



Sugarbeet Harvester Quick Sheet



SOIL CONDITIONS

OBSERVATION OF HARVESTER PERFORMANCE

WET

	Speed	Depth	Row Finder	Lifter Wheels	Paddle Shaft	Chain Bed (Apron Chain)	Grab Bed (Rear Delivery)	Grab Bed (Side Delivery)	Scrub Elevator	Wheel Elevator	Tank & Boom Elevator
Losing Whole Beets	△	▼	-	1-3-4	B-C	1-2-3	A-F-H-I	1-3-8-9	A-B-C-D-F	1-2-4	A
Chipping, Chunking, or Cracking	▼	△	A	2-3-5	A-B-C	-	A-C-F-H-I	1-5-8-9	D-F-G	1-2	A
Breaking Tails	▼	▼	A	2-3	A	1	H-I	-	D-F-G	-	-
Loading Excess Dirt	▼	△	-	3-5	C	-	A-D-E-G	1-4-5-7	E	3-5	-
Skinning Beets	△	▼	-	-	-	-	A-C-F-H	1-3-6-8	D-F	-	-

NORMAL

Losing Whole Beets	△	▼	-	1-3-4	B-C	1-2-3	A-F-H-I	1-3-8-9	A-B-C-D-F	1-2-4	A
Chipping, Chunking, or Cracking	◆	◆	A	2-3-5	A-B-C	-	A-C-F-H-I	1-5-8-9	D-F-G	1-2	A
Breaking Tails	▼	▼	A	2	A	1	H-I	-	D-F-G	-	-
Loading Excess Dirt	▼	△	-	3-5	-	-	B-D-E-G	2-4-5-7	E	3-5	-
Skinning Beets	△	▼	-	-	-	-	A-C-F-H	1-3-6-8	D-F	-	-

DRY

Losing Whole Beets	△	▼	-	1-3-4	B-C	1-2-3	A-F-H-I	1-3-8-9	A-B-C-D-F	1-2-4	A
Chipping, Chunking, or Cracking	◆	▼	A	2-3-5	A-B-C	-	A-C-F-H-I	1-5-8-9	D-F-G	1-2	A
Breaking Tails	▼	▼	A	2	A	1	H-I	-	D-F-G	-	-
Loading Excess Dirt	▼	△	-	3-5	-	-	B-D-E-G	2-4-5-7	E	3	-
Skinning Beets	◆	▼	-	-	-	-	A-C-F-H	1-3-6-8	-	-	-

KEY

* Before making any adjustments, take note if defoliator is knocking beets out of the ground and/or beating beets excessively, causing damage.

* Before making any adjustments, make sure the harvester is **CLEAN** and free of mud buildup.

Speed

- ▼ Slow lifter ground speed (3 to 4 mph)
- △ Increase lifter ground speed (4 to 6 mph)
- ▼ Dig Deeper (3" to 4" making small incremental adjustments)
- △ Dig Shallower (1.5" to 3" making small incremental adjustments)

Depth

- A** Check row finder (clear of leaf or mud buildup/centered and working properly)

Row Finder

Lifter Wheels

- 1 Broken or bent wheel
- 2 Pinch point adjusted too tight; go wider (1.75" starting point)
- 3 Pinch point adjusted too wide; go narrower (1.75" starting point)
- 4 Add lifter wheel close-ups
- 5 Remove lifter wheel close-ups

Paddle Shaft

- A** Adjust paddle shaft up
- B** Adjust paddle shaft down
- C** Move paddles out toward wheels

Chain Bed

Apron Chain

- 1 Adjust chain bed to the lifter wheel (should be 1.5" to 3")
- 2 Adjust chain bed to grabrolls (should be 0.5" between scroll and highest link)
- 3 Chain too loose
- 4 Chain too tight

Grab Bed

Rear Delivery

- A** Speed up grabrolls
- B** Slow down grabrolls (to test - slow the PTO by throttling RPM on tractor down)
- C** Raise the front of the grabroll bed
- D** Lower the front of the grabroll bed
- E** Raise the smooth grabrolls
- F** Lower the front of the grabroll bed
- G** Open the grabrolls (wider on the pinching side - starting point 1.5" from tube to tube)
- H** Close the grabrolls (narrower on the pinching side - starting point 1.5" from tube to tube)
- I** Check spring tension on grabroll mounts

Grab Bed

Side Delivery

- 1 Speed up grabrolls
- 2 Slow down grabrolls (to test - slow the PTO by throttling RPM on tractor down)
- 3 Raise the front of the grabroll bed
- 4 Lower the front of the grabroll bed
- 5 Raise the smooth grabrolls
- 6 Lower the smooth grabrolls
- 7 Open the grabrolls (wider on the pinching side - starting point 1.5" from tube to tube)
- 8 Close the grabrolls (narrower on the pinching side - starting point 1.5" from tube to tube)
- 9 Check spring tension on grabroll mounts

Scrub Elevator

- A** Check distance between scrub chain and the grabrolls
- B** Fill gaps between teardrops or bearing carriers
- C** Look for bent links in the scrub chain
- D** Scrub % is too high - reduce the % or go to no scrub
- E** Scrub % is too low - increase the % (15% max)
- F** Check bogie wheels and increase the spring tensions
- G** Outside scrub chain is too tight

Wheel Elevator

- 1 Check wheel for damaged rods or bent guides and shields
- 2 Add rubber flaps to the wheel
- 3 Remove rubber flaps from the wheel
- 4 Check shoe tension and clearance
- 5 Use wheel cleaner

Tank & Boom Elevator

- A** Gaps along the elevator to the truck (walking chains, damaged bogie wheels, missing pieces of shielding, etc.)