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BACK POCKET - '91 MISC. METADATA
<table>
<thead>
<tr>
<th>FIELD</th>
<th>DESCRIPTION</th>
<th>% COVER</th>
<th>AVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-1</td>
<td>Corn in Min Till Corn Res</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-2</td>
<td>Corn in No Till Beans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-3W</td>
<td>Beans in No Till Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-4</td>
<td>Corn in No Till Bean/Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-5</td>
<td>Beans in Min Till Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-6</td>
<td>Corn E&amp;W, Freshly Cultivated</td>
<td>Unknown</td>
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</tr>
<tr>
<td>3-7</td>
<td>Trees, Grass, Weeds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-8</td>
<td>Beans in Min Till Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-9</td>
<td>Corn in No Till Bean/Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-10</td>
<td>Beans in Min Till Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-11</td>
<td>Beans in Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-12</td>
<td>Wheat in Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-13</td>
<td>Beans in Corn Res</td>
<td>Dead: 43, 40, 33</td>
<td></td>
</tr>
<tr>
<td>3-14</td>
<td>Alfalfa</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-15</td>
<td>Beans in Corn Res</td>
<td>Dead: 0 live, Unknown</td>
<td></td>
</tr>
<tr>
<td>3-16</td>
<td>Corn in Min Till Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-17</td>
<td>Corn in Straw Res/Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-18</td>
<td>Beans in No Till Straw Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-19</td>
<td>Pasture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-20</td>
<td>Beans in Corn Res</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-21</td>
<td>Grass, Weeds, Small Bushes</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-22</td>
<td></td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-23</td>
<td>Grass in Unharvested Corn</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-24</td>
<td>Grass</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-25E</td>
<td>Grass Yard</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-26W</td>
<td>Grass in Unharvested Corn</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-27</td>
<td>Hay</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-28</td>
<td>Field's, Grass, Trees</td>
<td>Unknown</td>
<td></td>
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<tr>
<td>3-29</td>
<td>Corn in No Till Bean/Corn Res</td>
<td>Unknown</td>
<td></td>
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<tr>
<td>3-30</td>
<td>Beans in Min Till Corn Res</td>
<td>Unknown</td>
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</tr>
<tr>
<td>3-31</td>
<td>Field's Grass</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-32</td>
<td>Power Substitution</td>
<td>Unknown</td>
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</tr>
<tr>
<td>3-32A</td>
<td>Grass Strip</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>FIELD</td>
<td>DESCRIPTION</td>
<td>% COVER</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>3-33</td>
<td>(Same as 3-32) Corn in bean res</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-34</td>
<td>Corn in no till bean/corn res, dead: 23, 27, 33</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-35</td>
<td>Grass, woods, houses</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-36</td>
<td>Oats</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-37</td>
<td>Alfalfa</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-38</td>
<td>Trees, old dry grass, weeds</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-39</td>
<td>Beans in no till corn res</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-40</td>
<td>Grass</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-41</td>
<td>Woods, pasture, bldg</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-42</td>
<td>Beans in min till corn res</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-43</td>
<td>Beans in min till corn res</td>
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<td></td>
</tr>
<tr>
<td>3-44</td>
<td>Corn in clean till bean res</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-45</td>
<td>Houses, grass</td>
<td>Unknown</td>
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<tr>
<td>3-46</td>
<td>Grass</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-47</td>
<td>Woods, grass, trees</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-49</td>
<td>Houses, grass, road</td>
<td>Unknown</td>
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<tr>
<td>3-38</td>
<td>Beans in no till corn res, patches of dry grass, dead: 23</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-25W</td>
<td>Weeds</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-26</td>
<td>Woods</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>3-50</td>
<td>Pasture</td>
<td>Unknown</td>
<td></td>
</tr>
</tbody>
</table>
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: 3

Field Number: 3-1

Field Data Collected by: [Names]

Date of Collection: 6-13 Time of Day: 9:35 A.M.

Topography: Sandy Tillage

Soils:
- Roughness: Smooth 2-3" clods
- Moisture Conditions: ______
- Texture: ______ Organic Matter Content: ______
- Residue Type: Corn % Residue Cover: ______
- Tillage System: Clean: ______ Minimum: X No-Till: ______
- Fresh Tilled: No Rain Since Last Tillage: Yes X No
- Surface Condition: Crusted X Non-Crusted ______

Comments: (uniform, eroded spots, other) ______

Vegetative Canopy:
- Species: Corn /N-S-E 30% stand % Green Cover: ______
- Plant Height: 6-14" Plant Density: 20'-25' 26'-30'
- Phenological Stage: 6-26#_2000
- Weed Infestation: (amount, kind) Very few / some grass

Understory Vegetation: No

Comments:
- 12 - Town Corn Row (123)
- 14 - Varied (124)
- 12 - Osipgord W (125)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ___________________________ Site Number: 3

Field Number: 34

Field Data Collected by: M. Basinger, S. D. Field

Date of Collection: 6-13 Time of Day: 9:40

Topography: Flat to slightly rolling

Soils:
- Roughness: 1-4" lumpy
- Moisture Conditions: Dry
- Texture: __________
- Organic Matter Content: __________
- Residue Type: Broccoli__ % Residue Cover: __________
- Fresh Tilled: __X__ Rain Since Last Tillage: Yes X No
- Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other)

Vegetative Canopy:
- Species: Corn 6 in rows 30" % Green Cover: __________
- Plant Height: 6-15" Plant Density: 20'-24' 26'-28'
- Phenological Stage: 5-7 kernel
- Weed Infestation: (amount, kind) None

Understory Vegetation:

Comments: 5-13 - Invasive
14 - Vernal
55 - 78 - Dunes (136)
127
128

One spot in middle with planted 6 rows for
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________ Site Number: __________
Field Number: 3 - Wetland
Field Data Collected by: Larry Reed

Date of Collection: 6/13 Time of Day: 1:35
Topography: gently rolling

Soils:
Roughness: 1-2
Texture: __________ Organic Matter Content: __________
Residue Type: Corn % Residue Cover: __________
Tillage System: Clean: ______ Minimum: ______ No-Till: X
Fresh Tilled: No Rain Since Last Tillage: Yes X No
Surface Condition: Crusted X Non-Crusted
Comments: (uniform, eroded spots, other) __________

Vegetative Canopy:
Species: Sycamore % Green Cover: __________
Plant Height: 2-3" Plant Density: __________
Phenological Stage: 1 trepitale
Weed Infestation: (amount, kind) Same Milkweed

Understory Vegetation: None
Comments: 29 - To Smith 30 - Vertical 31 - SE

3-3W
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ___________________________ Site Number: 39

Field Number: 3-3 East Plant

Field Data Collected by: ____________

Date of Collection: 8-17 Time of Day: 1:58

Topography: gently rolling

Soils:

Roughness: 1-2 "clay" Moisture Conditions: dry

Texture: ______________ Organic Matter Content: __________

Residue Type: corn % Residue Cover: __________

Tillage System: Clean: _____ Minimum: _____ No-Till: x

Fresh Tilled: No Rain Since Last Tillage: Yes x No

Surface Condition: Crusted x Non-Crusted

Comments: (uniform, eroded spots, other)

Vegetative Canopy:

Species: Soybeans 8" % Green Cover: __________

Plant Height: 1-2" Plant Density: __________

Phenological Stage: 1st trifoliate just emerging

Weed Infestation: (amount, kind) Grass, weeds

Understory Vegetation: patchy areas of guess that have been

Comments:

E. 34 to S. E. 35

S. 36 to S. W. end of point.

W. 34 to N. end of point.
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: 3

Field Number: 34

Field Data Collected by: X. E. Miller

Date of Collection: 6-13 Time of Day: 2:13

Topography: Gently Rolling

Soils:

Roughness: some 1-2" clods Moisture Conditions: mid-dry

Texture: ______________ Organic Matter Content: ______________

Residue Type: Soybean/Covered Am A % Residue Cover: __________

Tillage System: Clean: ____ Minimum: ____ No-Till: X

Fresh Tilled: No Rain Since Last Tillage: Yes X No

Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) ________________________

Vegetative Canopy:

Species: corn % Green Cover: __________

Plant Height: 8-11" Plant Density: 20' 30 30 33

Phenological Stage: 4-6 leaves

Weed Infestation: (amount, kind) some Palmer amaranth

Understory Vegetation:

Comments: 1. No 2. "Victor" no grass (134)

2. To South (135)

3. To SE (136)

4. Vertical with grass (137)

5. South end of 326 (138) (3-26)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ___________________ Site Number: 3

Field Number: 3-5 The number 3-5 is incorrect. It is probably 3-4.

Field Data Collected by: [Signature]

Date of Collection: 6-14 Time of Day: 3:00

Topography: [Signature]

Soils:

Roughness: [Signature] Moisture Conditions: [Signature]

Texture: [Signature] Organic Matter Content: [Signature]

Residue Type: [Signature] % Residue Cover: [Signature]

Tillage System: Clean: ______ Minimum: [Signature] No-Till: [Signature]

Fresh Tilled: [Signature] Rain Since Last Tillage: Yes [Signature] No

Surface Condition: Crusted [Signature] Non-Crusted [Signature]

Comments: (uniform, eroded spots, other) [Signature]

Vegetative Canopy:

Species: [Signature] % Green Cover: [Signature]

Plant Height: 3-7" Plant Density: [Signature]

Phenological Stage: 3rd trifoliate just emerging

Weed Infestation: (amount, kind) [Signature]

Understory Vegetation: [Signature]

Comments: 9-12 70 5

13 10 5

14 [Signature]

15 [Signature]

3-41 wooded area with buildings [Signature]
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________  Site Number: 3

Field Number: 3-6

Field Data Collected by: ________________________________

Date of Collection: ________________  Time of Day: __________

Topography: ________________________________

Soils:

Roughness: ________________  Moisture Conditions: ________________

Texture: ________________  Organic Matter Content: ________________

Residue Type: ________________  % Residue Cover: ________________

Tillage System: Clean: ______  Minimum: ______  No-Till: ______

Fresh Tilled: ______  Rain Since Last Tillage: Yes  No

Surface Condition: Crusted: ______  Non-Crusted: ______

Comments: (uniform, eroded spots, other) ____________________________

__________________________

Vegetative Canopy:

Species: Corn  % Green Cover: ________________

Plant Height: ________________  Plant Density: __________________

Phenological Stage: __________________

Weed Infestation: (amount, kind) __________________

__________________________

Understory Vegetation: __________________

Comments: __________________

__________________________
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 7

Field Data Collected by: MELT, BIEHL, THILLER

Date of Collection: 11/5 Time of Day: 

1. Description of terrain/topography: 

2. Tillage Information:
   System: Clean_____ Minimum_____ No-Till_____
   Fresh tilled_____ Rain since last tillage: Yes_____ No____
   Crusted_____ Non-crusted_____ 

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop Oil weeds % Grass 1990 crop_____
   Percent residue cover__________

4. Soils Information:
   Surface roughness__________ Moisture conditions__________
   Texture__________ Organic Matter content__________

5. Information on Green Vegetative Cover:
   Species Trees, grass, weeds % Green cover________
   Row direction__________ Row width__________
   Plant height__________ Plant density__________
   Phenological stage__________
   Weed infestation (amount, kind)__________
   Understory vegetation:__________

6. Comments: (photo documentation)
   Similar to field 3.38
   Photos # 32, 33 < which Roll?
   (251) 25 Vertical 14 3-7
   (252) 26 To W 14 3-7
   (253) 27 To NW 14 3-7
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ________________ Site Number: 3

Field Number: 33 38

Field Data Collected by: HB

Date of Collection: 6-13 Time of Day: 3:01

Topography: gently rolling

Soils:

- Roughness: 1-2" clods
- Moisture Conditions: airy
- Texture: __________ Organic Matter Content: __________
- Residue Type: Grain % Residue Cover: __________
- Tillage System: Clean: _____ Minimum: X No-Till: _____
- Fresh Tilled: _____ Rain Since Last Tillage: Yes X No_
- Surface Condition: Crusted X Non-Crusted _____
- Comments: (uniform, eroded spots, other) ______________

Vegetative Canopy:

- Species: Soybeans 8" young E-W
- % Green Cover: __________
- Plant Height: 2-3" Plant Density: 94 plants/sq ft
- Phenological Stage: 1st True Leaf, Small Leaves
- Weed Infestation: (amount, kind) few scattered weeds

Understory Vegetation:

- Comments: 7-15 70% Lush
- 7-16 75% Slight
- 7-17 vigorous

Evidence of some damage in right corner of AVIRIS.

(176) E. South End of 3-8
(177) NE. South End of 3-8
(174) Vertical South End of 3-8
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: 3

Field Number: 3-9

Field Data Collected by: [Signature]

Date of Collection: 6-13 Time of Day: 4:40

Topography: Flat to gently rolling

Soils:
- Roughness: smooth with 3-4" clods where corn planted
- Moisture Conditions: clay
- Texture: ____________ Organic Matter Content: ____________
- Residue Type: Silty clay loam % Residue Cover: ____________
- Fresh Tilled: No Rain Since Last Tillage: Yes x No____
- Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) ______________________

Vegetative Canopy:
- Species: Corn 30" row crop E-W % Green Cover: ____________
- Plant Height: 5'-12" Plant Density: 20'-19', 25', 31', 24'
- Phenological Stage: 5-6 leaves
- Weed Infestation: (amount, kind) scattered, fall bermudagrass

Understory Vegetation:
- Comments: 8'-12' TD Turf (181) ? ORCHIDAE
- 13 TD ME (142)
- 14 Vertical (183)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________ Site Number: 3

Field Number: 3-10

Field Data Collected by: ____________________

Date of Collection: 6-13 Time of Day: 3:56

Topography: Barely Rolling

Soils:

Roughness: 1"  % Residue Cover: __________

Moisture Conditions: __________

Texture: __________ Organic Matter Content: __________

Residue Type: Corn No-Till: ______

Tillage System: Clean: ______ Minimum: ______ No-Till: ______

Fresh Tilled: ______ Rain Since Last Tillage: Yes No

Surface Condition: Crusted X Non-Crusted ______

Comments: (uniform, eroded spots, other) ____________________________

Vegetative Canopy:

Species: Soybeans __________ % Green Cover: ______

Plant Height: 4-5" Plant Density: ______

Phenological Stage: ______

Weed Infestation: (amount, kind) __________

Understory Vegetation: ______

(229) from N end of 3-10 to south

Coments:

(230) from N end of 3-10 to SE

(315) 70 N

(36) 12' S

Scrub

Soybean in sprout
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________ Site Number: 3

Field Number: 3/1

Field Data Collected by: GBuell

Date of Collection: 6-13 Time of Day: 4:07

Topography: gently rolling

Soils:

Roughness: 1-2" Clods Moisture Conditions: dry

Texture: ___________ Organic Matter Content: ___________

Residue Type: Corn cob % Residue Cover: ___________

Tillage System: Clean: _____ Minimum: X No-Till: _____

Fresh Tilled: No Rain Since Last Tillage: Yes X No

Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) ragged looking field has been disturbed weeds grass and other dead soybeans leaves show some damage

Vegetative Canopy:

Species: soybeans 7" rows % Green Cover: __________

Plant Height: 3-5" Plant Density: __________

Phenological Stage: 2nd trifoliolatebearing

Weed Infestation: (amount, kind) a few Incl. weeds

Understory Vegetation:

Comments: 8-1 Verwalt (200) (170)

2 to North (250) (270)

3 to NE (200) (170)

Appears to be a part of field 3-8
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ______________________ Site Number: 3

Field Number: 3-12

Field Data Collected by: [Handwritten]

Date of Collection: 6-18 Time of Day: 4:58

Topography: _________ Rolling

Soils:

Roughness: smooth with crisscrossed ground Moisture Conditions: dry

Texture: _________ Organic Matter Content: _________

Residue Type: Corn % Residue Cover: _________

Tillage System: Clean: _____ Minimum: _________ No-Till: X

Fresh Tilled: No Rain Since Last Tillage: Yes X No

Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) _________

Note 5 half inch deep channels, color more golden

Vegetative Canopy:

Species: Wheat % Green Cover: _________

Plant Height: 32-36" Plant Density: _________

Phenological Stage: headed

Weed Infestation: (amount, kind) very few seeds and weeds

Understory Vegetation: [Handwritten]

Comments: 5-15 trees [Handwritten]

[Handwritten] 3-19 3-19 [Handwritten]

[Handwritten] 1-7 Wind

[Handwritten] 18 10-20 miles 3-19

[Handwritten] (184) (185) (186)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: 9-10 W
Field Number: 313
Field Data Collected by: A. Bunnemann, J. Bolte, D. Bole

Date of Collection: ________________ Time of Day: ________________
Topography: Flat to slightly undulating

Soils:
Roughness: 2-3" clods Moisture Conditions: Dry
Texture: __________ Organic Matter Content: ________________
Residue Type: Corn % Residue Cover: Very little
Tillage System: Clean: X Minimum: ______ No-Till: ______
Fresh Tilled: No Rain Since Last Tillage: Yes X No
Surface Condition: Crusted X Non-Crusted
Comments: (uniform, eroded spots, other) ________________________

Vegetative Canopy:
Species: Dressed Greens % Green Cover: ________________
Plant Height: 2-4" Plant Density: _______________________
Phenological Stage: 2 Triphial Stage
Weed Infestation: (amount, kind) Moderately weedy grass

Understory Vegetation:
Comments: Beans damaged by strip pre-plant (grass)
5-16 7o am
17/5 Bible Veranda
19 tv
20 Verdana Boss & Winky
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ___________________  Site Number: 3

Field Number: 3-14

Field Data Collected by: L. Reid

Date of Collection: 6-13  Time of Day: 2:53

Topography: Gently Rolling

Soils:
- Roughness: Smooth  Moisture Conditions: Air dry
- Texture: __________  Organic Matter Content: __________
- Residue Type: __________  % Residue Cover: __________
- Fresh Tilled: ______  Rain Since Last Tillage: Yes____ No____
- Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other)

Vegetative Canopy:
- Species: Alfalfa  % Green Cover: __________
- Plant Height: __________  Plant Density: __________
- Phenological Stage: __________
- Weed Infestation: (amount, kind)

Understory Vegetation:

Comments: recently cut and buried

7-4-12  12 North

7-4-13  To NW

7-4-14  Vertical
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: 3
Field Number: 3/15 Austrian potato of 3-6
Field Data Collected by: Z. Bush

Date of Collection: 6-13 Time of Day: 3:34
Topography: Gently Rolling

Soils:
- Roughness: ½-2" humps
- Moisture Conditions: Peaty
- Texture:__________
- Organic Matter Content:__________
- Residue Type: Some Corn Head to Tell
- % Residue Cover:__________
- Tillage System: Clean: X Minimum:____ No-Till:_____ Fresh Tilled: Nip Rain Since Last Tillage: Yes X No
- Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) fairly uniform

Vegetative Canopy:
- Dug
- Species: Soybeans PIW 7" rows
- % Green Cover:____
- Plant Height: ½-2" Plant Density:____
- Phenological Stage: 1st Infants, just emerging
- Weed Infestation: (amount, kind) Some pubes of grasses

Understory Vegetation:

Comments: 126 to West (see ground Aug 2)
24 to NN
30 Vertical (corn clear area)
31 Vertical dense grass growth
32 - To East across 3-6
33 - To NE across 3-6
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: __________

Field Number: 316 May 13 315

Field Data Collected by: J. Budil

Date of Collection: 8-13 Time of Day: 3:25

Topography: Gently Rolling

Soils:

Roughness: Smooth to 2" cloddy Moisture Conditions: Air Dry

Texture: ______________ Organic Matter Content: ____________

Residue Type: Green % Residue Cover: __________

Tillage System: Clean: _____ Minimum: X No-Till: _______

Fresh Tilled: Yes Rain Since Last Tillage: Yes No

Surface Condition: Crusted _____ Non-Crusted __________

Comments: (uniform, eroded spots, other) ______________________

Vegetative Canopy:

Species: Corn EW 30" % Green Cover: __________

Plant Height: 12-16" Plant Density: 20'-30' 30' 24' 76

Phenological Stage: 7-8 leaves

Weed Infestation: (amount, kind) None

Understory Vegetation:

Comments: 9-24 7' W

25 7' SW

26 Vertical mow talked

27 Vertical mow not talked

May have been mowed Friday
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: _______________ Site Number: __3__
Field Number: __3-17__
Field Data Collected by: __Budel__

Date of Collection: __6-13__ Time of Day: __9:11__
Topography: __Sandy Rolling__

Soils:
- Roughness: Smooth to 1-2" clods
- Moisture Conditions: _______________
- Texture: _______________ Organic Matter Content: _______________
- Residue Type: __Wheat Stem 1 year corn__ % Residue Cover: _______________
- Tillage System: Clean: __________ Minimum: __X_ 70 No-Till: __X__
- Fresh Tilled: __No__ Rain Since Last Tillage: Yes __X__ No __________
- Surface Condition: Crusted __X__ Non-Crusted _______________
- Comments: (uniform, eroded spots, other) __Fairly uniform__

Vegetative Canopy:
- Species: __Corn FW 30" rows__ % Green Cover: _______________
- Plant Height: __14"__ Plant Density: __20-24 28,34 70__
- Phenological Stage: __5-7 Kansas__
- Weed Infestation: (amount, kind) __None; Some smaller__
- _canada thistle_

Understory Vegetation:

<table>
<thead>
<tr>
<th>Comments</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-21</td>
<td>70 W</td>
</tr>
<tr>
<td>22</td>
<td>10 NW</td>
</tr>
<tr>
<td>23</td>
<td>Vertical</td>
</tr>
<tr>
<td>24</td>
<td>Stool (main strip) on SW side of field</td>
</tr>
</tbody>
</table>
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ___________________ Site Number: ___

Field Number: 3-18

Field Data Collected by: __________

Date of Collection: 6-13 Time of Day: 5:30

Topography: gently rolling

Soils:

Roughness: 2-3 seeds Moisture Conditions: average

Texture: __________ Organic Matter Content: __________

Residue Type: wheat straw % Residue Cover: ______

Tillage System: Clean:_______ Minimum:_______ No-Till: x

Fresh Tilled: No Rain Since Last Tillage: Yes x No

Surface Condition: Crusted x Non-Crusted

Comments: (uniform, eroded spots, other) ___________________________

Vegetative Canopy:

Species: Soybeans % Green Cover: __________

Plant Height: 4 - 7 inches Plant Density: __________

Phenological Stage: __________

Weed Infestation: (amount, kind) severe weed + gram patches

Understory Vegetation: None

Comments: 8 - 25 No Weat (194)

26 7 36 (195)

27 Vicia (196)

28 Vicia (197)
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 19

Field Data Collected by: HOLT, BIEHL, THILLER

Date of Collection: 11/5/92 Time of Day: 

1. Description of terrain/topography: 

2. Tillage Information:
   System: Clean____ Minimum_____ No-Till_____
   Fresh tilled____ Rain since last tillage: Yes____ No____
   Crusted_________ Non-crusted_________ 

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop_________ 1990 crop_________
   Percent residue cover_________

4. Soils Information:
   Surface roughness________ Moisture conditions________
   Texture__________ Organic Matter content_________

5. Information on Green Vegetative Cover:
   Species_________ PASTURE % Green cover________
   Row direction_________ Row width________
   Plant height________ Plant density________
   Phenological stage__________
   Weed infestation (amount, kind)__________
   Understory vegetation:__________

6. Comments: (photo documentation)
   (187) TO SE ACROSS 3-19 FROM NW CORNER OF 3-12
   (188) TO E ACROSS 3-19
   (189) 415° ANGLE 3-19
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________ Site Number: 3

Field Number: 3-20

Field Data Collected by: J.B. K.B

Date of Collection: 6-14 Time of Day: 2:14

Topography: Flat to slightly rolling

Soils:

Roughness: 1-3" clods Moisture Conditions: Cbriefly dry

Texture: ______________ Organic Matter Content: ____________

Residue Type: Cawn % Residue Cover: __________

Tillage System: Clean: X Minimum: ______ No-Till: ______

Fresh Tilled: No Rain Since Last Tillage: Yes X No

Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) fairly uniform

Vegetative Canopy:

Species: soybean 7" flowers % Green Cover: __________

Plant Height: 3-6" Plant Density: __________

Phenological Stage: 2nd leaflate and emerging

Weed Infestation: (amount, kind) a few patches of grass

Understory Vegetation: Field has been sprayed for weeds

Comments:

- 5 J. W. North

6 J. W. (211)

2 Vertical: (213)

This is a field of 5+0
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name:____________________ Site Number:____3____

Field Number:____3-21____

Field Data Collected by:_________________________

Date of Collection:____6-13____ Time of Day:____4:37____

Topography:_____________________

Soils:

Roughness:______________ Moisture Conditions:______________

Texture:______________ Organic Matter Content:______________

Residue Type:______________ % Residue Cover:______________

Tillage System: Clean:_____ Minimum:_____ No-Till:_____

Fresh Tilled:_______ Rain Since Last Tillage: Yes____ No____

Surface Condition: Crusted_______ Non-Crusted_______

Comments: (uniform, eroded spots, other)____________________

______________________________ 3-38 ______________________

Vegetative Canopy:

Species:____GRASS, WEEDS, SMALL BUSHES____ % Green Cover:______________

Plant Height:______________ Plant Density:______________

Phenological Stage:______________

Weed Infestation: (amount, kind)________________________

______________

Understory Vegetation:

Comments:____8-10 TO SE FROM NW (179)____

______________________________ 11 TO E (180) ______________________
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 22

Field Data Collected by: HELT, BICHL, THELLER

Date of Collection: 11/5/92 Time of Day: ______________

1. Description of terrain/topography: ____________________________

2. Tillage Information:
   System: Clean____ Minimum_____ No-Till_____
   Fresh tilled_____ Rain since last tillage: Yes_____ No____
   Crusted_____________ Non-crusted____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop__________ 1990 crop__________
   Percent residue cover______________

4. Soils Information:
   Surface roughness__________ Moisture conditions________
   Texture______________ Organic Matter content_____

5. Information on Green Vegetative Cover:
   Species ___________ Weeds, Bushes % Green cover_________
   Row direction___________ Row width________________________
   Plant height__________ Plant density_______________________
   Phenological stage_________________
   Weed infestation (amount, kind)________________________
   Understory vegetation: ________________________________

6. Comments: (photo documentation) ________________

_____________________________________________________
_____________________________________________________
_____________________________________________________
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Field Data Collected by:______________________________

Date of Collection:______________ Time of Day:______________

1. Description of terrain/topography:________________________

2. Tillage Information:
   System: Clean____ Minimum____ No-Till_____
   Fresh tilled_____ Rain since last tillage: Yes____ No____
   Crusted______________ Non-crusted____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop__________ 1990 crop__________
   Percent residue cover_____________

4. Soils Information:
   Surface roughness___________ Moisture conditions_________
   Texture________________________ Organic Matter content_____

5. Information on Green Vegetative Cover:
   Species ___________ % Green cover____________
   Row direction______________ Row width_____________
   Plant height________ Plant density_____________
   Phenological stage____________________
   Weed infestation (amount, kind)____________________
   Understory vegetation:__________________________

6. Comments: (photo documentation)________________________

______________________________
______________________________
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 254

Field Data Collected by: ________________________________

Date of Collection: _______________ Time of Day: _______________

1. Description of terrain/topography: ________________________________

2. Tillage Information:
   System: Clean____ Minimum____ No-Till____
   Fresh tilled____ Rain since last tillage: Yes____ No____
   Crusted_______________ Non-crusted_______________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop________ 1990 crop________
   Percent residue cover______________

4. Soils Information:
   Surface roughness________ Moisture conditions________
   Texture________ Organic Matter content________

5. Information on Green Vegetative Cover:
   Species________ % Green cover________
   Row direction____________ Row width____________
   Plant height_______ Plant density________
   Phenological stage________
   Weed infestation (amount, kind)________
   Understory vegetation: ________________________________

6. Comments: (photo documentation) ________________________________
   Grassy yard, short mowed
   "post is overgrown w/ weeds"
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION ON 12 JUNE 1992 OVER TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 25 W

Field Data Collected by: ____________________________________________

_________________________________________  Time of Day: ______________

Date of Collection: ____________________

1. Description of terrain/topography: ____________________________________

2. Tillage Information:
   System: Clean____  Minimum____  No-Till_____
   Fresh tilled_____  Rain since last tillage: Yes____  No____
   Crusted________________  Non-crusted________________

3. Information on Crop Residue on Surface:
   Residue type:  1991 crop________  1990 crop________
   Percent residue cover________

4. Soils Information:
   Surface roughness________  Moisture conditions________
   Texture________________  Organic Matter content________

5. Information on Green Vegetative Cover:
   Species____  WEEDS____  % Green cover________________
   Row direction______________  Row width________
   Plant height________  Plant density________
   Phenological stage________
   Weed infestation (amount, kind)________________________
   Understory vegetation: ________________________________________

6. Comments:(photo documentation)______________________________

_________________________________________________________________

_________________________________________________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ______________ Site Number: ______________

Field Number: 926  West Paris  East half is Woods.

Field Data Collected by: Larry Bold__________________________

Date of Collection: 6-13 Time of Day: 1:50

Topography: ____________________________________________

Soils:

Roughness: ______________ Moisture Conditions: __________

Texture: ______________ Organic Matter Content: __________

Residue Type: Corn  % Residue Cover: ______________

Tillage System: Clean: ______ Minimum: ______ No-Till: ______

Fresh Tilled: ______ Rain Since Last Tillage: Yes__ No__

Surface Condition: Crusted________ Non-Crusted________

Comments: (uniform, eroded spots, other) __________________________________________

Vegetative Canopy:

Species: Gray-look Area___ % Green Cover: __________

Plant Height: __________ Plant Density: ______________

Phenological Stage: ________________________________

Weed Infestation: (amount, kind) ____________________________

Understory Vegetation:

Comments: #32 To North West part of 326 N END

#33 To North West part of 326 S END

6-5 S side of 3-26 looking from 3-4 (38)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: Select Site

Field Number: 1Y7SW 5 of Agency Run 4/12/34

Field Data Collected by: ZBuid

Date of Collection: 6/13 Time of Day: Around Jam

Topography: 

Soils:

- Roughness: 
- Moisture Conditions: 
- Texture: 
- Organic Matter Content: 
- Residue Type: 
- % Residue Cover: 
- Tillage System: Clean: ____ Minimum: ____ No-Till: ____
- Fresh Tilled: ____ Rain Since Last Tillage: Yes ____ No ____
- Surface Condition: Crusted ____ Non-Crusted ____

Comments: (uniform, eroded spots, other)

Vegetative Canopy:

- Species: HAY
- % Green Cover: 
- Plant Height: 
- Plant Density: 
- Phenological Stage: 
- Weed Infestation: (amount, kind)

Understory Vegetation:

Comments: Of hay fields which were in understory study,

(198) 8-29.70 NE Field Map #3-27

(199) 8-30 70 NE 2 fields on E side of road

(200) 8-31 70 NE Field Map #3-27
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Field Data Collected by:__________________________

Site No:_____________  Field No: 28

Date of Collection:______________  Time of Day:______________

1. Description of terrain/topography:__________________________

2. Tillage Information:
   System: Clean_______  Minimum_______  No-Till_______
   Fresh tilled_______  Rain since last tillage: Yes_______  No_______
   Crusted_____________  Non-crusted_____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop_________  1990 crop_________
   Percent residue cover___________

4. Soils Information:
   Surface roughness_________  Moisture conditions_________
   Texture_______________  Organic Matter content____

5. Information on Green Vegetative Cover:
   Species BUDS, GRASS TREES  % Green cover________
   Row direction_____________  Row width__________
   Plant height_________  Plant density_____________
   Phenological stage_____________
   Weed infestation (amount, kind)____________
   Understory vegetation:_____________________

6. Comments: (photo documentation)

______________________
______________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________  Site Number: 3

Field Number: 3-29

Field Data Collected by: 2 B  M B

Date of Collection: 6-14  Time of Day: 7:37

Topography: gently rolling

Soils:
- Roughness: 1-4" clods  Moisture Conditions: anhydrous
- Texture:  Organic Matter Content:
- Residue Type: Bean - 1 year corn  % Residue Cover:
- Tillage System: Clean:    Minimum:    No-Till: X
- Fresh Tilled: No  Rain Since Last Tillage: Yes X  No
- Surface Condition: Crusted X  Non-Crusted

Comments: (uniform, eroded spots, other)

Vegetative Canopy:
- Species: corn 30% with E. weego  % Green Cover:
- Plant Height: 8-20"  Plant Density: 22,000/22
- Phenological Stage: 4-7 leaves

Weed Infestation: (amount, kind)  Some A. plantago, patches of
- Understory Vegetation: None
- Comments: (222) 9-16 Til Eastern Sugar Mosa"corn in N half of
- (223) 17 to SE
- (224) 18 to East No mosa"corn
- (225) 19 - V. bedell
- (226) 20 -
- (227) 21 -
- (228) 22 - V. bedell (very bedell)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: ____________

Field Number: 330

Field Data Collected by: __________

Date of Collection: 6-13 Time of Day: 3:19

Topography: gently rolling

Soils:
Roughness: 1-4
Moisture Conditions: ________________
Texture: ________________ Organic Matter Content: ________________
Residue Type: Corn % Residue Cover: ________________
Tillage System: Clean: ______ Minimum: ______ No-Till: ______
Fresh Tilled: No Rain Since Last Tillage: Yes No
Surface Condition: Crusted ______ Non-Crusted ______

Comments: (uniform, eroded spots, other) __________________________

Vegetative Canopy:
Species: soybeans 6' rows % Green Cover: ________________
Plant Height: 2-3" Plant Density: ________________
Phenological Stage: 1st trifoliate leaf emergence
Weed Infestation: (amount, kind) none

Understory Vegetation: __________________________

Comments: 7-18 70% South
19 70% SE
20 Vertical
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Field Data Collected by:

Date of Collection: ________________ Time of Day: ________________

1. Description of terrain/topography: ________________________________

2. Tillage Information:
   System: Clean____ Minimum______ No-Till______
   Fresh tilled____ Rain since last tillage: Yes____ No____
   Crusted____________ Non-crusded____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop___________ 1990 crop___________
   Percent residue cover___________

4. Soils Information:
   Surface roughness__________ Moisture conditions__________
   Texture_______________ Organic Matter content________

5. Information on Green Vegetative Cover:
   Species___________________ % Green cover______________
   Row direction______________ Row width______________
   Plant height________ Plant density__________________
   Phenological stage_________
   Weed infestation (amount, kind)______________
   Understory vegetation: ____________________________

6. Comments: (photo documentation) ____________________________
   ____________________________
   ____________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION ON 12 JUNE 1992 OVER TIPPECANOE COUNTY, INDIANA

Field Data Collected by: ____________________________

Date of Collection: _______________ Time of Day: _______________________

2/32 / 3/32A

1. Description of terrain/topography: Substation Grass Strip

2. Tillage Information:
   System: Clean____ Minimum____ No-Till_____
   Fresh tilled____ Rain since last tillage: Yes____ No____
   Crusted____________ Non-crusted____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop___________ 1990 crop___________
   Percent residue cover____________

4. Soils Information:
   Surface roughness________ Moisture conditions________
   Texture____________ Organic Matter content____________

5. Information on Green Vegetative Cover:
   Species________________ % Green cover____________
   Row direction____________ Row width____________
   Plant height_________ Plant density____________
   Phenological stage____________
   Weed infestation (amount, kind)____________
   Understory vegetation:_________________

6. Comments: (photo documentation)_________________

   9.1 VERTICAL (207)

   9-2 TO N FROM S. SIDE OF SUBSTATION (208)

   9-3 TO W GRASS AREA ON S. SIDE, SUBSTATION (209)

   9-4 TO NE FROM SW CORNER OF SUBSTATION (210)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ? Site Number: 3
Field Number: 332 Monthly 8-12
Field Data Collected by: Larry Bildt, M. Brandt, J. Rauh, G. Bildt

Date of Collection: 6-13 Time of Day: 7:12 am
Topography: Flat to slightly rolling

Soils:
Roughness: Slightly to Medium Moisture Conditions: Fairly Dry
Texture: Medium Organic Matter Content:
Residue Type: Bright % Residue Cover: 25%
Tillage System: Clean: Minimum: No-Till:
Fresh Tilled: Rain Since Last Tillage: Yes No
Surface Condition: Crusted Non-Crusted
Comments: (uniform, eroded spots, other)

Vegetative Canopy:
Species: Grass % Green Cover:
Plant Height: Plant Density:
Phenological Stage: 9-10 leaves
Weed Infestation: (amount, kind) none

Understory Vegetation: None
Comments: Field 4 - #37 lost unit
5 - #1 Vertical
5 - #2 Diagonal
6 - 1 Vertical (20")
9-2 to north from S. side of Substation (20")
9-3 to W. grass area on S. side of Substation (20")
9-4 to NE from SW corner of Substation (210")
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: 32

Field Number: 3-7-3

Field Data Collected by: M. Cunnersday, T. McDevitt, T. McDevitt

__________________________

Date of Collection: ________________ Time of Day: ________________

Topography: Slightly rolling

Soils:

Roughness: ________________ Moisture Conditions: ________________

Texture: ________________ Organic Matter Content: ________________

Residue Type: Bean % Residue Cover: __________%

Tillage System: Clean: _____ Minimum: ___ No-Till: ______

Fresh Tilled: NO Rain Since Last Tillage: Yes X No

Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) __________________________

Vegetative Canopy:

Species: Corn 70% + others % Green Cover: ________________

Plant Height: 10"-11" Plant Density: 20'-19'/7'3"/25'

Phenological Stage: 6-7 Den 

Weed Infestation: (amount, kind) None

__________________________

Understory Vegetation: None

Comments: 5 - 6 3 - To North Dense Herb 4 - Vehield 5 - MW

__________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ___________________________ Site Number: __3__________

Field Number: 334

Field Data Collected by: M. Brunsgaard & B. D. N. Field

Date of Collection: ________________ Time of Day: 9:30am ________________

Topography: Flat - Slightly Rolling

Soils:
- Roughness: 1-2 in clods
- Moisture Conditions: Fair
- Texture: ____________
- Organic Matter Content: ____________
- Residue Type: Barnyard Grass 50% Residue Cover: ____________
- Tillage System: Clean:______ Minimum:______ No-Till:______
- Fresh Tilled: NO Rain Since Last Tillage: Yes _____ No____
- Surface Condition: Crusted____ Non-Crusted ______
- Comments: (uniform, eroded spots, other) Light colored, eroded

Vegetative Canopy:
- Species: Corn 30% Corn 5-10% % Green Cover: ____________
- Plant Height: 6-12 in Plant Density: 20'-27" 27 27 27
- Phenological Stage: 5-6 leaves
- Weed Infestation: (amount, kind) Somewhat Wavy

Understory Vegetation: None

Comments: 5- 4- V. t. 4- V. v. 4- V. 5- V. w. 4- V. w. 4- V. w.
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION ON 12 JUNE 1992 OVER TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 35

Field Data Collected by: ________________________________

Date of Collection: _______________ Time of Day: _______________

1. Description of terrain/topography: ________________________________

2. Tillage Information:
   System: Clean____ Minimum____ No-Till_____
   Fresh tilled____ Rain since last tillage: Yes____ No____
   Crusted_________________ Non-crusted_________________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop________ 1990 crop________
   Percent residue cover_________________

4. Soils Information:
   Surface roughness_________ Moisture conditions_________
   Texture___________________ Organic Matter content_____

5. Information on Green Vegetative Cover:
   Species GRASS, WOODS, HOSES ______ % Green cover________
   Row direction_____________ Row width_____________
   Plant height________ Plant density________
   Phenological stage_________________
   Weed infestation (amount, kind)_________________
   Understory vegetation: ____________________________

6. Comments: (photo documentation)_____________________________

______________________________
_____________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________  Site Number: 3

Field Number: 36B-3-36

Field Data Collected by: Z. Bidel

Date of Collection: 6/13  Time of Day: 3:18

Topography: gently rolling

Soils:
  Roughness: 12°  Moisture Conditions:________________
  Texture:_____________  Organic Matter Content:________
  Residue Type: Corn  % Residue Cover:____________
  Tillage System: Clean:_____  Minimum: X  No-Till:______
  Fresh Tilled: No  Rain Since Last Tillage: Yes X  No____
  Surface Condition: Crusted X  Non-Crusted____

Comments: (uniform, eroded spots, other)______________________________

Vegetative Canopy:
  Species: Small Grain/Small Cals?  % Green Cover:________
  Plant Height: 6'-10"  Plant Density:____________
  Phenological Stage: 4-5 (cover) tillering
  Weed Infestation: (amount, kind) scattered, muliwaxc

Understory Vegetation:

Comments: 7-21  7B south

2.2  7B south

2.5  Vertical

GRASS STRIP IN N PART OF 3-36
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Field Data Collected by:

Date of Collection: ________________ Time of Day: ________________

1. Description of terrain/topography: ________________________________

2. Tillage Information:
   System: Clean______ Minimum______ No-Till______
   Fresh tilled______ Rain since last tillage: Yes______ No______
   Crusted_________________ Non-crusted_________________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop_______ 1990 crop_______
   Percent residue cover_________________

4. Soils Information:
   Surface roughness________ Moisture conditions________
   Texture________________ Organic Matter content________

5. Information on Green Vegetative Cover:
   Species ALFALFA/GEISS % Green cover________________
   Row direction_____________ Row width_________________
   Plant height__________ Plant density________________
   Phenological stage_________________
   Weed infestation (amount, kind)________________
   Understory vegetation:________________

6. Comments: (photo documentation)________________
   __________________________
   __________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________ Site Number: __________

Field Number: __________

Field Data Collected by: ____________________

Date of Collection: __________ Time of Day: __________

Topography: ____________________

Soils:

Roughness: Smooth with Creep

Moisture Conditions: Air Dry

Texture: ______________ Organic Matter Content: ____________

Residue Type: Old/Weeds % Residue Cover: ____________

Tillage System: Clean: ______ Minimum: ______ No-Till: ______

Fresh Tilled: No____ Rain Since Last Tillage: Yes X No____

Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) Ruins planted(3 rows) with milo(2) 30" high

Vegetative Canopy:

Species: Trees % Green Cover: ____________

Plant Height: ____________ Plant Density: ____________

Phenological Stage: ____________

Weed Infestation: (amount, kind) ____________

Understory Vegetation: Ground cover/wood/leaf etc

Comments: 8-4 70 N

__________________________

(174) 5 to NE

(177) 6 Vertical

(176) 7 to East 5 and 3-8

(173) 8 to NE 0 and 3-8

(178) Vertical 5 and 3-8
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ______________________ Site Number: 3

Field Number: 3-39

Field Data Collected by: L. Precel, N. Precel

Date of Collection: 6-14 Time of Day: 2:31

Topography: Flat

Soils:

Roughness: Sandy soil Moisture Conditions: ____________

Texture: ____________ Organic Matter Content: ____________

Residue Type: Corn % Residue Cover: ____________

Tillage System: Clean: ______ Minimum: ______ No-Till: X

Fresh Tilled: NO Rain Since Last Tillage: Yes X No

Surface Condition: Crusted X Non-Crusted

Comments: (uniform, eroded spots, other) uniform

Vegetative Canopy:

Species: Soybeans % Green Cover: ____________

Plant Height: 3-6" Plant Density: ____________

Phenological Stage: 2 trifoliate

Weed Infestation: (amount, kind) Some patches of green which

were brown

Understory Vegetation: Field was sprayed with herbicide

Comments: 9-8 To South Crown (2-14)

9 To SW (2-15)

10 Vertical (2-16)

11 3-18 from N to S

FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 46

Field Data Collected by: ____________________________

Date of Collection: __________ Time of Day: __________

1. Description of terrain/topography: __________________________

2. Tillage Information:
   System: Clean____ Minimum____ No-Till_____
   Fresh tilled____ Rain since last tillage: Yes____ No____
   Crusted_____________ Non-crusted_____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop_______ 1990 crop_______
   Percent residue cover_________

4. Soils Information:
   Surface roughness_________ Moisture conditions________
   Texture_____________ Organic Matter content________

5. Information on Green Vegetative Cover:
   Species ( Craigslist) % Green cover__________
   Row direction_____________ Row width______________
   Plant height_______ Plant density______________
   Phenological stage______________
   Weed infestation (amount, kind)___________
   Understory vegetation:____________________

6. Comments: (photo documentation)____________________

9-11 3:40 from N side to S. (217)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION ON 12 JUNE 1992 OVER TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 41

Field Data Collected by:______________________________

__________________________________________________

Date of Collection:__________________  Time of Day:__________________

1. Description of terrain/topography:____________________

2. Tillage Information:
   System: Clean____  Minimum____  No-Till_____
   Fresh tilled_____  Rain since last tillage: Yes____  No_____  
   Crusted_____________  Non-crusted________________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop_________  1990 crop_________
   Percent residue cover______________

4. Soils Information:
   Surface roughness________  Moisture conditions________
   Texture__________________  Organic Matter content______

5. Information on Green Vegetative Cover:
   Species Woody/Pasture, BLDG's & Green cover_____________
   Row direction_____________  Row width______________
   Plant height_________  Plant density__________
   Phenological stage________________________
   Weed infestation (amount, kind)_____________________
   Understory vegetation:_____________________________

6. Comments: (photo documentation)_______________________

__________________________________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________  Site Number: 3

Field Number: 35  Workside  3-4% Workside

Field Data Collected by: [Handwritten]

Date of Collection: 6-13  Time of Day: 2:26

Topography: [Handwritten]

Soils:
- Roughness: 1-4" clods
- Moisture Conditions: dry
- Texture: ________
- Organic Matter Content: ________
- Residue Type: Bean/1yr can  % Residue Cover: ________
- Fresh Tilled: Y  Rain Since Last Tillage: Yes X No
- Surface Condition: Crusted X  Non-Crusted ________

Comments: (uniform, eroded spots, other) ________

Vegetative Canopy:
- Species: Can  36" rows  % Green Cover: ________
- Plant Height: 6-12"  Plant Density: 206-2527 92
- Phenological Stage: 4-6 leaves
- Weed Infestation: (amount, kind) Some grass, "spiders"
  also patches of small thistle

Understory Vegetation:

Comments:
- [Handwritten]

- [Handwritten]
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ____________________ Site Number: __3____
Field Number: 3-42 East Side  3-42 East Side
Field Data Collected by: E. Bell

Date of Collection: 6-13 ________ Time of Day: 2:35 ______
Topography: gently rolling

Soils:
Roughness: ___________ Moisture Conditions:___________
Texture:___________ Organic Matter Content:___________
Residue Type: ___________ % Residue Cover:___________
Tillage System: Clean:_______ Minimum:________ No-Till: __X__
Fresh Tilled: __No__ Rain Since Last Tillage: Yes__X__ No____
Surface Condition: Crusted __________ Non-Crusted ______
Comments: (uniform, eroded spots, other)________________________

Vegetative Canopy:
Species: Sphagnum __________ % Green Cover:___________
Plant Height: __3'__ Plant Density:__________
Phenological Stage: __2-tribulate
Weed Infestation: (amount, kind) lots of grass, other weeds

Understory Vegetation:

Comments: _______ _______ _______ _______ _______

10 to SE

9 to South

11 sidewalk replacement found
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ______________________ Site Number: 3

Field Number: 3-43

Field Data Collected by: L. Field

Date of Collection: 6-14 Time of Day: 5:35

Topography: Flat to slightly rolling

Soils:

Roughness: 1-5" cloudy Moisture Conditions: dry

Texture: __________ Organic Matter Content: __________

Residue Type: corn % Residue Cover: __________

Tillage System: Clean: ______ Minimum: X No-Till: ______

Fresh Tilled: ______ Rain Since Last Tillage: Yes No

Surface Condition: Crusted Non-Crusted X

Comments: (uniform, eroded spots, other) Mud can see some soil erosion/crop seems uniform

Vegetative Canopy:

Species: Soybeans 30 in rows N/S % Green Cover: __________

Plant Height: 4-5' Plant Density: 10'-72 90

Phenological Stage: 2-3 In Pilifer

Weed Infestation: (amount, kind) Some patches of no穗 weed maybe silver lining

Understory Vegetation:

Comments: 9-24 to North (234)

24 to NW (235)

30 vertical (236)

31 vertical (237)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: _______________ Site Number: __3__

Field Number: 3-44

Field Data Collected by: W Reid

Date of Collection: 6-14 Time of Day: 5:49

Topography: Moderately Rolling

Soils:
Roughness: 1-3 "loamy" Moisture Conditions: ____________
Texture: ____________ Organic Matter Content: ____________
Residue Type: Corn % Residue Cover: ____________
Tillage System: Clean: ______ Minimum: X No-Till: ______
Fresh Tilled: No Rain Since Last Tillage: Yes X No
Surface Condition: Crusted X Non-Crusted ____________
Comments: (uniform, eroded spots, other) Fairly uniform

Vegetative Canopy:
Species: Sinistrum 30" No 5 % Green Cover: ____________
Plant Height: 3-4" Plant Density: 10"-32" 54 24 27
Phenological Stage: 2 Bifoliate
Weed Infestation: (amount, kind) Scattered patches of mullein, squill
Comments: Q-32 - Boom Ready on top of 3-44 (238)
33 - to north (239)
34 - to north (240)
35 - needle Some Bean just emerging (241)
36 - needle needs rain (242)
37 - to west (243)
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ___________________________ Site Number: ________________

Field Number: 3-45 NE of 3-44

Field Data Collected by: ________________

Date of Collection: 6-14 Time of Day: 6:05

Topography: Flat to slightly rolling

Soils:

Roughness: 1-2" clods to 5" smooth
Moisture Conditions: ________________

Texture: ________________ Organic Matter Content: ________________

Residue Type: Beans % Residue Cover: ________________

Tillage System: Clean: x Minimum: _______ No-Till: _______
Fresh Tilled: _____ Rain Since Last Tillage: Yes x No __________

Surface Condition: Crusted x Non-Crusted x

Comments: (uniform, eroded spots, other) Large field appears uniform from 5 end.

Vegetative Canopy:

Species: Corn % Green Cover: ________________

Plant Height: 16-20" Plant Density: 20, 27, 26, 27

Phenological Stage: 7-8 leaves

Weed Infestation: (amount, kind) scattered stubweeds

Understory Vegetation: None.

Comments: 10 - Vertical (244)

- 2 Tall (245)

- 3 of which (246)

- 4 Vertical/meetly tilted (247)
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 46

Field Data Collected by: BIEHL, HEET, THELLER

Date of Collection: 11/5/92
Time of Day: ______________

1. Description of terrain/topography: HOUSES, GRASS

2. Tillage Information:
   System: Clean______ Minimum______ No-Till______
   Fresh tilled______ Rain since last tillage: Yes______ No______
   Crusted______________ Non-crusted____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop__________ 1990 crop__________
   Percent residue cover__________

4. Soils Information:
   Surface roughness__________ Moisture conditions__________
   Texture______________ Organic Matter content________

5. Information on Green Vegetative Cover:
   Species_________________ % Green cover________________
   Row direction____________ Row width______________
   Plant height___________ Plant density______________
   Phenological stage____________
   Weed infestation (amount, kind)______________
   Understory vegetation:______________

6. Comments: (photo documentation)________________
   ____________________________
   ____________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION ON 12 JUNE 1992 OVER TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 417

Field Data Collected by: [Signature]

Date of Collection: _______________ Time of Day: _______________

1. Description of terrain/topography: ______________________________

2. Tillage Information:
   System: Clean_____ Minimum_____ No-Till______
   Fresh tilled_____ Rain since last tillage: Yes_____ No_____
   Crusted_____________ Non-crusted_____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop___________ 1990 crop___________
   Percent residue cover______________

4. Soils Information:
   Surface roughness___________ Moisture conditions___________
   Texture____________________ Organic Matter content_________

5. Information on Green Vegetative Cover:
   Species Grass % Green cover_____________________
   Row direction________________ Row width_________________
   Plant height 24"-30" Plant density_________________
   Phenological stage__________________________
   Weed infestation (amount, kind)_________________________
   Understory vegetation: _______________________________

6. Comments: (photo documentation) _______________________________
   ____________________________________________________
   ____________________________________________________
   ____________________________________________________
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Site No: 3
Field No: 48

Field Data Collected by: HELT

Date of Collection: 11/5/92 Time of Day:

1. Description of terrain/topography: HOUSES, GRASS, TREES

2. Tillage Information:
   System: Clean_____ Minimum_____ No-Till_____ 
   Fresh tilled_____ Rain since last tillage: Yes_____ No____
   Crusted____________ Non-crusted____________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop___________ 1990 crop___________
   Percent residue cover______________

4. Soils Information:
   Surface roughness___________ Moisture conditions________
   Texture_____________ Organic Matter content_______

5. Information on Green Vegetative Cover:
   Species__________________ % Green cover__________________
   Row direction______________ Row width____________
   Plant height__________ Plant density________________ ______
   Phenological stage________________
   Weed infestation (amount, kind)____________
   Understory vegetation:________________

6. Comments: (photo documentation)__________________________

   ________________________________
   ________________________________
   ________________________________
   ________________________________
FIELD DATA COLLECTION IN SUPPORT OF
AVIRIS MISSION ON 12 JUNE 1992 OVER
TIPPECANOE COUNTY, INDIANA

Field Data Collected by: ________________________________

Site No: 3  Field No: 49

Date of Collection: _______________  Time of Day: _______________

1. Description of terrain/topography: ____________________________

2. Tillage Information:
   System: Clean____  Minimum____  No-Till____
   Fresh tilled____  Rain since last tillage: Yes____  No____
   Crusted_______________  Non-crusted________________

3. Information on Crop Residue on Surface:
   Residue type: 1991 crop__________  1990 crop__________
   Percent residue cover____________

4. Soils Information:
   Surface roughness__________  Moisture conditions__________
   Texture___________________  Organic Matter content______

5. Information on Green Vegetative Cover:
   Species___________________  % Green cover______________
   Row direction______________  Row width______________
   Plant height_________  Plant density______________
   Phenological stage______________
   Weed infestation (amount, kind)______________
   Understory vegetation: __________________________

6. Comments: (photo documentation)______________________________

_________________________________________________________________
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: __________________________ Site Number: ______________

Field Number: 4-5

Field Data Collected by: Z. Bickel

Date of Collection: 6-13 Time of Day: 5:57

Topography: moderately rolling

Soils:

Roughness: 1-2 "dolos" Moisture Conditions: ______________

Texture: Sandy Loam Organic Matter Content: ______________

Residue Type: 2 % Residue Cover: ______________

Tillage System: Clean: ______ Minimum: ______ X No-Till: ______

Fresh Tilled: ______ Rain Since Last Tillage: Yes ______ X No_____

Surface Condition: Crusted ______ X Non-Crusted ______

Comments: (uniform, eroded spots, other) fairly uniform except

Vegetative Canopy:

Species: Corn 30° E-W % Green Cover: ______________

Plant Height: 2-3 ft Plant Density: 20' - 34' 2' - 7' 26

Phenological Stage: 6 leaves

Weed Infestation: (amount, kind) four patches of grass in

Understory Vegetation: ______

Comments: 8-32 To w.

8-33 To sw

5-34 Vertical
FIELD DATA COLLECTION IN SUPPORT OF AVIRIS MISSION

Site Name: ______________ Site Number: ____________
Field Number: 4-6
Field Data Collected by: [Signature]

Date of Collection: 6-13 Time of Day: 6:05
Topography: moderately rolling

Soils:
- Roughness: 9-3" clods
- Moisture Conditions: ____________
- Texture: ____________ Organic Matter Content: ____________
- Residue Type: [Signature] % Residue Cover: ____________
- Tillage System: Clean: ______ Minimum: X No-Till: ______
- Fresh Tilled: No Rain Since Last Tillage: Yes X No
- Surface Condition: Crusted X Non-Crusted ______

Comments: (uniform, eroded spots, other) leufoam

________________________________________________________

Vegetative Canopy:
- Species: [Signature] % Green Cover: ____________
- Plant Height: 12" Plant Density: ____________
- Phenological Stage: 5 leaves
- Weed Infestation: (amount, kind) very few

________________________

Understory Vegetation:

Comments: 8-35 To East

8-36 Vertical

8-37 To SE

6/13/98

[Handwritten note: Cutting land for fencing, very slow, conditions hard]
- Picture of dad's wedding dress.
- Picture of my mom.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
- Picture of me.
3-30
3-31
3-32
3-33
3-34
3-35  Picture of? Grass/Wood/Buildings
3-36
3-37  Picture
3-38
3-39
3-40  Carline Picture Only
3-41  Texas/Wood/Buildings
3-42

3-43
3-44
3-45
3-46  Cray/Deer/Cow
3-47  Grass (Tall) 24-10" 
3-48  Picture on 6/15 3-49  Grass/Brush/Trees
3-49  2013 Pasture Areas