

Crop Formation: Vienna, NY, 1994

Laboratory Code: KS-02-84

Material: Sweet Corn with intact husks, *Zea mays*

Formation: at Vienna, NY; first seen Aug. 14, 1994 ("storm came thru area in early afternoon"), samples collected Aug. 20, 1994 by Mr. Ron Taylor, 8292 Oswego Rd., Baldwinsville, NY 13027. The sampling locations and other information are provided on the attached diagram from Mr. Taylor.

Laboratory Results:

Samples received at the lab. on 8-24-94 - husks removed and ears placed on a large tray for drying (on the cob) at ambient temperature. After approximately six weeks of this slow drying, the seeds were removed and a germination test conducted. In addition, the parenchyma tissue in the central region of the ear was examined for cell wall pit fields.

<u>Sample</u>	<u>Cell Pits (micron)</u>			<u>7-day Seedling cm</u>		
	<u>Ave.</u>	<u>sd</u>	<u>N</u>	<u>Ave.</u>	<u>sd</u>	<u>N</u>
Cont. #6	3.64	0.88	30	6.62	4.27	12
Samp. #1	4.12*	0.89	30	9.98*	3.14	20
Samp. #2	4.21	0.89	30	11.73*	2.92	20
Samp. #3	3.60	0.98	30	12.20*	1.61	20
Samp. #4	4.87*	1.67	30	10.86*	1.43	20
Samp. #5	5.50*	1.06	30	10.05	3.69	20

*-P<0.05

Conclusions:

It is quite apparent from the above data that there were very significant increases in both the cell wall pits and the seedling growth. Sample #5 taken around 4 ft. from the edge of the formation indicates that the "spill over" effect was present. The alterations in the internal characteristics of the plants were typical of those observed in other crops such as wheat, barley, oats, etc., and as observed in other countries.

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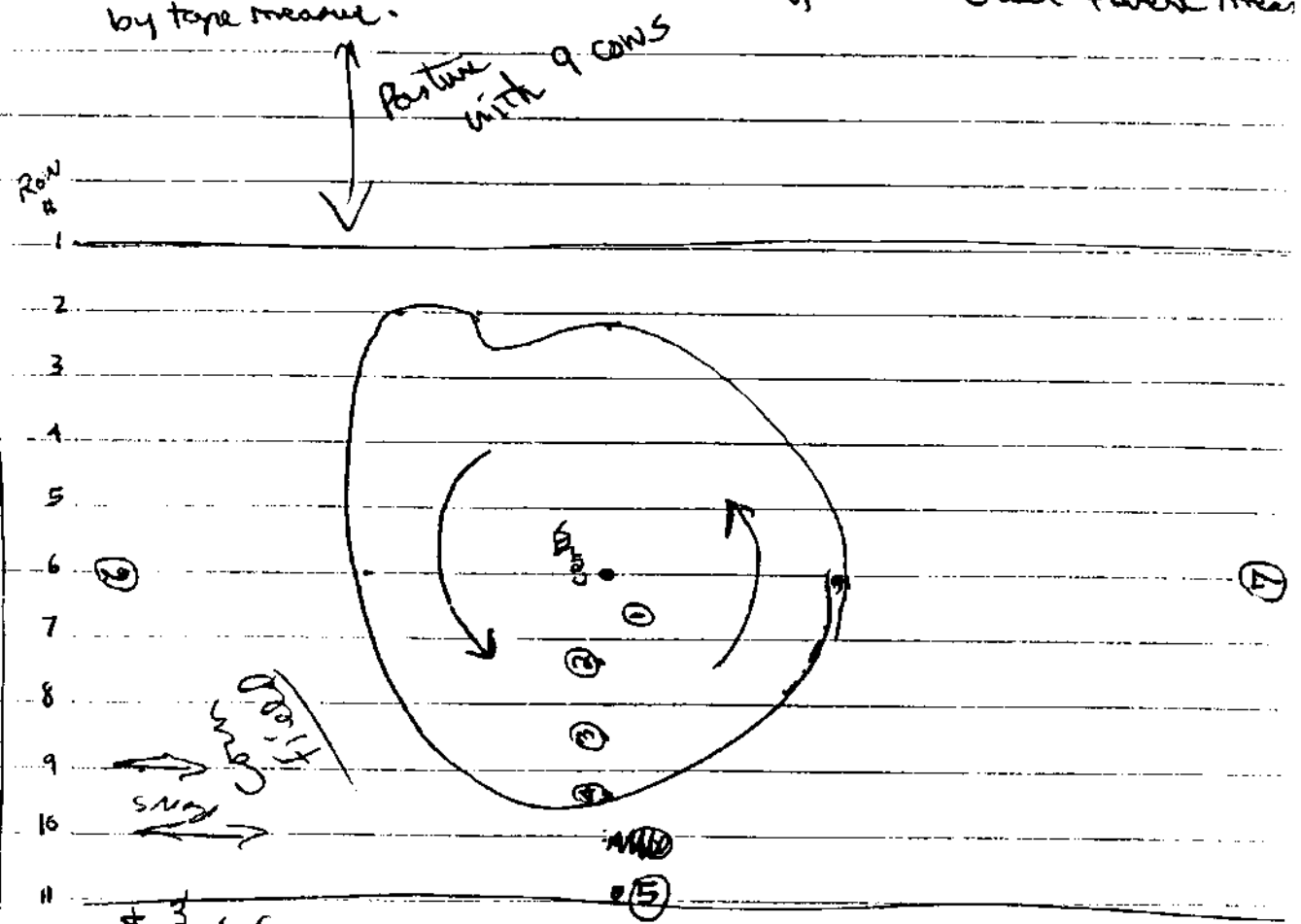
RS-22-84

Map + info by Ron Taylor, 8292 Oswego Road Baldwinsville
 Central New York Quarters, PO Box 61 NY 13027 (315) 635-55

all corn samples collected by Ron Taylor were removed from corn
 stalks by Ron Taylor, all corn stalks were still attached to the
 ground, although bent. All samples collected Saturday Aug
 20, 1994 @ 6:00-7:00 pm. Distances from center (estimated) of circle
 were based on corn stalks when they were erect + were measured
 by tape measure.

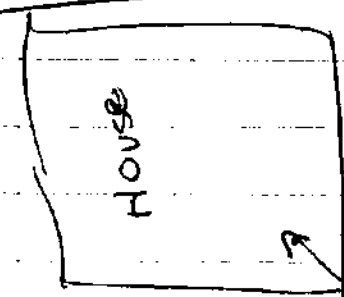
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ROAD ←



Evolution
 First seen
 Sunday, Aug 14, 94
 at 7:00 PM. Not there
 at 9:30 AM. Storm
 came thru area in
 early afternoon

phone (315) 675-3705
 Clayton + Mildred Brockway
 Town of Vienna New York
 Village of Cleveland NY
 County - Oswego
 General location - North of Onondaga
 Lake between Syracuse + Utica



- WS = When Standing
- | Sample ID | Description |
|-----------|--|
| # 1 | = 2' 6" SE of Center WS* |
| # 2 | = 4' S of Center WS |
| # 3 | = 7' 4" S of Center WS |
| # 4 | = 9' 6" S of Center - Stone
silk appears burned, cut
east of |
| # 5 | = 3' 9" beyond damage
perimeter on outer most
row of corn Row # 11 |
| # 6 | = 48' west of center = 38 1/2'
beyond perimeter |
| # 7 | = 63' East of center - diff.
THR of corn - 3 ears on sample |