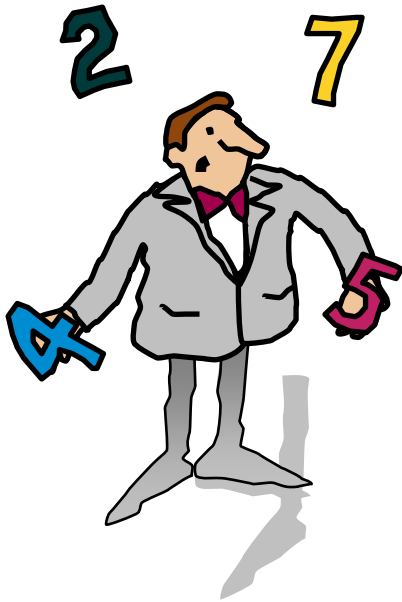


Soybean Form B



Counts & Measurements



Soybean Form-B: Old and New



Row space measurements

Maturity determination

Nodes and lateral branches

Item 12 cannot be greater than item 11

Great Lakes Region-only pod counts

Row Space Measurements

The row space measurements are used in calculating the plant count per acre.

Use the 50 foot tape - units are in 10ths of feet

- Not feet and inches
- 1.5 feet, not 1'6"

At dowel stick, Measure across the rows

- work at the beginning of the buffer zone
- be careful not to damage plants.

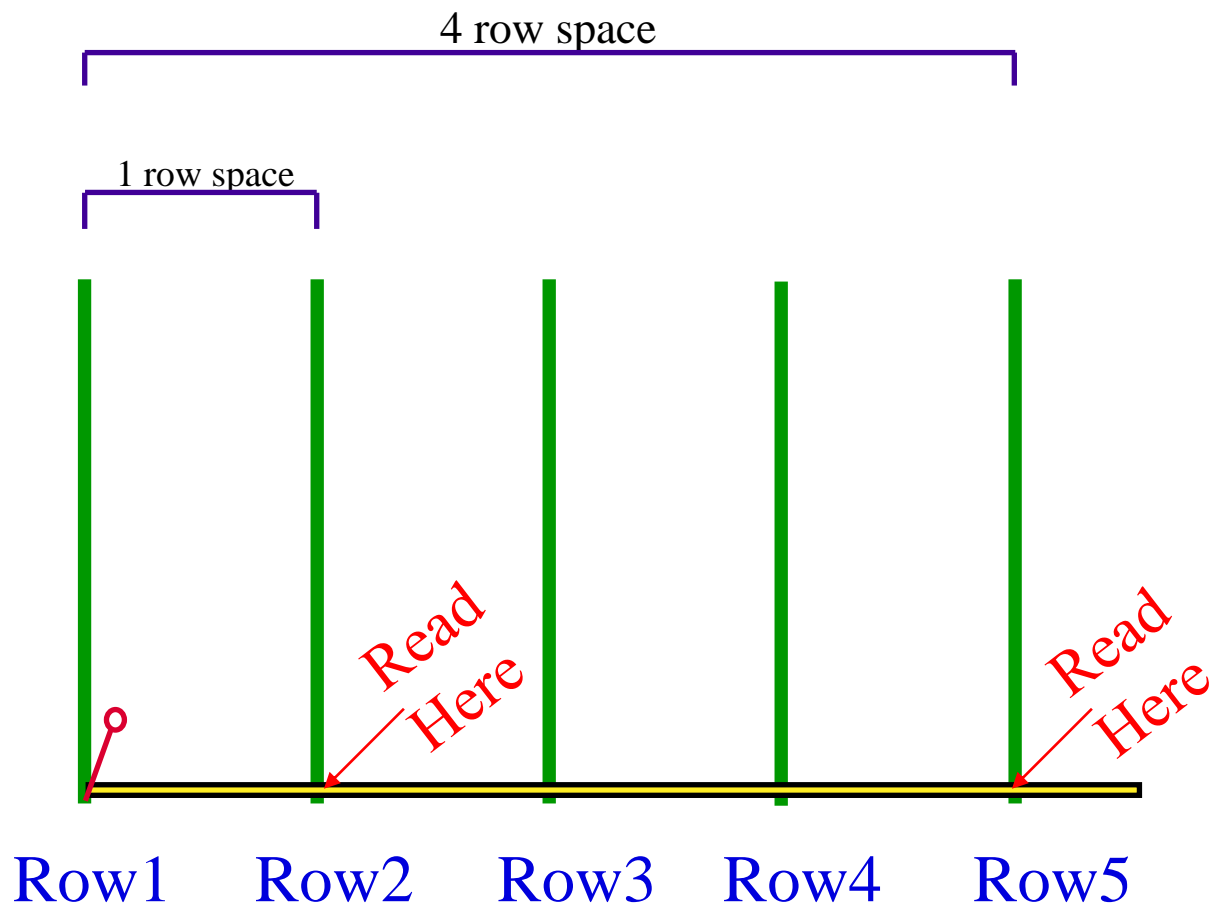
(5a) One Row Space

- Anchor the 50 ft tape measure at the center of the plants in row 1 to the center of the plants in row 2.
- Measure perpendicular to the rows

(5b) Four Row Space

- Measure from the center of the plants in row 1 to the center of the plants in row 5.
- Measure perpendicular to the rows

Row Space Measurements



If there are not enough remaining rows in the field to get the 4-row space measurement...

- Measure from the center of row 2 in the direction of row 1 (across 4 row spaces)

Row spacing of **irregular planting** (this is rare): take the measurements the same way (not to be confused with twin rows)

- 4 row measurements = sum of 2 narrow middles and 2 wide middles

Item 7 Maturity of Plants

- Stage of maturity for each unit must be determined separately
- Undecided on maturity stage? - classify the unit in the *lower* stage of maturity

7. Stage of maturity. Circle the Maturity Code for each unit.

When in doubt, classify the unit in the lower stage of maturity.

	Pods Set, Leaves Still Green or Earlier		Pods Filled, Leaves Turning Yellow		Pods Turning Color, Leaves Shedding		Pods Brown, Almost Mature or Mature	
UNIT 1	300	2	300	3	300	4	300	5
UNIT 2	302	2	302	3	302	4	302	5

For each unit in Stage 2, complete items 8, 9, 10, 11 and 12 only

For each unit in Stage 3 or 4, complete items 8 and 12 only.

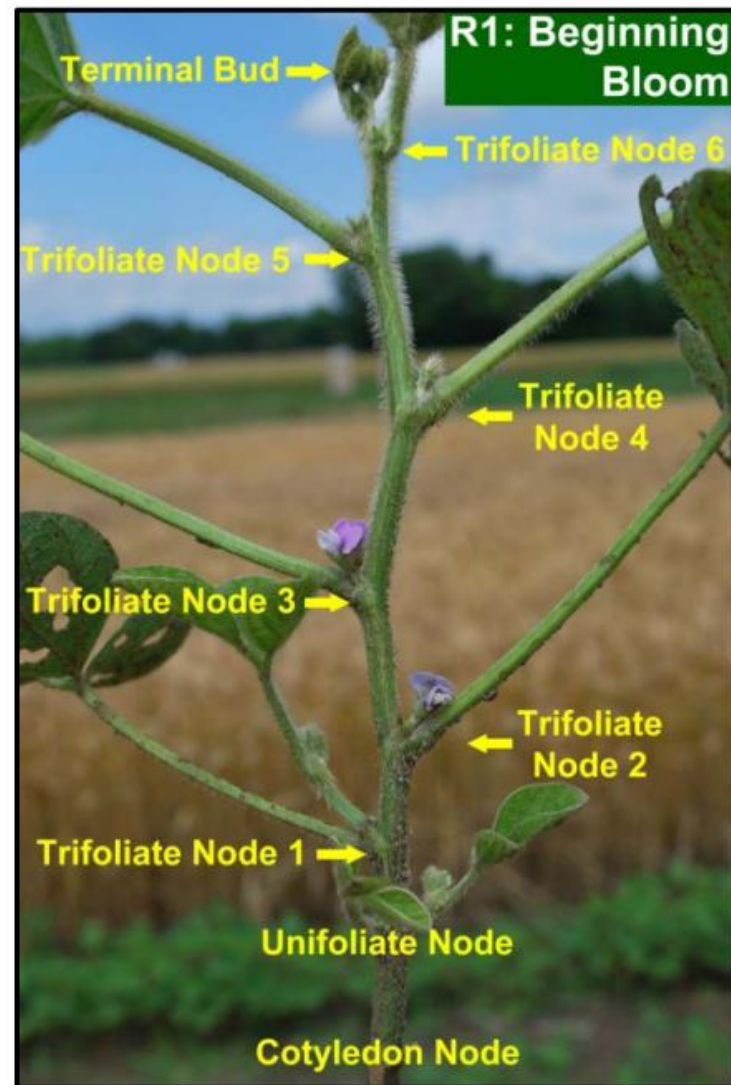
For each unit in Stage 5, complete items 8, 12, 13 and 14 only

Correction:
 “complete items 8, 12, 13, 14, 15, and 16”.

6 Inch Section – Item 9 Nodes

Item 9 – Number of Nodes

- **Node:** point at which subsidiary parts originate or center a point on a stem at which a leaf or leaves are inserted.
- At each node, there is a cluster of pods (blooms or dried flowers), a leaf, a fruiting stalk, or a lateral branch off the main stem for each node that is not barren.



6 Inch Section – Item 10

Lateral Branches

- For OY purposes: branches which bear blooms, dried flowers, or pods are called lateral branches
- Lateral Branches must have:
 - at least one leaf or scar where a leaf was attached
 - at least one node
 - at least one bloom or pod
- Distinguish between a lateral branch with fruit and a *fruiting stalk*
- Fruiting Stalks grow from the main stem, but:
 - don't have any blooms or pods
 - don't have nodes



6 Inch Section



FORM B: SOYBEANS - *continued*

COUNTS for 6-INCH ROW SECTIONS (in front of 3-foot units)

If no plants are present, enter dashes (-) for items 8 thru 12. In each unit, complete all items for Row 1 before starting on Row 2. Perform the check after completing item 12.

	UNIT 1		UNIT 2	
	ROW 1	ROW 2	ROW 1	ROW 2
8. Number of plants	310	311	312	313
9. Number of nodes on main stem of plants	314	315	316	317
10. Number of lateral branches with blooms, dried flowers, or pods	318	319	320	321
11. Number of blooms, dried flowers, and pods	326	327	328	329
12. Number of pods with beans (include all pods in which beans have begun to form regardless of size or condition of beans)	346	347	348	349

FOR ANY ROW, if item 12 is greater than item 11, recount 11 and 12.

- Always review form for accuracy before submitting.



Items 14 – 16: Soybean Counts



- 14: Identify unit used. This should be U1 unless unavailable
- 15: Count of developed **pods** (>50% of standard size, thicker than a nickel)
- 16: Count of undeveloped **pods** (<50% of standard developed size)

https://crops.extension.iastate.edu/soybean/production_growthstages.html

Ohio and Indiana soybean counts:

14. Unit used (Always use pods from Unit 1, if possible).....	Unit Code	352
15. Number of pods with developed beans (Developed beans are at least 50% of the mass of normal beans in that field. Generally, they are thicker than a nickel.).....	Number	353
16. Number of pods with undeveloped beans.....	Number	354

- NOTE: Special care should be taken so that pods are not damaged to ensure an accurate count of pods at the National Lab

If counts were NOT completed for one or both units, give reason in comments.

ENUMERATOR COMMENTS: _____

What is an Undeveloped Bean?

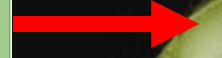
R5 development stage



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R6 development stage



© Iowa State University Extension



What is a Developed Bean?

- R6 development stage





Questions??



Please reach out to your Supervisor, NASDA Coordinator, or OY Survey Stat if you have any questions.

Also, please reference this PowerPoint presentation and the Interviewer's Manual for more information.