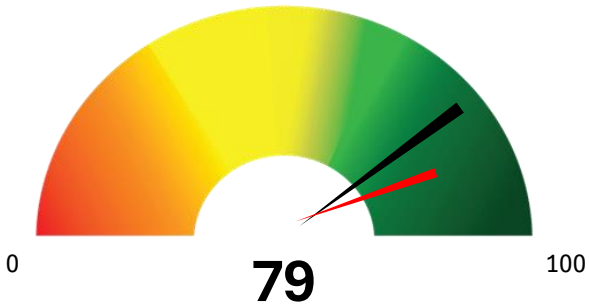
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118 Eagle Rock Rd
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United States

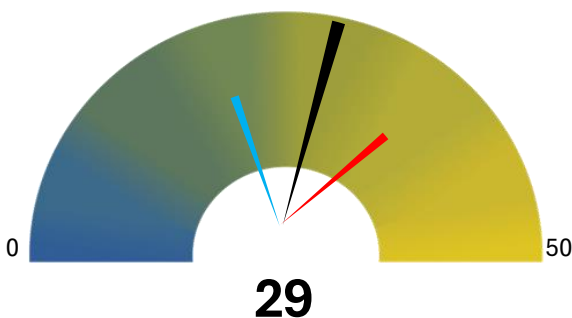
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree154 T4 R7 Z14
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 82.7 | Optimal |
| Solvita Response | (0 - 5) | 4.07 | Medium |
| Soil Amino-N | ppm | 129 | Medium |
| Crumb Aggregates | Vol % | 39 | Medium |
| Scoop Bulk Density | g/cc | 0.87 | Optimal |
| Total Carbon | % | 1.880 | Medium |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 113 | 43 | 414 | 32,837 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 25 | 18 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



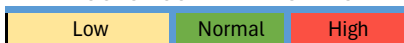
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

Lime Suggestion 1.4 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 10 |
| Est. Seasonal Biological N-Release | lb/a | 95 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 113 |
| Likelihood of N-Response based on Org-N | Rating | Moderate |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 11 |
| Phosphorus - Carbonate Ext-P | mg kg | 5.0 |
| Potassium - Extractable K | mg kg | 197 |
| Calcium - Extractable Ca | mg kg | 836 |
| Magnesium - Extractable Mg | mg kg | 133 |
| Sodium - Extractable Na | mg kg | 23 |

Rating Factors

| | | |
|---|----------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 9.6% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.325 |
| Optional test (buffer pH) | Unit | 6.419 |
| Water Soluble Carbon | mg kg | 414 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 42 |
| Aluminum, Extractable | mg kg | 197 |
| Iron, Extractable (Optional) | mg kg | 22 |

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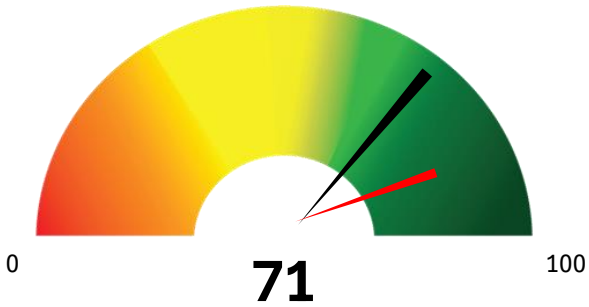
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United States

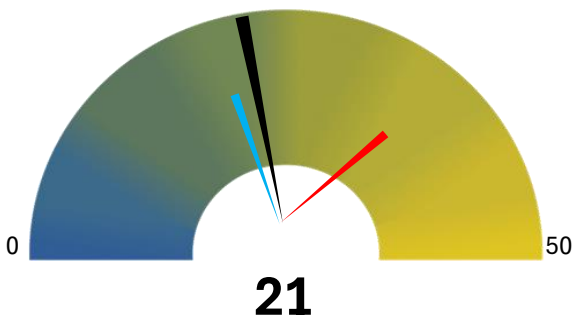
Account / Sample ID: 3433 / 12517.9
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree158 T5 R9 Z15
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 59.0 | Med-Low |
| Solvita Response | (0 - 5) | 3.91 | Medium |
| Soil Amino-N | ppm | 54 | Medium |
| Crumb Aggregates | Vol % | 12 | Low |
| Scoop Bulk Density | g/cc | 1.06 | Optimal |
| Total Carbon | % | 1.340 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 79 | 58 | 1893 | 28,497 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 18 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 12.0 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



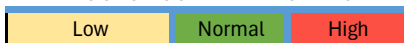
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1.5 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 6 |
| Est. Seasonal Biological N-Release | lb/a | 68 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 79 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 12 |
| Phosphorus - Carbonate Ext-P | mg kg | 5.1 |
| Potassium - Extractable K | mg kg | 742 |
| Calcium - Extractable Ca | mg kg | 610 |
| Magnesium - Extractable Mg | mg kg | 107 |
| Sodium - Extractable Na | mg kg | 14 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 48.2% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.265 |
| Optional test (buffer pH) | Unit | 6.390 |
| Water Soluble Carbon | mg kg | 367 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 57 |
| Aluminum, Extractable | mg kg | 318 |
| Iron, Extractable (Optional) | mg kg | 34 |

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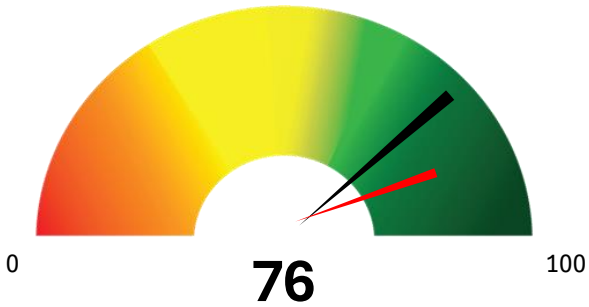
Generated by user ID: nh

Arthurs Point Farm
Arthur's Point Farm
118 Eagle Rock Rd
Ghent, NY 12075
United States

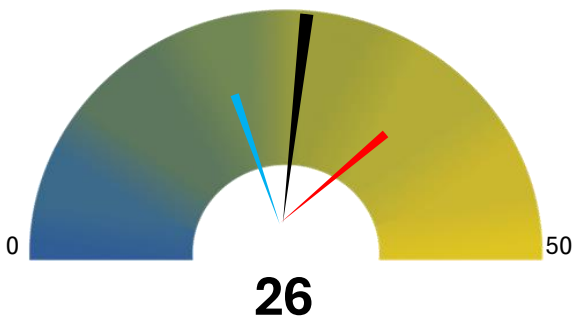
Account / Sample ID: 3433 / 12518.0
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree162 T5 R8 Z15
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 72.4 | Optimal |
| Solvita Response | (0 - 5) | 4.07 | Medium |
| Soil Amino-N | ppm | 156 | Optimal |
| Crumb Aggregates | Vol % | 25 | Medium |
| Scoop Bulk Density | g/cc | 1.00 | Optimal |
| Total Carbon | % | 1.370 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 100 | 55 | 857 | 27,309 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 25 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 10.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



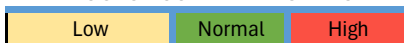
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

Lime Suggestion 1.4 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 9 |
| Est. Seasonal Biological N-Release | lb/a | 83 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 100 |
| Likelihood of N-Response based on Org-N | Rating | Moderate |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 12 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.5 |
| Potassium - Extractable K | mg kg | 358 |
| Calcium - Extractable Ca | mg kg | 629 |
| Magnesium - Extractable Mg | mg kg | 89 |
| Sodium - Extractable Na | mg kg | 18 |

Rating Factors

| | | |
|---|--------|-------|
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 23.6% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.319 |
| Optional test (buffer pH) | Unit | 6.422 |
| Water Soluble Carbon | mg kg | 457 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 51 |
| Aluminum, Extractable | mg kg | 248 |
| Iron, Extractable (Optional) | mg kg | 44 |

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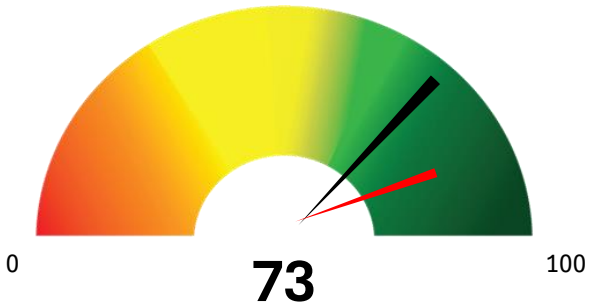
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Arthur's Point Farm
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United States

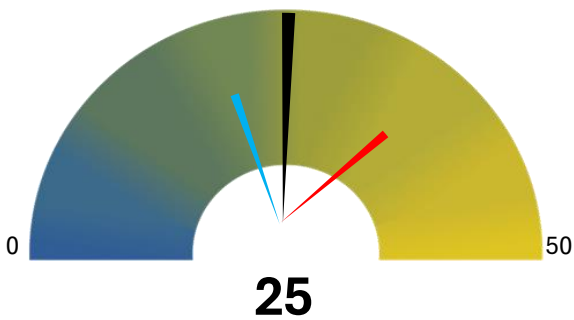
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Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree166 T5 R7 Z15
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 74.6 | Optimal |
| Solvita Response | (0 - 5) | 4.11 | Medium |
| Soil Amino-N | ppm | 95 | Medium |
| Crumb Aggregates | Vol % | 26 | Medium |
| Scoop Bulk Density | g/cc | 1.00 | Optimal |
| Total Carbon | % | 1.220 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 96 | 31 | 1448 | 24,400 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 4 | 0 | |
| Suggested Need | 53 | 26 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 13.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



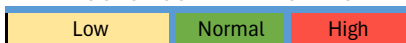
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 2 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|--------|--------------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 6 |
| Est. Seasonal Biological N-Release | lb/a | 86 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 96 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 7 |
| Phosphorus - Carbonate Ext-P | mg kg | 3.1 |
| Potassium - Extractable K | mg kg | 604 |
| Calcium - Extractable Ca | mg kg | 609 |
| Magnesium - Extractable Mg | mg kg | 112 |
| Sodium - Extractable Na | mg kg | 23 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 96% |
| Most Limiting Factor | | P |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 38.9% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.354 |
| Optional test (buffer pH) | Unit | 6.207 |
| Water Soluble Carbon | mg kg | 422 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 74 |
| Aluminum, Extractable | mg kg | 271 |
| Iron, Extractable (Optional) | mg kg | 27 |

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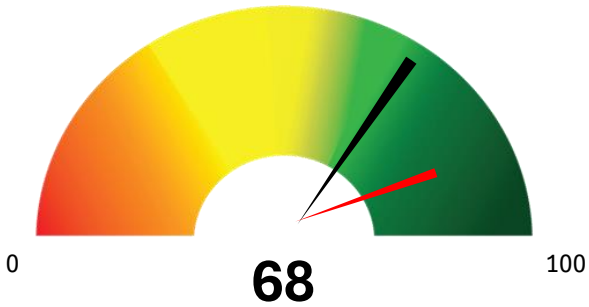
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Ghent, NY 12075
United States

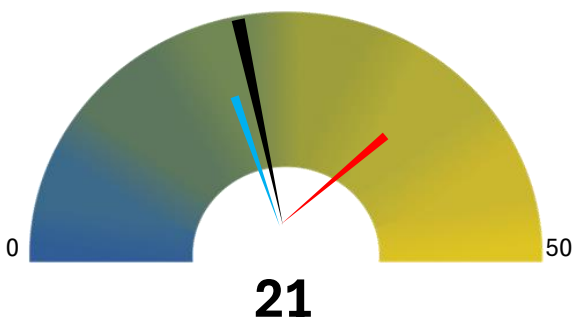
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree170 T1 R9 Z16
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 59.1 | Med-Low |
| Solvita Response | (0 - 5) | 3.83 | Medium |
| Soil Amino-N | ppm | 31 | Low |
| Crumb Aggregates | Vol % | 17 | Low |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 0.966 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 81 | 29 | 888 | 18,998 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 6 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 10.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

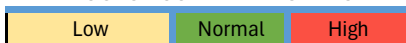
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 0 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 7 |
| Est. Seasonal Biological N-Release | lb/a | 68 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 81 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 6 |
| Phosphorus - Carbonate Ext-P | mg kg | 1.8 |
| Potassium - Extractable K | mg kg | 376 |
| Calcium - Extractable Ca | mg kg | 616 |
| Magnesium - Extractable Mg | mg kg | 93 |
| Sodium - Extractable Na | mg kg | 11 |

Rating Factors

| | | |
|---|--------|-------|
| Nutrient Index, Scale 0 - 100 | Rating | 94% |
| Most Limiting Factor | | P |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 25.1% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.442 |
| Optional test (buffer pH) | Unit | 6.426 |
| Water Soluble Carbon | mg kg | 538 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 73 |
| Aluminum, Extractable | mg kg | 311 |
| Iron, Extractable (Optional) | mg kg | 46 |

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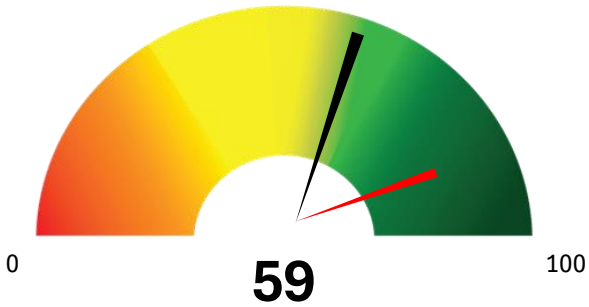
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United States

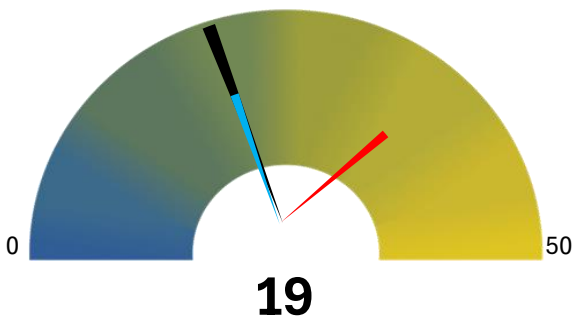
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree174 T1 R8 Z16
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 39.3 | Med-Low |
| Solvita Response | (0 - 5) | 3.44 | Medium |
| Soil Amino-N | ppm | 47 | Low |
| Crumb Aggregates | Vol % | 9 | Low |
| Scoop Bulk Density | g/cc | 1.06 | Optimal |
| Total Carbon | % | 0.888 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 50 | 27 | 369 | 18,766 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 25 | 8 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 8.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



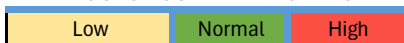
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 1.2 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 45 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 50 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 5 |
| Phosphorus - Carbonate Ext-P | mg kg | 1.0 |
| Potassium - Extractable K | mg kg | 146 |
| Calcium - Extractable Ca | mg kg | 426 |
| Magnesium - Extractable Mg | mg kg | 83 |
| Sodium - Extractable Na | mg kg | 13 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 81% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 13.2% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.143 |
| Optional test (buffer pH) | Unit | 6.496 |
| Water Soluble Carbon | mg kg | 382 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 155 |
| Aluminum, Extractable | mg kg | 280 |
| Iron, Extractable (Optional) | mg kg | 41 |

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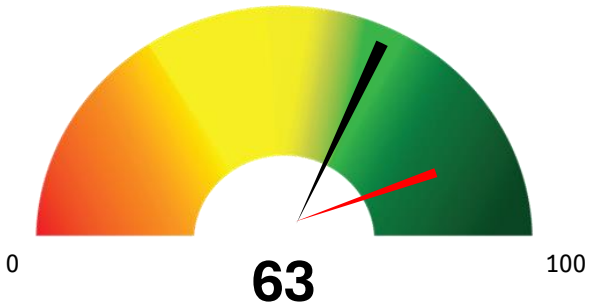
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United States

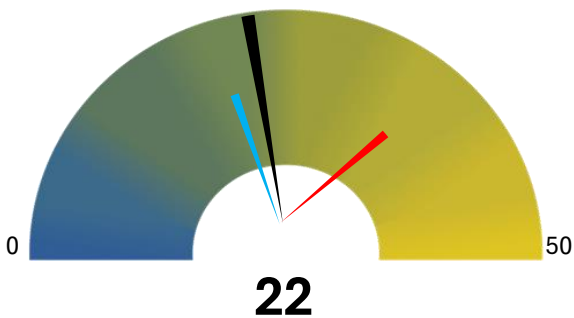
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree178 T1 R7 Z16
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 60.3 | Optimal |
| Solvita Response | (0 - 5) | 3.87 | Medium |
| Soil Amino-N | ppm | 30 | Low |
| Crumb Aggregates | Vol % | 24 | Low |
| Scoop Bulk Density | g/cc | 1.00 | Optimal |
| Total Carbon | % | 0.937 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 74 | 17 | 1096 | 18,740 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 1 | 18 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 9.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



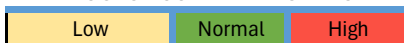
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 69 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 74 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 4 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.6 |
| Potassium - Extractable K | mg kg | 457 |
| Calcium - Extractable Ca | mg kg | 601 |
| Magnesium - Extractable Mg | mg kg | 117 |
| Sodium - Extractable Na | mg kg | 17 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 83% |
| Most Limiting Factor | | P |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 29.4% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.336 |
| Optional test (buffer pH) | Unit | 6.557 |
| Water Soluble Carbon | mg kg | 475 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 190 |
| Aluminum, Extractable | mg kg | 280 |
| Iron, Extractable (Optional) | mg kg | 26 |

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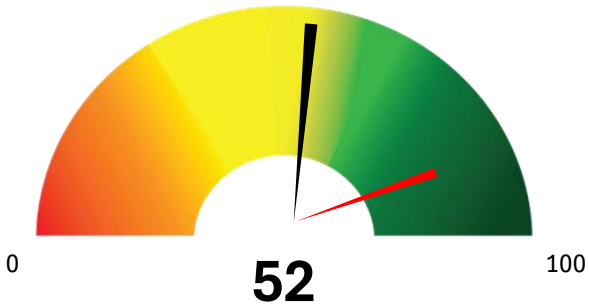
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United States

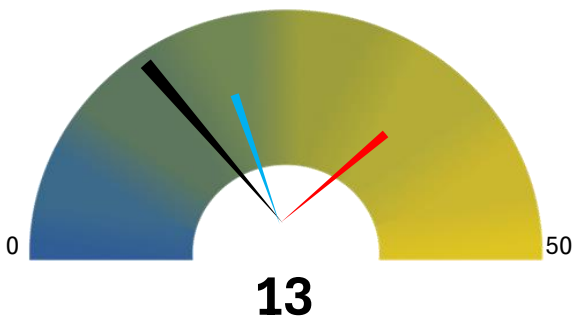
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree182 T2 R9 Z17
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 18.3 | V Low |
| Solvita Response | (0 - 5) | 2.65 | Low |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 6 | Low |
| Scoop Bulk Density | g/cc | 1.13 | Optimal |
| Total Carbon | % | 0.496 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 24 | 41 | 225 | 11,243 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 51 | 0 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Normal | 7.2 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



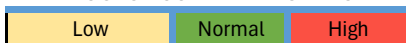
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

50% Legume 50% Grass/Non-Legume

Lime Suggestion 0.7 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|---------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 21 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 24 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 8 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.5 |
| Potassium - Extractable K | mg kg | 83 |
| Calcium - Extractable Ca | mg kg | 577 |
| Magnesium - Extractable Mg | mg kg | 94 |
| Sodium - Extractable Na | mg kg | 10 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 77% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Optimal | 5.8% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.292 |
| Optional test (buffer pH) | Unit | 6.674 |
| Water Soluble Carbon | mg kg | 316 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 210 |
| Aluminum, Extractable | mg kg | 179 |
| Iron, Extractable (Optional) | mg kg | 44 |

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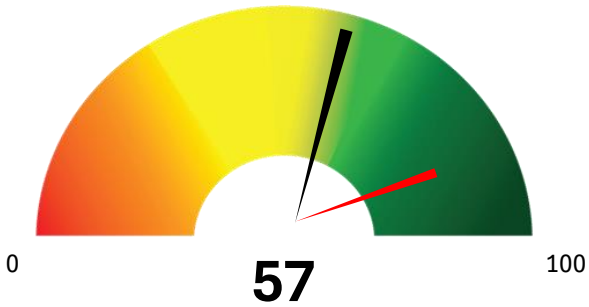
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United States

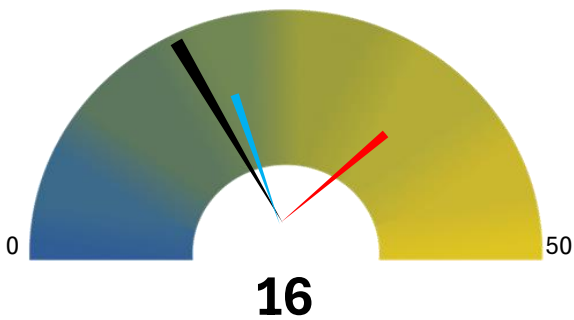
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree186 T2 R8 Z17
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 26.7 | V Low |
| Solvita Response | (0 - 5) | 3.05 | Low |
| Soil Amino-N | ppm | 34 | Low |
| Crumb Aggregates | Vol % | 7 | Low |
| Scoop Bulk Density | g/cc | 1.10 | Optimal |
| Total Carbon | % | 0.644 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 36 | 498 | 209 | 14,211 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 39 | 0 | 0 | |
| Suggested Need | 53 | 0 | 13 | Est CEC, meq |
| Other Notations | Low Status | Excess | Normal | 15.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

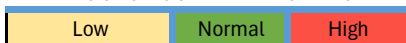
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

40% Legume 60% Grass/Non-Legume

Lime Suggestion 1 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 31 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 36 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|------|
| Phosphorus , Extractable P | mg kg | 98 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.5 |
| Potassium - Extractable K | mg kg | 79 |
| Calcium - Extractable Ca | mg kg | 1881 |
| Magnesium - Extractable Mg | mg kg | 206 |
| Sodium - Extractable Na | mg kg | 19 |

Rating Factors

| | | |
|--|---------|------|
| Nutrient Index, Scale 0 - 100 | Rating | 83% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Optimal | 1.8% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.230 |
| Optional test (buffer pH) | Unit | 6.569 |
| Water Soluble Carbon | mg kg | 352 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 130 |
| Aluminum, Extractable | mg kg | 241 |
| Iron, Extractable (Optional) | mg kg | 137 |

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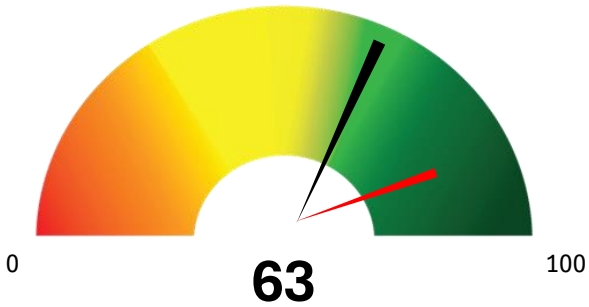
Generated by user ID: nh

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United States

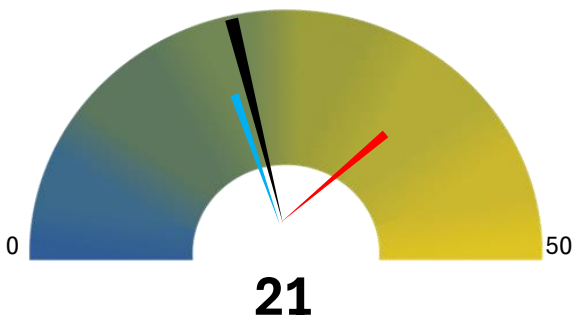
Account / Sample ID: 3433 / 12518.7
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree190 T2 R7 Z17
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 59.3 | Med-Low |
| Solvita Response | (0 - 5) | 3.87 | Medium |
| Soil Amino-N | ppm | 57 | Medium |
| Crumb Aggregates | Vol % | 15 | Low |
| Scoop Bulk Density | g/cc | 1.02 | Optimal |
| Total Carbon | % | 1.240 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 71 | 20 | 452 | 25,213 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 4 | 15 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 8.9 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



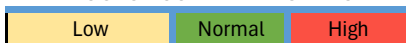
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

Lime Suggestion 1.3 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 68 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 71 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 4 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.5 |
| Potassium - Extractable K | mg kg | 185 |
| Calcium - Extractable Ca | mg kg | 484 |
| Magnesium - Extractable Mg | mg kg | 62 |
| Sodium - Extractable Na | mg kg | 34 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 84% |
| Most Limiting Factor | | P |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 16.2% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.155 |
| Optional test (buffer pH) | Unit | 6.463 |
| Water Soluble Carbon | mg kg | 325 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 183 |
| Aluminum, Extractable | mg kg | 259 |
| Iron, Extractable (Optional) | mg kg | 29 |

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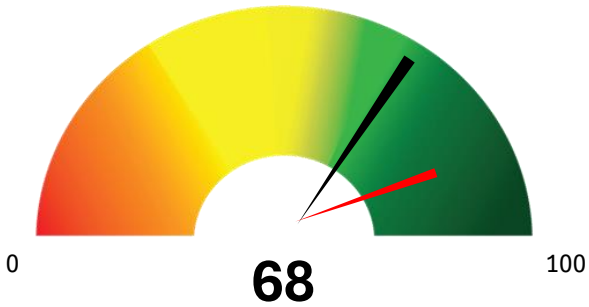
Generated by user ID: nh

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Ghent, NY 12075
United States

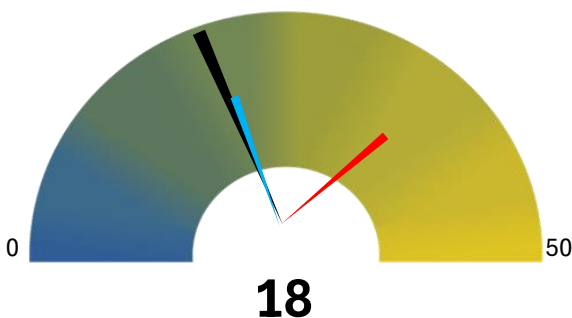
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree194 T3 R9 Z18
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 66.2 | Optimal |
| Solvita Response | (0 - 5) | 4.03 | Medium |
| Soil Amino-N | ppm | 0 | Low |
| Crumb Aggregates | Vol % | 4 | Low |
| Scoop Bulk Density | g/cc | 1.06 | Optimal |
| Total Carbon | % | 0.913 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 79 | 94 | 963 | 19,295 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 8.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

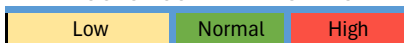
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 0.9 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 76 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 79 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 19 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.4 |
| Potassium - Extractable K | mg kg | 380 |
| Calcium - Extractable Ca | mg kg | 573 |
| Magnesium - Extractable Mg | mg kg | 77 |
| Sodium - Extractable Na | mg kg | 38 |

Rating Factors

| | | |
|---|--------|-------|
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 27.7% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.258 |
| Optional test (buffer pH) | Unit | 6.604 |
| Water Soluble Carbon | mg kg | 325 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 181 |
| Aluminum, Extractable | mg kg | 269 |
| Iron, Extractable (Optional) | mg kg | 57 |

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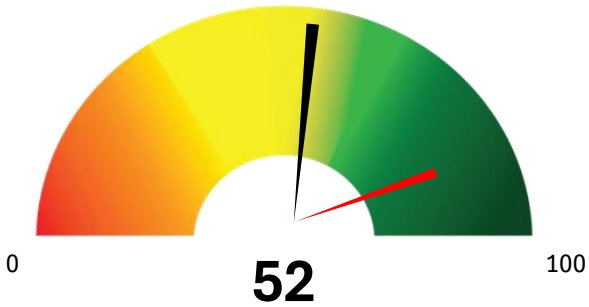
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United States

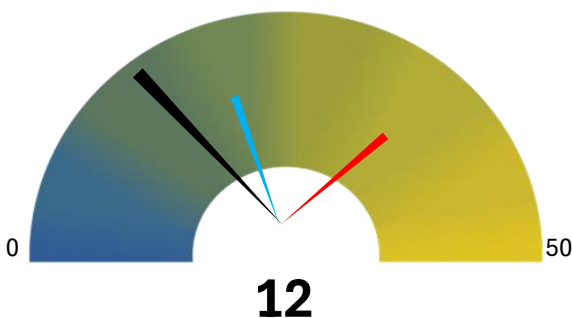
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree198 T3 R8 Z18
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 22.1 | V Low |
| Solvita Response | (0 - 5) | 2.81 | Low |
| Soil Amino-N | ppm | 12 | Low |
| Crumb Aggregates | Vol % | 8 | Low |
| Scoop Bulk Density | g/cc | 1.08 | Optimal |
| Total Carbon | % | 0.573 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 28 | 198 | 432 | 12,339 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 47 | 0 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 8.8 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

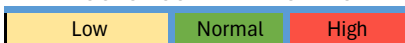
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

60% Legume 40% Grass/Non -Legume

Lime Suggestion 1.1 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 25 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 28 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 40 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.5 |
| Potassium - Extractable K | mg kg | 167 |
| Calcium - Extractable Ca | mg kg | 586 |
| Magnesium - Extractable Mg | mg kg | 85 |
| Sodium - Extractable Na | mg kg | 16 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 79% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 11.8% |
| Other Factors | | |
| pH in water 1:1 | Unit | 5.992 |
| Optional test (buffer pH) | Unit | 6.538 |
| Water Soluble Carbon | mg kg | 228 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 136 |
| Aluminum, Extractable | mg kg | 245 |
| Iron, Extractable (Optional) | mg kg | 68 |

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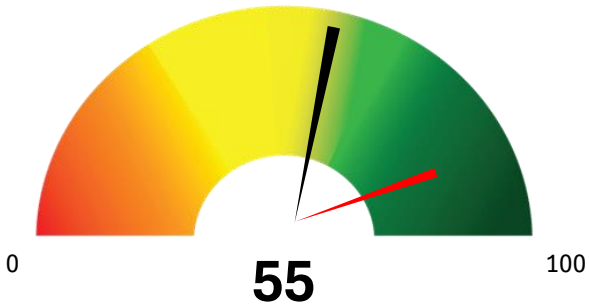
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United States

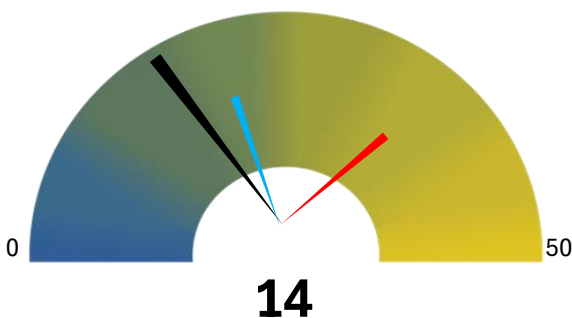
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree202 T3 R7 Z18
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 28.9 | V Low |
| Solvita Response | (0 - 5) | 3.05 | Low |
| Soil Amino-N | ppm | 20 | Low |
| Crumb Aggregates | Vol % | 8 | Low |
| Scoop Bulk Density | g/cc | 1.02 | Optimal |
| Total Carbon | % | 0.644 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 35 | 41 | 1375 | 13,138 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 40 | 0 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 9.8 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

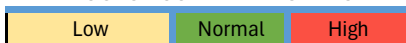
Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

50% Legume 50% Grass/Non-Legume

Lime Suggestion 1.3 Lime tons/acre

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 1 |
| Est. Seasonal Biological N-Release | lb/a | 33 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 35 |
| Likelihood of N-Response based on Org-N | Rating | Likely |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 9 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.4 |
| Potassium - Extractable K | mg kg | 562 |
| Calcium - Extractable Ca | mg kg | 519 |
| Magnesium - Extractable Mg | mg kg | 59 |
| Sodium - Extractable Na | mg kg | 15 |

Rating Factors

| | | |
|---|--------|-------|
| Nutrient Index, Scale 0 - 100 | Rating | 82% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 46.7% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 5.922 |
| Optional test (buffer pH) | Unit | 6.477 |
| Water Soluble Carbon | mg kg | 265 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 226 |
| Aluminum, Extractable | mg kg | 265 |
| Iron, Extractable (Optional) | mg kg | 48 |

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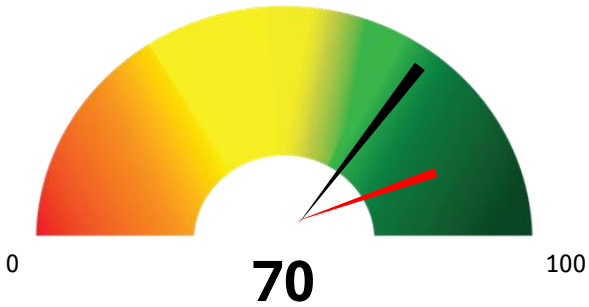
Generated by user ID: nh

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United States

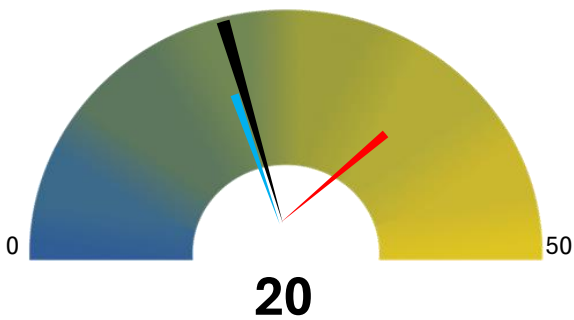
Account / Sample ID: 3433 / 12519.1
Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree206 T4 R9 Z19
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 90.6 | Optimal |
| Solvita Response | (0 - 5) | 4.34 | Medium |
| Soil Amino-N | ppm | 69 | Medium |
| Crumb Aggregates | Vol % | 17 | Low |
| Scoop Bulk Density | g/cc | 1.01 | Optimal |
| Total Carbon | % | 1.080 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 109 | 86 | 149 | 21,888 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Normal | 9.1 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



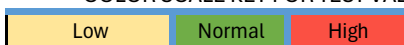
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

Lime Suggestion 0 Lime tons/acre
COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|---------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 104 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 109 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 19 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.5 |
| Potassium - Extractable K | mg kg | 61 |
| Calcium - Extractable Ca | mg kg | 823 |
| Magnesium - Extractable Mg | mg kg | 144 |
| Sodium - Extractable Na | mg kg | 15 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Optimal | 3.0% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.410 |
| Optional test (buffer pH) | Unit | 6.648 |
| Water Soluble Carbon | mg kg | 203 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 82 |
| Aluminum, Extractable | mg kg | 208 |
| Iron, Extractable (Optional) | mg kg | 35 |

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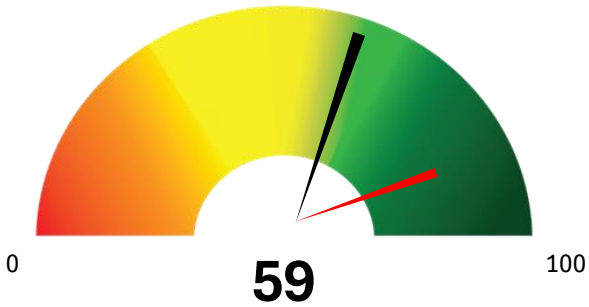
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United States

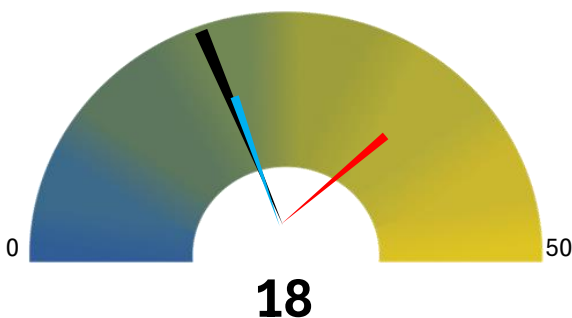
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree210 T4 R8 Z19
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 35.2 | Med-Low |
| Solvita Response | (0 - 5) | 3.32 | Medium |
| Soil Amino-N | ppm | 71 | Medium |
| Crumb Aggregates | Vol % | 13 | Low |
| Scoop Bulk Density | g/cc | 1.06 | Optimal |
| Total Carbon | % | 0.817 | Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 43 | 31 | 900 | 17,375 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 32 | 4 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 8.3 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



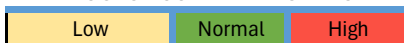
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

30% Legume 70% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 40 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 43 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 6 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.2 |
| Potassium - Extractable K | mg kg | 353 |
| Calcium - Extractable Ca | mg kg | 608 |
| Magnesium - Extractable Mg | mg kg | 115 |
| Sodium - Extractable Na | mg kg | 24 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 82% |
| Most Limiting Factor | | N |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 22.6% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.698 |
| Optional test (buffer pH) | Unit | 6.666 |
| Water Soluble Carbon | mg kg | 333 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 197 |
| Aluminum, Extractable | mg kg | 227 |
| Iron, Extractable (Optional) | mg kg | 44 |

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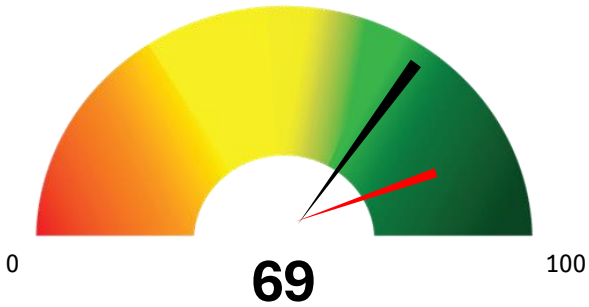
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Arthurs Point Farm
Arthur's Point Farm
118 Eagle Rock Rd
Ghent, NY 12075
United States

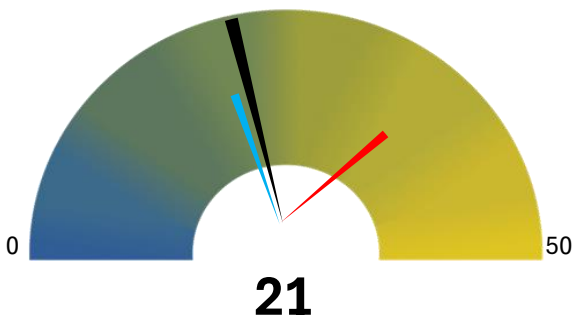
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree214 T4 R7 Z19
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 66.6 | Optimal |
| Solvita Response | (0 - 5) | 3.99 | Medium |
| Soil Amino-N | ppm | 37 | Low |
| Crumb Aggregates | Vol % | 12 | Low |
| Scoop Bulk Density | g/cc | 1.01 | Optimal |
| Total Carbon | % | 1.050 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 81 | 32 | 948 | 21,280 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 3 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 8.9 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



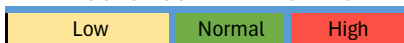
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|--------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 2 |
| Est. Seasonal Biological N-Release | lb/a | 77 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 81 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 7 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.6 |
| Potassium - Extractable K | mg kg | 390 |
| Calcium - Extractable Ca | mg kg | 677 |
| Magnesium - Extractable Mg | mg kg | 118 |
| Sodium - Extractable Na | mg kg | 22 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 97% |
| Most Limiting Factor | | P |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | V High | 22.9% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.558 |
| Optional test (buffer pH) | Unit | 6.661 |
| Water Soluble Carbon | mg kg | 359 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 146 |
| Aluminum, Extractable | mg kg | 301 |
| Iron, Extractable (Optional) | mg kg | 31 |

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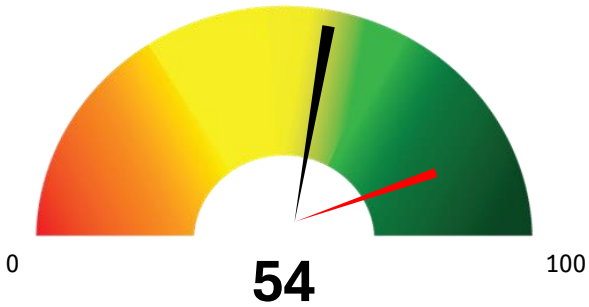
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United States

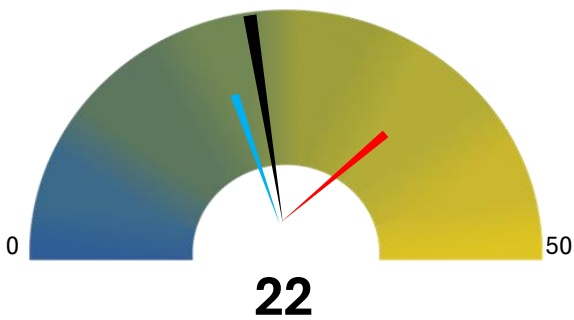
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree218 T5 R9 Z20
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 64.5 | Optimal |
| Solvita Response | (0 - 5) | 3.95 | Medium |
| Soil Amino-N | ppm | 69 | Medium |
| Crumb Aggregates | Vol % | 16 | Low |
| Scoop Bulk Density | g/cc | 1.01 | Optimal |
| Total Carbon | % | 1.180 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 79 | 29 | 4 | 23,836 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 6 | 31 | |
| Suggested Need | 53 | 35 | 49 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Normal | 8.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



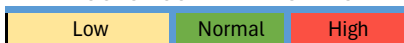
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|---------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 74 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 79 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 6 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.4 |
| Potassium - Extractable K | mg kg | 2 |
| Calcium - Extractable Ca | mg kg | 664 |
| Magnesium - Extractable Mg | mg kg | 96 |
| Sodium - Extractable Na | mg kg | 13 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 65% |
| Most Limiting Factor | | K |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Optimal | 0.1% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.592 |
| Optional test (buffer pH) | Unit | 6.551 |
| Water Soluble Carbon | mg kg | 367 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 133 |
| Aluminum, Extractable | mg kg | 189 |
| Iron, Extractable (Optional) | mg kg | 22 |

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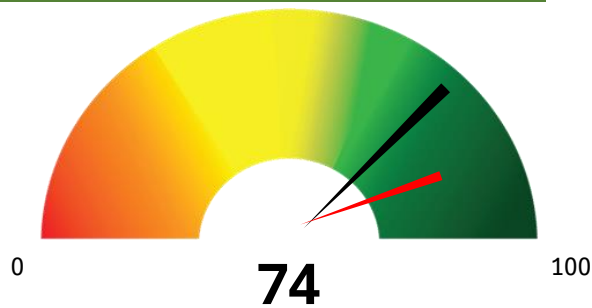
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United States

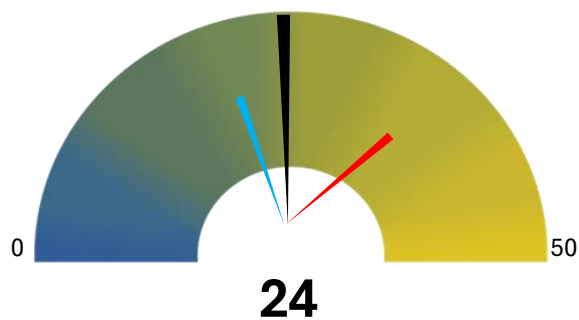
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree222 T5 R8 Z20
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 64.9 | Optimal |
| Solvita Response | (0 - 5) | 3.91 | Medium |
| Soil Amino-N | ppm | 103 | Medium |
| Crumb Aggregates | Vol % | 19 | Low |
| Scoop Bulk Density | g/cc | 0.97 | Optimal |
| Total Carbon | % | 1.670 | Medium |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P2O5 | K2O | |
| Soil Supply: | 80 | 54 | 821 | 32,287 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 25 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 10.6 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



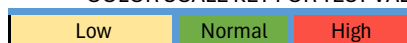
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 75 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 80 |
| Likelihood of N-Response based on Org-N | Rating | Moderate |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 12 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.8 |
| Potassium - Extractable K | mg kg | 354 |
| Calcium - Extractable Ca | mg kg | 959 |
| Magnesium - Extractable Mg | mg kg | 168 |
| Sodium - Extractable Na | mg kg | 17 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 14.6% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.805 |
| Optional test (buffer pH) | Unit | 6.653 |
| Water Soluble Carbon | mg kg | 369 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 115 |
| Aluminum, Extractable | mg kg | 256 |
| Iron, Extractable (Optional) | mg kg | 33 |

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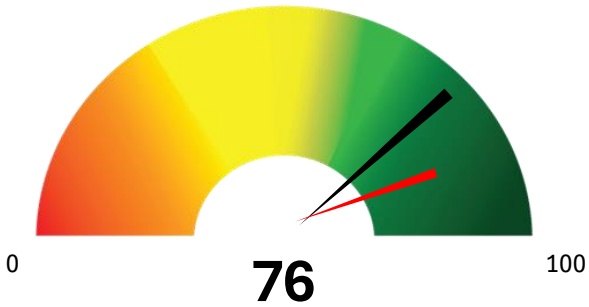
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United States

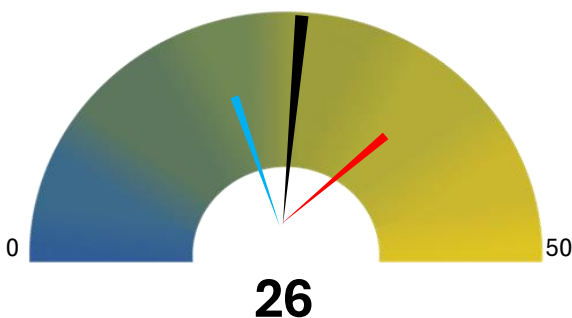
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree230 T1 R9 Z1
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 115.3 | High |
| Solvita Response | (0 - 5) | 4.58 | High |
| Soil Amino-N | ppm | 59 | Medium |
| Crumb Aggregates | Vol % | 20 | Low |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 1.340 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 137 | 68 | 798 | 26,264 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 53 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Normal | Excess | 11.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



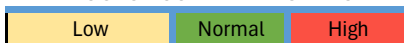
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|----------|--------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 133 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 137 |
| Likelihood of N-Response based on Org-N | Rating | Likely |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 15 |
| Phosphorus - Carbonate Ext-P | mg kg | 1.1 |
| Potassium - Extractable K | mg kg | 339 |
| Calcium - Extractable Ca | mg kg | 1066 |
| Magnesium - Extractable Mg | mg kg | 158 |
| Sodium - Extractable Na | mg kg | 16 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 13.1% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.645 |
| Optional test (buffer pH) | Unit | 6.593 |
| Water Soluble Carbon | mg kg | 406 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 159 |
| Aluminum, Extractable | mg kg | 270 |
| Iron, Extractable (Optional) | mg kg | 58 |

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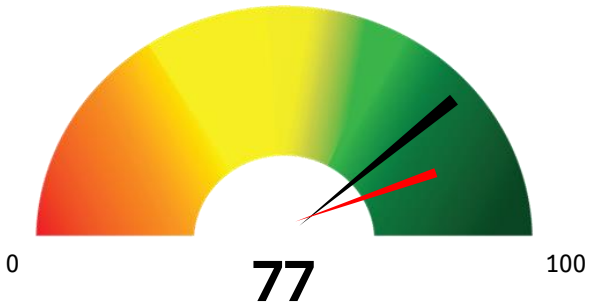
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United States

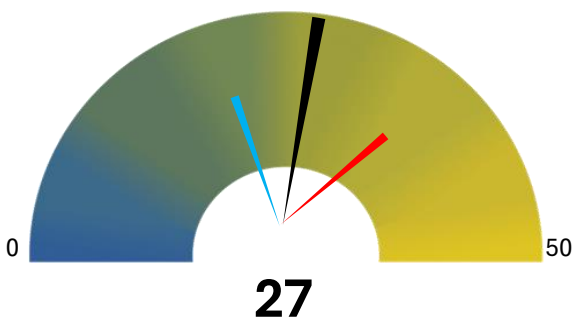
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree234 T1 R8 Z1
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 102.2 | High |
| Solvita Response | (0 - 5) | 4.42 | High |
| Soil Amino-N | ppm | 120 | Medium |
| Crumb Aggregates | Vol % | 31 | Medium |
| Scoop Bulk Density | g/cc | 0.96 | Optimal |
| Total Carbon | % | 1.740 | Medium |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 125 | 629 | 210 | 33,408 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 25 | 0 | 0 | Est CEC, meq |
| Other Notations | Low Status | Excess | Normal | 12.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



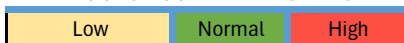
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

10% Legume 90% Grass/Non-Legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|--|---------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 4 |
| Est. Seasonal Biological N-Release | lb/a | 118 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 125 |
| Likelihood of N-Response based on Org-N | Rating | Moderate |
| Extractable Nutrients | | |
| Phosphorus , Extractable P | mg kg | 142 |
| Phosphorus - Carbonate Ext-P | mg kg | 1.0 |
| Potassium - Extractable K | mg kg | 91 |
| Calcium - Extractable Ca | mg kg | 1411 |
| Magnesium - Extractable Mg | mg kg | 246 |
| Sodium - Extractable Na | mg kg | 19 |
| Rating Factors | | |
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Optimal | 2.6% |
| Other Factors | | |
| pH in water 1:1 | Unit | 6.670 |
| Optional test (buffer pH) | Unit | 6.673 |
| Water Soluble Carbon | mg kg | 333 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 84 |
| Aluminum, Extractable | mg kg | 276 |
| Iron, Extractable (Optional) | mg kg | 90 |

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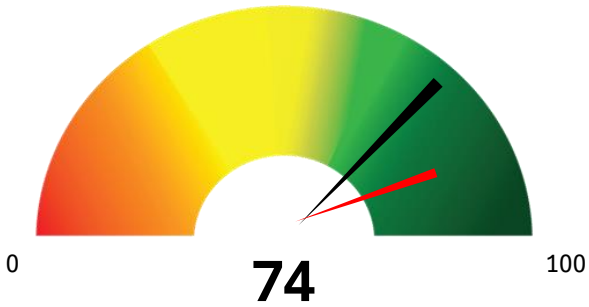
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United States

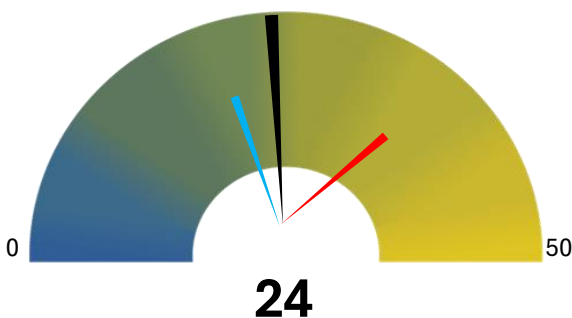
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Rainfall / Zone: 40 / APPALACHIAN HIGHLANDS
Soil Orders: Inceptisol-Udepts / Alfisol-Aqualfs / *
Your Sample: Soil: Tree238 T2 R9 Z2
Received / Reported: 09/Apr/24 | 28/May/24
Intended Crop: General Crops

| Soil Health Panel | Units | | RANKING: |
|--------------------|----------|-------|----------|
| Microbial Rate | ppm | 100.1 | High |
| Solvita Response | (0 - 5) | 4.42 | High |
| Soil Amino-N | ppm | 107 | Medium |
| Crumb Aggregates | Vol % | 22 | Low |
| Scoop Bulk Density | g/cc | 0.98 | Optimal |
| Total Carbon | % | 1.470 | Med-Low |

| Nutrients as: lb/a | Interpretative Guidelines | | | Est Carbon: lb/a |
|--------------------|---------------------------|--------|--------|------------------|
| | N | P205 | K2O | |
| Soil Supply: | 121 | 37 | 867 | 28,812 |
| Crop Use: | 75 | 35 | 35 | |
| Difference: | 0 | 0 | 0 | |
| Suggested Need | 25 | 35 | 0 | Est CEC, meq |
| Other Notations | Low Status | Ex Low | Excess | 10.7 |



OVERALL FERTILITY SCORE
YOUR VALUE IS BLACK. RED LINE IS REGION-EXPECTED TARGET



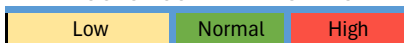
SOIL HEALTH SCORE
YOUR VALUE IS BLACK POINTER.
BLUE is Minimum and RED is Optimal Target
Color range based on Solvita Color Scale

Green Manure/Cover Crop Recommendations

Types of Inter-planting Blends Suggested:

20% Legume 80% Grass/Non-legume

COLOR SCALE KEY FOR TEST VALUES



(warning may be either too high or too low)

NUTRIENT PANEL

| Analysis | Units | RESULT |
|---|--------|----------|
| Climate Zone at this Location | ZONE | 5 |
| Nitrogen as readily soluble NO3-N | ppm | 3 |
| Est. Seasonal Biological N-Release | lb/a | 115 |
| PMN (Avail. + N-Min) Nitrogen Potential | lb/a | 121 |
| Likelihood of N-Response based on Org-N | Rating | Moderate |

Extractable Nutrients

| | | |
|------------------------------|-------|-----|
| Phosphorus , Extractable P | mg kg | 8 |
| Phosphorus - Carbonate Ext-P | mg kg | 0.9 |
| Potassium - Extractable K | mg kg | 369 |
| Calcium - Extractable Ca | mg kg | 898 |
| Magnesium - Extractable Mg | mg kg | 133 |
| Sodium - Extractable Na | mg kg | 40 |

Rating Factors

| | | |
|--|----------|-------|
| Nutrient Index, Scale 0 - 100 | Rating | 100% |
| Most Limiting Factor | | None |
| Cation Balance (Molar Ratio: K ÷ [Ca + Mg]) | Marginal | 16.9% |

Other Factors

| | | |
|--------------------------------|-------|-------|
| pH in water 1:1 | Unit | 6.578 |
| Optional test (buffer pH) | Unit | 6.601 |
| Water Soluble Carbon | mg kg | 252 |
| Water Soluble C:N (WSOC:NO3-N) | Unit | 82 |
| Aluminum, Extractable | mg kg | 80 |
| Iron, Extractable (Optional) | mg kg | 23 |

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