

1973
Delta Organic Soil Salinity and Nutrient Status Study
Report of Laboratory Analyses

University of California
Agricultural Extension

in cooperation with

Central District
Department of Water Resources
State of California

Prepared by:

Jewell Meyer, Area Technologist
Ray King, Farm Advisor
Raul Chavarria, Lab Technician

STATE WATER RESOURCES CONTROL BOARD	
APPLICATION NO.	5625 ETAL (1976 DELTA MAR)
U/C AG. SCIENCES	EXH. 4
FOR IDENTIFICATION	12/8/76
IN EVIDENCE	12/6/76

UC-2

DATE	5625
NO.	202
RECEIVED	4
DATE	21
BY	
RECEIVED	
DATE	
BY	

INDEX OF LABORATORY ANALYSES

	<u>Page</u>
 <u>Set I - EC; Chlorides</u>	
Site 1 - Bacon Island Asparagus	1
Site 2 - Terminous Asparagus	2
Site 3 - Rio Blanco Tomatoes	3
Site 4 - Terminous "Y" Virgin Peat Soil	4
Site 5 - Bacon Island Potatoes	5
Site 6 - Bacon Island Potatoes	6
Site 7 - Terminous Corn	7
Site 8 - Terminous Corn	8
Site 9 - Terminous Corn	9
Site 10 - Terminous Asparagus Seedlings	10
Site 11 - Terminous Sunflowers	11
Site 12 - Staten Island Alfalfa	12
Site 13 - Rindge Tract Corn	13
Site 14 - Terminous Sunflowers	14
Site 15 - Terminous Sunflowers	15
Site 17 - Bacon Island Potatoes	16
Site 18 - Bacon Island Potatoes	17
Site 19 - Bacon Island Potatoes	18
Site 20 - Staten Island - Flooded	19
Site 21 - Staten Island - Flooded	20
Site 22 - Staten Island - Flooded	21
 <u>Set II - pH; EC; Calcium + Magnesium; Carbonates; Chlorides</u>	
Site 1 - Bacon Island Asparagus	22
Site 2 - Terminous Asparagus	23
Site 3 - Rio Blanco Tomatoes	24
Site 4 - Terminous "Y" Virgin Peat Soil	25
Site 5 - Bacon Island Potatoes	26
Site 6 - Bacon Island Potatoes	27
Site 7 - Terminous Corn	28
Site 8 - Terminous Corn	29
Site 9 - Terminous Corn	30
Site 10 - Terminous Asparagus Seedlings	31
Site 11 - Terminous Sunflowers	32
Site 12 - Staten Island Alfalfa	33
Site 13 - Rindge Tract Corn	34
Site 14 - Terminous Sunflowers	35
Site 15 - Terminous Sunflowers	36
Site 17 - Bacon Island Potatoes	37
Site 18 - Bacon Island Potatoes	38
Site 19 - Bacon Island Potatoes	39
Site 20 - Staten Island - Flooded	40
Site 21 - Staten Island - Flooded	41
Site 22 - Staten Island - Flooded	42

INDEX OF LABORATORY ANALYSES (Continued)

Page

Set III - Nitrate Nitrogen; Ammonium Nitrogen

Site 2 - Terminous Asparagus	43
Site 3 - Rio Blanco Tomatoes	44
Site 4 - Terminous "Y" Virgin Peat Soil	45
Site 5 - Bacon Island Potatoes	46
Site 6 - Bacon Island Potatoes	47
Site 7 - Terminous Corn	48
Site 8 - Terminous Corn	49
Site 9 - Terminous Corn	50
Site 10 - Terminous Asparagus Seedlings	51

Set IV - Phosphate Phosphorous; Potassium

Site 1 - Bacon Island Asparagus	52
Site 2 - Terminous Asparagus	53
Site 3 - Rio Blanco Tomatoes	54
Site 4 - Terminous "Y" Virgin Peat Soil	55
Site 8 - Terminous Corn	56
Site 9 - Terminous Corn	57
Site 10 - Terminous Asparagus Seedlings	58
Site 11 - Terminous Sunflowers	59
Site 12 - Staten Island Alfalfa	60
Site 13 - Rindge Tract Corn	61
Site 17 - Bacon Island Potatoes	62
Site 18 - Bacon Island Potatoes	63
Site 19 - Bacon Island Potatoes	64
Site 20 - Staten Island - Flooded	65
Site 21 - Staten Island - Flooded	66
Site 22 - Staten Island - Flooded	67

Set V - Saturation Percentage

Site 1 - Bacon Island Asparagus	68
Site 2 - Terminous Asparagus	69
Site 3 - Rio Blanco Tomatoes	70
Site 4 - Terminous "Y" Virgin Peat Soil	71
Site 5 - Bacon Island Potatoes	72
Site 6 - Bacon Island Potatoes	73
Site 7 - Terminous Corn	74
Site 8 - Terminous Corn	75
Site 9 - Terminous Corn	76
Site 10 - Terminous Asparagus Seedlings	77
Site 11 - Terminous Sunflowers	78
Site 12 - Staten Island Alfalfa	79
Site 13 - Rindge Tract Corn	80
Site 14 - Terminous Sunflowers	81
Site 15 - Terminous Sunflowers	82
Site 17 - Bacon Island Potatoes	83
Site 18 - Bacon Island Potatoes	84
Site 19 - Bacon Island Potatoes	85
Site 20 - Staten Island - Flooded	86
Site 21 - Staten Island - Flooded	87
Site 22 - Staten Island - Flooded	88

BACON ISLAND ASPARAGUS

1.

Site 1

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
6/15/73	0-6	0.80	2.0	39.5"
	6-12	1.10	3.0	
	12-18	2.05	4.0	
	18-24	1.00	3.0	
	24-30	1.19	4.0	
	30-36	1.24	4.0	
	36-42	1.52	4.0	
	42-48	1.60	1.0	
	48-54	1.25	1.0	
		EC _{sw}		
6/21/73	24	2.80	5.0	52.0"
	30	2.20	8.0	
	36	2.24	4.0	
	42	1.56	10.0	
	48	1.40	10.0	
6/29/73	24	--	--	56.0"
	30	4.80	--	
	36	4.40	--	
	42	4.80	--	
	48	2.40	--	
7/7/73	24	0.95	1.0	61.5"
	30	2.23	3.0	
	36	2.00	4.0	
	42	1.80	4.0	
	48	2.01	4.0	
7/20/73	24	--	--	62.0"
	30	2.35	--	
	36	--	--	
	42	2.30	5.0	
	48	2.00	4.0	
7/27/73	24	--	--	65.0"
	30	--	--	
	36	--	--	
	42	1.60	--	
	48	2.48	--	
8/1/73	24	1.60	3.0	53.0"
	30	1.28	5.0	
	36	1.66	8.0	
	42	2.84	4.0	
	48	1.75	4.0	
8/14/73	24	1.60	3.0	55.0"
	30	1.28	5.0	
	36	1.66	8.0	
	42	1.60	4.0	
	48	1.75	4.0	
9/7/73	24	--	--	55.0"
	30	1.80	4.0	
	36	1.80	4.0	
	42	1.19	3.0	
	48	1.82	4.0	
		EC _e		
9/19/73	0-6	1.00	7.0	
	6-12	1.18	6.0	
	12-18	0.89	5.0	
	18-24	0.98	5.0	
	24-30	1.35	6.0	
	30-36	1.14	4.0	
	36-42	1.00	3.0	
	42-48	1.35	4.0	
	48-54	1.55	4.0	

Soil

Soil

TERMINOUS ASPARAGUS

2.

Site 2 - Test Plot

Date	Depth Inches	EC _e (umho)	Cl ⁻ (ME/L)	Water Table
5/16/73 Soil	0-6	0.70	3.0	40.0"
	6-12	1.20	2.0	
	12-18	1.70	3.0	
	18-24	1.90	1.0	
	24-30	2.42	5.0	
	30-36	2.20	12.5	
	36-42	1.30	3.0	
	42-48	0.90	2.0	
	48-54	4.90	8.0	
			EC _{sw}	
6/4/73	27	2.00	3.0	41.0"
	33	1.12	3.0	
	39	--	--	
	45	1.08	1.0	
	51	1.00	1.0	
6/11/73 No Irrigation	27	1.93	3.0	43.0"
	33	1.20	3.0	
	39	0.90	2.0	
	45	1.08	2.0	
	51	1.04	4.0	
6/19/73	27	1.94	1.0	44.5"
	33	1.10	2.0	
	39	0.90	2.0	
	45	0.90	3.0	
	51	0.90	2.0	
7/5/73	27	0.60	1.0	45.25"
	33	0.70	2.0	
	39	0.67	--	
	45	1.06	4.0	
	51	0.94	1.0	
7/17/73	27	--	--	47.0"
	33	1.09	8.0	
	39	1.90	4.0	
	45	0.96	4.0	
	51	1.24	--	
8/1/73	27	--	--	51.0"
	33	1.00	7.0	
	39	0.80	2.0	
	45	--	--	
	51	--	--	
8/31/73 Rainfall 8"	27	1.15	3.0	47.0"
	33	0.74	3.0	
	39	0.61	3.0	
	45	0.75	1.5	
	51	0.80	1.5	
12/3/73	27	0.90	1.0	55.0"
	33	0.90	2.0	
	39	1.20	2.0	
	45	--	--	
	51	0.38	1.0	
		EC _e		
11/1/73 Soil	0-6	2.20	3.0	51.0"
	6-12	1.96	4.0	
	12-18	2.02	1.0	
	18-24	1.90	1.0	
	24-30	1.13	3.0	
	30-36	0.90	3.0	
	36-42	0.74	2.0	
	42-48	0.68	3.0	
	48-54	0.54	3.0	

RIO BLANCO TOMATOES

Site 3

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
6/15/73 Soil	0-6	1.28	3.0	
	6-12	0.80	2.0	
	12-18	0.82	1.0	
	18-24	0.62	2.0	
	24-30	0.70	2.0	
	30-36	0.82	2.0	
	36-42	1.05	3.0	
	42-48	1.02	4.0	
	48-54	0.90	4.0	

		EC _{sw}		
6/19/73	18	1.20	2.5	43.5"
	36	2.20	2.0	
	54	2.00	2.0	
6/26/73	18	--	--	40.0"
	36	1.78	5.0	
	54	1.90	4.0	
7/3/73 Furrow Irrigation 7/5/73	18	1.62	3.75	48.0"
	36	1.68	6.0	
	54	1.80	7.0	
7/10/73	18	--	--	53.0"
	36	2.10	9.0	
	54	2.20	9.0	
7/19/73	18	2.00	--	55.0"
	36	2.30	--	
8/2/73	18	--	--	56.0"
	36	2.62	9.0	
	54	2.28	--	

- out samples not taken -

TERMINOUS "Y" VIRGIN PEAT SOIL

4.

Site 4

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (umho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
5/19/73 Soil	0-6	0.40	0.5	54.0"
	6-12	0.42	1.0	
	12-18	1.19	5.0	
	18-24	2.10	9.0	
	24-30	2.50	11.0	
	30-36	2.20	8.0	
	36-42	1.54	5.0	
	42-48	5.00	16.0	

		EC _{sw}		
6/4/73	46	2.78	5.0	54.0"
	48	2.15	7.0	
	54	2.15	9.0	
	60	2.00	10.0	
6/11/73	42	2.60	10.0	58.0"
	48	2.70	16.0	
	54	2.20	5.0	
	60	2.05	8.0	
6/26/73	42	1.55	6.0	56.0"
	48	1.34	5.0	
	54	2.30	9.0	
	60	2.20	9.0	
7/12/73	42	--	--	51.0"
	48	--	--	
	54	--	--	
	60	1.20	6.0	
7/24/73	42	3.45	12.0	46.5"
	48	2.30	5.0	
	54	2.39	9.0	
	60	2.00	8.0	
8/3/73	42	2.60	9.0	
	48	2.40	9.0	
	54	2.40	8.0	
	60	2.30	8.0	
8/17/73	42	2.40	7.0	51.0"
	48	2.40	9.0	
	54	2.25	8.0	
	60	2.18	7.0	

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (umho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
9/14/73 Soil	0-6	0.60	2.0	60.0"
	6-12	0.80	4.0	
	12-18	1.18	5.0	
	18-24	1.85	7.0	
	24-30	3.18	12.0	
	30-36	4.40	16.0	
	36-42	6.60	29.0	
	42-48	5.70	24.0	
48-54	5.30	28.0		

BACON ISLAND POTATOES

5.

Site 5 - 39 inches from Drain Ditch, 1 Row from Spud Ditch

	<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
Row 1	6/15/73	0-6	2.35	6.0	
		6-12	0.65	2.0	
		12-18	0.69	3.0	
		18-24	0.69	2.0	
		24-30	0.90	4.0	
Soil		0-6	2.50	4.0	
		6-12	1.25	3.0	
		12-18	1.40	3.0	
		18-24	0.98	2.0	
		24-30	1.10	4.0	

6/21/73			EC _{gw}		
		6	0.90	4.0	10.0"
		12	1.10	4.0	
		18	0.90	2.0	
6/29/73		24	1.10	4.0	
		6	0.55	2.0	10.0"
		12	0.90	2.0	
		18	0.70	2.0	
		24	0.62	3.0	
7/7/73		30	0.52	2.0	
		6	0.54	2.0	11.0"
		12	1.00	2.0	
		18	0.89	2.0	
		24	0.62	2.0	
7/13/73		30	0.53	2.0	
		6	0.35	2.0	11.0"
		12	1.10	3.0	
		18	1.00	3.0	
		24	0.73	3.0	
7/20/73		30	0.62	4.0	
		6	0.67	0.5	19.0"
		12	1.10	1.4	
		18	1.00	1.0	
		24	0.79	0.7	
7/27/73		30	0.69	0.6	
		6	0.84	0.6	26.0"
		12	1.11	0.4	
		18	1.09	0.6	
		24	0.80	0.4	
8/3/73		30	0.76	0.2	
		6	0.80	0.4	34.0"
		12	1.05	0.3	
		18	0.84	0.3	
		24	0.88	0.5	

Soil	8/3/73	0-6	1.55	4.0	
		6-12	0.80	3.0	
		12-18	0.75	3.0	
		18-24	0.68	3.0	

BACON ISLAND POTATOES

Site 6 - 8 rows from Spud Ditch Adjacent to Site 5

	<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
Row 1	6/15/73	0-6	2.35	6.0	
		6-12	0.65	2.0	
		12-18	0.69	3.0	
		18-24	0.69	2.0	
		24-30	0.90	4.0	
Soil					
Row 8	6/15/73	0-6	2.50	6.0	
		6-12	1.25	2.0	
		12-18	1.40	3.0	
		18-24	0.98	2.0	
		24-30	1.10	4.0	

			<u>EC_{sw}</u>		
Irrigated 6/19/73	6/21/73	6	1.47	4.0	12.0"
		12	1.47	3.0	
		18	1.20	4.0	
		24	0.30	2.0	
		30	1.00	3.0	
	6/29/73	6	1.20	2.0	12.0"
		12	1.30	3.0	
		18	1.00	3.0	
		24	0.40	2.0	
		30	0.74	2.0	
	7/7/73	6	1.00	3.0	14.0"
		12	1.19	2.0	
		18	0.89	1.0	
		24	0.42	2.0	
		30	0.65	2.0	
	7/13/73	6	1.00	3.0	24.0"
		12	1.28	3.0	
		18	0.98	4.0	
		24	0.59	5.0	
		30	0.75	3.0	
	7/20/73	6	0.89	2.0	
		12	1.19	4.0	
		18	0.92	1.0	
		24	0.68	2.0	
		30	0.72	3.0	
	7/27/73	6	0.90	3.0	36.0"
		12	1.18	3.0	
		18	0.75	3.0	
		24	0.84	5.0	
		30	0.81	5.0	
	8/3/73	6	0.80	3.0	
		12	1.01	3.0	
		18	1.10	4.0	
		24	0.90	6.0	
		30	0.84	3.0	

			<u>EC_e</u>		
Soil	7/28/73	0-6	1.55	4.0	
		6-12	0.80	3.0	
		12-18	0.75	3.0	
		18-24	0.68	3.0	

TERMINOUS CORN

7.

Site 7 - 12 inches from Spud Ditch

	<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (umho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
Soil	5/22/73	0-6	0.60	1.0	45.0"
		6-12	0.72	2.0	
		12-18	1.70	1.0	
		18-24	3.40	6.0	
		24-30	3.20	7.0	
		30-36	2.70	7.0	
		36-42	1.38	6.0	
		42-48	0.72	2.0	
		-----	-----		
		EC _{gw}			
	6/11/73	32	3.00	7.0	45.0"
		38	2.20	7.0	
		44	1.64	5.0	
		50	1.56	6.0	
Irrigation Began	6/19/73	32	1.50	5.0	27.0"
		38	1.90	4.0	
		44	1.80	4.0	
		50	1.60	10.0	
	6/27/73	32	1.09	4.0	17.5"
		38	1.90	7.0	
		44	1.80	6.0	
		50	1.90	5.0	
	7/5/73	32	0.99	3.0	9.0"
		38	1.49	6.0	
		44	1.55	6.0	
		50	1.60	8.0	
Spud Ditch Empty	7/10/73	32	1.20	3.0	25.5"
		38	1.60	6.0	
		44	1.96	10.0	
		50	1.80	10.0	
	7/17/73	32	1.25	3.0	29.5"
		38	1.59	5.0	
		44	1.70	4.0	
		50	1.82	6.0	
Irrigation Began	8/1/73	32	1.00	3.0	19.5"
		38	1.65	6.0	
		44	1.76	2.0	
		50	1.49	3.0	
	8/16/73	32	0.71	3.0	26.0"
		38	1.55	3.0	
		44	1.80	4.0	
		50	1.68	3.0	
Spud Ditch Empty	8/30/73	32	0.90	3.0	45.5"
		38	1.50	5.0	
		44	1.32	5.0	
		50	1.90	6.0	
		-----	-----		
		EC _e			
Soil	8/30/73	0-6	1.10	4.0	45.5"
		6-12	1.52	2.0	
		12-18	1.	3.0	
		18-24	0.71	3.0	
		24-30	0.53	2.0	
		30-36	0.92	3.0	
		36-42	2.20	5.0	
		42-48	1.39	5.0	
		48-54	1.52	6.0	

TERMINOUS CORN

Site 8 - 6 Rows (1/4 distance) from Spud Ditch

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
5/20/73 Soil	0-6	1.30	2.0	45.0"
	6-12	1.00	4.0	
	12-18	1.12	1.0	
	18-24	2.05	8.0	
	24-30	1.60	7.0	
	30-36	1.60	6.0	
	36-42	2.00	8.0	
	42-48	0.98	5.0	
	48-54	0.85	4.0	
		EC _{sw}		
6/27/73	32	1.81	2.0	13.0"
	38	1.36	6.0	
	44	2.00	5.0	
	50	1.80	3.0	
7/5/73 Irrigation 6/18/73	32	1.30	5.0	7.0"
	38	1.52	11.1	
	44	1.58	7.5	
	50	1.50	5.0	
7/10/73	32	1.55	6.0	
	38	1.70	5.0	
	44	2.10	8.0	
	50	1.60	10.0	
7/17/73	32	1.60	5.0	
	38	1.60	4.0	
	44	2.00	8.0	
	50	1.90	6.0	
8/1/73 Irrigation Began	32	0.93	2.0	19.5"
	38	1.70	4.0	
	44	1.60	5.0	
	50	1.80	6.0	
8/16/73	32	0.84	4.3	25.5"
	38	1.55	4.0	
	44	1.80	5.0	
	50	1.78	3.0	
8/30/73	32	1.58	4.0	
	38	1.10	3.0	
	44	2.18	4.0	
	50	1.78	5.0	
<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
8/30/73 Soil	0-6	1.60	8.0	37.5"
	6-12	0.90	3.0	
	12-18	1.00	3.0	
	18-24	1.78	5.0	
	24-30	1.75	5.0	
	30-36	1.62	5.0	
	36-42	1.30	4.0	
	42-48	1.22	4.0	
	48-54	1.20	3.0	

TERMINOUS CORN

Site 9 - 11 Rows (1/2 distance) from Spud Ditch

Date	Depth Inches	EC _e (mmho)	Cl ⁻ (ME/L)	Water Table
5/20/73 Soil Before Soil Suction	0-6	0.63	1.0	45.0"
	6-12	0.80	2.0	
	12-18	1.10	4.0	
	18-24	1.65	7.0	
	24-30	2.18	8.0	
	30-36	2.10	6.0	
	36-42	1.13	6.0	
	42-48	1.00	5.0	
	48-54	1.40	4.0	
	54-60	1.28	4.0	

		EC _{sw}		
6/27/73 Irrigation Began 6/18/73 soil water	32	2.95	8.0	13.0"
	38	2.44	8.0	
	44	1.90	7.0	
	50	2.00	8.0	
7/5/73	32	2.03	7.0	7.0"
	38	2.02	8.0	
	44	1.55	8.8	
	50	1.50	5.0	
7/10/73	32	2.30	17.0	20.0"
	38	2.60	5.0	
	44	2.00	9.0	
	50	1.70	4.0	
7/17/73	32	2.40	6.0	30.5"
	38	1.60	4.0	
	44	1.80	5.0	
	50	--	--	

		EC _{sw}		
8/1/73 Irrigation Began 8/1/73	32	2.15	6.0	17.5"
	38	--	2.0	
	44	1.01	8.0	
	50	1.68	6.0	
8/16/73	32	2.60	5.0	25.5"
	38	--	--	
	44	2.05	5.0	
	50	1.80	5.0	
8/30/73	32	1.98	2.0	37.5"
	38	1.80	5.0	
	44	1.98	5.0	
	50	--	--	

Date	Depth Inches	EC _e (mmho)	Cl ⁻ (ME/L)	Water Table
8/30/73 Soil After Soil Suction	0-6	1.49	4.0	44.0"
	6-12	0.52	2.0	
	12-18	0.83	2.0	
	18-24	1.50	5.0	
	24-30	1.92	5.0	
	30-36	1.45	4.0	
	36-42	1.38	4.0	
	42-48	1.20	3.0	
48-54	1.35	4.0		

TERMINOUS ASPARAGUS SEEDLINGS - TEST PLOT

10.

Site 10 - 25th row south of Highway 12

Date	Depth Inches	EC _e (umho)	Cl ⁻ (ME/L)	Water Table
6/20/73 Soil	0-6	0.65	1.0	
	6-12	1.00	2.0	
	12-18	1.80	3.0	
	18-24	0.95	3.0	
	24-30	1.05	1.0	
	30-36	0.98	4.0	
	36-42	1.26	2.0	
	42-48	1.23	3.0	
	48-54	0.98	2.0	
	54-60	0.93	2.0	
		EC _{gw}		
6/27/73 Sprinkler Irrigation 6/28/73	27	1.30	2.0	37.0"
	33	1.50	3.0	
	39	1.60	3.0	
	45	--	--	
	51	1.58	4.0	
7/3/73	27	1.35	2.0	
	33	1.35	3.0	
	39	1.40	3.0	
	45	0.73	2.0	
	51	0.75	1.0	
7/10/73 Sprinkler Irrigation 7/16/73	27	1.40	5.0	38.0"
	33	1.50	--	
	39	1.60	7.5	
	45	0.85	3.0	
	51	0.85	2.0	
7/17/73	27	1.31	3.6	37.5"
	33	1.45	3.0	
	39	1.60	6.0	
	45	1.60	4.0	
	51	1.60	4.0	
7/24/73	27	1.34	3.0	39.5"
	33	1.40	2.0	
	39	1.49	2.0	
	45	1.60	3.0	
	51	1.68	3.0	
8/1/73 Sprinkler Irrigation 8/8/73	27	1.21	--	36.5"
	33	--	--	
	39	1.43	2.0	
	45	1.42	1.0	
	51	--	9.0	
8/17/73 Sprinkler Irrigation 8/16/73	27	1.30	2.0	34.0"
	33	1.38	1.0	
	39	1.50	3.0	
	45	1.47	3.0	
	51	1.50	2.0	
8/30/73 Sprinkler Irrigation 8/29/73	27	1.39	2.0	
	33	1.45	3.0	
	39	--	--	
	45	1.50	2.0	
	51	1.49	2.0	
9/6/73 Rainfall 8"	27	1.34	2.0	
	33	1.41	2.0	
	39	1.60	2.0	
	45	1.50	2.0	
	51	1.50	3.0	
11/29/73	27	1.20	1.0	
	33	--	--	
	39	--	--	
	45	--	--	
	51	--	--	
		EC _e		
9/14/73 Soil	0-6	0.42	2.0	
	6-12	1.02	3.0	
	12-18	1.60	2.0	
	18-24	1.40	3.0	
	24-30	1.21	3.0	
	30-36	0.90	3.0	
	36-42	0.90	2.0	
	42-48	0.90	3.0	
	48-54	1.00	3.0	
	54-60	0.90	3.0	

TERMINOUS SUNFLOWERS

Site 11

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
6/22/73 Soil	0-6	0.80	3.0	
	6-12	0.88	3.0	
	12-18	1.30	9.0	
	18-24	1.60	--	
	24-30	2.19	14.0	
	30-36	4.00	20.0	
	36-42	4.40	23.0	
	42-48	2.83	22.0	
	48-54	5.00	25.0	

6/27/73		EC _{sw}		
	30	5.00	15.0	51.5"
	36	4.70	23.0	
	42	4.20	29.0	
	48	3.60	24.0	
7/12/73	30	--	--	61.5"
	36	--	--	
	42	3.80	14.0	
	48	3.30	21.0	
	54	3.50	26.0	
7/24/73	30	3.28	--	66.0"
	36	3.80	--	
	42	4.90	29.0	
	48	3.21	19.0	
	54	2.43	15.0	

9/14/73 Soil		EC _e		
	0-6	1.10	5.0	
	6-12	1.40	8.0	
	12-18	2.23	14.0	
	18-24	1.75	10.0	
	24-30	4.50	30.0	
	30-36	4.60	24.0	
	36-42	4.10	30.0	
	42-48	4.50	33.0	
48-54	3.30	26.0		
54-60	3.28	26.0		

STATEN ISLAND ALFALPA

12.

Site 12

Date	Depth Inches	EC _e (mmho)	Cl ⁻ (ME/L)	Water Table	
6/29/73 Soil	0-6	0.34	4.0		
	6-12	0.28	2.0		
	12-18	0.33	2.0		
	18-24	0.55	3.0		
	24-30	0.82	5.0		
	30-36	0.50	4.0		
	36-42	0.50	4.0		
	42-48	0.50	2.5		
	48-54	0.42	5.0		
	54-60	0.40	2.5		

		EC _{gw}			
7/3/73 Sprinkler Irrigation 7/6/73	12	--	--	41.5"	
	18	1.14	3.0		
	24	0.32	2.0		
	30	0.44	--		
	36	0.69	--		
7/10/73	18	1.50	4.0	29.0"	
	24	0.40	1.0		
	30	0.70	3.0		
	36	1.00	4.0		
	42	0.80	--		
7/19/73 Sprinkler Irrigation 7/24/73	18	1.12	4.0		
	24	0.60	1.0		
	30	0.65	4.0		
	36	1.00	3.0		
	42	0.81	3.0		
7/26/73	18	0.72	5.0		
	24	0.40	2.0		
	30	0.72	5.0		
	36	0.94	4.0		
	42	0.80	4.0		
8/2/73	18	0.42	3.0	22.5"	
	24	0.53	1.0		
	30	0.58	2.0		
	36	0.86	3.0		
	42	0.74	7.0		
8/20/73	18	--	--	38.0"	
	24	--	--		
	30	0.64	1.0		
	36	0.80	2.0		
	42	0.95	2.0		
9/6/73	12	--	--		
	18	--	--		
	24	0.38	1.0		
	30	0.52	2.0		
	36	0.62	2.0		
9/14/73 Rainfall 8"	42	0.72	2.0		
	12	--	--	33.0"	
	18	0.36	2.0		
	24	0.43	2.0		
	30	0.49	1.0		
12/3/73	36	0.59	1.0		
	42	0.36	2.0		
	12	0.70	2.0	>48.0"	
	18	0.55	2.0		
	24	0.30	1.0		
11/1/73 Soil	30	0.55	2.0		
	36	0.53	1.0		

			EC _e		
	0-6	1.00	--		
	6-12	0.50	6.0		
	12-18	0.24	4.0		
	18-24	0.24	2.0		
	24-30	0.23	2.0		
	30-36	0.26	2.0		
36-42	0.27	3.0			
42-48	0.27	2.0			

RINDGE TRACT CORN

Site 13

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>	
6/28/73	0-6	1.00	3.0		
Soil	6-12	1.32	6.0		
	12-18	1.83	10.0		
	18-24	4.95	34.0		
	24-30	5.10	54.0		
	30-36	5.20	40.0		
	36-42	5.70	38.0		
	42-48	5.60	53.0		

Irrigation 7/1/73		EC _{sw}			
	7/3/73	12	1.05	6.0	13.5"
		18	1.18	1.0	
		24	3.60	24.0	
		36	2.62	23.0	
		48	2.25	38.0	
7/12/73	12	1.80	6.0	23.0"	
	18	2.80	12.0		
	24	4.40	22.0		
	36	3.10	23.0		
	48	2.60	21.0		
7/19/73	12	1.95	7.0	25.0"	
	18	2.20	9.0		
	24	3.90	18.0		
	36	2.90	18.0		
	48	2.50	17.0		
7/26/73	12	--	15.5	29.5"	
	18	0.75	4.0		
	24	4.00	22.0		
	36	2.82	10.0		
	48	2.60	19.0		
8/2/73	12	--	--	31.0"	
	18	2.80	15.0		
	24	4.00	19.0		
	36	2.90	16.0		
	48	2.50	17.0		
8/16/73	12	--	--	34.0"	
	18	3.80	--		
	24	3.80	17.0		
Irrigated 8/25/73	36	2.40	17.0		
	48	2.82	16.0		
9/6/73	12	--	--		
	18	--	--		
	24	3.20	17.0		
	36	4.20	19.0		
	48	--	--		

9/14/73	0-6	2.42	--		
Soil	6-12	1.43	2.0		
	12-18	1.45	6.0		
	18-24	1.62	10.0		
	24-30	7.30	56.0		
	30-36	5.20	40.0		
	36-42	2.90	21.0		
	42-48	6.60	50.0		
	48-54	5.00	46.0		

TERMINOUS SUNFLOWERS

Site 14 - 13 feet west of Site 11

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
7/2/73 Soil	0-6	0.60	4.0	
	6-12	0.50	2.0	
	12-18	0.68	2.0	
	18-24	2.00	11.0	
	24-30	2.84	23.0	
	30-36	4.70	36.0	
	36-42	6.00	49.0	
	42-48	5.60	36.0	
	48-54	5.40	34.0	
	54-60	4.50	27.0	

		EC _e		
7/24/73 Soil	0-6	1.10	5.0	
	6-12	1.40	8.0	
	12-18	1.23	14.0	
	18-24	1.75	10.0	
	24-30	4.50	30.0	
	30-36	4.60	24.0	
	36-42	4.10	30.0	
	42-48	4.50	33.0	
	48-54	3.30	26.0	
	54-60	3.28	26.0	

TERMINOUS SUNFLOWERS

Site 15 - 3 feet east of Site 11

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
7/2/73	0-6	0.69	3.0	
	6-12	0.98	4.0	
	12-18	1.16	7.0	
Soil	18-24	1.35	7.0	
	24-30	2.04	13.0	
	30-36	4.80	36.0	
	36-42	4.70	47.0	
	42-48	5.00	41.0	
	48-54	5.30	39.0	
	54-60	4.50	32.0	

		EC _e		
	0-6	1.10	5.0	
	6-12	1.40	8.0	
	12-18	2.23	14.0	
Soil	18-24	1.75	10.0	
	24-30	4.50	30.0	
	30-36	4.60	24.0	
	36-42	4.10	30.0	
	42-48	4.50	33.0	
	48-54	3.30	26.0	
	54-60	3.28	26.0	

BACON ISLAND POTATOES

Site 17, Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
Soil 7/6/73	0-6	3.70	--	
	6-12	1.50	7.0	
	12-18	3.00	13.0	
	18-24	3.00	11.0	
	24-30	2.20	9.0	

		EC _{sw}		
8/14/73	12	0.88	4.0	12.0"
	18	1.76	8.0	
	24	1.78	5.0	
	30	1.42	5.0	
8/21/73	12	1.28	5.0	12.0"
	18	0.55	3.0	
	24	1.42	5.0	
	30	1.35	4.0	
9/7/73	12	--	--	>24.0"
	18	--	--	
	24	--	--	
	30	1.80	5.0	

		EC _e		
Soil 9/14/73	0-6	3.70	4.0	
	6-12	1.49	4.0	
	12-18	0.89	4.0	
	18-24	1.15	5.0	
	24-30	0.94	7.0	
	30-36	1.55	7.0	
	36-42	2.60	12.0	

BACON ISLAND POTATOES

17.

Site 18 - Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
7/6/73	0-6	3.70	--	
	6-12	1.50	7.0	
	12-18	3.00	13.0	
	18-24	3.00	11.0	
	24-30	2.20	9.0	
		EC _{sw}		
8/14/73	12	1.45	4.0	12.0"
	18	1.60	3.0	
	24	1.00	4.0	
	30	1.35	4.0	
8/21/73	12	1.20	4.0	12.0"
	18	1.22	9.0	
	24	0.95	4.0	
	30	1.30	4.0	
9/7/73	12	1.36	6.0	>24.0"
	18	1.20	6.0	
	24	0.60	4.0	
	30	1.30	2.0	
		EC _e		
9/14/73	0-6	3.70	4.0	
	6-12	1.49	4.0	
	12-18	0.89	4.0	
	18-24	1.15	5.0	
	24-30	0.94	7.0	
	30-36	1.55	7.0	
	36-42	2.60	12.0	

Soil

Soil

BACON ISLAND POTATOES

18.

Site 19 - Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
7/27/73 Soil	0-6	3.70	--	
	6-12	1.50	7.0	
	12-18	3.00	13.0	
	18-24	3.00	11.0	
	24-30	2.20	9.0	

8/1/73		EC _{sw}		
	6	0.54	--	12.0"
	12	1.15	4.0	
	18	1.34	5.0	
	24	0.95	4.0	
	30	1.10	5.0	
8/14/73	12	1.40	5.0	12.0"
	18	1.30	4.0	
	24	2.24	6.0	
	30	1.25	6.0	
	9/7/73	6	--	--
	12	--	--	
	18	1.35	7.5	
	24	0.99	--	
	30	0.92	4.0	

9/14/73 Soil		EC _e		
	0-6	3.70	--	
	6-12	1.49	4.0	
	12-18	0.89	4.0	
	18-24	1.15	5.0	
	24-30	0.94	7.0	
	30-36	1.55	7.0	
	36-42	2.60	12.0	

STATEN ISLAND - FLOODED

Site 20

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
8/15/73	0-6	1.65	4.0	
	6-12	2.50	9.0	
	12-18	1.45	5.0	
	18-24	0.73	3.0	
	24-30	0.70	3.0	
	30-36	0.81	3.0	
	30-42	0.55	3.0	
	42-48	0.95	3.0	
	48-54	0.80	3.0	
	54-60	0.63	3.0	
		EC _{sw}		
8/20/73	12	--	--	
	24	0.75	4.0	
	36	0.72	1.0	
8/28/73	12	1.70	5.0	
	24	1.12	2.0	
	36	0.80	2.0	
9/6/73	12	1.22	2.5	
	24	1.10	2.5	
	36	0.88	3.0	
9/14/73	12	1.10	1.5	
	24	1.38	1.5	
	36	0.98	3.0	
11/14/73	12	0.89	2.0	
	24	0.89	2.0	
	36	0.72	2.0	
		EC _e		
11/13/73	0-6	0.50	2.0	
	6-12	0.30	1.0	
	12-18	0.37	2.0	
	18-24	0.37	2.0	
	24-30	0.50	3.0	
	30-36	0.45	3.0	
	36-42	0.45	3.0	

Soil

Soil

STATEN ISLAND - FLOODED

Site 21

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (umho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
8/15/73 Soil	0-6	1.50	7.0	
	6-12	2.65	6.0	
	12-18	2.05	6.0	
	18-24	1.28	2.0	
	24-30	0.80	2.0	
	30-36	0.55	3.0	

8/28/73	12	EC _{sw} 6.40	21.5	
	24	1.35	4.0	
	36	1.10	3.5	
9/6/73	12	4.10	10.5	
	24	3.75	3.0	
	36	0.80	2.0	
9/14/73	12	2.05	3.0	
	24	0.85	1.0	
	36	0.53	3.0	
11/28/73	12	1.29	4.0	
	24	1.75	7.0	
	36	0.94	--	

11/28/73 Soil	0-6	EC _e 0.58	4.0	
	6-12	0.81	6.0	
	12-18	1.12	6.0	
	18-24	1.20	6.0	
	24-30	1.04	6.0	
	30-36	0.98	7.0	

STATEN ISLAND - FLOODED

21.

Site 22

<u>Date</u>	<u>Depth Inches</u>	<u>EC_e (mmho)</u>	<u>Cl⁻ (ME/L)</u>	<u>Water Table</u>
8/15/73	0-6	0.59	1.0	
	6-12	0.59	3.0	
	12-18	1.12	5.0	
	18-24	1.25	7.0	
	24-30	1.50	7.0	
	30-36	1.75	12.0	
	36-42	1.30	11.0	
	42-48	1.80	15.0	
	48-54	2.60	23.0	
	54-60	2.24	18.0	

8/20/73		EC _{sw}		
	12	--	--	
	24	1.20	--	
8/28/73	36	0.55	3.0	
	12	6.40	21.5	
	24	1.35	4.0	
9/6/73	36	1.10	3.5	
	12	4.10	1.5	
	24	3.75	3.0	
9/14/73	36	0.80	2.0	
	12	--	--	
	24	1.72	1.5	
11/14/73	36	--	--	
	12	1.30	2.0	
	24	0.74	2.0	
11/12/73	36	0.90	2.0	
		EC _e		
	0-6	0.75	3.0	
Soil	6-12	0.48	2.0	
	12-18	0.43	1.0	
	18-24	0.40	3.0	
	24-30	0.44	3.0	
	30-36	0.80	4.0	
	36-42	0.40	2.0	
	42-48	1.32	6.0	

BACON ISLAND ASPARAGUS

Site 1

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		
6/15/73 Soil	0-6	7.0	0.80	9.8	8.0	2.0	39.5"	
	6-12	5.6	1.10	10.0	6.0	3.0		
	12-18	4.1	2.05	24.0	6.0	4.0		
	18-24	5.7	1.00	9.4	6.0	3.0		
	24-30	5.7	1.19	9.8	4.0	4.0		
	30-36	5.2	1.24	10.6	2.0	4.0		
	36-42	5.5	1.52	14.0	3.0	4.0		
	42-48	4.8	1.60	16.6	2.0	1.0		
	48-54	5.5	1.25	11.0	2.0	1.0		
			EC _{sw}					
6/21/73	24	7.9	2.80	29.4	6.0	5.0	52.0"	6/8 .212 .20
	30	8.0	2.2	20.4	12.0	8.0		
	36	8.3	2.24	16.0	12.0	4.0		
	42	8.3	1.56	22.8	16.0	10.0		
	48	8.3	1.40	11.2	16.0	10.0		
6/29/73	24	--	--	--	--	--	56.0"	
	30	--	4.80	--	--	--		
	36	--	4.40	--	--	--		
	42	--	4.80	--	--	--		
	48	--	2.40	--	--	--		
7/7/73	24	7.3	0.95	9.2	4.0	1.0	61.5"	7/6 .22
	30	7.7	2.23	12.4	10.0	3.0		
	36	7.7	2.00	23.6	8.0	4.0		
	42	7.8	1.80	21.4	8.0	4.0		
	48	8.0	2.01	24.2	8.0	4.0		
7/20/73	24	--	--	--	--	--	62.0"	
	30	8.2	2.35	28.6	--	--		
	36	--	--	--	--	--		
	42	8.2	2.30	26.4	10.0	5.0		
	48	8.4	2.00	27.2	16.0	4.0		
7/27/73	24	--	--	--	--	--	65.0"	
	30	--	--	--	--	--		
	36	--	--	--	--	--		
	42	8.0	1.60	16.0	10.0	--		
	48	8.1	2.48	16.8	4.0	--		
8/1/73	24	8.2	1.60	15.6	3.0	3.0	53.0"	
	30	8.4	1.28	13.0	5.0	5.0		
	36	8.4	1.66	16.2	4.0	8.0		
	42	8.4	2.84	15.2	3.0	4.0		
	48	8.6	1.75	17.2	3.0	4.0		
8/14/73	24	8.2	1.60	15.6	3.0	3.0	55.0"	.50
	30	8.4	1.28	13.0	5.0	5.0		
	36	8.4	1.66	16.2	4.0	8.0		
	42	8.4	1.60	15.2	3.0	4.0		
	48	8.6	1.75	17.2	3.0	4.0		
9/7/73	24	--	--	--	--	--	55.0"	
	30	9.4	1.80	18.8	3.0	4.0		
	36	9.0	1.80	18.0	3.0	4.0		
	42	5.8	1.19	11.6	2.0	3.0		
	48	9.1	1.82	18.2	4.0	4.0		
			EC _e					
9/14/73 Soil	0-6	6.2	1.00	5.8	3.0	7.0		
	6-12	6.7	1.18	8.8	6.0	6.0		
	12-18	6.4	0.89	7.2	4.0	5.0		
	18-24	5.5	0.98	8.2	4.0	5.0		
	24-30	5.9	1.35	11.6	2.0	6.0		
	30-36	5.3	1.14	9.4	4.0	4.0		
	36-42	4.9	1.00	8.2	1.0	3.0		
	42-48	4.8	1.35	12.2	1.0	4.0		
	48-54	4.5	1.55	14.6	2.0	4.0		

TERMINOUS ASPARAGUS

Site 2 - Test Plot

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		
5/16/73 Soil	0-6	6.4	0.70	8.4	4.0	3.0	40.0"	
	6-12	6.5	1.20	12.6	3.0	2.0		
	12-18	6.0	1.70	18.6	3.0	3.0		
	18-24	5.7	1.90	22.8	3.0	1.0		
	24-30	5.7	2.42	28.0	2.0	5.0		
	30-36	5.8	2.20	27.2	1.0	2.5		
	36-42	6.3	1.30	15.0	1.0	3.0		
	42-48	6.7	0.90	--	1.0	2.0		
	48-54	4.6	1.90	9.2	1.0	8.0		
EC _{sw}								
6/4/73	27	8.6	2.00	22.8	10.0	3.0	41.0"	
	33	8.5	1.12	13.6	6.0	3.0		
	39	--	--	--	--	--		
	45	8.4	1.08	12.8	2.0	1.0		
	51	8.4	1.00	6.8	10.0	1.0		
6/11/73	27	8.1	1.93	10.4	3.0	3.0	43.0"	
	33	8.3	1.20	13.2	7.0	3.0		
	39	8.0	0.90	11.0	8.0	2.0		
	45	8.4	1.08	11.6	8.0	2.0		
	51	8.4	1.04	10.4	12.0	4.0		
6/19/73	27	7.9	1.94	20.8	8.0	1.0	44.5"	
	33	8.5	1.10	13.2	6.0	2.0		
	39	8.3	0.90	10.4	6.0	2.0		
	45	8.4	0.90	10.0	8.0	3.0		
	51	8.5	0.90	10.0	10.0	2.0		
7/5/73	27	8.2	0.60	7.8	--	1.0	45.25"	
	33	8.2	0.70	8.6	--	2.0		
	39	7.1	0.67	7.0	--	--		
	45	8.0	1.06	12.4	8.0	4.0		
	51	8.0	0.94	10.8	12.0	1.0		
7/17/73	27	--	--	--	--	--	47.0"	
	33	8.7	1.09	10.4	10.0	8.0		
	39	8.4	1.90	20.0	8.0	4.0		
	45	8.4	0.96	10.0	8.0	4.0		
	51	8.5	1.24	13.2	--	--		
8/1/73	27	--	--	--	--	--	51.0"	
	33	8.4	1.00	11.0	5.0	7.0		
	39	8.5	0.80	8.4	5.0	2.0		
	45	--	--	--	--	--		
	51	--	--	--	--	--		
8/31/73 Rainfall 8"	27	8.2	1.15	12.0	7.0	3.0	47.0"	
	33	8.6	0.74	8.2	7.0	3.0		
	39	8.6	0.61	6.6	7.0	3.0		
	45	8.8	0.75	8.6	7.0	1.5		
	51	8.8	0.80	8.6	8.0	1.5		
12/3/73	27	8.0	0.90	9.0	5.0	1.0	55.0"	
	33	8.0	0.90	9.0	5.0	2.0		
	39	8.1	1.20	13.0	4.0	2.0		
	45	--	--	--	--	--		
	51	8.2	0.38	4.4	3.0	1.0		
EC _e								
11/1/73 Soil	0-6	6.2	2.20	21.6	3.0	3.0	51.0"	
	6-12	6.1	1.96	20.0	3.0	4.0		
	12-18	6.0	2.02	23.0	2.0	1.0		
	18-24	5.7	1.90	21.8	2.6	3.0		
	24-30	5.8	1.13	11.0	2.0	3.0		
	30-36	6.0	0.90	9.0	2.0	3.0		
	36-42	6.3	0.74	7.2	1.0	2.0		
	42-48	6.7	0.68	5.6	2.0	3.0		
	48-54	6.9	0.54	5.2	3.0	3.0		

RIO BLANCO TOMATOES

Site 3

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		
6/15/73 Soil	0-6	7.8	1.28	14.6	9.0	3.0		
	6-12	8.0	0.80	9.4	9.0	2.0		
	12-18	8.0	0.82	10.2	10.0	1.0		
	18-24	8.2	0.62	5.6	6.0	2.0		
	24-30	8.2	0.70	7.2	6.0	2.0		
	30-36	7.9	0.82	6.2	7.0	3.0		
	36-42	7.9	1.05	7.4	6.0	3.0		
	42-48	7.8	1.02	7.8	5.0	4.0		
	48-54	8.0	0.90	5.6	4.0	4.0		
			EC _{sw}					
6/19/73	18	8.3	1.20	6.8	8.0	2.5	43.5"	6/5 .27
	36	8.5	2.20	9.4	7.0	2.0		
	54	8.5	2.00	7.4	10.0	2.0		
6/26/73	18	--	--	--	--	--	40.0"	
	36	8.5	1.78	7.5	13.0	5.0		
	54	8.6	1.90	7.1	24.0	4.0		
7/3/73 Furrow Irrigation 7/5/73	18	8.4	1.62	3.2	--	3.75	48.0"	
	36	8.4	1.68	7.2	11.0	6.0		
	54	8.4	1.80	7.7	10.0	7.0		
7/10/73	18	--	--	--	--	--	53.0"	
	36	8.7	2.10	8.6	9.0	9.0		
	54	8.8	2.20	8.6	9.0	9.0		
7/19/73	18	8.8	2.00	9.5	--	--	55.0"	.30
	36	8.7	2.30	8.9	--	--		
8/2/73	18	--	--	--	--	--	56.0"	
	36	8.8	2.62	9.2	10.0	9.0		
	54	8.7	2.28	8.9	--	--		

- out samples not taken -

TERMINOUS "Y" VIRGIN PEAT SOIL

Site 4

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		
5/19/73 Soil	0-6	5.9	0.40	5.0	3.0	0.5	54.0"	
	6-12	5.5	0.42	5.6	3.1	1.0		
	12-18	5.7	1.19	11.8	2.0	5.0		
	18-24	5.8	2.10	20.2	3.0	9.0		
	24-30	5.7	2.50	23.8	2.0	11.0		
	30-36	5.3	2.20	21.4	1.0	8.0		
	36-42	6.3	1.54	14.6	2.0	5.0		
	42-48	5.3	5.00	48.6	9.0	16.0		
				EC _{sw}				
6/4/74	46	8.2	2.78	10.4	6.0	5.0	54.0"	
	48	8.6	2.15	7.2	6.0	7.0		
	54	8.8	2.15	7.3	7.0	9.0		
	60	8.5	2.00	6.3	10.0	10.0		
6/11/73	42	8.3	2.60	8.8	16.0	10.0	58.0"	
	48	8.3	2.70	7.6	16.0	16.0		
	54	8.3	2.20	6.5	4.0	5.0		
	60	8.6	2.05	5.7	9.0	8.0		
6/26/73	42	8.0	1.55	4.8	3.0	6.0	56.0"	
	48	8.0	1.34	4.4	5.0	5.0		
	54	8.1	2.30	7.1	10.0	9.0		
	60	8.6	2.20	6.3	9.0	9.0		
7/12/73	42	--	--	--	--	--	51.0"	
	48	--	--	--	--	--		
	54	--	--	--	--	--		
	60	8.4	1.20	3.4	4.0	6.0		
7/24/73	42	8.5	3.45	12.1	5.0	12.0	46.5"	
	48	8.3	2.30	6.9	4.0	5.0		
	54	8.7	2.39	6.1	8.0	9.0		
	60	8.9	2.00	5.5	12.0	8.0		
8/3/73	42	8.7	2.60	8.2	5.0	9.0		
	48	8.7	2.40	8.1	6.0	9.0		
	54	8.9	2.40	6.2	8.0	8.0		
	60	9.8	2.30	5.7	9.0	8.0		
8/17/73	42	8.5	2.40	8.2	8.0	7.0	51.0"	
	48	8.1	2.40	7.7	5.0	9.0		
	54	8.6	2.25	6.9	8.0	8.0		
	60	9.1	2.18	7.0	12.0	7.0		
				Ca ⁺⁺				
Date	Depth Inches	pH	EC _e	Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻	Water Table	EC _w DWR
9/14/73 Soil	0-6	6.2	0.60	6.2	4.0	2.0	60.0"	
	6-12	6.5	0.80	7.0	4.0	4.0		
	12-18	6.4	1.18	8.6	4.0	5.0		
	18-24	6.0	1.85	13.4	2.0	7.0		
	24-30	5.9	3.18	25.2	4.0	12.0		
	30-36	5.8	4.40	34.8	2.0	16.0		
	36-42	5.5	6.60	53.2	2.0	29.0		
	42-48	5.4	5.70	39.8	2.0	24.0		
	48-54	6.6	5.30	32.2	17.0	28.0		

BACON ISLAND POTATOES

Site 5 - 39 inches from Drain Ditch, 1 Row from Spud Ditch

Date	Depth Inches	pH	EC _e	Ca ⁺⁺		Cl ⁻	Water Table	EC _w D/R
				Mg ⁺	HCO ₃ ⁻ ME/L			
6/15/73 Row 1	0-6	6.3	2.35	23.8	2.0	6.0		
	6-12	6.6	0.65	6.0	3.0	2.0		
	12-18	6.6	0.69	6.4	3.0	3.0		
	18-24	6.0	0.69	5.6	2.0	2.0		
	24-30	5.5	0.90	7.4	2.0	4.0		
Soil Row 8	0-6	6.2	2.50	27.4	2.0	4.0		
	6-12	6.5	1.25	11.4	2.0	3.0		
	12-18	6.1	1.40	13.2	0.5	3.0		
	18-24	5.1	0.98	8.0	3.0	2.0		
	24-30	5.4	1.10	8.4	2.0	4.0		
			EC _{gw}					
6/21/73	6	8.0	0.90	6.4	8.0	4.0	10.0"	6/8 .212
	12	8.6	1.10	11.2	7.0	4.0		.20
	18	8.5	0.90	10.0	8.0	2.0		
	24	9.0	1.10	12.0	8.0	4.0		
6/29/73	6	8.8	0.55	3.6	6.0	2.0	10.0"	.35
	12	8.8	0.90	10.4	7.0	2.0		
	18	9.2	0.70	7.2	6.0	2.0		
	24	9.1	0.62	10.6	6.0	3.0		
	30	8.4	0.52	4.6	7.0	2.0		
7/7/73	6	8.1	0.54	3.0	6.0	2.0	11.0"	7/6 .22
	12	8.4	1.00	2.4	7.0	2.0		.35
	18	8.3	0.89	12.2	6.0	2.0		
	24	8.2	0.62	10.6	7.0	2.0		
	30	8.4	0.53	7.6	5.0	2.0		
7/13/73	6	8.3	0.35	1.8	6.0	2.0	19.0"	.50
	12	8.7	1.10	11.6	11.0	3.0		
	18	8.8	1.00	9.8	9.0	3.0		
	24	8.4	0.73	6.6	4.0	3.0		
	30	8.3	0.62	6.0	6.0	4.0		
7/20/72	6	8.5	0.67	4.8	5.0	5.0	19.0"	
	12	8.9	1.10	12.1	3.0	14.0		
	18	8.8	1.00	10.0	3.0	10.0		
	24	8.7	0.79	7.8	3.0	7.0		
	30	8.5	0.69	5.6	2.0	6.0		
7/27/73	6	8.0	0.84	3.0	6.0	6.0	26.0"	
	12	8.8	1.11	5.25	12.0	4.0		
	18	8.7	1.09	4.9	9.0	6.0		
	24	8.5	0.80	3.7	8.0	4.0		
	30	8.7	0.76	3.4	6.0	2.0		
8/3/73	6	8.6	0.80	3.6	6.0	4.0	34.0"	
	12	8.8	1.05	5.5	9.0	3.0		
	18	8.7	0.84	5.1	10.0	3.0		
	24	8.6	0.88	3.8	7.0	5.0		
	30	8.6	0.80	3.3	7.0	3.0		
			EC _e					
Soil 8/3/73	0-6	6.7	1.55	14.0	3.0	4.0		
	6-12	6.8	0.80	7.4	3.0	3.0		
	12-18	6.5	0.75	6.0	2.0	3.0		
	18-24	6.2	0.68	5.0	3.0	3.0		

BACON ISLAND POTATOES

Site 6 - 8 rows from Spud Ditch Adjacent to Site 5

Date	Depth Inches	pH	EC _e	Ca ⁺⁺		Cl ⁻	Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L			
6/15/73 Row 1	0-6	6.3	2.35	23.8	2.0	6.0		
	6-12	6.6	0.65	6.0	3.0	2.0		
	12-18	6.6	0.69	6.4	3.0	3.0		
	18-24	6.0	0.69	5.6	2.0	2.0		
	24-30	5.5	0.90	7.4	2.0	4.0		
Soil Row 8	0-6	6.2	2.50	27.4	2.0	6.0		
	6-12	6.5	1.25	11.4	3.0	2.0		
	12-18	6.1	1.40	13.2	3.0	3.0		
	18-24	5.1	0.98	8.0	2.0	2.0		
	24-30	5.4	1.10	8.4	2.0	4.0		
6/21/73 Irrigation 6/19/73	6	8.2	1.47	13.6	--	4.0	12.0"	6/8 .212
	12	8.3	1.47	15.8	--	3.0		.20
	18	8.2	1.20	11.2	--	4.0		
	24	8.6	0.30	3.8	--	2.0		
	30	8.8	1.00	10.8	--	3.0		
6/29/73	6	8.5	1.20	11.2	9.0	2.0	12.0"	.35
	12	8.6	1.30	14.2	12.0	3.0		
	18	8.5	1.00	10.0	8.0	3.0		
	24	8.3	0.40	3.4	3.0	2.0		
	30	8.5	0.74	7.4	6.0	2.0		
7/7/73	6	7.8	1.00	10.0	9.0	3.0	14.0"	7/6 .20
	12	8.5	1.19	14.2	13.0	2.0		.35
	18	8.5	0.89	9.2	7.0	1.0		
	24	8.4	0.42	4.6	4.0	2.0		
	30	8.3	0.65	7.4	6.0	2.0		
7/13/73	6	8.7	1.00	8.8	6.0	3.0	24.0"	.50
	12	8.6	1.28	12.4	13.0	3.0		
	18	8.5	0.98	9.2	8.0	4.0		
	24	8.3	0.59	4.6	4.0	5.0		
	30	8.6	0.75	7.8	7.0	3.0		
7/20/73	6	8.8	0.89	7.8	7.0	2.0		
	12	9.0	1.19	12.6	10.0	4.0		
	18	9.0	0.92	8.6	8.0	1.0		
	24	8.6	0.68	5.4	6.0	2.0		
	30	8.4	0.72	7.4	6.0	3.0		
7/27/73	6	8.3	0.90	6.4	6.0	3.0	36.0"	
	12	8.9	1.18	11.4	12.0	3.0		
	18	8.9	0.75	9.0	10.0	3.0		
	24	8.6	0.84	7.5	7.0	5.0		
	30	8.5	0.81	7.6	5.0	5.0		
8/3/73	6	8.6	0.80	3.6	6.0	3.0		
	12	8.4	1.01	5.0	9.0	3.0		
	18	8.7	1.10	5.1	7.0	4.0		
	24	8.6	0.90	4.5	8.0	6.0		
	30	8.6	0.84	3.9	7.0	3.0		
7/28/73 Soil	0-6	6.7	1.55	14.0	3.0	4.0		
	6-12	6.8	0.80	7.4	3.0	3.0		
	12-18	6.5	0.75	6.0	2.0	3.0		
	18-24	6.2	0.68	5.0	3.0	3.0		

TERMINOUS CORN

Site 7 - 12 inches from Spud Ditch

Date	Depth Inches	pH	EC _e	Ca ⁺⁺	HCO ₃ ⁻	Cl ⁻	Water Table	EC _w
				Mg ⁺	ME/L	DWR		
5/22/73 Soil	0-6	6.7	0.60	6.2	4.0	1.0	45.0"	5/2 .158
	6-12	6.6	0.72	7.0	6.0	2.0		
	12-18	6.1	1.70	16.8	4.0	1.0		
	18-24	5.6	3.40	34.4	3.0	6.0		
	24-30	5.5	3.20	39.6	1.0	7.0		
	30-36	5.7	2.70	30.6	1.0	7.0		
	36-42	6.2	1.38	13.4	1.0	6.0		
	42-48	6.7	0.72	7.8	6.0	2.0		
6/11/73 Irrigation 6/5/73	32	7.8	3.00	34.6	4.0	7.0	45.0"	6/6 .18
	38	8.1	2.20	23.8	5.0	7.0		
	44	8.3	1.64	18.4	6.0	5.0		
	50	8.4	1.56	16.4	8.0	6.0		
6/19/73	32	8.0	1.50	16.6	4.0	5.0	27.0"	1.50
	38	8.3	1.90	22.2	4.0	4.0		
	44	8.0	1.80	19.2	8.0	4.0		
	50	8.3	1.60	9.4	10.0	10.0		
6/27/73	32	8.2	1.09	10.8	5.0	4.0	17.5"	.33
	38	8.1	1.90	19.6	5.0	7.0		
	44	8.3	1.80	18.2	8.0	6.0		
	50	8.5	1.90	17.2	9.0	5.0		
7/5/73	32	8.2	0.99	11.2	--	3.0	9.0"	.35
	38	7.9	1.49	17.2	5.0	6.0		
	44	8.3	1.55	20.0	8.0	6.0		
	50	8.2	1.60	20.8	10.0	8.0		
7/10/73	32	8.3	1.20	11.6	5.0	3.0	25.5"	
	38	8.2	1.60	15.8	11.0	6.0		
	44	8.6	1.96	21.6	8.0	10.0		
	50	8.5	1.80	17.6	8.0	10.0		
7/17/73	32	8.7	1.25	12.6	8.0	3.0	29.5"	
	38	8.5	1.59	15.6	3.0	5.0		
	44	8.5	1.70	16.8	8.0	4.0		
	50	8.4	1.82	18.4	8.0	6.0		
8/1/73 Irrigation 8/1/73	32	8.2	1.00	9.4	5.0	3.0	19.5"	8/1 .185 .38
	38	8.4	1.65	17.2	--	6.0		
	44	8.4	1.76	19.0	9.0	2.0		
	50	8.6	1.49	14.4	13.0	3.0		
8/16/73	32	8.0	0.71	7.0	4.0	3.0	26.0"	
	38	7.8	1.55	15.4	4.0	4.0		
	44	8.4	1.80	20.2	5.0	4.0		
	50	8.8	1.68	18.6	5.0	3.0		
8/30/73	32	8.6	0.90	9.0	5.0	3.0	45.5"	
	38	8.7	1.50	17.5	9.0	5.0		
	44	8.9	1.82	20.0	9.0	5.0		
	50	8.8	1.90	18.8	8.0	6.0		
8/30/73 Soil	0-6	6.6	1.10	9.4	2.0	4.0		
	6-12	6.4	1.52	14.0	4.0	2.0		
	12-18	6.5	1.18	10.8	3.0	3.0		
	18-24	6.2	0.71	6.6	4.0	3.0		
	24-30	6.0	0.53	5.4	3.0	2.0		
	30-36	5.9	0.92	6.6	3.0	3.0		
	36-42	5.8	2.20	24.8	1.0	5.0		
	42-48	6.5	1.39	12.0	1.0	5.0		
	48-54	7.5	1.52	14.0	4.0	6.0		

TERMINOUS CORN

Site 8 - 6 Rows (1/4 distance) from Spud Ditch

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w	
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		DWR	
6/20/73 Soil	0-6	6.6	1.30	10.8	1.0	2.0			
	6-12	6.3	1.00	11.2	3.0	4.0			
	12-18	6.2	1.12	11.6	3.0	1.0			
	18-24	6.0	2.05	24.1	2.0	8.0			
	24-30	5.9	1.60	18.8	2.0	7.0			
	30-36	6.1	1.60	15.2	2.0	6.0			
	36-42	6.3	2.00	10.4	1.0	8.0			
	42-48	7.4	0.98	8.2	1.0	5.0			
	48-54	7.8	0.85	8.4	2.0	4.0			

			EC _{sw}						
6/27/73 Irrigation 6/18/73	32	8.4	1.81	9.2	7.0	6.0	13.5"	5/2	.158
	38	8.5	1.36	7.0	7.0	6.0		6/6	.180
	44	8.3	2.00	9.4	--	5.0			.33
	50	8.3	1.80	4.5	4.0	3.0			
7/5/73	32	8.2	1.30	8.0	--	5.0	9.0"		.35
	38	8.2	1.52	8.9	--	11.1			
	44	8.3	1.58	8.9	--	7.5			
	50	8.3	1.50	8.7	--	5.0			
7/10/73	32	8.6	1.55	8.3	7.0	6.0	20.0"		
	38	8.5	1.70	9.0	5.0	5.0			
	44	8.4	2.10	9.8	6.0	8.0			
	50	8.3	1.60	10.2	8.0	10.0			
7/17/73	32	8.6	1.60	9.0	6.0	5.0	33.5"		
	38	8.6	1.69	9.0	9.0	4.0			
	44	8.2	2.00	8.8	8.0	8.0			
	50	8.5	1.90	9.0	6.0	6.0			
8/1/73 Irrigation 8/1/73	32	8.3	0.93	4.5	5.0	2.0	19.5"	8/1	.185
	38	8.7	1.70	8.3	8.0	4.0			.35
	44	8.4	1.60	8.4	5.0	5.0			
	50	8.6	1.60	8.4	7.0	6.0			
8/16/73	32	7.8	0.84	4.4	4.0	3.0	26.0"		
	38	8.0	1.55	8.2	7.0	4.0			
	44	8.7	1.80	9.7	7.0	5.0			
	50	8.6	1.78	9.3	5.0	3.0			
8/30/73	32	8.9	1.58	8.3	8.0	4.0	37.5"		
	38	8.9	1.10	6.4	8.0	3.0			
	44	8.9	2.18	6.4	4.0	4.0			
	50	7.0	1.78	9.9	8.0	5.0			

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w	
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		DWR	
9/14/73 Soil	0-6	6.5	1.60	14.2	4.0	8.0			
	6-12	6.6	0.90	8.4	3.0	3.0			
	12-18	6.1	1.00	10.8	3.0	3.0			
	18-24	5.9	1.78	17.6	3.0	5.0			
	24-30	5.8	1.75	19.2	3.0	5.0			
	30-36	6.0	1.62	15.2	1.0	5.0			
	36-42	6.9	1.30	11.2	1.0	4.0			
	42-48	7.1	1.22	11.0	4.0	4.0			
	48-54	7.7	1.20	11.2	4.0	3.0			

TERMINOUS CORN

Site 9 - 11 Rows (1/2 distance) from Spud Ditch

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR	
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻			
6/20/73 Soil	0-6	6.7	0.63	7.2	5.0	1.0			
	6-12	6.5	0.80	8.6	4.0	2.0			
	12-18	6.5	1.10	12.2	4.0	4.0			
	18-24	6.3	1.65	18.4	3.0	7.0			
	24-30	6.3	2.18	22.4	3.0	8.0			
	30-36	6.6	2.10	21.0	1.0	6.0			
	36-42	7.0	1.13	9.4	2.0	6.0			
	Irrigation 6/5/73	42-48	7.7	1.00	10.8	4.0	5.0		
		48-54	8.0	1.40	13.6	2.0	4.0		
54-60		7.8	1.28	12.6	4.0	4.0			

6/27/73			EC _{sw}						
	32	8.4	2.95	16.0	7.0	8.0	13.0"	5/2 .158	
	38	8.5	2.44	13.4	9.0	8.0		6/6 .18	
	44	8.7	1.90	10.1	8.0	7.0		.33	
7/5/73	32	8.2	2.03	13.3	6.0	7.0	7.0"	.35	
	38	8.3	2.02	13.8	7.0	8.0			
	44	8.4	1.55	10.7	8.0	7.0			
	50	8.4	1.50	9.0	9.0	5.0			
7/10/73	32	8.5	2.3	12.6	1.0	17.0	20.0"		
	38	8.5	2.6	13.9	6.0	5.0			
	44	8.5	2.0	11.0	9.0	9.0			
	50	8.4	1.7	9.1	7.0	4.0			
7/17/73	32	8.7	2.1	11.9	6.0	6.0	30.5"		
	38	8.7	1.6	8.3	8.0	4.0			
	44	8.7	1.8	9.5	9.0	5.0			
	50	--	--	--	--	--			
8/1/73 Irrigation 8/1/73	32	8.5	2.15	12.1	10.0	6.0	17.5"	8/1 .185	
	38	--	--	--	6.0	2.0		.35	
	44	8.5	1.01	5.1	--	--			
	50	8.5	1.68	9.1	9.0	6.0			
8/16/73	32	8.2	2.00	10.5	7.0	5.0	25.5"		
	38	--	--	--	--	--			
	44	8.8	2.05	10.3	7.0	5.0			
	50	8.5	1.80	9.8	6.0	5.0			
8/30/73	32	9.9	1.98	11.2	8.0	2.0	37.5"		
	38	9.1	1.80	10.6	11.0	5.0			
	44	9.0	1.18	10.8	8.0	5.0			
	50	--	--	--	--	--			

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR	
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻			
9/14/73 Soil	0-6	6.4	1.49	13.8	3.0	4.0			
	6-12	6.8	0.52	5.6	4.0	2.0			
	12-18	6.3	0.83	8.6	3.0	2.0			
	18-24	6.0	1.50	15.8	2.0	5.0			
	24-30	6.0	1.92	20.6	3.0	5.0			
	30-36	6.6	1.45	13.4	1.0	4.0			
	36-42	7.8	1.38	13.8	--	--			
	42-48	7.8	1.20	10.8	4.0	3.0			
	48-54	7.9	1.35	12.0	3.0	4.0			

TERMINOUS ASPARAGUS SEEDLINGS - TEST PLOT

Site 10 - 25th row south of Highway 12

Date	Depth Inches	pH	EC _e	Ca ⁺⁺ Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻	Water Table	EC _w DWR
6/20/73 Soil	0-6	6.9	0.65	7.8	4.0	1.0		
	6-12	6.6	1.00	11.6	5.0	2.0		
	12-18	6.3	1.80	11.8	3.0	3.0		
	18-24	5.8	0.95	9.2	3.0	3.0		
	24-30	6.4	1.05	10.2	9.2	1.0		
	30-36	6.6	0.98	9.2	2.0	4.0		
	36-42	7.2	1.26	14.4	2.0	3.0		
	42-48	7.7	1.23	18.4	2.0	2.0		
	48-54	7.8	0.98	9.4	3.0	2.0		
	54-60	7.8	0.93	8.6	4.0	2.0		
				EC _{sw}				
6/27/73	27	8.5	1.30	7.4	8.0	2.0	37.0"	6/6 .18
Sprinkler Irrigation 6/28/73	33	8.4	1.50	8.7	8.0	3.0		
	39	8.5	1.60	9.2	6.0	3.0		
	45	--	--	--	--	--		
	51	8.5	1.58	8.6	8.0	4.0		
7/3/73	27	8.3	1.35	7.9	6.0	2.0		
	33	8.2	1.35	8.6	8.0	3.0		
	39	8.3	1.40	9.0	7.0	3.0		
	45	8.3	0.73	4.3	4.0	2.0		
	51	8.1	0.75	4.3	4.0	1.0		
7/10/73	27	8.6	1.40	7.3	6.0	5.0	38.0"	
Sprinkler Irrigation 7/16/73	33	8.6	1.50	8.4	--	--		
	39	8.6	1.6	9.0	4.0	7.5		
	45	8.3	0.85	5.0	6.0	3.0		
	51	8.5	0.85	4.2	4.0	2.0		
7/17/73	27	8.7	1.31	6.9	6.0	3.6	37.5"	
	33	8.6	1.45	7.8	12.0	6.0		
	39	8.5	1.60	8.2	8.0	4.0		
	45	8.5	1.60	7.8	8.0	4.0		
	51	8.6	1.60	8.2	10.0	4.0		
7/24/73	27	8.4	1.34	6.8	7.0	3.0	39.5"	
	33	8.7	1.40	8.0	7.0	2.0		
	39	8.8	1.49	8.2	6.0	2.0		
	45	8.6	1.60	8.9	7.0	3.0		
	51	8.8	1.68	9.2	9.0	3.0		
8/1/73	27	8.5	1.21	6.7	--	--	36.5"	8/1 .185
Sprinkler Irrigation 8/8/73	33	--	--	--	--	--		
	39	8.6	1.43	8.8	10.0	2.0		
	45	8.7	1.42	8.1	4.0	1.0		
	51	--	--	--	2.0	9.0		
Sprinkler Irrigation 8/16/73	27	8.4	1.30	6.6	5.0	2.0	34.0"	
	33	8.3	1.38	7.6	7.0	1.0		
	39	8.3	1.50	8.4	8.0	3.0		
	45	8.5	1.47	6.2	8.0	3.0		
	51	8.8	1.50	8.6	9.0	2.0		
Sprinkler Irrigation 8/29/73	27	8.9	1.39	7.6	7.0	2.0		.10
	33	8.9	1.45	8.0	7.0	3.0		
	39	--	--	--	--	--		
	45	9.0	1.50	8.8	9.0	2.0		
	51	9.2	1.49	8.5	8.0	2.5		
9/6/73	27	8.5	1.34	7.2	6.0	2.0		
	33	8.8	1.41	8.5	7.0	2.0		
	39	9.0	1.60	9.0	10.0	3.0		
	45	9.2	1.50	8.2	10.0	2.0		
	51	9.1	1.50	8.5	11.0	3.0		
Rainfall 8"	27	8.2	1.20	6.5	6.0	1.0		
11/29/73	33	--	--	--	--	--		
	39	--	--	--	--	--		
	45	--	--	--	--	--		
	51	--	--	--	--	--		
				EC _e				
9/14/73	0-6	7.0	0.42	4.8	3.0	2.0		
Soil	6-12	6.3	1.02	11.0	5.0	3.0		
	12-18	6.0	1.60	14.4	2.0	2.0		
	18-24	6.2	1.40	13.4	2.0	3.0		
	24-30	6.4	1.21	11.6	1.0	3.0		
	30-36	7.1	0.90	7.6	2.0	3.0		
	36-42	6.7	0.90	8.0	3.0	2.0		
	42-48	6.1	0.90	8.6	3.0	3.0		
	48-54	7.5	1.00	9.4	4.0	3.0		
	54-60	7.6	0.90	9.0	5.0	3.0		

TERMINOUS SUNFLOWERS

Site 11

<u>Date</u>	<u>Depth Inches</u>	<u>pH</u>	<u>EC_e</u>	<u>Ca⁺⁺ Mg⁺</u>	<u>HCO₃⁻ ME/L</u>	<u>Cl⁻</u>	<u>Water Table</u>	<u>EC_w DWR</u>
6/22/73 Soil	0-6	5.4	0.80	9.4	2.0	3.0		
	6-12	5.4	0.88	9.2	2.0	3.0		
	12-18	5.3	1.30	12.0	3.0	9.0		
	18-24	5.3	1.60	15.2	--	--		
	24-30	5.4	2.19	44.1	1.0	14.0		
	30-36	5.1	4.00	45.4	2.0	20.0		
	36-42	5.0	4.40	49.0	1.0	23.0		
	42-48	5.5	2.83	21.4	2.0	22.0		
	48-54	5.0	5.00	57.8	2.0	25.0		
			EC _{gw}					
6/27/73	30	8.3	5.0	23.9	5.0	15.0	51.5"	
	36	8.2	4.70	21.1	4.0	23.0		
	42	8.1	4.20	17.7	5.0	29.0		
	48	8.0	3.60	15.7	5.0	24.0		
	54	7.9	2.79	12.9	9.0	17.0		
7/12/73	30	--	--	--	--	--	61.5"	
	36	--	--	--	--	--		
	42	8.5	3.8	14.8	7.0	14.0		
	48	8.6	3.3	13.5	6.0	21.0		
	54	8.4	3.5	24.6	6.0	26.0		
7/24/73	30	8.4	3.28	12.0	--	--	66.0"	
	36	--	3.80	17.0	--	--		
	42	8.5	4.90	21.5	16.0	29.0		
	48	8.5	3.21	14.1	7.0	19.0		
	54	8.6	2.43	11.2	2.0	15.0		
			EC _e					
9/14/73 Soil	0-6	5.5	1.10	10.2	2.0	5.0		
	6-12	5.3	1.40	12.0	3.0	8.0		
	12-18	5.5	2.23	17.4	5.0	14.0		
	18-24	5.8	1.75	13.0	5.0	10.0		
	24-30	5.7	4.50	37.2	2.0	30.0		
	30-36	5.4	4.60	36.8	18.0	24.0		
	36-42	5.3	4.10	32.8	2.0	30.0		
	42-48	5.1	4.50	39.6	2.0	33.0		
	48-54	5.4	3.30	27.4	2.0	26.0		
54-60	5.5	3.28	28.6	4.0	26.0			

STATEN ISLAND ALPALFA

Site 12

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR	
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻			
6/29/73 Soil	0-6	5.4	0.34	3.0	2.0	4.0			
	6-12	5.8	0.28	3.0	1.1	2.0			
	12-16	5.5	0.33	3.2	2.0	2.0			
	18-24	5.8	0.55	4.8	3.0	3.0			
	24-30	5.4	0.82	6.8	2.0	5.0			
	30-36	6.4	0.50	4.4	2.0	4.0			
	36-42	6.6	0.50	4.0	1.0	4.0			
	42-48	6.9	0.50	3.4	2.0	2.5			
	48-54	7.0	0.42	3.2	1.0	5.0			
	54-60	6.9	0.40	3.0	2.0	2.5			
				EC _{sw}					
7/3/73	12	--	--	--	--	--	41.5"	6/6 .18	
Sprinkler Irrigation 7/6/73	18	8.1	1.14	10.0	8.0	3.0			
	24	8.6	0.32	3.4	3.0	2.0			
	30	8.1	0.44	3.1	--	--			
	36	8.2	0.69	4.1	--	--			
	7/10/73	18	8.2	1.50	12.8	4.0	4.0	29.0"	
	24	8.4	0.40	3.6	4.0	1.0			
	30	8.1	0.70	6.6	4.0	3.0			
	36	8.4	1.00	11.4	5.0	4.0			
	42	8.5	0.80	8.0	7.0	4.0			
Sprinkler Irrigation 7/24/73	18	8.5	1.12	--	9.0	4.0			
	24	8.7	0.60	6.0	8.0	1.0			
	30	7.7	0.65	6.4	3.0	4.0			
	36	8.7	1.00	9.4	8.0	1.0			
	42	8.8	0.81	8.2	8.0	3.0			
7/26/73	18	8.4	0.72	5.6	2.0	5.0		.19	
	24	8.4	0.40	5.0	3.0	2.0			
	30	8.4	0.72	5.6	4.0	5.0			
	36	8.7	0.94	8.8	8.0	4.0			
	42	8.5	0.80	8.0	2.0	2.0			
8/2/73	18	8.4	0.42	4.4	2.0	3.0	22.5"	8/1 .185	
	24	8.8	0.53	5.8	3.0	1.0			
	30	8.8	0.58	5.8	3.0	2.0			
	36	8.9	0.86	8.4	7.0	3.0			
	42	8.8	0.74	7.4	1.0	7.0			
8/20/73	18	--	--	--	--	--	38.0"		
	24	--	--	--	--	--			
	30	8.5	0.64	6.8	6.0	1.0			
	36	8.5	0.80	8.0	8.0	2.0			
	42	8.8	0.95	10.0	7.0	2.0			
9/6/73	12	--	--	--	--	--			
	18	--	--	--	--	--			
	24	8.7	0.38	4.4	4.0	1.0			
	30	8.8	0.52	5.2	5.0	2.0			
	36	8.8	0.62	6.4	5.0	2.0			
9/14/73	42	8.9	0.72	7.4	8.0	2.0			
	12	--	--	--	--	--	33.0"		
	18	7.6	0.36	5.4	3.0	2.0			
	24	8.2	0.43	4.6	4.0	2.0			
	30	8.5	0.49	5.8	5.0	1.0			
Rainfall 8"	36	8.3	0.59	5.8	2.0	1.0			
	42	8.5	0.36	3.8	3.0	2.0			
	12/3/73	12	8.5	0.70	8.2	9.0	2.0	>48.0"	
		18	8.4	0.55	6.2	6.0	2.0		
		24	8.4	0.30	3.8	4.0	1.0		
	30	8.4	0.55	6.4	4.0	2.0			
	36	8.3	0.53	6.0	7.0	1.0			
				EC _e					
11/1/73 Soil	0-6	5.7	1.00	7.6	1.0	--			
	6-12	5.7	0.50	4.6	2.0	6.0			
	12-18	6.0	0.24	2.6	2.0	4.0			
	18-24	5.7	0.24	2.4	2.0	2.0			
	24-30	6.3	0.23	2.2	2.0	2.0			
	30-36	6.7	0.26	2.2	2.0	2.0			
	36-42	6.4	0.27	2.2	3.0	3.0			
	42-48	6.7	0.27	2.2	2.0	2.0			

RINDGE TRACT CORN

Site 13

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR	
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻			
6/28/73 Soil	0-6	6.5	1.00	2.6	6.0	3.0			
	6-12	6.5	1.32	8.2	6.0	6.0			
	12-18	5.8	1.83	10.2	4.0	10.0			
	18-24	5.7	4.95	31.2	1.0	34.0			
	24-30	5.0	5.10	38.4	2.0	54.0			
	30-36	5.1	5.20	38.0	2.0	40.0			
	36-42	5.0	5.70	42.2	2.0	38.0			
	42-48	5.1	5.60	32.8	1.0	53.0			
			EC _{gw}						
Irrigation 7/2/73	7/3/73	12	8.2	1.05	7.4	5.0	6.0	13.5"	6/5 .27
		18	8.1	1.18	8.6	6.0	6.0		7/2 .37
		24	8.4	3.60	30.4	8.0	24.0		.19
		36	8.3	2.62	20.6	7.0	23.0		
		48	8.3	2.25	16.2	8.0	38.0		
7/12/73	12	8.8	1.80	21.8	7.0	6.0		23.0"	
	18	8.2	2.80	14.8	10.0	12.0			
	24	8.5	4.40	30.2	7.0	22.0			
	36	8.5	3.10	18.8	3.0	23.0			
	48	8.6	2.60	13.8	11.0	21.0			
7/19/73	12	8.8	1.95	14.2	4.0	7.0		25.0"	
	18	8.6	2.20	15.6	8.0	9.0			
	24	8.5	3.90	27.8	6.0	18.0			
	36	7.9	2.90	18.2	5.0	18.0			
	48	8.7	2.50	12.8	4.0	17.0			
7/26/73	12	--	--	--	4.0	15.5		29.5"	
	18	8.3	0.75	4.6	3.0	4.0			
	24	8.5	4.00	27.8	5.0	22.0			
	36	8.6	2.82	18.0	6.0	10.0			
	48	8.6	2.60	13.2	7.0	19.0			
8/2/73	12	--	--	--	--	--		31.0"	
	18	8.3	2.80	19.0	3.0	15.0			
	24	8.4	4.00	26.8	5.0	19.0			
	36	8.6	2.90	18.0	6.0	16.0			
	48	6.2	2.50	12.8	6.0	17.0			
8/16/73	12	--	--	--	--	--		34.0"	
	18	8.7	3.80	--	--	--			
	24	8.1	3.80	24.8	4.0	17.0			
	36	7.8	2.40	11.6	5.0	17.0			
	48	7.5	2.82	17.0	6.0	16.0			
9/6/73	12	--	--	--	--	--			
	18	--	--	--	--	--			
	24	9.0	3.20	18.6	8.0	17.0			
	36	8.9	4.20	25.4	5.0	19.0			
	48	--	--	--	--	--			
			EC _e						
9/14/73 Soil	0-6	6.4	2.42	--	--	--			
	6-12	6.8	1.43	6.8	5.0	2.0			
	12-18	6.6	1.45	7.6	4.0	6.0			
	18-24	6.0	1.62	9.0	3.0	10.0			
	24-30	5.3	7.30	46.8	2.0	56.0			
	30-36	5.5	5.20	32.0	2.0	40.0			
	36-42	5.7	2.90	15.8	2.0	21.0			
	42-48	5.5	6.60	35.6	1.0	50.0			
48-54	5.8	5.00	23.6	1.0	46.0				

TERMINOUS SUNFLOWERS

Site 14 - 13 feet west of Site 11

<u>Date</u>	<u>Depth Inches</u>	<u>pH</u>	<u>EC_e</u>	<u>Ca⁺⁺ Mg⁺</u>	<u>HCO₃⁻ ME/L</u>	<u>Cl⁻</u>	<u>Water Table</u>	<u>EC_w DNR</u>
7/2/73	0-6	5.4	0.60	6.4	2.0	4.0		
	6-12	5.3	0.50	6.4	1.0	2.0		
	12-18	5.5	0.68	6.2	2.0	2.0		
	18-24	5.6	2.00	17.2	2.0	11.0		
	24-30	5.2	2.84	26.2	2.0	23.0		
	30-36	5.3	4.70	45.6	2.0	36.0		
	36-42	5.1	6.00	56.6	2.0	49.0		
	42-48	4.9	5.60	53.0	2.0	36.0		
	48-54	4.8	5.40	57.4	1.0	34.0		
	54-60	4.9	4.50	48.6	1.0	27.0		
			EC _e					
7/24/73	0-6	5.5	1.10	10.2	2.0	5.0		
	6-12	5.3	1.40	12.0	3.0	8.0		
	12-18	5.5	1.23	17.4	5.0	14.0		
	18-24	5.8	1.75	13.0	5.0	10.0		
	24-30	5.7	4.50	37.2	2.0	30.0		
	30-36	5.4	4.60	36.8	--	24.0		
	36-42	5.3	4.10	32.8	2.0	30.0		
	42-48	5.1	4.50	39.6	2.0	33.0		
	48-54	5.4	3.30	27.4	2.0	26.0		
	54-60	5.5	3.28	28.6	4.0	26.0		

TERMINOUS SUNFLOWERS

Site 15 - 3 feet east of Site 11

<u>Date</u>	<u>Depth Inches</u>	<u>pH</u>	<u>EC_e</u>	<u>Ca⁺⁺ Mg⁺</u>	<u>HCO₃⁻ ME/L</u>	<u>Cl⁻</u>	<u>Water Table</u>	<u>EC_w DWR</u>
7/2/73	0-6	5.2	0.69	6.6	1.0	3.0		
Soil	6-12	5.2	0.98	8.6	1.0	4.0		
	12-18	5.2	1.16	9.0	2.0	7.0		
	18-24	5.6	1.35	11.6	3.0	7.0		
	24-30	5.6	2.04	16.6	1.0	13.0		
	30-36	5.5	4.80	43.8	2.0	36.0		
	36-42	5.2	4.70	42.4	2.0	47.0		
	42-48	5.0	5.00	45.8	1.0	41.0		
	48-54	5.0	5.30	52.0	1.0	39.0		
	54-60	4.9	4.50	42.8	2.0	32.0		
				EC _e				
Soil	0-6	5.5	1.10	10.2	2.0	5.0		
	6-12	5.3	1.40	12.0	3.0	8.0		
	12-18	5.5	2.23	17.4	5.0	14.0		
	18-24	5.8	1.75	13.0	5.0	10.0		
	24-30	5.7	4.50	37.2	2.0	30.0		
	30-36	5.4	4.60	36.8	--	24.0		
	36-42	5.3	4.10	32.8	2.0	30.0		
	42-48	5.1	4.50	39.6	2.0	33.0		
	48-54	5.4	3.30	27.4	2.0	26.0		
	54-60	5.5	3.28	28.6	4.0	26.0		

BACON ISLAND POTATOES

Site 17, Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>pH</u>	<u>EC_e</u>	<u>Ca⁺⁺ Mg⁺</u>	<u>HCO₃⁻ ME/L</u>	<u>Cl⁻</u>	<u>Water Table</u>	<u>EC_w DWR</u>
7/6/73	0-6	6.6	3.70	42.8	1.2	--		
Soil	6-12	5.6	1.50	15.6	1.4	7.0		
	12-18	5.2	3.00	30.0	1.2	13.0		
	18-24	5.3	3.00	30.8	0.2	11.0		
	24-30	5.2	2.20	19.8	0.6	9.0		
				EC _{sw}				
8/14/73	6	--	--	--	--	--	12.0"	7/6 .50
	12	8.9	0.88	8.6	7.0	4.0		.53
	18	8.7	1.76	12.0	12.0	8.0		
	24	8.6	1.78	17.4	3.0	5.0		
	30	8.7	1.42	13.8	9.0	5.0		
8/21/73	6	--	--	--	--	--	12.0"	.44
	12	8.9	1.28	14.0	9.0	5.0		
	18	8.7	0.55	5.6	4.0	3.0		
	24	9.0	1.42	14.2	8.0	5.0		
	30	9.1	1.35	12.2	5.0	4.0		
9/7/73	6	--	--	--	--	--	>24.0"	
	12	--	--	--	--	--		
	18	--	--	--	--	--		
	24	--	--	--	--	--		
	30	8.6	1.80	12.0	4.0	5.0		
			EC _e					
9/14/73	0-6	6.3	3.70	39.2	4.0	4.0		
Soil	6-12	6.5	1.49	12.6	--	4.0		
	12-18	5.8	0.89	7.8	3.0	4.0		
	18-24	5.4	1.15	10.0	2.0	5.0		
	24-30	5.2	0.94	6.6	2.0	7.0		
	30-36	6.1	1.55	14.8	1.0	7.0		
	36-42	6.4	2.60	27.6	2.0	12.0		

BACON ISLAND POTATOES

Site 18 - Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>pH</u>	<u>EC_e</u>	<u>Ca⁺⁺ Mg⁺</u>	<u>HCO₃⁻ ME/L</u>	<u>Cl⁻</u>	<u>Water Table</u>	<u>EC_w DWR</u>
7/6/73	0-6	6.6	3.70	42.8	1.2	--		
Soil	6-12	5.6	1.50	15.6	1.4	7.0		
	12-18	5.2	3.00	30.0	1.2	13.0		
	18-24	5.3	3.00	30.8	0.2	11.0		
	24-30	5.2	2.20	19.8	0.6	9.0		
				EC _{sw}				
8/14/73	12	8.8	1.45	13.2	1.0	4.0	12.0"	7/6 .50
	18	8.9	1.60	15.8	1.0	3.0		.53
	24	8.6	1.00	8.8	5.0	4.0		
	30	8.6	1.35	12.2	7.0	4.0		
8/21/73	12	8.6	1.20	12.4	7.0	4.0	12.0"	.44
	18	9.4	1.22	12.0	4.0	9.0		
	24	8.6	0.95	7.8	6.0	4.0		
	30	8.4	1.30	12.6	7.0	4.0		
9/7/73	12	8.8	1.36	11.6	10.0	6.0	>24.0"	
	18	9.0	1.20	11.6	10.0	6.0		
	24	8.8	0.90	2.8	6.0	4.0		
	30	8.5	1.30	--	7.0	2.0		
			EC _e					
9/14/73	0-6	6.3	3.70	39.2	4.0	4.0		
Soil	6-12	6.5	1.49	12.6	--	4.0		
	12-18	5.8	0.89	7.8	3.0	4.0		
	18-24	5.4	1.15	10.0	2.0	5.0		
	24-30	5.2	0.94	6.0	2.0	7.0		
	30-36	6.1	1.55	14.8	1.0	7.0		
	36-42	6.4	2.60	27.6	2.0	12.0		

BACON ISLAND POTATOES

Site 19 - Second Planting

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		
7/27/73 Soil	0-6	6.6	3.70	42.8	1.2	--		
	6-12	5.6	1.50	15.6	1.4	7.0		
	12-18	5.2	3.00	30.0	1.2	13.0		
	18-24	5.3	3.00	30.8	0.2	11.0		
	24-30	5.2	2.20	19.8	0.6	9.0		
			EC _{sw}					
8/1/73	6	8.2	0.54	--	--	--	12.0"	7/6 .50
	12	8.7	1.15	10.8	7.0	4.0		
	18	8.6	1.34	12.6	9.0	5.0		
	24	8.5	0.95	12.8	6.0	4.0		
	30	8.6	1.10	9.8	7.0	5.0		
8/14/74	12	9.0	1.40	14.0	12.0	5.0	12.0"	.53
	18	8.8	1.30	12.8	11.0	4.0		
	24	8.8	2.24	22.8	9.0	6.0		
	30	8.5	1.25	13.8	7.0	6.0		
9/7/73	6	--	--	--	--	--	>24.0"	.44
	12	--	--	--	--	--		
	18	8.6	1.35	--	6.0	7.5		
	24	9.1	0.99	8.4	--	--		
	30	8.8	0.92	7.6	6.0	4.0		
			EC _e					
9/14/73 Soil	0-6	6.3	3.70	39.2	--	--		
	6-12	6.5	1.49	12.6	--	4.0		
	12-18	5.8	0.89	7.8	3.0	4.0		
	18-24	5.4	1.15	10.0	2.0	5.0		
	24-30	5.2	0.94	6.0	2.0	7.0		
	30-36	6.1	1.55	14.8	1.0	7.0		
	36-42	6.4	2.60	27.6	2.0	12.0		

STATEN ISLAND - FLOODED

Site 20

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		
8/15/73 Soil	0-6	5.3	1.65	18.4	4.0	4.0		
	6-12	4.8	2.50	26.0	9.0	9.0		
	12-18	4.6	1.45	14.6	5.0	5.0		
	18-24	4.4	0.73	6.8	3.0	3.0		
	24-30	4.3	0.70	5.8	3.0	3.0		
	30-36	4.4	0.81	7.4	3.0	3.0		
	36-42	4.9	0.55	4.6	3.0	3.0		
	42-48	5.0	0.95	7.6	3.0	3.0		
	48-54	4.8	0.80	6.2	3.0	3.0		
	54-60	4.9	0.63	4.4	3.0	3.0		
			EC _{sw}					
8/20/73	12	--	--	--	--	--		
	24	8.6	0.75	9.2	8.0	4.0		
	36	8.5	0.72	9.0	7.0	1.0		
8/28/73	12	8.8	1.70	20.0	13.0	5.0	.46	
	24	9.0	1.12	14.8	12.0	2.0		
	36	9.2	0.80	9.8	7.0	2.0		
9/6/73	12	9.0	1.22	16.4	14.0	2.5	.30	
	24	9.0	1.10	14.2	12.0	2.5		
	36	9.9	0.88	10.4	7.0	3.0		
9/14/73	12	8.0	1.10	13.6	13.0	1.5	.30	
	24	7.6	1.38	16.2	14.0	1.5		
	36	7.3	0.98	11.4	7.0	3.0		
11/14/73	12	8.4	0.89	13.0	12.0	2.0		
	24	8.4	0.89	12.6	12.0	2.0		
	36	8.4	0.72	9.4	8.0	2.0		
			EC _e					
11/13/73 Soil	0-6	5.3	0.50	4.2	1.0	2.0		
	6-12	5.6	0.30	3.8	1.0	1.0		
	12-18	5.4	0.37	3.2	1.0	2.0		
	18-24	5.3	0.37	3.4	1.0	2.0		
	24-30	5.2	0.50	4.4	1.0	3.0		
	30-36	4.6	0.45	3.4	1.0	3.0		
	36-42	4.8	0.45	3.2	3.0	3.0		

STATEN ISLAND - FLOODED

Site 21

Date	Depth Inches	pH	EC _e	Ca ⁺⁺			Water Table	EC _w DWR
				Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻		
8/15/73 Soil	0-6	6.5	1.50	12.8	6.0	7.0		
	6-12	6.6	2.65	29.0	15.0	6.0		
	12-18	6.8	2.05	14.6	8.0	6.0		
	18-24	6.0	1.28	8.8	6.0	2.0		
	24-30	6.2	0.80	6.0	3.0	2.0		
	30-36	6.4	0.55	4.0	2.0	3.0		

EC _{sw}								
8/28/73	12	9.0	6.4	60.6	17.0	21.5	.46	
	24	8.9	1.35	12.8	9.0	4.0		
	36	9.0	1.10	10.4	9.0	3.5		
9/6/73	12	8.9	4.1	32.2	15.0	10.5	.30	
	24	8.9	3.75	7.6	8.0	3.0		
	36	9.0	0.80	8.4	9.0	2.0		
9/14/73	12	8.4	2.05	19.8	2.0	3.0	.27	
	24	8.1	0.85	6.2	6.0	1.0		
	36	8.3	0.53	5.6	3.0	3.0		
11/28/73	12	8.5	1.29	9.6	8.0	4.0		
	24	8.6	1.75	11.6	7.0	7.0		
	36	8.6	0.94	4.4	--	--		

EC _e								
11/28/73 Soil	0-6	6.4	0.58	6.0	3.0	4.0		
	6-12	6.4	0.81	6.8	4.0	6.0		
	12-18	6.4	1.12	9.2	4.0	6.0		
	18-24	6.4	1.20	10.4	2.0	6.0		
	24-30	6.4	1.04	8.4	2.0	6.0		
	30-36	6.2	0.98	8.6	2.0	7.0		

STATEN ISLAND - FLOODED

Site 22

Date	Depth Inches	pH	EC _e	Ca ⁺⁺ Mg ⁺	HCO ₃ ⁻ ME/L	Cl ⁻	Water Table	EC _w DWR
8/15/73	0-6	6.5	0.59	6.2	1.0	1.0		
	6-12	6.8	0.59	5.6	5.0	3.0		
	12-18	6.6	1.12	9.8	5.0	5.0		
	18-24	6.3	1.25	11.2	3.0	7.0		
	24-30	5.9	1.50	11.2	2.0	7.0		
	30-36	6.0	1.75	11.8	2.0	12.0		
	36-42	6.1	1.30	--	1.0	11.0		
	42-48	5.9	1.80	11.4	2.0	15.0		
	48-54	5.9	2.60	17.4	2.0	23.0		
	54-60	6.1	2.24	15.8	2.0	18.0		

EC _{sw}								
8/20/73	12	--	--	--	--	--		
	24	8.5	1.20	--	--	--		
	36	8.3	0.55	4.4	4.0	3.0		
8/28/73	12	9.0	6.40	60.0	17.0	21.5		
	24	8.9	1.35	12.8	9.0	4.0		
	36	9.0	1.10	10.8	9.0	3.5		
9/6/73	12	8.9	4.10	34.2	15.0	1.5		
	24	8.9	3.75	7.6	8.0	3.0		
	36	9.0	0.80	8.4	9.0	2.0		
9/14/73	12	--	--	--	--	--		.27
	24	8.3	1.72	18.2	1.0	1.5		
	36	--	--	--	--	--		
11/14/73	12	8.6	1.30	13.0	16.0	2.0		
	24	8.5	0.74	12.8	10.0	2.0		
	36	8.3	0.90	10.0	11.0	2.0		

EC _e								
11/12/73	0-6	6.6	0.75	5.6	3.0	3.0		
	6-12	6.9	0.48	3.8	4.0	2.0		
	12-18	7.0	0.43	3.6	3.0	1.0		
	18-24	6.6	0.40	3.0	4.6	3.0		
	24-30	6.3	0.44	3.4	3.0	3.0		
	30-36	6.2	0.80	6.6	3.0	4.0		
	36-42	5.9	0.40	3.8	2.0	2.0		
	42-48	5.5	1.32	8.1	2.0	6.0		

TERMINOUS ASPARAGUS

Site 2 - Test Plot

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N PPM</u>	<u>NH₄-N</u>
6/4/73	27	41.0"	103.00	0.10
	33		8.00	0.35
	39		0.22	0.10
	45		0.15	--
	51		0.30	0.10
6/11/73	27	43.0"	--	--
	33		5.40	0.10
	39		0.75	0.10
	45		--	--
	51		--	0.20
6/19/73	27	44.5"	88.00	0.28
	33		4.20	0.10
	39		0.20	0.10
	45		0.20	0.23
	51		0.33	0.23
7/5/73	27	45.25"	--	--
	33		--	--
	39		--	--
	45		--	--
	51		--	--
7/17/73	27	47.0"	50.00	0.35
	33		0.70	0.10
	39		0.70	0.10
	45		0.20	0.10
	51		--	--
8/1/73	27	51.0"	--	--
	33		0.35	6.80
	39		0.35	0.10
	45		--	--
	51		--	--
8/31/73	27	47.0"	--	--
	33		--	--
	39		0.35	0.10
	45		0.35	0.10
	51		0.35	0.10

No
Irrigation

Rainfall
8"



RIO BLANCO TOMATOES

Site 3

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N</u>	<u>NH₄-N</u>
			<u>PPM</u>	
6/19/73	18	43.5"	--	--
	36		21.00	0.10
	54		46.00	0.14
6/26/73	18	40.0"	--	--
	36		29.00	0.14
	54		32.00	0.15
7/3/73	18	48.0"	--	--
	36		28.0	0.23
	54		29.0	0.10
7/10/73	18	53.0"	--	--
	36		28.0	0.64
	54		33.0	0.10
7/19/73	18	55.0"	--	--
	36		34.0	--
	54		28.0	0.10
8/2/73	18	56.0"	--	--
	36		--	0.14
	54		--	--

Irrigation
7/5/73

TERMINOUS "Y" VIRGIN PEAT SOIL

45.

Site 4

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N</u>	<u>NH₄-N</u>
			PPM	
6/4/73	46	54.0"	0.58	1.30
	48		--	--
	54		0.95	0.10
	60		0.10	1.00
6/11/73	42	58.0"	--	--
	48		0.54	0.10
	54		0.20	0.35
	60		0.25	0.62
6/26/73	42	56.0"	0.25	--
	48		0.11	0.37
	54		0.30	0.18
	60		0.10	0.52
7/12/73	42	51.0"	--	--
	48		--	--
	54		--	--
	60		--	--
7/24/73	42	46.5"	0.75	0.18
	48		--	--
	54		0.10	0.10
	60		0.10	0.15
8/3/73	42		0.42	0.80
	48		0.41	2.20
	54		0.40	2.50
	60		0.35	0.25
8/17/73	42	51.0"	0.42	0.80
	48		0.41	2.20
	54		0.41	0.10
	60		0.35	0.20

BACON ISLAND POTATOES

46.

Site 5 - 39 inches from Drain Ditch, 1 Row from Spud Ditch

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N</u>	<u>NH₄-N</u>
			PPM	
6/21/73	6	10.0"	0.50	0.22
	12		0.10	0.22
	18		1.30	--
	24		0.10	0.15
	30		0.10	0.18
6/29/73	6	10.0"	0.25	0.10
	12		0.10	0.35
	18		0.34	0.23
	24		0.34	0.10
	30		0.10	0.10
7/7/73	6	11.0"	2.20	--
	12		1.00	0.76
	18		0.30	0.13
	24		0.25	0.10
	30		0.25	0.10
7/13/73	6	19.0"	0.25	0.21
	12		0.20	0.40
	18		0.10	0.18
	24		0.10	0.18
	30		0.10	0.10
7/20/73	6	19.0"	--	--
	12		0.10	0.76
	18		--	--
	24		--	--
	30		0.10	0.15
7/27/73	6	26.0"	--	--
	12		1.10	0.40
	18		1.50	0.15
	24		--	0.30
	30		1.8	0.10
8/3/73	6	34.0"	--	--
	12		0.46	0.22
	18		0.58	0.30
	24		--	--
	30		0.25	0.10

BACON ISLAND POTATOES

Site 6 - 8 rows from Spud Ditch Adjacent to Site 5

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N</u> PPM	<u>NH₄-N</u> PPM
6/21/73 Irrigation 6/19/73	6	12.0"	0.16	0.14
	12		0.10	0.33
	18		0.10	0.43
	24		0.10	0.15
	30		0.60	0.30
6/29/73	6	12.0"	0.38	0.43
	12		0.21	0.10
	18		0.19	0.10
	24		0.28	0.14
	30		0.39	0.25
7/7/73	6	14.0"	0.22	0.60
	12		0.10	0.10
	18		0.19	0.12
	24		0.67	0.25
	30		0.10	0.12
7/13/73	6	24.0"	0.10	0.10
	12		0.10	0.14
	18		0.80	0.14
	24		0.28	0.15
	30		0.20	0.23
7/20/73	6		0.86	0.12
	12		0.42	0.70
	18		0.58	0.25
	24		0.66	0.78
	30		0.35	0.35
7/27/73	6	36.0"	--	--
	12		0.35	0.57
	18		0.35	0.60
	24		0.67	0.25
	30		1.10	0.74
8/3/73	6		--	--
	12		1.40	0.54
	18		0.80	0.65
	24		0.35	0.16
	30		0.36	0.60

TERMINOUS CORN

Site 7 - 12 inches from Spud Ditch

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N</u> <u>PPM</u>	<u>NH₄-N</u> <u>PPM</u>
6/11/73 Irrigation 6/5/73	32	45.0"	0.13	0.10
	38		0.10	0.10
	44		0.38	--
	50		--	0.18
6/19/73	32	27.0"	15.00	0.25
	38		8.90	0.12
	44		0.22	0.19
	50		0.26	0.10
6/27/73	32	17.5"	0.50	0.30
	38		6.80	0.10
	44		0.22	0.24
	50		0.90	0.30
7/5/73	32	9.0"	0.10	0.50
	38		1.00	0.10
	44		0.10	0.12
	50		0.10	0.10
7/10/73	32	25.5"	0.20	0.20
	38		0.10	0.14
	44		--	--
	50		--	--
7/17/73 Irrigation 8/1/73	32	29.5"	0.10	0.95
	38		0.25	0.50
	44		0.25	0.10
	50		0.60	0.10
8/1/73	32	19.5"	--	--
	38		0.35	0.13
	44		--	--
	50		--	--
8/16/73	32	26.0"	0.35	0.33
	38		0.35	0.18
	44		--	--
	50		0.35	0.13
8/30/73	32	45.5"	0.35	0.10
	38		0.35	1.70
	44		--	--
	50		--	--

TERMINOUS CORN

49.

Site 8 - 6 Rows (1/4 distance) from Spud Ditch

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N</u> PPM	<u>NH₄-N</u> PPM
6/27/73	32	13.5"	19.00	0.10
	38		13.00	0.30
	44		--	--
	50		0.82	0.10
7/5/73	32	9.0"	0.16	0.80
	38		5.00	0.10
	44		2.20	0.60
	50		--	--
7/10/73	32	20.0"	1.80	0.80
	38		2.20	0.10
	44		--	--
	50		0.10	0.10
7/17/73	32	33.5"	0.10	1.00
	38		0.40	0.12
	44		1.00	--
	50		--	--
8/1/73	32	19.5"	0.48	0.18
	38		0.35	0.24
	44		--	--
	50		--	--
8/16/73	32	26.0"	0.35	0.16
	38		0.42	0.10
	44		--	--
	50		--	--
8/30/73	32	37.5"	0.80	0.10
	38		0.37	0.15
	44		--	--
	50		--	--

TERMINOUS CORN

Site 9 - 11 Rows (1/2 distance) from Spud Ditch

<u>Date</u>	<u>Depth Inches</u>	<u>Water Table</u>	<u>NO₃-N</u>	<u>NH₄-N</u>
			<u>PPM</u>	
6/27/73	32	13.0"	0.80	0.16
Irrigation 6/5/73	38		15.00	--
	44		2.90	0.19
	50		--	--
	7/5/73	32	7.0"	5.20
	38		4.30	0.19
	44		0.10	0.10
	50		0.15	0.18
7/10/73	32	20.0"	0.98	0.13
	38		4.20	0.10
	44		0.38	0.15
	50		--	--
7/17/73	32	30.5"	1.20	0.14
	38		8.40	0.10
	44		0.30	0.10
	50		0.10	0.10
8/1/73	32	17.5"	0.59	0.88
Irrigation 8/1/73	38		--	--
	44		0.35	0.10
	50		--	--
	8/16/73	32	25.5"	--
	38		--	--
	44		--	--
	50		--	--
8/30/73	32	37.5"	0.40	0.10
	38		0.35	0.10
	44		0.62	0.10
	50		--	--

TERMINOUS ASPARAGUS SEEDLINGS - TEST PLOT

Site 10 - 25th row south of Highway 12

Date	Depth Inches	Water Table	NO ₃ -N	NH ₄ -N
			PPM	
6/27/73 Sprinkler Irrigation 6/28/73	27	37.0"	0.00	0.10
	33		0.20	0.10
	39		--	--
	45		1.60	0.29
	51		7.30	0.43
7/3/73	27		13.00	0.10
	33		0.10	0.10
	39		9.80	0.12
	45		2.00	--
	51		0.40	0.15
7/10/73 Sprinkler Irrigation 7/16/73	27	38.0"	0.36	0.18
	33		0.20	0.10
	39		2.00	0.30
	45		--	--
	51		0.90	0.14
7/17/73	27	37.5"	1.80	0.10
	33		0.46	0.10
	39		--	--
	45		--	--
	51		--	--
7/24/73	27	39.5"	--	--
	33		0.10	0.10
	39		--	--
	45		--	--
	51		--	--
8/1/73 Sprinkler Irrigation 8/8/73	27	36.5"	0.68	0.15
	33		--	--
	39		0.60	0.24
	45		0.35	0.20
	51		1.15	0.35
8/17/73 Sprinkler Irrigation 8/16/73	27	34.0"	0.35	0.10
	33		0.35	0.20
	39		0.42	0.34
	45		0.35	0.78
	51		0.35	0.78
8/30/73 Sprinkler Irrigation 8/29/73	27		2.80	0.10
	33		0.35	0.34
	39		3.20	1.00
	45		--	--
	51		0.78	0.76
9/6/73	27		1.80	0.10
	33		0.35	0.18
	39		--	--
	45		--	--
	51		--	--

BACON ISLAND ASPARAGUS

52.

Site 1

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		PPM	
9/7/73	36	0.02	4.6
	42	--	--
	48	0.04	3.8

TERMINOUS ASPARAGUS

Site 2 - Test Plot

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u> PPM	<u>K</u>
8/31/73	39	0.05	3.2
	45	0.04	2.3

RIO BLANCO TOMATOES

54.

Site 3

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P PPM</u>	<u>K</u>
8/16/73	32	0.04	4.6
	38	0.06	1.8
8/30/73	38	0.01	2.0

TERMINOUS "y" VIRGIN PEAT SOIL

55.

Site 4

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		PPM	
8/3/73	42	0.02	3.4

TERMINOUS CORN

Site 8 - 6 Rows (1/4 distance) from Spud Ditch

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		PPM	
6/26/73	32	0.08	0.15
	38	0.13	0.14
8/16/73	32	0.07	4.60
	38	0.02	2.90

TERMINOUS CORN

Site 9 - 11 Rows (1/2 distance) from Spud Ditch

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u> PPM	<u>K</u>
8/16/73	32	0.03	2.7
	44	0.02	3.8
	50	0.02	3.4
8/30/73	32	0.02	2.7
	38	0.02	3.2
	44	0.03	3.6

TERMINOUS ASPARAGUS SEEDLINGS - TEST PLOT

Site 10 - 25th row south of Highway 12

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		PPM	
6/26/73	27	0.16	0.11
8/17/73	33	0.02	3.60
	39	0.02	5.00
8/30/73	27	0.02	3.40
	33	0.03	3.20
	39	0.34	5.60
	Irrigation water	0.06	4.60

TERMINOUS SUNFLOWERS

59.

Site 11

<u>Date</u>	<u>Depth</u> <u>Inches</u>	<u>PO₄-P</u> <u>PPM</u>	<u>K</u>
6/26/73	36	0.02	0.16
	48	0.30	0.17
	54	0.04	0.15

STATEN ISLAND ALFALFA

60.

Site 12

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		<u>PPM</u>	
9/14/73	18	0.06	1.5
	24	0.03	1.0
	24	0.02	1.5
	30	0.01	1.0
	36	0.03	1.0
	36	0.02	3.4
	42	0.01	0.5

RINDGE TRACT CORN

61.

Site 13

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u> PPM	<u>K</u>
8/16/73	24	0.04	5.0
	36	0.01	5.2
	48	0.01	5.6

BACON ISLAND POTATOES

62.

Site 17, Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		<u>PPM</u>	
8/21/73	Spud Ditch water	0.11	3.8
9/7/73	30	0.26	5.8

BACON ISLAND POTATOES

63.

Site 18 - Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		<u>PPM</u>	
8/21/73	Spud Ditch water	0.11	3.8
9/7/73	12	0.08	3.8
	18	0.07	2.9
	24	0.08	2.0
	30	0.27	6.1

BACON ISLAND POTATOES

62

Site 19 - Second Planting

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u> PPM	<u>K</u>
8/21/73	Spud Ditch water	0.11	3.8
9/7/73	18	--	--
	24	--	--
	30	0.19	5.8

STATEN ISLAND - FLOODED

65.

Site 20

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u>	<u>K</u>
		PPM	
8/20/73	36	0.06	5.4
8/28/73	36	0.04	4.3
	water surface	0.70	45.0
	river valve	0.13	1.8
9/6/73	12	0.02	7.4
	24	0.04	5.6
	36	0.05	3.4
	water surface	0.05	10.5
	river valve	0.12	2.7
9/14/73	24	0.02	6.1
	water surface	0.36	12.0
	river valve	0.07	1.8
9/20/73	river valve	0.06	1.5
9/21/73	12	0.04	5.4

STATEN ISLAND - FLOODED

66

Site 21

<u>Date</u>	<u>Depth Inches</u>	<u>PO₄-P</u> PPM	<u>K</u>
9/14/73	12	0.03	15.4
	24	0.08	3.4
	36	0.24	5.4
	surface water	0.10	7.2

STATEN ISLAND - FLOODED

Site 22

Line #

Date	Depth Inches	PO ₄ -P	K	Remarks
9/14/73	24	0.04	4.3	19824, 1985-1981 19824, 1985-1981 Tracks Fair, Body

19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				
19824, 1985-1981 Automatic Transmission, F78/14 Engine: Fair, Body: Good				

BACON ISLAND ASPARAGUS

Site 1

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	6/15/73	0-6	119
		6-12	92
		12-18	53
		18-24	97
		24-30	54
		30-36	57
		36-42	54
		42-48	60
		48-54	63
Out Soil Samples	9/19/73	0-6	125
		6-12	115
		12-18	120
		18-24	98
		24-30	70
		30-36	65
		36-42	68
		42-48	63
		48-54	57

TERMINOUS ASPARAGUS

69.

Site 2 - Test Plot

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	5/16/73	0-6	114
		6-12	119
		12-18	138
		18-24	177
		24-30	123
		30-36	135
		36-42	75
		42-48	37
		48-54	89
Out Soil Samples	11/1/73	0-6	93
		6-12	110
		12-18	119
		18-24	183
		24-30	145
		30-36	114
		36-42	47
		42-48	34
		48-54	33

RIO BLANCO TOMATOES

70.

Site 3

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
	6/15/73	0-6	42
		6-12	44
In		12-18	16
Soil		18-24	83
Samples		24-30	25
		30-36	23
		36-42	20
		42-48	31
		<u>48-54</u>	<u>38</u>

- out samples not taken -

TERMINOUS "Y" VIRGIN PEAT SOIL

71.

Site 4

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	5/19/73	0-6	226
		6-12	219
		12-18	275
		18-24	203
		24-30	130
		30-36	180
		36-42	138
		<u>42-48</u>	<u>146</u>
Out Soil Samples	9/14/73	0-6	219
		6-12	116
		12-18	173
		18-24	151
		24-30	150
		30-36	151
		36-42	159
		42-48	157
<u>48-54</u>	<u>138</u>		

BACON ISLAND POTATOES

Site 5 - 39 inches from Drain Ditch, 1 Row from Spud Ditch

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
	6/15/73	0-6	125
Row		6-10	97
1		12-18	136
In		18-24	151
Soil		24-30	178
Samples			
		0-6	159
Row		6-12	133
8		12-18	91
		18-24	160
		<u>24-30</u>	<u>217</u>
	8/3/73	0-6	112
Out		6-12	115
Soil		12-18	116
Samples		<u>18-24</u>	<u>146</u>

BACON ISLAND POTATOES

Site 6 - 8 rows from Spud Ditch Adjacent to Site 5

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
	6/15/73	0-6	125
Row		6-10	97
1		12-18	136
In		18-24	151
Soil		24-30	178
Samples			
		0-6	159
Row		6-12	133
8		12-18	91
		18-24	160
		24-30	217
	7/28/73	0-6	112
Out		6-12	115
Soil		12-18	116
Samples		18-24	146

TERMINOUS CORN

74.

Site 7 - 12 inches from Spud Ditch

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	5/22/73	0-6	81
		6-12	104
		12-18	152
		18-24	130
		24-30	158
		30-36	116
		36-42	59
		<u>42-48</u>	<u>33</u>
Out Soil Samples	8/30/73	0-6	104
		6-12	103
		12-18	109
		18-24	168
		24-30	111
		30-36	175
		36-42	124
		42-48	39
		<u>48-54</u>	<u>31</u>

TERMINOUS CORN

75.

Site 8 - 6 Rows (1/4 distance) from Spud Ditch

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	5/20/73	0-6	103
		6-12	102
		12-18	123
		18-24	106
		24-30	145
		30-36	119
		36-42	32
		42-48	33
		48-54	34
		Out Soil Samples	8/30/73
6-12	108		
12-18	183		
18-24	151		
24-30	123		
30-36	61		
36-42	28		
42-48	28		
48-54	36		

TERMINOUS CORN

76.

Site 9 - 11 Rows (1/2 distance) from Spud Ditch

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	5/20/73	0-6	102
		6-12	103
		12-18	116
		18-24	153
		24-30	143
		30-36	46
		36-42	35
		42-48	33
		48-54	35
			<u>54-60</u>
Out Soil Samples	8/30/73	0-6	104
		6-12	133
		12-18	198
		18-24	146
		24-30	151
		30-36	43
		36-42	37
		42-48	32
	<u>48-54</u>	<u>30</u>	

TERMINOUS ASPARAGUS SEEDLINGS - TEST PLOT

77.

Site 10 - 25th row south of Highway 12

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	6/20/73	0-6	109
		6-12	127
		12-18	155
		18-24	121
		24-30	139
		30-36	52
		36-42	38
		42-48	37
		48-54	35
		54-60	35
Out Soil Samples	9/14/73	0-6	103
		6-12	136
		12-18	129
		18-24	126
		24-30	60
		30-36	34
		36-42	37
		42-48	34
		48-54	37
		54-60	32

TERMINOUS SUNFLOWERS

78.

Site 11

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	6/22/73	0-6	105
		6-12	111
		12-18	120
		18-24	184
		24-30	212
		30-36	161
		36-42	151
		48-54	136
		54-60	164
Out Soil Samples	9/14/73	0-6	90
		6-12	106
		12-18	115
		18-24	232
		24-30	211
		30-36	197
		36-42	175
		42-48	190
		48-50	136
		54-60	133

STATEN ISLAND ALFALFA

79.

Site 12

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	6/29/73	0-6	82
		6-12	107
		12-18	134
		18-24	103
		24-30	104
		30-36	110
		36-42	70
		42-48	42
		48-54	33
		54-60	37
Out Soil Samples	11/1/72	0-6	90
		6-12	125
		12-18	91
		18-24	93
		24-30	102
		30-36	106
		36-42	53
		42-48	99

RINDGE TRACT CORN

Site 13

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	6/28/73	0-6	121
		6-12	131
		12-18	199
		18-24	164
		24-30	158
		30-36	132
		36-42	183
		<u>42-48</u>	<u>141</u>
Out Soil Samples	9/14/73	0-6	114
		6-12	121
		12-18	146
		18-24	150
		24-30	146
		30-36	167
		36-42	189
		42-48	147
		<u>48-54</u>	<u>138</u>

TERMINOUS SUNFLOWERS

81.

Site 14 - 13 feet west of Site 11

	<u>Date</u>	<u>Depth</u> <u>Inches</u>	<u>SP</u>
In Soil Samples	7/2/73	0-6	66
		6-12	113
		12-18	164
		18-24	171
		24-30	216
		30-36	165
		36-42	165
		42-48	155
		48-54	142
		<u>54-60</u>	<u>147</u>
Out Soil Samples	7/24/73	0-6	90
		6-12	106
		12-18	115
		18-24	232
		24-30	211
		30-36	197
		36-42	175
		42-48	190
		<u>48-54</u>	<u>136</u>

TERMINOUS SUNFLOWERS

Site 15 - 3 feet east of Site 11

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
	7/2/73	0-6	93
		6-12	102
In		12-18	139
Soil		18-24	154
Samples		24-30	173
		30-36	163
		36-42	148
		42-48	131
		48-54	136
		<u>54-60</u>	<u>128</u>
		0-6	90
Out		6-12	106
Soil		12-18	115
Samples		18-24	232
		24-30	211
		30-36	197
		36-42	175
		42-48	190
		48-54	136
		<u>54-60</u>	<u>133</u>

BACON ISLAND POTATOES

Site 17, Second Planting

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	7/6/73	0-6	119
		6-12	126
		12-18	141
		18-24	135
		<u>24-30</u>	<u>138</u>
Out Soil Samples	9/14/73	0-6	106
		6-12	117
		12-18	110
		18-24	141
		24-30	206
		<u>30-36</u>	<u>89</u>
		<u>36-42</u>	<u>125</u>

BACON ISLAND POTATOES

84.

Site 18 - Second Planting

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	7/6/73	0-6	119
		6-12	126
		12-18	141
		18-24	135
		<u>24-30</u>	<u>138</u>
Out Soil Samples	9/14/73	0-6	106
		6-12	117
		12-18	110
		18-24	141
		24-30	206
		30-36	89
	<u>36-42</u>	<u>125</u>	

BACON ISLAND POTATOES

Site 19 - Second Planting

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	7/27/73	0-6	119
		6-12	126
		12-18	141
		18-24	135
		24-30	138
Out Soil Samples	9/14/73	0-6	106
		6-12	117
		12-18	110
		18-24	141
		24-30	206
		30-36	89
		36-42	125

STATEN ISLAND - FLOODED

86.

Site 20

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	8/15/73	0-6	75
		6-12	76
		12-18	72
		18-24	154
		24-30	231
		30-36	220
		36-42	208
		42-48	98
		48-54	90
			<u>54-60</u>
Out Soil Samples	11/13/73	0-6	71
		6-12	81
		12-18	232
		18-24	76
		24-30	121
		30-36	196
		<u>36-42</u>	<u>182</u>

STATEN ISLAND - FLOODED

87.

Site 21

	<u>Date</u>	<u>Depth Inches</u>	<u>SP</u>
In Soil Samples	8/15/73	0-6	104
		6-12	95
		12-18	113
		18-24	136
		24-30	142
		<u>30-36</u>	<u>144</u>
Out Soil Samples	11/28/73	0-6	96
		6-12	113
		12-18	135
		18-24	159
		24-30	180
		<u>30-36</u>	<u>184</u>

