

# Relationship Between Yield of Processing Sweet Corn and Nitrogen (N) Rate

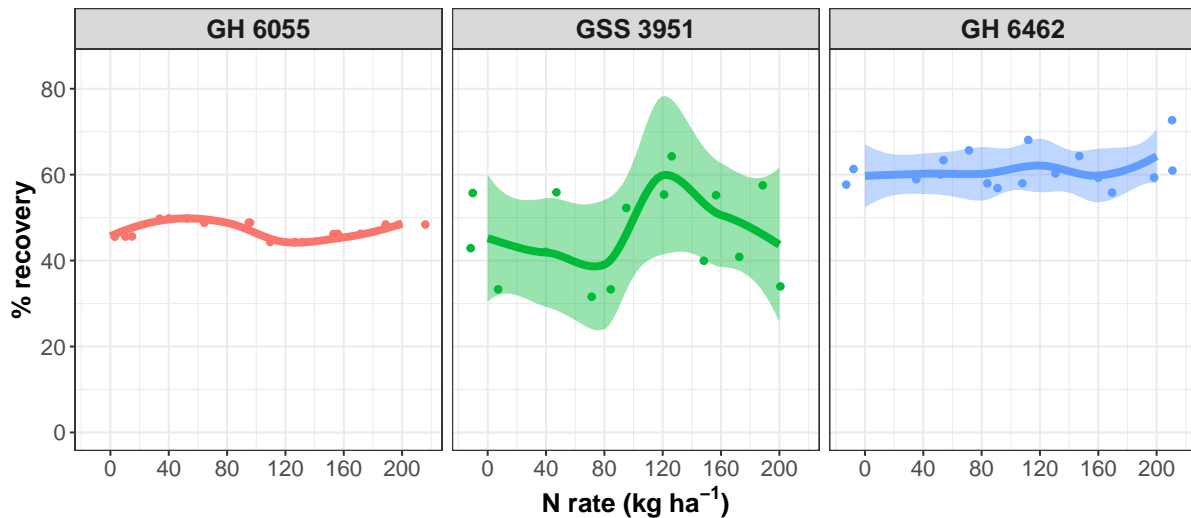
Summary of results

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## 1 Percent of recovery

The figure below shows an overall trend of % of recovery and N rates across the three sweet corn varieties.



The table below shows the % of moisture and % of recovery at each N level across the three sweet corn varieties.

Variety	N rate (kg/ha)	% moisture	% recovery
<b>GH 6055</b>			
GH 6055	0	78.0	45.6
GH 6055	40	79.0	49.8
GH 6055	80	75.0	48.8
GH 6055	120	81.0	44.3
GH 6055	160	79.0	46.2
GH 6055	200	79.0	48.4
<b>GSS 3951</b>			
GSS 3951	0	84.3	44.0
GSS 3951	40	84.0	49.0
GSS 3951	80	78.7	39.1
GSS 3951	120	82.0	59.8
GSS 3951	160	80.0	45.4
GSS 3951	200	80.5	45.8
<b>GH 6462</b>			
GH 6462	0	71.8	59.5
GH 6462	40	71.2	60.8
GH 6462	80	70.8	60.2
GH 6462	120	72.0	62.1
GH 6462	160	71.2	59.8
GH 6462	200	71.8	64.3

## 2 Yield

The yield is calculated based on the of total ear weight by total number of harvested samples. I am not sure what is the weight unit used with the sweet corn samples.

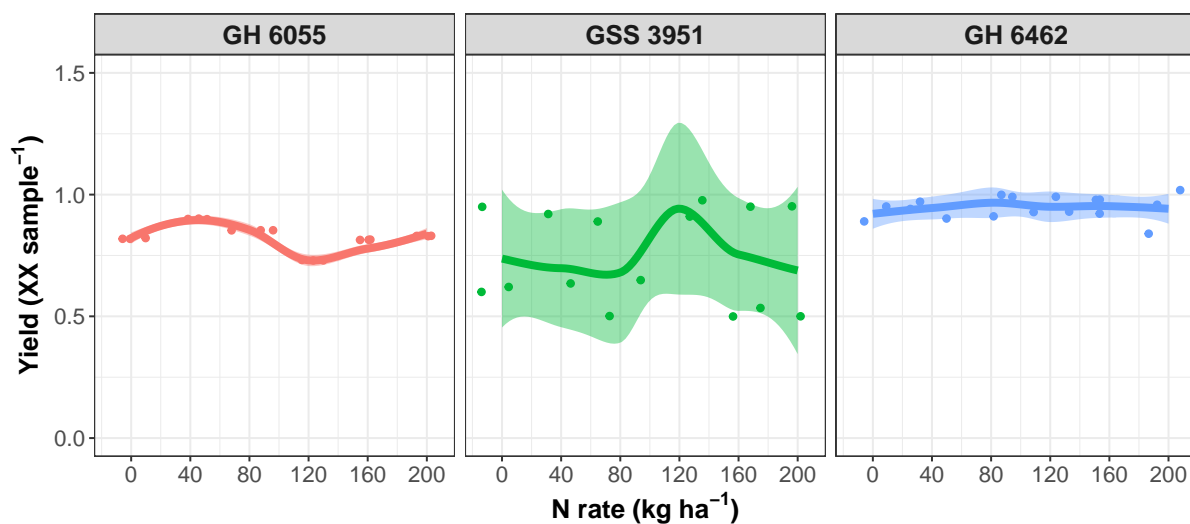
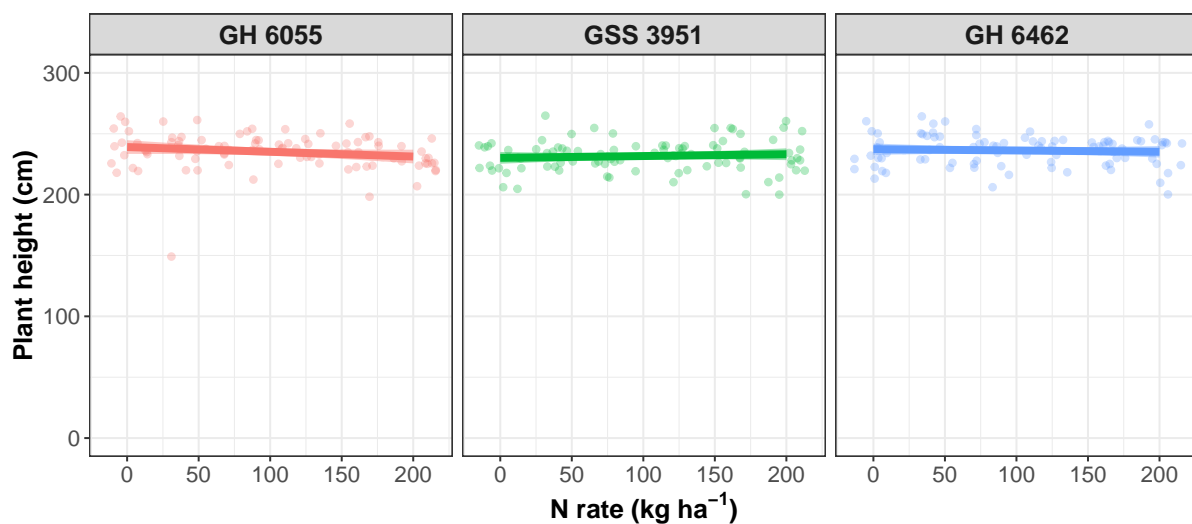


Table below shows the average results for yield, including total weight, weight of husks, weight of ears, and weight of kernels.

Variety	N rate (kg/ha)	Samples	Total weight	Weight of husks	Weight of ears	Weight of kernels
<b>GH 6055</b>						
GH 6055	0	20	20.6	4.1	16.4	9.4
GH 6055	40	20	22.5	4.5	18.0	11.2
GH 6055	80	20	21.1	4.1	17.1	10.3
GH 6055	120	20	18.5	4.2	14.6	8.2
GH 6055	160	20	20.8	4.5	16.3	9.6
GH 6055	200	20	21.7	5.0	16.6	10.5
<b>GSS 3951</b>						
GSS 3951	0	7	7.2	1.6	5.6	3.5
GSS 3951	40	5	8.1	1.6	6.5	4.2
GSS 3951	80	6	6.0	1.5	4.6	2.7
GSS 3951	120	5	7.0	1.5	6.5	4.0
GSS 3951	160	5	5.1	1.0	4.0	2.6
GSS 3951	200	5	8.2	1.5	6.2	4.1
<b>GH 6462</b>						
GH 6462	0	10	10.9	1.6	9.2	2.8
GH 6462	40	10	10.9	1.6	9.4	2.7
GH 6462	80	10	11.2	1.5	9.7	2.3
GH 6462	120	10	11.1	1.6	9.5	2.6
GH 6462	160	10	11.3	1.6	9.6	2.9
GH 6462	200	10	10.8	1.4	9.4	2.7

### 3 Height

Plant height, number of ears and ear insertion were assessed on August 09, 2023.



Variety	N rate (kg/ha)	Plant height (cm)	Number of ears	Ear insertion (cm)
<b>GH 6055</b>				
GH 6055	0	238	2	91
GH 6055	40	234	2	86
GH 6055	80	239	2	86
GH 6055	120	238	2	88
GH 6055	160	235	2	90
GH 6055	200	227	2	87
<b>GSS 3951</b>				
GSS 3951	0	226	2	70
GSS 3951	40	236	2	77
GSS 3951	80	230	2	75
GSS 3951	120	232	2	76
GSS 3951	160	235	2	73
GSS 3951	200	231	2	75
<b>GH 6462</b>				
GH 6462	0	233	2	79
GH 6462	40	244	2	81
GH 6462	80	234	2	83
GH 6462	120	238	2	83
GH 6462	160	236	2	83
GH 6462	200	234	2	74