| Date: 5/23/12 | | | | | | |
|--------------------------|---------------|------------|------------|------------|---------------|-------------|
| Sample: Prairie Sample | 2 5 | | Notes abou | It sample: | This sampl | e was taker |
| ALL BACTERIAL, FUNGA | | OAN ASSES | | | | |
| | | | | | | |
| Dilution used: | or bacteria | | | | | Could stop |
| Field # | 1 | 2 | 3 | 4 | 5 | 6 |
| Bacterial # | 7 | 4 | 6 | 13 | 11 | 9 |
| | | | | | | |
| Actinobacteria | | | | | | |
| | | | | | | |
| Bacterial | | | | | | |
| size/shape | | | | | | |
| | | | | | | |
| Dilution used for fungi: | | 1 to 5 | | | | |
| Fungal | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| Diameters µm | | | | | | |
| (visual average) | | | | | | |
| Color | | | | | | |
| | | | | | | |
| Dilution used for protoz | zoa: | 1 to 5 | | | | |
| Flagellates | 0 | 0 | 0 | 0 | 0 | 0 |
| Amoeba | 0 | 0 | 0 | 0 | 0 | 0 |
| Ciliates | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| Nematode Scan of slide | e at 1:5 dilu | ition | | | | |
| Bacterial Feeders | 0 | | | | | |
| Fungal Feeders | 0 | | | | | |
| Predatory | 0 | | | | | |
| Root Feeders | 0 | | | | | |
| | | | | | | |
| Note Microarthropods | | | | | | |
| What to look for in resu | ults- | | | | | |
| Bacteria | | | | | | |
| Bacteria should always | be above 2 | 200,000,00 | 0 | | | |
| Always require more th | | | | hy systems | s, unless we | eds desire |
| Less than 300 ug, will h | | | | | | |
| F:B BASED ON THE P | | | | | | |
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| | | | | CILIATES S | HOULD NO | T BE PRESE |
| | | | | | ES AND AM | |
| conv ag | _ | | | | o good nen | |
| weeds | _ | | | - |).7 per field | |
| | | | | | | |

| annuals:; vegetables | - | 1 to 1.5 per field IN SPRING |
|----------------------|---|------------------------------------|
| productive pasture: | - | 1.5 to 5 per field IN GROWING SE |
| shrubs, decid forest | - | 3 or more per field through the g |
| conifer/old growth | - | EITHER 1 to 2 protozoa per field (|

| | | | | | | | TEST YOUR |
|----------------|-------------|---------------|------------|--------------|------------|-------------|--------------|
| n from the b | eginning o | f a tall gras | s patch ne | xt to a bare | dry spot n | ear the nor | particular c |
| ION | | | | | | | Equation ir |
| | | | | | | | |
| at 5 fields fo | or bacteria | | | | | | |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 8 | 6 | 7 | 13 | 10 | 13 | 15 | 10 |
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| d | | | | | | | |
| ve trouble p | orotecting | roots | | | | | |
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| NT | | | | | | | |
| | | | NEMATODE | | | | |
| | | | Root-feede | rs present | | | |
| | | | Koot-feede | rs typically | present | | |

| | At least 1 bacterial feeder and possibly fungal feeders |
|------------------|---|
| ASON | 1 - 2 bacterial feeder and possibly fungal feeders prese |
| rowing season OR | 1 to 5 bacterial-feeders, 1 to 3 fungal-feeders; 1 predat |
| DR | 1 to 5 bacterial-feeders, 1 to 3 fungal-feeders; 1 predat |

| | 1 drop of s | ample mul | tiply by 20 d | rops in a m | าไ | | |
|----------|-------------|-------------|---------------|--------------|------------|------------------------|-----------------|
| | | | 0 drops in a | | | | |
| Column Y | is determin | ned by your | drops and t | he size of v | our covers | lip al | |
| | | | | , | | | |
| | | | | | | Mean | StDev |
| 15 | 16 | 17 | 18 | 19 | 20 | of 20 fields | otb of |
| 15 | | | 8 | 10 | 16 | | 4 |
| 15 | 10 | | 0 | 10 | 10 | 10 | |
| | | | | | | #DIV/0! | #DIV/0! |
| | | | | | | <i>"DIV</i> 70. | |
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| | | | | | | Moon # fur | al strands |
| 0 | 0 | 0 | 0 | 0 | 0 | Mean # fung 0.00 | al strands 0 |
| 0 | 0 | 0 | 0 | 0 | | | |
| | | | | | | Mean # fung #DIV/0! | al diameter |
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| ory nemate | ode desirat | le | | | |

| PICK COVERSLIP | 1600 fields in 18 X 18 mm | | |
|------------------------------------|---|---------------------------------|-----------|
| SIZE | $2000 = 22 \times 18 \text{ mm}$ | | |
| > | $2000 = 22 \times 10$ mm $2025 = 22 \times 22$ | | |
| | | | |
| | VERSLIP, DROP FACTOR IN | | |
| ADJUST X COLUMB | | | |
| Dilution | Organisms per gram | Micrograms per g or ml | |
| 10000 | 2,116,125,000 | 4232 | 1 bacte |
| | | | |
| 10000 | #DIV/0! | #DIV/0! | |
| | | | |
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| | | #DIV/0! | |
| | Europal strands por gram | Micrograms of fungi per gm of | |
| 10 | | | |
| 10 | 0 | , v | I cubic c |
| E a la carla a cara del a l'arte d | | CHANGE Z 16 DIAMETER FACT | |
| Enter the multiplicat | ion factor manually from tr | e chart, into equation for fung | |
| | | Fungal to Bacterial Biomass R | atio F |
| | | | 0 |
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| ED ON HYPHAE AVG DIAMETER READING WITH TABLE BELOW Image: Constant of the second s | |
| 16):Avg diameter Mult factor Image: Mult factor : B 2 0.0052 Image: Mult factor ### 2.5 0.0081 Image: Mult factor ### 3 0.0117 Image: Mult factor 3.5 0.0159 Image: Mult factor Image: Mult factor 4 0.0207 Image: Mult factor Image: Mult factor 4.5 0.0262 Image: Mult factor Image: Mult factor 4.5 0.0262 Image: Mult factor Image: Mult factor 5.5 0.0324 Image: Mult factor Image: Mult factor 6 0.0466 Image: Mult factor Image: Mult factor 6 0.0547 Image: Mult factor Image: Mult factor | _ |
| B 2 0.0052 Image: Constraint of the second se | _ |
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