Sukup Grain Bins



Farm • Commercial • Hopper Bottom



Sukup Innovative Ideas **LEADING** the Industry.

Sukup Manufacturing Co. has come a long way from its start in a welding shop in 1963. Companywide, Sukup now has over one million square feet of office and manufacturing space filled with the most advanced metal fabricating equipment. With over 80 patents, Sukup manufactures a full line of equipment for in-bin drying and storage, as well as dryers, farm and commercial grain bins, material handling equipment and steel buildings.

Sukup continues to grow thanks to the same innovative spirit that was its start over 50 years ago.

No matter how much the company **grows**, one thing stays the same - the personal touch that comes from a family-owned company.

Being a family-owned company with many long-term employees allows Sukup Manufacturing Co. to remain dedicated to our customers and providing them the best quality products and best value for the money.



The Bottom Line:

Top-of-the-Line Production Equipment

When Sukup began producing bins, we invested in the most technologicallyadvanced roll-forming equipment, built to our exacting standards, putting us decades ahead of the competition. We have continued to add to that equipment as our bin line has grown.

Our sidewall sheets start out as coils of flat American steel. Our machines form the corrugations, punch the bolt holes and create the curve in the sheets, all to our tight

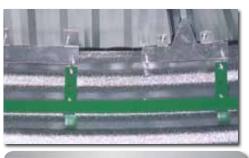


tolerances. Every major component of a Sukup Grain Bin starts out as blank steel that our dedicated employees use to create a top-quality finished product that they, and you, can be proud of.

Quick Assembly, Stand Up Strong: Sukup Sidewall Sheets



You can have your transition openings pre-cut for your Sukup Fans at a nominal charge.



Sukup Bins can be pre-punched for Fastir® track.

Sukup's advanced roll-forming equipment and fixtures ensure close tolerances and high quality for the best fitting bin on the market.

- The precision-engineered, 4" wide corrugated. high-strength, galvanized steel sidewall sheets provide better vertical load carrying capacity.
- 4" wide corrugations also create less resistance and friction to allow grain to flow more easily.
- Sukup has streamlined bin erection by producing sidewall sheets with bolt holes that align properly, and also by pre-punching sheets for flashing, bolton base angle and Fastir stirring machine track (all optional and at no charge).

The Little Things Matter... A Lot

Sukup's dedication to quality doesn't stop with the "big things". We obsess over the little things, like bolts, too.

- Bolts on Sukup Grain Bins are SAE Grade 8.2 (highest standard in the industry) with JS500 or better plating.
- Polyethylene washers are used on the bolts that join the sidewall sheets to form a weather-tight bond.
- All vertical seams are bolted in the peak and valley. Flange nuts increase the connection strength and form a tighter seal.

			The second secon
Bolt Grade	Proof Load (psi)	Yield Strength (psi)	Tensile Strength (psi)
8.2 (Sukup)	120,000	130,000	150,000
5	85,000	92,000	120,000
2	55,000	57,000	74,000

Rolled Flange or Base Angle

Most Sukup Farm Bins are available with either a rolled flange bottom sheet or bolt-on base angle.





U.S. Patent #6,941,712

Built to Last: Serrated Flange Nuts

Sukup uses serrated flange nuts to join and secure the roof panels.

- The flanges make erection quicker and easier.
- Serrations grip the roof surface and prevent the nut from working loose.

Holding Strong: Exclusive Anchor Bracket

As with many other aspects of our bins, Sukup has taken the anchor bracket to a new level.

- The Sukup anchor bracket is 22" high to extend above the plenum area, and serves as a short stiffener.
- Extending the bracket reduces the stresses caused by vertical loads on the sidewall sheets at the bottom ring.
- Patented design allows them to be reversed for use with either bolt-on base angle or rolled flange.
 - Two-piece, channel-shape, L-bracket transfers vertical load directly to the concrete foundation, preventing damage to the bracket and/or bottom bin sheet.
 - The exclusive bracket also prevents vertical and horizontal movement of the bottom sidewall sheets.



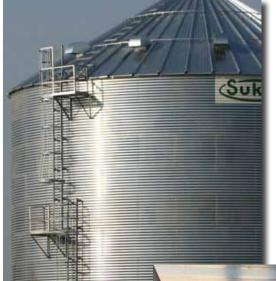


All Sukup Bins are equipped with eave-to-peak roof ladder rungs.

Inside and outside ladders are needed for your safety and are available to your preference.

Handrails are continuous and rungs are securely fastened so they can't turn and sealed, eliminating the need for plugs.

Rungs have a rounded design, eliminating sharp edges.



Steps around the perimeter of the fill hole increase safety and convenience when working around the top of the bin.

Cages are available for outside ladders for increased safety.

Manhole access platforms, landing platforms and stairs are also available.

A Step Up: Sukup Bin Step

The Sukup bin step (included standard) is made from heavy-gauge galvanized steel with a special non-slip surface that does not hold water, providing sure footing no matter what the weather.

The bin step is notched to fit around Sukup anchor brackets, ensuring proper placement and a good fit.





Sukup Bin Doors: Strong & Versatile



- Sukup offers two bin door designs a 66" door and a 44" door for bins with 8 rings or more. Check with your dealer for details on which doors are available on your Sukup Bin.
- Both doors are made of heavy-gauge, galvanized steel and are factoryassembled for a good fit and seal.
- Sukup Bin doors feature a reversible hinge that allows the door to open to the left or right, whichever works best for your system.
- The top and bottom latches on the outer door are connected for one-hand operation.

On the Inside: Inner Bin Door

- Sukup has designed a truly convenient inner bin door.
- There are no tie-bars to contend with.
- Door hinges are specially designed to swing open a full 180° to rest flat against the sidewall.
- The door latch allows single-handed operation and provides plenty of room for hands and knuckles during operation.
- The Hammer Head™ latches ensure easy opening of the doors.
- Hinge adjustments allow you to maintain a good inner door seal.







U.S. Patent #8,123,260

Extra-Stong Farm Roof: 5000 lb.

Sukup has designed our 15' - 48' diameter bins with a rating of 5000 lbs., evenly distributed on peak ring as pure vertical peak load with uniformly distributed roof snow load calculated from **40 psf ground snow zone** or 90 mph wind zone as defined by ASCE7-05 Code (for comparison, this is equivalent to a 12,000 lb. vertical load if based on 30 psf ground snow zone with a 36' bin). An optional 8000 lb. roof is available on 42' and 48' bins.

The strength of Sukup roofs starts with high-strength steel. Each roof sheet is then rigidized every 4" to increase the stiffness of the panels, making them easier to handle.

- 3" ribs serve as rafters for the roof structure, thereby strengthening the sheets.
- The bends on each side of the ribs further increase strength, allowing Sukup roofs to withstand heavy snow loads and high winds.
- The upper (overlapping) ribs are slightly larger than the lower, allowing the sheets to completely overlap and nest properly. Sukup takes the extra step of using two different size rollers to make the ribs on our roof sheets.





The lower ribs on Sukup roofs are slightly smaller than the upper to allow the sheets to nest properly and create a tighter seal than other roofs. Our extra-tall 3" ribs serve as rafters, strengthening our roof sheets. The hemmed edge eliminates sharp edges and increases strength of roof sheet.

Sukup has the strongest roof-to-sidewall connections in the industry.

- With Sukup's standard double-tab roof clips, sheets are supported every 9 ³/₈" at the eave.
- Optional continuous eave clips are available for even greater strength.
- Optional continuous eave vent (right) provides the same strength as our regular continuous eave clip, but adds open area, reducing the number of roof vents required.



Man-Sized Access: Larger Manhole

Sukup designed our bin roofs with a larger manhole - an oval opening that measures 20" x 35.5" - making it a comfortable fit for most operators.

- Allows over 5 ft² of air exhaust area.
- A formed lip and rubber gasket keep rain and snow out of the bin.
- The cover fits securely over the lip, preventing any moisture leakage.
- Special latches hold the manhole cover firmly in place. The latches can be easily released from the ladder side.
- When open, the door lays flat against the roof, eliminating the mess of water and soggy fines.



Fines and water won't collect in lid!

Opening Innovations:

Extra-Large, Extra-Strong Fill Hole

The fill hole on a Sukup Bin is an extra-large 38", providing approximately 8ft² of air exhaust area.



The domed fill hole cap is mounted on steel rods to allow it to slide open and closed and prevent it from being thrown around on windy days.

Optional 60" octagonal diamond deck lid may be used in place of the domed lid.

Optional remote lid opener allows the fill hole cap to be opened from the ground.



Proper Ventilation:Sukup Roof Vents

True to our mission to provide the greatest value for your money, Sukup has developed a roof vent that not only does the job of releasing moisture from the bin, but it also protects the bin roof.

Sukup's exclusive (patent pending) 18" poly vents are virtually indestructible.

Debris deflectors prevent dirt, fines and other trash from collecting behind the vent.





Sukup roof sheets can be pre-punched for 18" roof vents.

Pre-punching produces an extra-tall (11/8") lip that works as a barrier, preventing moisture from leaking into the bin through the opening.

Tapered poly vent is also available. The tapered vent fits close to the peak, releasing more moisture during the drying process and reducing the amount of moisture deposited on the upper portion of the grain during cooling. Used in conjunction with standard 18" vents.

DANGER! DO NOT ENTER BIN!

Keep Clear of All Augers

If you must enter the bin:

Shut off and lock out all power.

Use a safety harness and safety line.

Station another person outside bin.

Avoid the center of the bin.

serious injury or death.

Wear proper breathing equipment or respirator. Follow all applicable safety regulations.

Purchase ladder and safety cages and use a safety harness.

Maintain a secure hand and foot hold when climbing. Metal is slippery when wet.

To avoid falls, never carry items while climbing on bin. Failure to heed these warnings may result in





No One Knows Drying Like Sukup

For over 50 years Sukup has been making grain drying more efficient and profitable. We have the equipment to do the job, and do it right, including bins designed for the stresses of in-bin drying.

Our standard stiffened and non-stiffened bins are designed for stir drying with 3 or fewer down auger stirring machines. If you're using a continuous flow drying system with a horizontal bottom unload, a top dry system, a recirculator system with a center, vertical unload or a stirring machine with 4 or more down augers, a Sukup Heavy Gauge Drying Bin is the bin you need. Sukup Heavy Gauge Drying Bins were specifically-designed for the demands of these in-bin continuous flow drying systems.

The 32° pitch on Sukup Bin Roofs allows moisture to drain off easily.

Sukup Heavy Gauge Drying Bins are available 5 and 6 rings high, stiffened or non-stiffened, available for stirring; 7 rings available stiffened only, not available for stirring.

# of Rings	Eave Ht.	Available Diameter
5	18'5"	15'-48'
6	22'1"	15'-48'
7	25'9"	15'-48'

Drying Bins



The Leader in the Field

Sukup has been the leader in fans and heaters for grain drying for decades. Why? Because Sukup Fans are #1 in airflow and Sukup heaters produce the most heat possible from the fuel consumed, resulting in clean, efficient drying.



Sukup also leads the way in unloading equipment.

The Sukup Sweepway® features fast, safe unloading. The Sweepway® is permanently installed in the bin and all controls are located outside, so there's no need to enter the bin.



Complete Stirring for Even Drying: Fastir® Plus

The Sukup Fastir® Plus with its patented mechanical reversing system is simply the most dependable stirring machine available. And, the constant pitch down augers move more grain for more even moisture content and less overdrying. A stationary outside auger on the Fastir® Plus ensures complete stirring around the outside portion of the bin, where a large portion of the grain is located.

Drying Bin Specifications

Dia.	Rings	Max. Cap. Bu.	Level Cap. Bu.	Max Cap. w/ plenum	Level Cap. w/ plenum	Eave Ht.	Peak Ht.
	3	1848	1651	1693 bu.	1496 bu.	11'1"	15'6"
15'	4	2395	2198	2239	2042	14'9"	19'2"
	5	2941	2744	2786	2589	18'5"	22'10"
	6	3487	3290	3332	3135	22'1"	26'6"
	7	4033	3836	3878	3681	25'9"	30'2"
	8	4580	4383	4425	4228	29'5"	33'10"
	9	5126	4929	4971	4774	33'1"	37'6"
	10	5672	5475	5517	5320	36'9"	41'2"
	11	6219	6022	6063	5866	40'5"	44'10"
	3	6765 2718	6568 2378	6610 2495	6413 2154	44'1" 11'1"	48'6" 16'5"
18'	4	3505	3165	3281	2941	14'9"	20'1"
	5	4292	3951	4068	3728	18'5"	23'9"
	6	5078	4738	4855	4514	22'1"	27'5"
	7	5865	5525	5641	5301	25'9"	31'1"
	8	6652	6311	6428	6088	29'5"	34'9"
	9	7438	7098	7215	6874	33'1"	38'5"
	10	8225	7885	8001	7661	36'9"	42'1"
	11	9012	8671	8788	8448	40'5"	45'9"
	12	9798	9458	9575	9234	44'1"	49'5"
041	3	3777	3237	3473	2932	11'1"	17'4"
21'	4	4848	4307	4544	4003	14'9"	21'
	5	5919	5378	5614	5074	18'5"	24'8"
	6	6989	6449	6685	6145	22'1"	28'4"
	7	8060	7520	7756	7215	25'9"	32' 35'8"
	9	9131	8590 9661	8827 9897	8286 9357	29'5" 33'1"	39'4"
	10	11,272	10,732	10,968	10,428	36'9"	43'
	11	12,343	11,802	12,039	11,498	40'5"	46'8"
	12	13,414	12,873	13,110	12,569	44'1"	50'4"
	3	5034	4227	4637	3830	11'1"	18'3"
24'	4	6433	5626	6035	5229	14'9"	21'11"
	5	7831	7024	7434	6627	18'5"	25'7"
	6	9230	8423	8833	8026	22'1"	29'3"
	7	10,628	9821	10,231	9424	25'9"	32'11"
	8	12,027	11,220	11,630	10,823	29'5"	36'7"
	9	13,425	12,618	13,028	12,221	33'1"	40'3"
	10	14,824	14,017	14,427	13,620	36'9"	43'11"
	11	16,222	15,416	15,825	15,018	40'5"	47'7"
	12	17,621	16,814	17,224	16,417	44'1"	51'3"
27'	3 4	6499 8269	5350 7120	5996 7766	4847 6617	11'1" 14'9"	19'3" 22'11"
	5	10,039	8890	9536	8387	18'5"	26'7"
	6	11,809	10,660	11,306	10,157	22'1"	30'3"
	7	13,579	12,430	13,076	11,927	25'9"	33'11"
	8	15,349	14,200	14,846	13,697	29'5"	37'7"
İ	9	17,119	15,970	16,616	15,467	33'1"	41'3"
	10	18,889	17,740	18,386	17,237	36'9"	44'11"
	11	20,659	19,510	20,156	19,007	40'5"	48'7"
	12	22,429	21,280	21,926	20,777	44'1"	52'3"
30'	3	8181	6605	7560	5984	11'1"	20'2"
30	4	10,366	8790	9746	8170	14'9"	23'10"
	5	12,552	10,976	11,931	10,355	18'5"	27'6"
	6 7	14,737 16,922	13,161 15,346	14,116 16,301	12,540 14,725	22'1" 25'9"	31'2" 34'10"
	8	19,107	17,531	18,486	16,910	25 9 29'5"	38'6"
	9	21,292	19,716	20,672	19,096	33'1"	42'2"
	10	23,478	21,902	22,857	21,281	36'9"	45'10"
İ	11	25,663	24,087	25,042	23,466	40'5"	49'6"
	12	27,848	26,272	27,227	25,651	44'1"	53'2"

Dia.	Rings	Max. Cap.	Level Cap.	Max Cap. w/	Level Cap. w/	Eave Ht.	Peak Ht.
		Bu.	Bu.	plenum	plenum		
	3	10,090	7992	9339 Bu.	7241 Bu.	11'1"	21'1"
33'	4	12,734	10,636	11,983	9885	14'9"	24'9"
00	5	15,378	13,280	14,627	12,529	18'5"	28'5"
	6	18,022	15,925	17,270	15,173	22'1"	32'1"
	7	20,666	18,569	19,914	17,817	25'9"	35'9"
	8	23,310	21,213	22,559	20,462	29'5"	39'5"
	9	25,954	23,857	25,203	23,106	33'1"	43'1"
	10	28,598	26,501	27,847	25,750	36'9"	46'9"
	11	31,243	29,145	30,491	28,394	40'5"	50'5"
	12	33,887	31,789	33,135	31,038	44'1"	54'1"
	3	12,235	9512	11,341	8618	11'1"	22'
36'	4	15,381	12,658	14,488	11,764	14'9"	25'8"
30	5	18,528	15,805	17,634	14,911	18'5"	29'4"
	6	21,675	18,952	20,781	18,058	22'1"	33'
	7	24,822	22,098	23,928	21,204	25'9"	36'8"
	8	27,968	25,245	27,074	24,351	29'5"	40'4"
	9	31,115	28,392	30,221	27,498	33'1"	44'
	10	34,262	31,538	33,368	30,644	36'9"	47'8"
	11	37,408	34,685	36,514	33,791	40'5"	51'4"
	12	40,555	37,832	39,661	36,938	44'1"	55'
	3	17,271	12,946	16,054	11,729	11'1"	23'11"
42'	4	21,554	17,229	20,337	16,012	14'9"	27'7"
42	5	25,837	21,512	24,620	20,295	18'5"	31'3"
	6	30,120	25,795	28,903	24,578	22'1"	34'11"
	7	34,403	30,078	33,186	28,861	25'9"	38'7"
	8	38,686	34,361	37,469	33,144	29'5"	42'3"
	9	42,696	38,644	41,752	37,427	33'1"	45'11"
	10	47,252	42,927	46,035	41,710	36'9"	49'7"
	11	51,534	47,210	50,318	45,993	40'5"	53'3"
	12	55,817	51,493	54,601	50,276	44'1"	56'11"
	3	23,365	16,909	21,775	15,320	11'1"	25'9"
48'	4	28,959	22,503	27,369	20,914	14'9"	29'5"
40	5	34,553	28,098	32,964	26,508	18'5"	33'1"
	6	40,147	33,692	38,558	32,102	22'1"	36'9"
	7	45,741	39,286	44,152	37,696	25'9"	40'5"
	8	51,335	44,880	49,746	43,291	29'5"	44'1"
	9	56,929	50,474	55,340	48,885	33'1"	47'9"
	10	62,523	56,068	60,934	54,479	36'9"	51'5"
	11	68,117	61,662	66,528	60,073	40'5"	55'1"
	12	73,711	67,256	72,122	65,667	44'1"	58'9"
		. =,	,	,	,		

Sukup Manufacturing Co. provides this information to assist you in choosing the optimal equipment for your situation. Sukup specifications should be used only as estimates, and not as a warranty, express or implied, of how a particular Sukup unit will perform under your varying operating conditions. Because we are continuously improving Sukup products, changes may occur that may not be reflected in the specifications.

Max. capacities are based on ASABE Standard S413.1 bins with no plenum and grain peaked at 28° angle of repose with 6% compaction.

Plenum height calculated at 12.5".

Figures shown in black apply to all Sukup Farm Bins. Figures shown in green apply only to Sukup Stiffened Farm Bins.





Sukup

Stiffened Farm Bins

Sukup offers a full line of bins to meet the needs of virtually any grain operation. The chart below may be used as a selection tool. Of course, your local Sukup dealer is your best resource for developing the ideal system to meet your needs.

		Application										
Type Bin		Storage/ Aeration	Drying	Stirring Machine	Cooling	Short-term Wet Holding	General Wet Holding	Working	Side Draw			
	В	✓	Limited	Limited	✓	✓	0	0	0			
FARM	BD	✓	✓	✓	✓	✓	✓	✓	0			
FARM	BS	✓	Limited	Limited	✓	✓	0	0	0			
	BSD	✓	✓	✓	✓	✓	✓	✓	0			
HODDED	внм	✓	0	0	0	✓	0	Limited	0			
HOPPER	ВН	✓	0	0	0	✓	SQ	Limited	SQ			
COMMERCIAL	ВС	✓	0	0	0	Limited	SQ	SQ	√ *			

Designed for this application



NOT designed for this application

Limited by size of bin

SQ Special Quote, contact Sukup Mfg

*Available on bins up to 105' diameter.

Economical Strength:

Adding stiffeners to a bin allows the use of lighter gauge sidewall sheets without sacrificing structural strength, thereby, making a stiffened bin more economical.

- Provide excellent structural stability against grain, wind and seismic loads.
- Transfer roof loads directly to the foundation, resulting in less stress on the sidewall sheets.
- Sukup Stiffened Bins are the strongest available.
- Available with bolt-on base angle only.
- Patented anchor system makes installation easier.



Standing Strong:

Sukup farm stiffeners have up to a 42,000 lb. effective load capacity.

- Extra-strong stiffeners are made from high-strength steel formed into a specifically-engineered shape to maximize the strength of the steel. The end result is a stiffener that will stand straight and strong for many years - and bushels - to come.
- The top stiffener is tapered to fit under the bin roof and bolts to the top horizontal bolt hole making a stronger connection.

We've Got it Covered: Base Stiffeners

Sukup base stiffeners cover the bottom two wall sheets and extend above the horizontal seam for better support and structural integrity. Standard stiffeners are 88" to cover two sheets.



B - Farm Bins

BD - Farm Heavy Gauge Drying Bins

BS - Farm Stiffened Bins BSD - Farm Stiffened Heavy Gauge Drying Bins BHM - Medium Duty Hopper Bins BH - Heavy Duty Hopper Bins

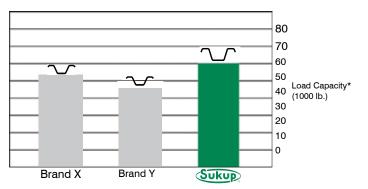




Sukup vs. the Competition: Commercial Stiffeners

- Not all stiffeners are designed alike, and not all stiffeners perform alike.
- Sukup commercial stiffeners are made from 70,000 psi tensile strength steel.
- Our computer-engineered shape was developed specifically to make them the strongest on the market.
- Our 60,000 lb. effective load capacity shows that we've succeeded in meeting our objective and the chart to the right proves it*.

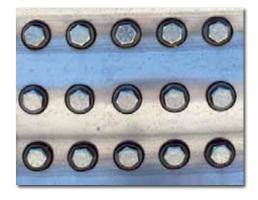
*Effective load carrying capacities of the stiffeners were calculated based on American Iron and Steel Institute (AISI) Cold-Formed Steel Standards with 8 ga. ASTM A653 Grade 50 steel.



Keeping it Together:

Sukup Bolt Patterns

- The bolt patterns and sizes on Sukup commercial bins vary by bin diameter and are engineered to maximize the strength of the connection and form the strongest bond.
- Commercial Bin bolts are JS1000 or equivalent coating, SAE Grade 8.2.



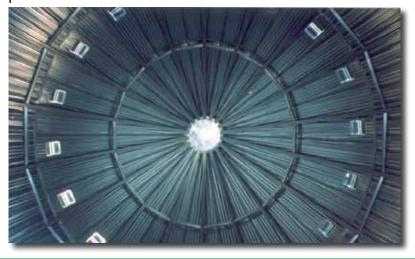
Added Safety: Roof Rings Standard

- Roof rings are standard on all Sukup commercial roofs for added safety during construction and maintenance.
- The number of rings varies depending upon bin diameter.

15,000 lb. & 30,000 lb. Load:

Commercial Roof Options

- Our 15,000 lb. roof has a similar external roof sheet structure as our standard roof, but has the added support of C-shaped inner rafters and purlins.
- Sukup's 72' 105' commercial bin roofs have a 30,000 lb. peak load rating with an optional 50,000 lb. rating for 90' and 105' bins (std. on 135' & 156'). Most competing brands max out at a 25,000 lb. load rating.
- The strength of the 30,000 lb. Sukup roof comes from double C-shaped channels forming I-beam rafters with C-shaped purlins. All rafters and purlins are manufactured from minimum 70,000 psi tensile strength steel on the most advanced equipment in the industry. Rafters and purlins on bins up to 90' are single length pieces.



	Commercial Bin Sizes									
Dia.	Max. Capacities Available (Bu.)	Standard Roof Peak Load* (Lbs.)	Optional Roof Peak Load* (Lbs.)	Peak Heights Avail.						
36'	31,115 - 59,435	5000	15,000 or 30,000	44' - 77'						
42'	42,969 - 107,213	5000	8,000; 15,000 or 30,000	45'11" - 100'11"						
48'	56,929 - 140,840	8000	15,000 or 30,000	47'9" - 102'9"						
54'	73,000 - 179,272	15,000	30,000	49'2" - 104'2"						
60'	91,473 - 225,585	15,000	30,000	51' - 106'1"						
72'	135,353 - 324,153	30,000	15,000	55'1" - 110'1"						
75'	147,852 - 352,713	30,000	15,000	56' - 111'						
78'	160,982 - 382,560	30,000	15,000	56'11" - 111'11"						
90'	219,999 - 514,999	30,000	15,000; 50,000 or 100,000	60'8" - 115'8"						
105'	309,096 - 710,624	30,000	50,000 or 100,000	65'4" - 120'4"						
135'	542,868 - 1,202,618	50,000	100,000	70'11" - 125'11"						
156'	754,727 - 1,522,863	50,000	100,000	75'7" - 123'3"						

^{*}Evenly distributed vertical peak load for 40 psf ground snow zone or 90 mph wind zone as defined by ASCE7-05 Code.

100,000 lb. Peak Load:

Our 100,000 lb. roof is constructed of I-beam rafters and an extra-heavy peak ring all manufactured here at Sukup Manufacturing Co. using the latest technology.

135' and 156' diameter commercial bins come standard with a 50,000 lb. roof.







Knot-Passing Pulley, restraint anchor and safety line retrieval line come standard on all Sukup bins with structured roofs. (Certified Safety Line not included.)



Stronger by Design:

Sukup Hopper Bottom Bins

Sukup Medium-Duty and Heavy-Duty Hopper Bottom Bins are among the strongest in the industry, with wide corrugations, extra-strong stiffeners and heavy-gauge hopper panels.

- Tank portion features the same quality sidewall construction as standard Sukup Bins, as well as the same extra-strong roof. 44" door is optional on heavy-duty hopper bins.
- Sukup hoppers are made of heavy-gauge, galvanized steel for strength and durability.
- Round-head bolts throughout the hopper portion prevent grain from getting hung-up and bridging.
- Standard hoppers are 45°. 60° hoppers are also available in some sizes.

Clear It Out: 16" Unload Outlet

Sukup Hopper Bottom Bins are designed to hold free-flowing grains up to 52 lbs/ft³, with an unload rate of 9000 bu/hr.

 Rack and pinion roller slide gate, standard on the large, 16" dia. unloading outlet, makes it easier to open and close. Optional chain wheel available for Heavy-Duty Hopper Bins mounted on overhead structures.



 Ample ground clearance to allow for an auger take-up.



Standard:

15'-21', 3-6 rings, 45° hopper

Available:

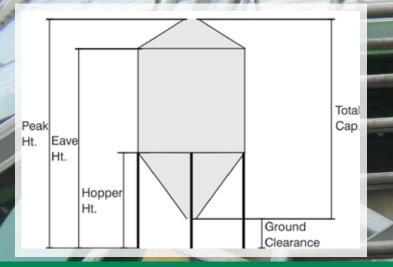
12', 3 - 5 rings, 60° hopper 15', 3 - 6 rings, 60° hopper

- May be mounted on overhead super structure.
- Ideal for use as a wet holding tank to feed your Sukup Grain Dryer.
- May be used to store cool, dry grain for an extended period of time.
- Legs are formed in our extra-strong stiffener profile. The legs extend to the bottom two rings, providing additional support for the sidewalls. 12', 15' and 18' dia. bins have three legs per sidewall sheet. 21' dia. bins have four legs per sheet.
- Angle-shaped leg cross bracing and C-shaped leg-to-hopper bracing provide solid support. Cross bracing is located high on the legs to allow easy access to the hopper outlet.
- Panels for the hopper portion of Sukup Medium-Duty Bins attach directly to the sidewall sheets, so there is no ledge to trap grain. Panels bolt together.

MD Hopper - Bin Specifications

Dia.	Hopper	# of Rings	Total Cap Bushels	•	Eave Ht.	Peak Ht.	Hopper Ht.	Ground Clearance*
12'	60°	3	1350	40	23'11"	26'8"	12'	2'
		4	1699	51	26'7"	29'4"	12'	2'
		5	2049	61	30'4"	33'1"	12'	2'
15'	60°	3	2500	74	25'5"	29'10"	14'4"	2'21/2"
		4	3047	90	29'1"	33'6"	14'4"	2'21/2"
		5	3593	107	31'9"	37'2"	14'4"	2'21/2"
		6	4139	123	26'5"	40'10"	14'4"	2'21/2"
15'	45°	3	2224	70	20'6"	24'11"	9'7"	2'21/2"
		4	2771	88	24'2"	28'7"	9'7"	2'21/2"
		5	3317	105	27'10"	32'3"	9'7"	2'21/2"
		6	3863	122	31'6"	35'11"	9'7"	2'2½"
18'	45°	3	3368	107	22'11"	28'3"	12'	2'9¾"
		4	4155	131	26'7"	31'11"	12'	2'9¾"
		5	4942	156	30'3"	35'7"	12'	2'9¾"
		6	5728	181	33'11"	39'3"	12'	2'9¾"
21'	45°	3	4810	152	23'5"	29'8"	12'6"	2'6½"
_		4	5881	186	27'1"	33'4"	12'6"	2'61/2"
		5	6952	220	30'9"	37'	12'6"	2'6½"
		6	8022	254	34'5"	40'8"	12'6"	2'6½"
Din son	a aiki a a a a al ve		8022					





Heavy-Duty Hopper Bins (HD)

- May be mounted on overhead super structures for loading of semis or train
- May be used as a working bin. A working bin is defined as refilling 25% or more of the maximum bin capacity more than 12 times a year, where new grain settles for more than 72 hours per occurrence. Working bins require grain to be unloaded by gravity out of the center sump only.



Can be used to store cool, dry grain for an extended period of time.

The Right Base for Your Heavy-Duty Hopper

The base for your Sukup Heavy-Duty Hopper Bottom Bin is

tailored to the size of the bin and the load capacity required. All base configurations start with 70,000 psi tensile strength steel, wide flange legs. The wide flange (I-beam) construction makes the legs extra-strong and stable, and L-shaped crossbracing between the legs adds even more stability.



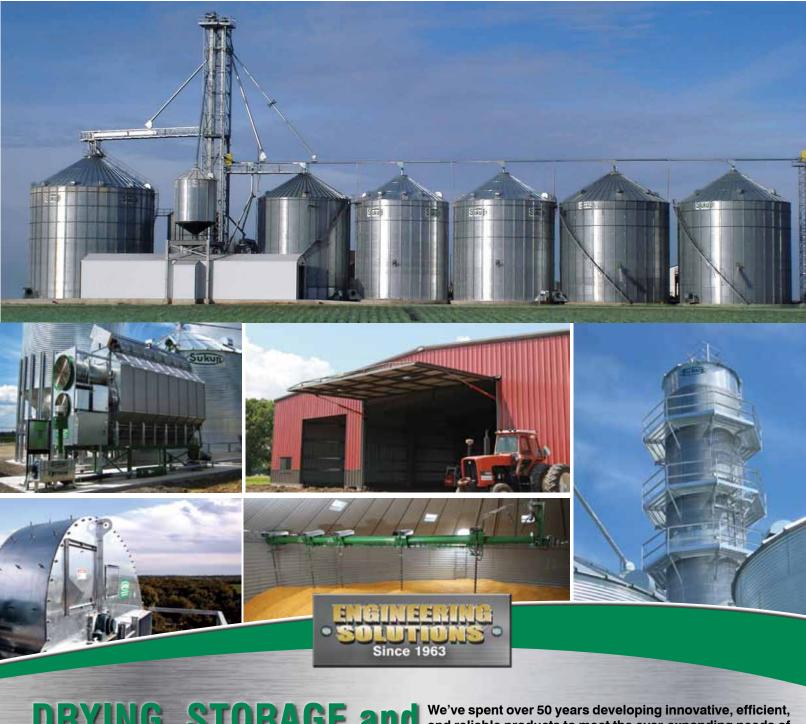
Exclusive Inner Apron Lets Grain Flow

Sukup Heavy Duty Hopper Bottom Bins feature hopper ring flashing that covers the ledge where the tank and bottom cone join. This flashing prevents grain from accumulating on the ledge and allows grain to flow freely into the hopper.



Dia. # of Total Capacity Rings Bushels Tons Ht. Ht. Clearance*	HD	Но	ppe	r –	Bin	Spe	cifica	ations
15' 3 2224 70 209" 25'2" 298" 26'6" 26'6" 36'3 312 319" 326" 98" 26'6" 36'3 317 105 281" 326" 98" 26'6" 8 4956 157 391" 436" 98" 26'6" 8 4956 157 391" 436" 98" 26'6" 9 95'02 76'4" 409 140 35'5" 3910" 98" 26'6" 10 6048 914 48'5" 50'10" 98" 26'6" 11 6595 209 50'1" 54'6" 98" 26'6" 12 7141 226 53'9" 58'2" 98" 26'6" 12 7141 226 53'9" 58'2" 98" 26'6" 12 7141 226 53'9" 58'2" 98" 26'6" 12 7411 26 53'9" 35'1" 114" 26'6" 6 5728 181 33'5" 389" 114" 26'6" 6 5728 181 33'5" 389" 114" 26'6" 8 7302 231 40'9" 42'5" 114" 26'6" 8 7302 231 40'9" 46'1" 114" 27'7 12 10 8875 281 48'1" 535" 114" 27'7 12 10 8875 281 48'1" 535" 114" 27'7 12 10 8875 281 48'1" 535" 114" 27'7 12 12 10,448 331 55'5" 60'9" 114" 27'7 12 12 10,448 331 55'5" 60'9" 114" 27'7 12 12 10,448 331 55'5" 60'9" 114" 27'7 12 12 10,448 331 55'5" 60'9" 114" 27'7 12 12 10,448 331 55'5" 60'9" 114" 27'7 12'7 12 12 10,448 331 55'5" 60'9" 114" 27'7 12'		# of						
15' 4 2771 88 24'5" 28'10" 9'8" 2'6'4" 6 3863 122 31'9" 36'2" 9'8" 2'6'4" 7 4409 140 35'5" 39'10" 9'8" 2'6'4" 8 4956 157 39'1" 43'6" 9'8" 2'6'4" 9 5502 174 42'9" 47'2" 9'8" 2'6'4" 10 6048 914 49'5" 50'10" 9'8" 2'6'4" 11 6595 209 50'1" 54'6" 9'8" 2'6'4" 12 7141 226 53'9" 58'2" 9'8" 2'6'4" 13 3386 107 22'5" 27'9" 11'4" 2'6'4" 14 4155 131 26'1" 315'1 11'4" 2'6'4" 6 5728 181 33'5" 389'1 11'4" 2'6'4" 8 7302 231 40'9" 46'1" 11'4" 2'6'4" 8 7302 231 40'9" 46'1" 11'4" 2'7'4" 10 8875 281 48'1" 535' 11'4" 2'7'4" 11 9662 306 5'19" 57'1" 11'4" 2'7'4" 12 10,448 331 55'5" 60'9" 11'4" 2'7'4" 2 4 5881 186 27'7 33'10" 2'10" 2'7'4" 6 6022 254 34'11" 30'2" 12'10" 2'7'4" 6 6022 254 34'11" 41'2" 12'10" 2'7'4" 8 10,164 322 42'3" 48'6" 12'10" 2'7'4" 9 11,235 356 45'11" 52'2" 12'10" 2'7'4" 11 13,376 423 53'3" 59'6" 12'10" 2'7'4" 24' 4 7975 25'2 29 36'2" 12'10" 2'7'4" 11 13,366 423 53'3" 59'6" 12'10" 2'7'4" 24' 4 7975 25'2 29 36'2" 12'10" 2'7'4" 11 13,376 423 53'3" 59'6" 12'10" 2'7'4" 3 65'6 208 25'4" 32'6" 14'3" 2'6'4" 11 13,376 423 53'3" 59'6" 12'10" 2'7'4" 9 11,235 356 45'11" 52'2" 12'10" 2'7'4" 11 13,376 423 53'3" 59'6" 12'10" 2'7'4" 12 14,447 47'4" 56'11" 63'2" 12'10" 2'7'4" 3 65'6 208 25'4" 36'6" 14'3" 2'6'4" 10 16,366 518 51' 58'2" 12'10" 2'7'4" 11 13,474 44'4" 44'4" 44'4" 2'6'4" 24' 4 7975 25 29' 36'2" 14'3" 2'6'4" 11 13,474 44'4" 44'4" 44'4" 2'74" 12 19,163 606 58'4" 65'6" 14'3" 2'74" 13 14,487 44'4" 34'1" 56'1" 14'3" 2'74"	Dia.					_		
5 3317 105 281" 226" 98" 26\%" 7 4409 140 355" 3910" 98" 26\%" 8 4956 157 391" 470" 98" 26\%" 9 5502 174 42\9" 47\2" 98" 26\%" 10 6048 191 46\5" 50\10" 98" 26\%" 11 6595 209 50\1" 54\6" 98" 26\%" 11 6595 209 50\1" 54\6" 98" 26\%" 11 27141 226 53\9" 58\2" 98" 26\%" 13 33088 107 22\5" 27\9" 11\4" 26\%" 5 4942 156 29\9" 55\1" 11\4" 26\%" 6 5728 181 33\5" 35\1" 11\4" 26\%" 7 6515 206 37\1" 42\5" 11\4" 26\%" 9 8088 256 4\5" 49\9" 11\4" 26\%" 9 8088 256 4\5" 49\9" 11\4" 27\%" 10 8875 281 48\1" 35\5" 11\4" 27\%" 11 962 306 51\9" 57\1" 11\4" 27\%" 12 10.448 331 55\5" 60\9" 11\4" 27\%" 13 3410 152 2311 30\2" 12\10" 27\%" 14 5881 186 27\7" 33\6" 12\10" 27\%" 7 9093 288 38\7" 44\10" 12\10" 27\%" 8 10.164 322 42\3" 48\6" 12\10" 27\1\\"" 9 11.235 356 45\1" 52\2" 12\10" 27\1\\"" 11 13,376 423 35\3" 59\6" 12\10" 27\1\\"" 11 13,376 423 39\8 39\0" 14\3" 22\10" 27\1\\"" 11 13,376 423 39\8 39\0" 14\10" 22\10" 27\1\\"" 11 13,376 423 39\8 39\0" 14\1" 12 10.448 331 55\5" 60\9" 11\4" 27\1\0" 13 34\11 36\6" 36\6" 31\1" 32\1" 12\10" 27\4\"" 14 5881 186 27\7" 33\10" 12\10" 27\4\"" 15 6952 20 31\3" 37\6" 12\10" 27\1\\"" 16 10.164 322 42\3" 48\6" 12\10" 27\1\\"" 17 11 3,376 423 53\5" 59\6" 12\10" 27\1\\"" 18 1 13,376 50 60\8 22\8 39\8" 39\0" 14\3" 22\10" 27\1\\"" 19 11,235 356 45\1" 52\2" 12\10" 27\1\\"" 10 14,447 457 56\11" 63\2" 12\10" 27\1\\"" 11 13,376 60 60 65\6" 30\8" 25\1" 14\3" 26\4" 11 13,376 60 65\6" 30\8 25\4" 32\6" 14\3" 26\4" 11 17,764 562 54\8" 61\1" 52\2" 12\10" 27\1\\"" 12 14,447 457 56\1" 63\2" 12\10" 27\1\\"" 13 14,964 331 30\7" 38\9" 10\1\4" 14 12,100 38\5 40\4" 47\2" 14\3" 26\4" 15 12,100 38\6 49\4" 37\6" 15\10" 27\1\"\" 16 10,2305 398 49\7" 55\10" 12\10" 27\1\\"\" 17 11 13,376 60 65\6 6\6" 13\5" 14\3" 26\4" 18 13,569 429 43\8" 50\10" 14\3" 26\4" 19 14,967 474 47\4" 54\6" 14\3" 27\4" 10 16,366 518 51\6" 56\6" 14\3" 27\4" 11 17,764 562 54\8" 61\10" 13\2" 27\4" 11 17,764 562 54\8" 61\10" 13\2" 27\4" 11 12,867 79 90 45\6" 14\8" 31\1" 17\4" 27\4" 12 24,624 779 59\1" 66\1" 15\10" 27\4" 13 14,903 61\1 48\6" 11\6" 11\3" 27\4"								
6 3863 122 319" 362" 98" 26%" 7 4409 140 355" 3910" 98" 26%" 8 4956 157 391" 436" 98" 26%" 9 5502 174 429" 472" 98" 26%" 10 6048 191 465" 5010" 98" 26%" 11 6595 209 501" 546" 98" 26%" 11 6595 209 501" 546" 98" 26%" 12 7141 226 539" 582" 98" 26%" 13 3368 107 225" 279" 114" 26%" 6 5728 181 335" 389" 114" 26%" 8 6 5728 181 335" 389" 114" 26%" 8 7 6515 206 371" 425" 114" 26%" 8 7 6515 206 371" 425" 114" 26%" 8 7 80515 208 445" 499" 114" 26%" 10 8875 281 481" 335" 114" 27%" 11 9662 306 519" 571" 114" 27%" 12 10,448 331 555" 609" 114" 27%" 12 10,448 331 555" 609" 114" 27%" 13 4 5881 186 277" 3310" 1210" 27%" 8 10,164 322 423" 486" 1210" 27%" 8 10,164 322 423" 486" 1210" 27%" 8 10,164 322 423" 486" 1210" 27%" 8 10,164 322 423" 486" 1210" 27%" 11 1,235 356 4511" 522" 1210" 27%" 12 10,447 457 5611" 632" 1210" 27%" 8 10,164 322 423" 486" 1210" 27%" 11 13,376 423 533" 596" 1210" 27%" 12 14,447 457 5611" 632" 1210" 27%" 12 14,447 457 5611" 632" 1210" 27%" 8 13,569 429 438" 5010" 143" 26%" 6 10,772 341 364" 436" 143" 26%" 6 10,772 341 364" 436" 143" 26%" 6 10,772 341 364" 436" 143" 26%" 11 17,764 562 548" 6110" 143" 27%" 11 17,764 562 548" 6110" 143" 27%" 11 1,963 606 584" 650" 143" 27%" 11 1,963 606 584" 650" 143" 27%" 12 1,0464 331 307" 389" 1510" 27%" 11 1,265 368 498" 5510" 143" 27%" 12 1,447 552 59 36" 1510" 27%" 13 1,4967 474 474" 546" 143" 26%" 14 1,4967 474 474" 546" 143" 27%" 15 1,273 385 40" 472" 143" 26%" 16 10,464 331 307" 389" 1510" 27%" 17 1,774 599 141 481" 5510" 27%" 19 1,913 606 584" 650" 143" 27%" 11 12,084 478 5511" 682" 174" 27%" 12 1,4967 474 474" 546" 143" 27%" 13 3694 475 5611" 682" 174" 20" 27%" 14 10,464 331 307" 389" 1510" 27%" 15 1,563 389 39" 50" 510" 174" 20" 27%" 11 2,2854 723 563" 660" 143" 27%" 11 2,2854 723 563" 660" 143" 27%" 11 2,2854 723 563" 640" 174" 20" 27%" 11 2,2854 723 563" 640" 174" 20" 27%" 11 2,2854 723 563" 640" 174" 20" 27%" 11 2,385 997 60" 174" 20" 26%" 11 2,6874 907 579" 6610" 174" 20" 26%" 11 2,6874 907 679" 6610" 174" 20" 26%" 11 2,6874 907 679" 6610" 174" 20" 26%" 11 2,68	15'							
7 4409 140 3515" 3910" 98" 2691/n" 9 5502 174 42" 472" 98" 2691/n" 10 6048 191 465" 5010" 98" 2691/n" 11 6595 209 501" 546" 98" 2691/n" 12 7141 226 539" 582" 98" 2691/n" 13 3368 107 225" 279" 114" 2663/" 5 4942 156 299" 351" 114" 263/" 6 5728 181 335" 389" 114" 263/" 7 6515 206 371" 425" 114" 263/" 8 7 6515 206 371" 425" 114" 263/" 9 8088 256 44'5" 389" 114" 267/" 10 8875 281 481" 355" 114" 2791/n" 11 9662 306 51'9" 571" 114" 2791/n" 12 10,448 331 555" 609" 114" 2791/n" 12 10,448 331 555" 609" 114" 2791/n" 13 4810 152 23111" 302" 1210" 2794" 6 8022 254 34'11" 302" 1210" 2794" 6 8022 254 34'11" 412" 1210" 2794" 7 9903 288 367" 44'10" 12'10" 2794" 8 10,164 322 423" 486" 12'10" 2794" 8 10,164 322 423" 486" 12'10" 2794" 9 11,235 356 4511" 522" 12'10" 2794" 8 10,164 322 423" 486" 12'10" 2791/n" 11 13,376 423 353" 596" 12'10" 2794" 8 10,164 322 423" 486" 12'10" 2794" 8 10,164 322 423" 486" 12'10" 2794" 11 13,376 423 353" 596" 12'10" 2794" 8 10,164 32 423" 389" 497" 5510" 12'10" 2794" 11 13,376 423 353" 596" 12'10" 2794" 12 14,447 457 56'11" 832" 12'10" 2794" 8 10,779,5 252 29' 36" 14'3" 2694" 11 13,376 423 353" 596" 12'10" 2794" 8 14,467 474 474" 541 32" 2694" 11 17,764 562 548" 6110" 14'3" 2694" 11 17,764 562 548" 6110" 14'3" 2794" 11 17,764 562 548" 6110" 14'3" 2794" 11 19,636 518 51' 582" 11'3" 2794" 11 19,163 606 584" 656" 14'3" 2794" 11 19,163 606 584" 656" 14'3" 2794" 11 19,163 606 584" 656" 14'3" 2794" 11 19,163 606 584" 656" 14'3" 2794" 11 19,163 606 584" 656" 14'3" 2794" 11 19,163 606 584" 656" 14'3" 2794" 11 19,2854 723 56'3" 64'5" 15'10" 2794" 8 13,569 429 43'8" 50'10" 14'3" 2794" 11 12,854 723 56'3" 64'5" 15'10" 2794" 8 11,544 677 5511" 65'10" 2794" 8 13,569 429 43'8" 50'10" 14'3" 2794" 11 12,854 723 56'3" 64'5" 11'3" 2794" 11 12,854 723 56'3" 64'5" 11'3" 2794" 11 12,854 723 56'3" 64'5" 11'3" 2794" 11 12,854 723 56'3" 64'5" 11'3" 2794" 11 22,854 723 56'3" 64'5" 15'10" 2794" 11 22,854 723 56'3" 64'5" 17'4" 26'4" 12 2,946 79 5911" 68'1" 11'1" 2794" 13 4,967 516 64'5 590" 71'4" 20'2 26'4" 14 2,052 1554 71'5"								
8								
9 5502 174 429" 472" 98" 269"/ ₁₆ " 10 6048 191 46'5" 50'10" 98" 269"/ ₁₆ " 11 6595 209 50'1" 54'6" 98" 269"/ ₁₆ " 12 7141 226 53'9" 58'2" 98" 269"/ ₁₆ " 12 7141 226 53'9" 58'2" 98" 269"/ ₁₆ " 14'3" 266"/ ₁₆ " 33'368 107 22'5" 27'9" 11'4" 26'6"/ ₁₆ " 14'55 131 26'1" 31'5" 11'4" 26'6"/ ₁₆ " 6 5728 181 33'5" 38'9" 11'4" 26'6"/ ₁₆ " 6 5728 181 33'5" 38'9" 11'4" 26'6"/ ₁₆ " 6 5728 181 33'5" 38'9" 11'4" 26'6"/ ₁₆ " 9 8088 256 44'5" 49'9" 11'4" 27'71/ ₁₆ " 11 9662 231 40'9" 46'1" 11'4" 27'71/ ₁₆ " 11 9662 306 51'9" 57'1" 11'4" 27'71/ ₁₆ " 12 10,448 331 55'5" 60'9" 11'4" 27'71/ ₁₆ " 12 10,448 331 55'5" 60'9" 11'4" 27'71/ ₁₆ " 12 10,448 331 55'5" 60'9" 11'4" 27'71/ ₁₆ " 12 10,448 331 35'5" 33'6" 12'10" 27'74" 6 6952 220 31'3" 37'6" 12'10" 27'74" 7 9093 288 38'7" 44'10" 12'10" 27'74" 8 10,164 322 42'3" 48'6" 12'10" 27'71/ ₁₆ " 9 11,235 356 45'11" 52'2" 12'10" 27'71/ ₁₆ " 11 13,376 423 53'3" 59'6" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 52'2" 12'10" 27'71/ ₁₆ " 13 35'5" 56'10" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 62'2" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 63'2" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 63'2" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 63'2" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 63'2" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 63'2" 12'10" 27'71/ ₁₆ " 12 14,447 457 56'11" 63'2" 12'10" 27'71/ ₁₆ " 13 36'6 518 51" 52'2" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'3" 2'64" 14'								
11		9	5502	174		47'2"	9'8"	
12		10	6048	191		50'10"		
18' 4 4155 131 226" 27'9" 11'4" 2'6'%" 6 5728 181 33'5" 36'9" 11'4" 2'6'%" 7 6515 206 37'1" 42'5" 11'4" 2'6'%" 8 7302 231 40'9" 46'1" 11'4" 2'7'4'" 9 8088 256 44'5" 49'9" 11'4" 2'7'4'" 10 8875 281 481" 53'5" 11'4" 2'7'4'" 11 9662 306 51'9" 57'1" 11'4" 2'7'4'" 12 10,448 331 55'5" 60'9" 11'4" 2'7'4'" 12 10,448 331 55'5" 60'9" 11'4" 2'7'4'" 13 4 5881 186 27'7" 33'10" 12'10" 2'7'4" 6 8022 254 34'11" 30'2" 12'10" 2'7'4" 6 8022 254 34'11" 4'12" 12'10" 2'7'4" 8 10,164 322 42'3" 48'6" 12'10" 2'7'4" 8 10,164 322 42'3" 48'6" 12'10" 2'7'4" 8 10,164 322 42'3" 48'6" 12'10" 2'7'4" 11 13,376 423 53'3" 59'6" 12'10" 2'7'1/10" 12 14,447 457 56'11" 52'2" 12'10" 2'7'1/10" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1/10" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1/10" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1/10" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1/10" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1/10" 12 17,170 385 40' 47'2" 14'3" 2'6'4" 13 66 10,772 34'1 36'4" 43'6" 14'3" 2'6'4" 14 7975 252 29' 36'2" 14'3" 2'6'4" 15 9373 297 32'8" 39'10" 14'3" 2'6'4" 16 10,636 518 51' 56'2" 14'3" 2'6'4" 11 17,764 562 54'3" 50'0" 14'3" 2'6'4" 11 17,764 562 54'3" 50'0" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 10 16,366 518 51' 56'2" 14'3" 2'7'4" 11 17,764 562 54'3" 51'0" 14'3" 2'7'4" 11 17,764 562 54'3" 51'0" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 13 11,794 364 67' 52'2" 14'3" 2'7'4" 14 10,464 331 30'7" 38'9" 15'10" 2'7'4" 15 15,774 499 41'7" 49'9" 15'10" 2'7'4" 16 14,004 443 37'11" 46'1" 15'10" 2'7'4" 17 15,774 499 41'7" 49'9" 15'10" 2'7'4" 18 17,544 555 45'3" 53'5" 15'10" 2'7'4" 19 19,314 611 48'11" 57'1" 15'10" 2'7'4" 19 19,33 631 43'1" 52'2" 11'4" 2'7'4" 19 19,314 611 48'11" 57'1" 15'10" 2'7'4" 10 21,084 667 52'7 60'9" 15'10" 2'7'4" 11 22,864 723 56'3" 63'6" 14'3" 15'10" 2'7'4" 11 24,611 18'7 23'8 59'11" 68'1" 15'10" 2'7'4" 11 22,864 723 56'3" 63'6" 14'1" 15'10" 2'7'4" 11 22,640 779 59'11" 68'1" 15'10" 2'7'4" 11 24,611 18'7 20' 50'5" 59'6" 17'4" 2'6'4" 11 24,611 18'7 20' 50'5" 59'6" 17'4" 2'6'4" 11 45,052 1554 71'5" 82'4" 20' 2'6'4" 1								
18'	_							
6 5728 181 335" 389" 1114" 26%" 6 5728 181 335" 389" 1114" 26%" 7 6515 206 371" 425" 1114" 26%" 8 7302 231 409" 461" 1114" 2774" 9 8088 256 4415" 499" 1114" 2774" 10 8875 281 481" 555" 1114" 2774" 11 9662 306 519" 571" 1114" 2774" 12 10,448 331 555" 600" 1114" 2774" 12 10,448 331 555" 600" 1114" 2774" 3 4610 152 2311" 302" 1210" 2774" 6 8022 254 34111" 412" 1210" 2774" 6 8022 254 34111" 412" 1210" 2774" 8 10,164 322 42" 486" 1210" 2774" 8 10,164 322 42" 486" 1210" 2771",6" 9 11,235 356 4511" 522" 1210" 2771",6" 11 13,376 423 533" 596" 1210" 2771",6" 12 14,447 457 56111" 632" 1210" 2771",6" 12 14,447 457 56111" 632" 1210" 2771",6" 13 66 10,772 341 364" 436" 437" 143" 2664" 5 3937 297 328" 3910" 1473" 2664" 8 13,569 429 438" 361" 143" 2664" 8 13,569 429 438" 5010" 1473" 2664" 8 13,569 429 438" 5010" 1473" 2774" 11 17,764 562 5478" 611" 632" 143" 2774" 11 17,764 562 5478" 611" 651" 143" 2774" 11 17,764 562 5478" 611" 651" 143" 2774" 11 17,764 562 5478" 611" 651" 143" 2774" 11 19,337 638 437" 343" 425" 1510" 2774" 11 19,348 369 427 474 474" 546" 143" 2774" 11 17,764 562 5478" 611" 651" 1473" 2774" 11 19,358 400 472" 143" 2774" 11 19,363 606 654" 656" 143" 2774" 11 19,376 433 130"" 389" 1510" 2774" 11 12,384 387 343" 425" 1510" 2774" 11 12,384 387 343" 425" 1510" 2774" 11 12,384 667 527" 69" 1510" 2774" 11 12,484 667 527" 69" 1510" 2774" 11 12,485 606 664" 158" 1510" 2774" 11 12,486 67 527" 609" 1510" 2774" 11 12,2854 723 563" 535" 1510" 2774" 11 12,2854 723 563" 535" 1510" 2774" 11 12,2854 723 563" 535" 1510" 2774" 11 22,484 779 5911" 681" 1511" 2774" 11 22,484 779 5911" 681" 1511" 2774" 12 44,661 679" 788" 20' 2664" 13 48,905 1460 679" 788" 20' 2664" 14 42,611 1272 605" 774" 20' 2664" 15 55,99 1648 751" 86" 20' 2664" 16 58,346 1178 569" 678" 20' 2664" 16 58,346 1178 569" 678" 20' 2664" 16 58,346 1174 789" 898" 20' 2664" 16 58,346 1174 789" 898" 20' 2664" 18 64,640 1930 861" 97" 20' 2664"								
6 5728 181 33'5" 38'9" 11'4" 2'6'%" 7 6515 206 37'1" 42'5" 11'4" 2'6'%" 8 7302 231 40'9" 46'1" 11'4" 2'7'4'6" 9 8088 256 44'5" 49'9" 11'4" 2'7'4'6" 10 8875 281 48'1" 53'5" 11'4" 2'7'4'6" 11 9662 306 51'9" 57'1" 11'4" 2'7'4'6" 12 10,448 331 55'5" 60'9" 11'4" 2'7'4'6" 12 10,448 331 55'5" 60'9" 11'4" 2'7'4'6" 6 80'22 25'4 34'11" 30'2" 12'10" 2'7'4" 7 9993 288 38'7" 44'10" 12'10" 2'7'4" 7 9993 288 38'7" 44'10" 12'10" 2'7'4" 8 10,164 322 42'3" 48'6" 12'10" 2'7'4" 9 11,235 356 45'11" 52'2" 12'10" 2'7'4" 11 13,376 423 53'3" 59'6" 12'10" 2'7'1'6" 11 13,376 423 53'3" 59'6" 12'10" 2'7'1'6" 12 13,376 423 53'3" 59'6" 12'10" 2'7'1'6" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1'16" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1'16" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1'16" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1'16" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1'16" 13 13,376 423 53'3" 59'6" 12'10" 2'7'1'16" 14'3" 2'6'4" 4 7975 252 29' 39'10' 14'3" 2'6'4" 2'6'4" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 11'4" 2'	 18 [*]							
8 7302 231 40'9" 46'1" 11'4" 26'%" 9 8088 256 44'5" 499" 11'4" 2'77'16" 10 8875 281 48'1" 53'5" 11'4" 2'77'16" 11 9662 306 51'9" 57'1" 11'4" 2'77'16" 12 10,448 331 55'5" 60'9" 11'4" 2'77'16" 12 10,448 331 55'5" 60'9" 11'4" 2'77'16" 13 4 4581 186 27'7" 33'10" 12'10" 2'73'4" 5 6952 220 31'3" 37'6" 12'10" 2'73'4" 6 8022 254 34'11" 41'2" 12'10" 2'73'4" 8 10,164 322 42'3" 48'6" 12'10" 2'73'4" 8 10,164 322 42'3" 48'6" 12'10" 2'77'16" 11 13,376 423 53'3" 59'6" 12'10" 2'77'16" 11 13,376 423 53'3" 59'6" 12'10" 2'77'17' 12 14,447 457 56'11" 63'2" 12'10" 2'77'17' 13 3 6576 208 25'4" 32'6" 14'3" 2'6'4" 14 7975 252 29' 36'2" 14'3" 2'6'4" 5 9373 297 32'8" 39'10" 14'3" 2'6'4" 8 13,559 429 43'8" 50'10" 14'3" 2'6'4" 9 14,967 474 47'4" 54'6" 14'3" 2'6'4" 10 16,366 518 51' 58'2" 14'3" 2'6'4" 11 17,764 562 54'8" 61'0" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 11 17,764 562 54'8" 61'0" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 13 8694 275 26'11" 35'1" 15'10" 2'7'4" 14 10,464 331 30'7" 38'8" 15'10" 12'7'4" 15 12,234 387 34'3" 42'5" 15'10" 2'7'4" 16 14,004 443 31'11" 46'1" 15'10" 2'7'4" 17 15,774 499 41'7" 499" 15'10" 2'7'4" 18 17,544 555 45'3" 53'5" 15'10" 2'7'4" 19 19,144 667 52'7" 69'9" 15'10" 2'7'4" 10 21,084 667 52'7" 69'9" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 733 56'3" 64'5" 17'4" 2'7'4" 11 22,854 739 56'3" 64'5" 17'4" 2'7'4" 11 22,854 739 56'3" 64'5" 17'4" 2'7'4" 11 22,854 739 56'3" 64'5" 17'4" 2'7'4" 11 22,854 739 56'3" 66'0" 17'4" 2'7'4" 11 22,854 739 56'3" 66'0" 17'4" 2'7'4" 11 22,854 739 56'3" 66'0" 17'4" 2'7'4" 11 22,854 739 56'3" 66'0" 17'4" 2'7'4" 11 22,854 739 56'3" 66'0" 17'4" 2'7'4" 11 24,611 1272 60'5" 71'4" 20' 2'6'4" 11 42,611 1272 60'5" 71'4" 20' 2'6'4" 11 45,758 1366 64'1" 75 20' 2'6'4" 14 52,052 1554 71'5" 88'2" 20' 2'6'4" 15 55,19								
9 8088 256 44/5" 49/9" 11/4" 2/7/16" 10 8875 281 481" 53/5" 11/4" 2/7/16" 11 9662 306 51/9" 57/1" 11/4" 2/7/16" 12 10,448 331 55/5" 60/9" 11/4" 2/7/16" 12 10,448 331 55/5" 60/9" 11/4" 2/7/16" 12 10,448 331 55/5" 60/9" 11/4" 2/7/16" 14 5881 166 2/7/7 33/10" 12/10" 2/74" 6 80/22 254 34/11" 30/2" 12/10" 2/74" 6 80/22 254 34/11" 41/2" 12/10" 2/74" 8 10,164 322 42/3" 48/6" 12/10" 2/74" 8 10,164 322 42/3" 48/6" 12/10" 2/74" 8 10,164 322 42/3" 48/6" 12/10" 2/74" 11 13,376 423 53/6 45/11" 52/2" 12/10" 2/71"/16" 11 13,376 423 53/3" 59/6" 12/10" 2/71"/16" 12 14,447 457 56/11" 63/2" 12/10" 2/71"/16" 12 14,447 457 56/11" 63/2" 12/10" 2/71"/16" 12 14,447 457 56/11" 63/2" 12/10" 2/71"/16" 12/10" 3/71"/16" 12/10" 3/71"/16" 12/71"/1		7					11'4"	
10		8	7302	231	40'9"	46'1"	11'4"	
11 9662 306 519" 57'1" 11'4" 2'7'/10" 12 10,448 331 55'5" 60'9" 11'4" 2'7'/10" 3 4810 152 23'11" 30'2" 12'10" 2'73'" 4 5881 186 27'7" 33'10" 12'10" 2'73'" 5 6952 220 31'3" 37'6" 12'10" 2'73'" 6 8022 254 34'11" 41'2" 12'10" 2'73'" 7 9093 288 38'7" 44'10" 12'10" 2'73'" 8 10,164 322 42'3" 48'6" 12'10" 2'7'1/10" 9 11,235 356 45'11" 52'2" 12'10" 2'7'1/10" 10 12,305 389 49'7" 55'10" 12'10" 2'7'1/10" 11 13,376 423 53'3" 59'6" 12'10" 2'7'1/10" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1/10" 3 6576 208 25'4" 32'6" 14'3" 2'6'3'" 12 14,447 457 56'11" 63'2" 12'10" 2'7'1/10" 3 6576 208 25'4" 32'6" 14'3" 2'6'3'" 6 10,772 341 36'4" 43'6" 14'3" 2'6'3'" 6 10,772 341 36'4" 43'6" 14'3" 2'6'3'" 7 12,170 385 40' 47'2" 14'3" 2'6'3'" 8 13,569 429 43'8" 50'10" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 11 17,764 562 54'8" 61'10" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 14 10,464 331 30'7" 38'9" 15'10" 2'7'4" 8 17,544 555 45'8" 61'10" 14'3" 2'7'4" 6 14,004 44'3 37'11" 46'1" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 8 17,545 555 45'3" 53'5" 15'10" 2'7'4" 8 17,546 562 58'6" 61'7" 61'7" 14'2" 2'7'4" 8 17,547 499 41'7" 49'9" 15'10" 2'7'4" 8 17,548 555 45'3" 53'5" 15'10" 2'7'4" 8 17,548 562 39'5" 48'6" 17'4" 2'7'4" 8 2,4624 779 59'11" 68'1" 17'4" 2'7'4" 8 2,4624 779 59'11" 68'1" 17'4" 2'7'4" 8 22,418 700 46'9" 55'10" 17'4" 2'6'3" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 12 23,859 977 61'5" 70'6" 17'4" 2'6'4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'4" 11 42,611 1272 60'5" 77'4" 20' 2'6'4" 11 42,611 1272 60'5" 77'4" 20' 2'6'4" 11 45,052 1554 71'5" 86' 20' 2'6'4" 11 46,40 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4"								2'73/16"
21' 4 5881 186 27'7" 33'10" 12'10" 27'3' ₁₆ " 4 5881 186 27'7" 33'10" 12'10" 27'3'' 4 5881 186 27'7" 33'10" 12'10" 27'3'' 6 8022 220 31'3" 37'6" 12'10" 27'3'' 7 9093 288 38'7" 44'10" 12'10" 27'3'' 8 10,164 322 42'3" 48'6" 12'10" 27'11'6" 11,235 366 45'11" 52'2" 12'10" 27'11'6" 10 12,305 389 49'7" 55'10" 12'10" 27'11'6" 11 13,376 423 53'3" 59'6" 12'10" 27'11'6" 12'14'47 457 56'11" 63'2" 12'10" 27'11'6" 12'14'47 457 56'11" 63'2" 12'10" 27'11'6" 12'14'47 457 56'11" 63'2" 12'10" 27'11'6" 12'11'6" 12'11'6" 27'11'6" 12'11'6"								
21' 4 5881 186 27'7" 33'10" 12'10" 2'73" 5 6952 220 31'3" 37'6" 12'10" 2'73" 6 8022 254 34'11" 41'2" 12'10" 2'73" 8 10,164 322 42'3" 48'6" 12'10" 2'71'16" 9 11,235 356 45'11" 55'2" 12'10" 2'71'16" 10 12,305 389 49'7" 55'10" 12'10" 2'71'16" 11 13,376 423 53'3" 59'6" 12'10" 2'71'16" 12 14,447 457 56'11" 63'2" 12'10" 2'71'16" 12 14,447 457 56'11" 63'2" 12'10" 2'71'16" 13 65'76 208 25'4" 32'6" 14'3" 2'6'3" 6 10,772 341 36'4" 43'6" 14'3" 2'6'3" 6 10,772 341 36'4" 43'6" 14'3" 2'6'3" 7 12,170 385 40' 47'2" 14'3" 2'6'3" 8 13,569 429 43'8" 50'10" 14'3" 2'6'3" 8 13,569 429 43'8" 50'10" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 11 17,764 562 54'8" 61'10" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 11'0" 12'7'4" 14 10,464 331 30'7" 38'9" 15'10" 2'7'4" 15 12,234 387 34'3" 42'5" 15'10" 2'7'4" 17 15,774 499 41'7" 49'9" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 19 19,314 611 48'11" 57'1" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 19 24,624 779 59'11" 68'1" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 11 28,674 99 41'7" 49'9" 15'10" 2'7'4" 8 17,545 55 45'3" 53'5" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 8 12,8674 99 33 35'9" 44'10" 17'4" 2'7'4" 8 22,418 700 46'9" 55'10" 17'4" 2'7'4" 8 24,624 779 59'11" 68'1" 15'11" 2'7'4" 8 33,317 990 49'5" 60'4" 20' 2'6'4" 11 28,674 99 77 57'9" 66'10" 17'4" 2'7'4" 8 33,317 990 49'5" 60'4" 20' 2'6'4" 11 42,611 1272 60'5" 77'4" 20' 2'6'4" 12 45,758 1366 64'1" 75' 20' 2'6'4" 13 48,905 1460 67'9" 78'8" 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 16 68,346 1178 56'9" 67'8" 20' 2'6'4" 17 61,493 1836 82'5" 93'4" 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4"								
21' 4 5881 186 27'7" 33'10" 12'10" 2'73" 6 6952 220 31'3" 37'6" 12'10" 2'73" 6 8022 254 34'11" 41'2" 12'10" 2'73" 7 9093 288 38'7" 44'10" 12'10" 2'73" 8 10,164 322 42'3" 48'6" 12'10" 2'71'/16" 9 11,235 356 45'11" 52'2" 12'10" 2'71'/16" 10 12,305 389 49'7" 55'10" 12'10" 2'71'/16" 11 13,376 423 53'3" 59'6" 12'10" 2'71'/16" 12 14,447 457 56'11" 63'2" 12'10" 2'71'/16" 12 14,447 457 56'11" 63'2" 12'10" 2'71'/16" 13 6576 208 25'4" 32'6" 14'3" 2'6'3" 12 14,447 457 56'11" 43'2" 2'6'3" 12 14,447 457 56'11" 43'2" 2'6'3" 12 14,447 457 56'11" 63'2" 12'10" 2'71'/16" 12 14,447 457 56'11" 63'2" 12'10" 2'71'/16" 13 36576 208 25'4" 32'6" 14'3" 2'6'3" 14 7975 252 29' 36'2" 14'3" 2'6'3" 6 10,772 341 36'4" 43'6" 14'3" 2'6'3" 7 12,170 385 40' 47'2" 14'3" 2'6'3" 8 13,569 429 43'8" 50'10" 14'3" 2'6'3" 9 14,967 474 47'4" 54'6" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 11 17,764 562 54'8" 61'10" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 13 8694 275 26'11" 35'1" 15'10" 2'7'4" 6 14,004 443 37'11" 46'1" 15'10" 2'7'4" 7 15,774 499 41'7" 49'9" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 11 12,854 723 56'3" 64'5" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 17'4" 2'7'4" 8 22,118 700 46'9" 55'0" 17'4" 2'6'3" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 8 22,118 700 46'9" 55'0" 17'4" 2'6'3" 11 28,674 907 57'9" 66'10" 17'4" 2'6'3" 12 24,624 790 50'5" 59'6" 17'4" 2'6'3" 13 48,905 1460 67'9" 78'8 20' 2'6'4" 14 45,052 1554 71'5" 82'4" 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 16 68,346 1178 56'9" 67'8" 20' 2'6'4" 17 61,493 1836 62'5" 93'4" 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4"	<u> </u>							
S	041							
6 8022 254 34'11" 41'2" 12'10" 2'794" 7 9093 288 387" 44'10" 12'10" 2'794" 8 10,164 322 42'3" 48'6" 12'10" 2'71'/16" 9 11,235 356 45'11" 52'2" 12'10" 2'71'/16" 10 12,305 389 497" 55'10" 12'10" 2'71'/16" 11 13,376 423 53'3" 59'6" 12'10" 2'71'/16" 12 14,447 457 56'11" 63'2" 12'10" 2'71'/16" 3 6576 208 25'4" 32'6" 14'3" 2'694" 5 9373 297 32'8" 39'10" 14'3" 2'694" 6 10,772 341 36'4" 43'6" 14'3" 2'694" 7 12,170 385 40' 47'2" 14'3" 2'694" 8 13,569 429 43'8" 50'10" 14'3" 2'794" 9 14,967 474 47'4" 54'6" 14'3" 2'71/4" 10 16,366 518 51' 58'2" 14'3" 2'71/4" 11 17,764 562 54'8" 61'10" 14'3" 2'71/4" 12 19,163 606 58'4" 65'6" 14'3" 2'71/4" 12 19,163 606 58'4" 65'6" 14'3" 2'71/4" 13 38694 275 26'11" 35'1" 15'10" 2'71/4" 6 14,004 443 37'11" 46'1" 15'10" 2'71/4" 7 15,774 499 41'7" 49'9" 15'10" 2'71/4" 8 17,544 555 45'3" 53'5" 15'10" 2'71/6" 9 19,314 611 48'11" 57'1" 15'10" 2'71/6" 9 19,314 611 48'11" 57'1" 15'10" 2'71/6" 11 22,854 723 56'3" 64'5" 15'10" 2'71/6" 12 24,624 779 59'11" 68'1" 15'10" 2'71/6" 3 11,192 354 28'5" 37'6" 17'4" 2'71/4" 4 13,377 423 32'1" 41'2" 17'4" 2'71/4" 8 22,133 769 50'5" 59'6" 17'4" 2'71/4" 12 19,933 631 43'1" 52'2" 17'4" 2'71/4" 8 24,624 779 59'11" 68'1" 15'10" 2'71/4" 12 19,933 631 43'1" 52'2" 17'4" 2'71/4" 13 1,377 493 35'9" 15'10" 2'71/6" 14 12,664 797 59'11" 68'1" 15'10" 2'71/6" 11 22,854 723 56'3" 64'5" 15'10" 2'71/6" 12 24,624 779 59'11" 68'1" 15'10" 2'71/6" 13 31,1192 354 28'5" 37'6" 17'4" 2'71/4" 14 12,671 1272 60'5" 77'6" 17'4" 2'694" 15 15,563 493 35'9" 44'10" 17'4" 2'71/4" 12 30,859 977 61'5" 70'6" 17'4" 2'694" 11 24,671 1272 60'5" 71'4" 20' 2'61/4" 12 45,758 1366 64'1" 75' 20' 2'61/4" 14 52,052 1554 71'5" 82'4" 20' 2'61/4" 15 55,199 1648 75'1" 86' 20' 2'61/4" 16 58,346 1742 78'9" 89'8 20' 2'61/4" 17 61,493 1836 62'5" 93'4" 20' 2'61/4" 18 64,640 1930 86'1" 97' 20' 2'61/4"	21"							
7 9093 288 387" 44'10" 12'10" 2'79',1" 8 10,164 322 42'3" 48'6" 12'10" 2'71',16" 9 11,235 356 46'11" 52'2" 12'10" 2'71',16" 10 12,305 389 49'7" 55'10" 12'10" 2'71',16" 11 13,376 423 53'3" 59'6" 12'10" 2'71',16" 12 14,447 457 56'11" 63'2" 12'10" 2'71',16" 13 6576 208 25'4" 32'6" 14'3" 2'69'4" 5 9373 297 32'8" 39'10" 14'3" 2'69'4" 6 10,772 341 36'4" 43'6" 14'3" 2'69'4" 7 12,170 385 40' 47'2" 14'3" 2'69'4" 8 13,569 429 43'8" 50'10" 14'3" 2'71'4" 10 16,366 518 51' 58'2" 14'3" 2'71'4" 11 17,764 562 54'8" 61'10" 14'3" 2'71'4" 12 19,163 606 58'4" 65'6" 14'3" 2'71'4" 13 8694 275 26'11" 35'1" 15'10" 2'71'4" 14 10,464 331 30'7" 38'9" 15'10" 2'71'4" 5 12,234 387 34'3" 42'5" 15'10" 2'71'4" 6 14,004 443 37'11" 46'1" 15'10" 2'71'4" 7 15,774 499 41'7" 49'9" 15'10" 2'71'4" 8 17,544 555 45'3" 53'5" 15'10" 2'71'6" 8 17,544 555 45'3" 53'5" 15'10" 2'71'6" 11 22,854 723 56'3" 64'5" 15'10" 2'71'6" 11 22,854 723 56'3" 64'5" 15'10" 2'71'6" 11 22,854 723 56'3" 64'5" 15'10" 2'71'6" 11 22,854 723 56'3" 64'5" 15'10" 2'71'6" 11 22,854 723 56'3" 64'5" 15'10" 2'71'6" 8 17,748 562 39'5" 48'6" 17'4" 2'71'4" 24,624 779 59'11" 68'1" 15'10" 2'71'6" 8 22,118 700 46'9" 55'10" 17'4" 2'71'4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'4" 11 24,674 907 57'9" 66'10" 17'4" 2'6'4" 11 24,674 907 57'9" 66'10" 17'4" 2'6'4" 11 24,674 907 57'9" 66'10" 17'4" 2'6'4" 11 24,674 907 57'9" 66'10" 17'4" 2'6'4" 11 24,674 907 57'9" 66'10" 17'4" 2'7'6" 11 24,575 1366 64'1" 75' 20' 2'6'4" 12 45,758 1366 64'1" 75' 20' 2'6'4" 12 45,758 1366 64'1" 75' 20' 2'6'4" 14 52,052 1554 71'5" 82'4" 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 16 58,346 1742 78'9" 89'8" 20' 2'6'4" 17 61,493 1836 82'5" 93'4" 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4"								
9	1	7	9093	288			12'10"	
10		8	10,164	322				
11								,
12								
24' 4								
24' 4 7975 252 29' 36'2" 14'3" 2'6'4" 5 9373 297 32'8" 39'10" 14'3" 2'6'4" 6 10,772 341 36'4" 43'6" 14'3" 2'6'4" 7 12,170 385 40' 47'2" 14'3" 2'6'4" 8 13,569 429 43'8" 50'10" 14'3" 2'7'4" 9 14,967 474 47'4" 54'6" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 11 17,764 562 54'8" 61'10" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 13 8694 275 26'11" 35'1" 15'10" 2'7'4" 14 10,464 331 30'7" 38'9" 15'10" 2'7'4" 5 12,234 387 34'3" 42'5" 15'10" 2'7'4" 7 15,774 499 41'7" 49'9" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 9 19,314 611 48'11" 57'1" 15'10" 2'7'4" 10 21,084 667 52'7" 60'9" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'11" 2'7'4" 3 11,192 354 28'5" 37'6" 17'4" 2'7'4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'4" 8 22,118 700 46'9" 55'10" 17'4" 2'7'4" 9 24,303 769 50'5" 59'6" 17'4" 2'6'4" 10 26,489 838 54'1" 63'2" 17'4" 2'6'4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'4" 13 48,905 1460 67'9" 78'8" 20' 2'6'4" 14 52,052 1554 71'5" 82'4" 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 16 58,346 1742 78'9" 89'8" 20' 2'6'4" 17 61,493 1836 82'5" 93'4" 20' 2'6'4" 18 64,640 1930 86'1" 97'2 2'6'6'4" 18 64,640 1930 86'1" 97'2 2'6'6'4" 28 28 28 28 28 28 28								
Second Second	0.41							
6 10,772 341 36'4" 43'6" 14'3" 2'63'4" 7 12,170 385 40' 47'2" 14'3" 2'63'4" 8 13,569 429 43'8" 50'10" 14'3" 2'71'4" 9 14,967 474 47'4" 54'6" 14'3" 2'71'4" 10 16,366 518 51' 58'2" 14'3" 2'71'4" 11 17,764 562 54'8" 61'10" 14'3" 2'71'4" 12 19,163 606 58'4" 65'6" 14'3" 2'71'4" 13 8694 275 26'11" 35'1" 15'10" 2'71'4" 4 10,464 331 30'7" 38'9" 15'10" 2'71'4" 5 12,234 387 34'3" 42'5" 15'10" 2'71'4" 7 15,774 499 41'7" 49'9" 15'10" 2'71'4" 7 15,774 499 41'7" 49'9" 15'10" 2'71'6" 8 17,544 555 45'3" 53'5'5" 15'10" 2'71'6" 9 19,314 611 48'11" 57'1" 15'10" 2'71'6" 10 21,084 667 52'7" 60'9" 15'10" 2'71'6" 11 22,854 723 56'3" 64'5" 15'10" 2'71'6" 12 24,624 779 59'11" 68'1" 15'11" 2'71'6" 3 11,192 354 28'5" 37'6" 17'4" 2'71'4" 4 13,377 423 32'1" 41'2" 17'4" 2'71'4" 6 17,748 562 39'5" 48'6" 17'4" 2'71'4" 8 22,118 700 46'9" 55'10" 17'4" 2'71'4" 8 22,118 700 46'9" 55'10" 17'4" 2'63'4" 10 26,489 838 54'1" 63'2" 17'4" 2'63'4" 11 28,674 907 57'9" 66'10" 17'4" 2'63'4" 12 30,859 977 61'5" 70'6" 17'4" 2'63'4" 12 30,859 977 61'5" 70'6" 17'4" 2'63'4" 11 42,611 1272 60'5" 71'4" 20' 2'61'4" 12 45,758 1366 64'1" 75' 20' 2'61'4" 14 52,052 1554 17'5" 82'4" 20' 2'61'4" 15 55,199 1648 75'1" 86' 20' 2'61'4" 16 58,346 1742 78'9" 89'8" 20' 2'61'4" 17 61,493 1836 82'5" 93'4" 20' 2'61'4" 18 64,640 1930 86'1" 97' 20' 2'61'4" 18 64,640 1930 86'1" 97' 20' 2'61'4" 18 61,490 18'8 68' 69' 6''8" 20' 2'61'4" 18 64,640 1930 86'1" 97' 20' 2'61'4" 19 18 64,640 1930 86'1" 97' 20' 2'61'4" 18 64,640 1930 86'1" 97' 20' 2'61'4" 18 64,640 1930 86'1" 97' 20' 2'61'4"	24							
8 13,569 429 43'8" 50'10" 14'3" 2'7'4" 9 14,967 474 47'4" 54'6" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 11 17,764 562 54'8" 61'10" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 3 8694 275 26'11" 35'1" 15'10" 2'7'4" 5 12,234 387 34'3" 42'5" 15'10" 2'7'4" 6 14,004 443 37'11" 46'1" 15'10" 2'7'4" 7 15,774 499 41'7" 49'9" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 9 19,314 611 48'11" 57'1" 15'10" 2'7'4" 10 21,084 667 52'7" 60'9" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,4624 779 59'11" 68'1" 15'10" 2'7'4" 3 11,192 354 28'5" 37'6" 17'4" 2'7'4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'4" 7 19,933 631 43'1" 52'2" 17'4" 2'7'4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 12 30,859 977 61'5" 70'6" 17'4" 2'6'34" 13 48,905 1460 67'9" 78'8" 20' 2'6'4" 14 52,052 1554 71'5" 82'4" 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 16 58,346 1742 78'9" 89'8" 20' 2'6'4" 17 61,493 1836 82'5" 93'4" 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4"		6	10,772	341	36'4"	43'6"	14'3"	
9 14,967 474 47'4" 54'6" 14'3" 2'7'4" 10 16,366 518 51' 58'2" 14'3" 2'7'4" 11 17,764 562 54'8" 61'10" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 3 8694 275 26'11" 35'1" 15'10" 2'7'4" 5 12,234 387 34'3" 42'5" 15'10" 2'7'4" 6 14,004 443 37'11" 46'1" 15'10" 2'7'4" 7 15,774 499 41'7" 49'9" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 10 21,084 667 52'7" 60'9" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'11" 2'7'4" 3 11,192 354 28'5" 37'6" 17'4" 2'7'4" 5 15,563 493 35'9" 44'10" 17'4" 2'7'4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 12 30,859 977 61'5" 70'6" 17'4" 2'6'34" 12 45,758 1366 64'1" 57'9" 60'4" 20' 2'6'4" 12 45,758 1366 64'1" 75' 20' 2'6'4" 12 45,758 1366 64'1" 75' 20' 2'6'4" 12 45,758 1366 64'1" 75' 20' 2'6'4" 12 45,758 1366 64'1" 75' 20' 2'6'4" 14 42,611 1272 60'5" 71'4" 20' 2'6'4" 14 52,052 1554 71'5" 82'4" 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 16 58,346 1742 78'9" 89'8" 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20' 2'6'4" 18 64' 20'		7						2'6¾"
10								
11 17,764 562 54'8" 61'10" 14'3" 2'7'4" 12 19,163 606 58'4" 65'6" 14'3" 2'7'4" 3 8694 275 26'11" 35'1" 15'10" 2'7'4" 5 12,234 387 34'3" 42'5" 15'10" 2'7'4" 6 14,004 443 37'11" 46'1" 15'10" 2'7'4" 7 15,774 499 41'7" 49'9" 15'10" 2'7'4" 8 17,544 555 45'3" 53'5" 15'10" 2'7'4" 10 21,084 667 52'7" 60'9" 15'10" 2'7'4" 11 22,854 723 56'3" 64'5" 15'10" 2'7'4" 11 22,854 773 56'3" 64'5" 15'10" 2'7'4" 11 22,854 773 56'3" 64'5" 15'10" 2'7'4" 12 24,624 779 59'11" 68'1" 15'10" 2'7'4" 3 11,192 354 28'5" 37'6" 17'4" 2'7'4" 6 17,748 562 39'5" 44'10" 17'4" 2'7'4" 8 22,118 700 46'9" 55'10" 17'4" 2'7'4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'34" 10 26,489 838 54'1" 63'2" 17'4" 2'6'34" 11 28,674 907 57'9" 66'10" 17'4" 2'6'34" 12 30,859 977 61'5" 70'6" 17'4" 2'6'34" 11 42,611 1272 60'5" 71'4" 20' 2'6'4" 11 42,611 1272 60'5" 71'4" 20' 2'6'4" 11 42,611 1272 60'5" 71'4" 20' 2'6'4" 11 43,376 140 67'9" 78'8" 20' 2'6'4" 11 45,052 1554 71'5" 82'4" 20' 2'6'4" 11 68,346 1742 78'9" 89'8" 20' 2'6'4" 17 61,493 1836 82'5" 93'4" 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" Blin capacities and weights are calculated on ASABE S413.1 Standard with 6% grain compaction. *Ground clearance is with rack & pinion, For clearance without rack & pinion, add 5" to ground								
12 19,163 606 584" 656" 14'3" 2'7'4" 3 8694 275 26'11" 35'1" 15'10" 2'7'4" 4 10,464 331 30'7" 38'9" 15'10" 2'7'4" 5 12,234 387 34'3" 42'5" 15'10" 2'7'4" 6 14,004 443 37'11" 46'1" 15'10" 2'7'4" 7 15,774 499 41'7" 49'9" 15'10" 2'7'6" 8 17,544 555 45'3" 53'5" 15'10" 2'7'6" 9 19,314 611 48'11" 57'1" 15'10" 2'7'6" 10 21,084 667 52'7" 60'9" 15'10" 2'7'6" 11 22,854 723 56'3" 64'5" 15'10" 2'7'6" 12 24,624 779 59'11" 68'1" 15'11" 2'7'6" 3 11,192 354 28'5" 37'6" 17'4" 2'7'4" 3 11,192 354 28'5" 37'6" 17'4" 2'7'4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'4" 9 24,303 769 50'5" 59'6" 17'4" 2'6'4" 10 26,489 838 54'1" 63'2" 17'4" 2'6'4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'4" 8 33,171 990 49'5" 60'4" 20' 2'6'4" 11 42,611 1272 60'5" 71'4" 20' 2'6'4" 14 52,052 1554 71'5" 82'4" 20' 2'6'4" 15 55,199 1648 75'1" 86' 20' 2'6'4" 16 58,346 1742 78'9" 89'8" 20' 2'6'4" 17 61,493 1836 82'5" 93'4" 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 64,640 1930 86'1" 97' 20' 2'6'4" 18 61,640 1930 86'1" 97' 20' 2'6'4"								
27' 4 10,464 331 30'7" 38'9" 15'10" 2'7'¼" 5 12,234 387 34'3" 42'5" 15'10" 2'7'¼" 7 15,774 499 41'7" 49'9" 15'10" 2'7'½" 8 17,544 555 45'3" 53'5" 15'10" 2'7'½" 9 19,314 611 48'11" 57'1" 15'10" 2'7'½" 10 21,084 667 52'7" 60'9" 15'10" 2'7'½" 11 22,854 723 56'3" 64'5" 15'10" 2'7'½" 2'7½" 12 24,624 779 59'11" 68'1" 15'11" 2'7½" 2'7½" 5 15,563 493 35'9" 44'10" 17'4" 2'7½" 6 17,748 562 39'5" 48'6" 17'4" 2'7'½" 6 17,748 562 39'5" 48'6" 17'4" 2'7'½" 8 22,118 700 46'9" 55'10" 17'4" 2'7½" 8 22,118 700 46'9" 55'10" 17'4" 2'6'¾" 10 26,489 838 54'1" 63'2" 17'4" 2'6'¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6'¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6'¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6'¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6'¾" 11 42,611 1272 60'5" 70'6" 17'4" 20' 2'6'½" 11 42,611 1272 60'5" 70'6" 17'4" 20' 2'6'½" 12 45,758 1366 64'1" 75' 20' 2'6'¼" 14 52,052 1554 71'5" 82'4" 20' 2'6'¼" 15 55,199 1648 75'1" 86' 20' 2'6'¼" 16 58,346 1742 78'9" 89'8" 20' 2'6'¼" 17 61,493 1836 82'5" 93'4" 20' 2'6'¼" 17 61,493 1836 82'5" 93'4" 20' 2'6'¼" 17 61,493 1836 82'5" 93'4" 20' 2'6'¼" 17 61,493 1836 82'5" 93'4" 20' 2'6'¼" 17 61,493 1836 82'5" 93'4" 20' 2'6'¼" 17 61,493 1836 82'5" 93'4" 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼"								
S								
6 14,004 443 37'11" 46'1" 15'10" 2'7'4" 7 15,774 499 41'7" 49'9" 15'10" 2'7'/6" 8 17,544 555 45'3" 53'5" 15'10" 2'7'/6" 9 19,314 611 48'11" 57'1" 15'10" 2'7'/6" 10 21,084 667 52'7" 60'9" 15'10" 2'7'/6" 11 22,854 723 56'3" 64'5" 15'10" 2'7'/6" 12 24,624 779 59'11" 68'1" 15'11" 2'7'/6" 3 11,192 354 28'5" 37'6" 17'4" 2'7'/4" 5 15,563 493 35'9" 44'10" 17'4" 2'7'/4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'/4" 7 19,933 631 43'1" 52'2" 17'4" 2'7'/4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'3/4" 9 24,303 769 50'5" 59'6" 17'4" 2'6'3/4" 10 26,489 838 54'1" 63'2" 17'4" 2'6'3/4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 13 48,905 1460 67'9" 78'8" 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction.	277	4	10,464	331	30'7"	38'9"	15'10"	2'71/4"
Total				387				
8								
9 19,314 611 48'11" 57'1" 15'10" 2'71/8" 10 21,084 667 52'7" 60'9" 15'10" 2'71/8" 11 22,854 723 56'3" 64'5" 15'10" 2'71/8" 12 24,624 779 59'11" 68'1" 15'11" 2'71/8" 3 11,192 354 28'5" 37'6" 17'4" 2'71/4" 2'71/4" 5 15,563 493 35'9" 44'10" 17'4" 2'71/4" 6 17,748 562 39'5" 48'6" 17'4" 2'71/4" 7 19,933 631 43'1" 52'2" 17'4" 2'71/4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'3/4" 10 26,489 838 54'1" 63'2" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 20' 2'6'/4" 12 30,859 977 61'5" 70'6" 17'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2'6'/4" 20' 2								
10 21,084 667 52'7" 60'9" 15'10" 2'7'/8" 11								
30' 11 22,854 723 56'3" 64'5" 15'10" 2'7'/8" 12 24,624 779 59'11" 68'1" 15'11" 2'7'/8" 3 11,192 354 28'5" 37'6" 17'4" 2'7'/4" 2'7'/4" 5 15,563 493 35'9" 44'10" 17'4" 2'7'/4" 2'7'/4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'/4" 2'7'/4" 7 19,933 631 43'1" 52'2" 17'4" 2'7'/4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'3/4" 9 24,303 769 50'5" 59'6" 17'4" 2'6'3/4" 10 26,489 838 54'1" 63'2" 17'4" 2'6'3/4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 80'4" 20' 2'6'/4" 142,611 1272 60'5" 71'4" 20' 2'6'/4" 142,611 1272 60'5" 71'4" 20' 2'6'/4" 12 45,758 1366 64'1" 75' 20' 2'6'/4" 12 45,758 1366 64'1" 75' 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4"								
3 11,192 354 28'5" 37'6" 17'4" 2'7'/4" 4 13,377 423 32'1" 41'2" 17'4" 2'7'/4" 5 15,563 493 35'9" 44'10" 17'4" 2'7'/4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'/4" 7 19,933 631 43'1" 52'2" 17'4" 2'7'/4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'3/4" 9 24,303 769 50'5" 59'6" 17'4" 2'6'3/4" 10 26,489 838 54'1" 63'2" 17'4" 2'6'3/4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 12 30,859 977 61'5" 80'4" 20' 2'6'/4" 14 2,611 1272 60'5" 71'4" 20' 2'6'/4" 14 42,611 1272 60'5" 71'4" 20' 2'6'/4" 12 45,758 1366 64'1" 75' 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4"								
3 11,192 354 28'5" 37'6" 17'4" 2'7'/4" 4 13,377 423 32'1" 41'2" 17'4" 2'7'/4" 2'7'/4" 5 15,563 493 35'9" 44'10" 17'4" 2'7'/4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'/4" 7 19,933 631 43'1" 52'2" 17'4" 2'6'3/4" 9 24,303 769 50'5" 59'6" 17'4" 2'6'3/4" 10 26,489 838 54'1" 63'2" 17'4" 2'6'3/4" 11 28,674 907 57'9" 66'10" 17'4" 2'6'3/4" 12 30,859 977 61'5" 70'6" 17'4" 2'6'3/4" 11 42,611 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 1272 60'5" 71'4" 20' 2'6'1/4" 14,511 14,51								2'71/8"
5 15,563 493 35'9" 44'10" 17'4" 2'7'\4" 6 17,748 562 39'5" 48'6" 17'4" 2'7'\4" 7 19,933 631 43'1" 52'2" 17'4" 2'6'\4" 8 22,118 700 46'9" 55'10" 17'4" 2'6\3\4" 9 24,303 769 50'5" 59'6" 17'4" 2'6\3\4" 10 26,489 838 54'1" 63'2" 17'4" 2'6\3\4" 11 28,674 907 57'9" 66'10" 17'4" 2'6\3\4" 12 30,859 977 61'5" 70'6" 17'4" 2'6\3\4" 12 30,859 977 61'5" 70'6" 17'4" 2'6\4" 8 33,171 990 49'5" 60'4" 20' 2'6'\4" 10 39,465 1178 56'9" 67'8" 20' 2'6'\4" 11 42,611 1272 60'5" 71'4" 20' 2'6'\4" 12 45,758 1366 64'1" 75' 20' 2'6'\4" 13 48,905 1460 67'9" 78'8" 20' 2'6'\4" 14 52,052 1554 71'5" 82'4" 20' 2'6'\4" 15 55,199 1648 75'1" 86' 20' 2'6'\4" 16 58,346 1742 78'9" 89'8" 20' 2'6'\4" 17 61,493 1836 82'5" 93'4" 20' 2'6'\4" 18 64,640 1930 86'1" 97' 20' 2'6'\4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion, Ero clearance without rack & pinion, add 5" to ground		3	11,192	354				
6 17,748 562 39'5" 48'6" 17'4" 2'7'/4" 7 19,933 631 43'1" 52'2" 17'4" 2'7'/4" 8 22,118 700 46'9" 55'10" 17'4" 2'6'¾" 9 24,303 769 50'5" 59'6" 17'4" 2'6'¾" 10 26,489 838 54'1" 63'2" 17'4" 2'6'¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6'¾" 12 30,859 977 61'5" 70'6" 17'4" 2'6'¾" 12 30,859 977 61'5" 70'6" 17'4" 2'6'¾" 10 39,465 1178 56'9" 67'8" 20' 2'6'/4" 11 42,611 1272 60'5" 71'4" 20' 2'6'/4" 12 45,758 1366 64'1" 75' 20' 2'6'/4" 13 48,905 1460 67'9" 78'8" 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion, add 5" to ground	30'							
7 19,933 631 43'1" 52'2" 17'4" 2'7'/4" 8 22,118 700 46'9" 55'10" 17'4" 2'6¾" 9 24,303 769 50'5" 59'6" 17'4" 2'6¾" 10 26,489 838 54'1" 63'2" 17'4" 2'6¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6¾" 12 30,859 977 61'5" 70'6" 17'4" 2'6¾" 12 30,859 977 61'5" 70'6" 17'4" 2'6¾" 10 39,465 1178 56'9" 67'8" 20' 2'61¼" 11 42,611 1272 60'5" 71'4" 20' 2'61¼" 12 45,758 1366 64'1" 75' 20' 2'61¼" 12 45,758 1366 64'1" 75' 20' 2'61¼" 14 52,052 1554 71'5" 82'4" 20' 2'61¼" 15 55,199 1648 75'1" 86' 20' 2'61¼" 16 58,346 1742 78'9" 89'8" 20' 2'61¼" 17 61,493 1836 82'5" 93'4" 20' 2'61¼" 18 64,640 1930 86'1" 97' 20' 2'61¼" 18 64,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼" 18 61,640 1930 86'1" 97' 20' 2'61¼"								
8 22,118 700 46'9" 55'10" 17'4" 2'6¾" 9 24,303 769 50'5" 59'6" 17'4" 2'6¾" 10 26,489 838 54'1" 63'2" 17'4" 2'6¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6¾" 12 30,859 977 61'5" 70'6" 17'4" 2'6¾" 18 33,171 990 49'5" 60'4" 20' 2'61¼" 10 39,465 1178 56'9" 67'8" 20' 2'61¼" 11 42,611 1272 60'5" 71'4" 20' 2'61¼" 12 45,758 1366 64'1" 75' 20' 2'61¼" 13 48,905 1460 67'9" 78'8" 20' 2'61¼" 14 52,052 1554 71'5" 82'4" 20' 2'61¼" 15 55,199 1648 75'1" 86' 20' 2'61¼" 16 58,346 1742 78'9" 89'8" 20' 2'61¼" 17 61,493 1836 82'5" 93'4" 20' 2'61¼" 18 64,640 1930 86'1" 97' 20' 2'61¼" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. *Ground clearance is with rack & pinion, Ero clearance without rack & pinion, add 5" to ground								
9 24,303 769 50'5" 59'6" 17'4" 2'6¾" 10 26,489 838 54'1" 63'2" 17'4" 2'6¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6¾" 12 30,859 977 61'5" 70'6" 17'4" 2'6¾" 8 33,171 990 49'5" 60'4" 20' 2'6¼" 10 39,465 1178 56'9" 67'8" 20' 2'6¼" 11 42,611 1272 60'5" 71'4" 20' 2'6¼" 12 45,758 1366 64'1" 75' 20' 2'6¼" 13 48,905 1460 67'9" 78'8" 20' 2'6¼" 14 52,052 1554 71'5" 82'4" 20' 2'6¼" 15 55,199 1648 75'1" 86' 20' 2'6¼" 16 58,346 1742 78'9" 89'8" 20' 2'6¼" 17 61,493 1836 82'5" 93'4" 20' 2'6¼" 18 64,640 1930 86'1" 97' 20' 2'6¼"								
10 26,489 838 54'1" 63'2" 17'4" 2'6¾" 11 28,674 907 57'9" 66'10" 17'4" 2'6¾" 12 30,859 977 61'5" 70'6" 17'4" 2'6¾" 8 33,171 990 49'5" 60'4" 20' 2'6¼" 9 36,318 1084 53'1" 64' 20' 2'6¼" 10 39,465 1178 56'9" 67'8" 20' 2'6¼" 11 42,611 1272 60'5" 71'4" 20' 2'6¼" 12 45,758 1366 64'1" 75' 20' 2'6¼" 13 48,905 1460 67'9" 78'8" 20' 2'6¼" 14 52,052 1554 71'5" 82'4" 20' 2'6¼" 15 55,199 1648 75'1" 86' 20' 2'6¼" 16 58,346 1742 78'9" 89'8" 20' 2'6¼" 17 61,493 1836 82'5" 93'4" 20' 2'6¼" 18 64,640 1930 86'1" 97' 20' 2'6¼" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. *Ground clearance is with rack & pinion, Ero clearance without rack & pinion, add 5" to ground								
12 30,859 977 61'5" 70'6" 17'4" 2'6¾" 8 33,171 990 49'5" 60'4" 20' 2'6'¼" 9 36,318 1084 53'1" 64' 20' 2'6'¼" 10 39,465 1178 56'9" 67'8" 20' 2'6'¼" 11 42,611 1272 60'5" 71'4" 20' 2'6'¼" 12 45,758 1366 64'1" 75' 20' 2'6'¼" 13 48,905 1460 67'9" 78'8" 20' 2'6'¼" 14 52,052 1554 71'5" 82'4" 20' 2'6'¼" 15 55,199 1648 75'1" 86' 20' 2'6'¼" 16 58,346 1742 78'9" 89'8" 20' 2'6'¼" 17 61,493 1836 82'5" 93'4" 20' 2'6'¼" 18 64,640 1930 86'1" 97' 20' 2'6'¼"		10					17'4"	
8 33,171 990 49'5" 60'4" 20' 2'6'\4" 9 36,318 1084 53'1" 64' 20' 2'6'\4" 10 39,465 1178 56'9" 67'8" 20' 2'6'\4" 11 42,611 1272 60'5" 71'4" 20' 2'6'\4" 12 45,758 1366 64'1" 75' 20' 2'6'\4" 13 48,905 1460 67'9" 78'8" 20' 2'6'\4" 14 52,052 1554 71'5" 82'4" 20' 2'6'\4" 15 55,199 1648 75'1" 86' 20' 2'6'\4" 16 58,346 1742 78'9" 89'8" 20' 2'6'\4" 17 61,493 1836 82'5" 93'4" 20' 2'6'\4" 18 64,640 1930 86'1" 97' 20' 2'6'\4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground		11	28,674	907	57'9"	66'10"	17'4"	2'6¾"
9 36,318 1084 53'1" 64' 20' 2'6'/4" 10 39,465 1178 56'9" 67'8" 20' 2'6'/4" 11 42,611 1272 60'5" 71'4" 20' 2'6'/4" 12 45,758 1366 64'1" 75' 20' 2'6'/4" 13 48,905 1460 67'9" 78'8" 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground								
10 39,465 1178 56'9" 67'8" 20' 2'6'/4" 11 42,611 1272 60'5" 71'4" 20' 2'6'/4" 12 45,758 1366 64'1" 75' 20' 2'6'/4" 13 48,905 1460 67'9" 78'8" 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground								
11 42,611 1272 60'5" 71'4" 20' 2'6'/4" 12 45,758 1366 64'1" 75' 20' 2'6'/4" 13 48,905 1460 67'9" 78'8" 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground	36'							
12 45,758 1366 64'1" 75' 20' 2'6'/4" 13 48,905 1460 67'9" 78'8" 20' 2'6'/4" 14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground								
13								
14 52,052 1554 71'5" 82'4" 20' 2'6'/4" 15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" 26'0'/4" 2								
15 55,199 1648 75'1" 86' 20' 2'6'/4" 16 58,346 1742 78'9" 89'8" 20' 2'6'/4" 17 61,493 1836 82'5" 93'4" 20' 2'6'/4" 18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. "Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground								
16								
18 64,640 1930 86'1" 97' 20' 2'6'/4" Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. *Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground						89'8"		
Bin capacities and weights are calculated on ASABE S.413.1 Standard with 6% grain compaction. *Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground								
*Ground clearance is with rack & pinion. For clearance without rack & pinion, add 5" to ground								
	*Ground cl	earance is						

Ground clearance clearance



DRYING, STORAGE and HANDLING SOLUTIONS®

We've spent over 50 years developing innovative, efficient, and reliable products to meet the ever-expanding needs of grain producers. With a full-line of product Solutions®, you need look no further than Sukup for your grain handling, storage, drying, and steel building needs.



Sukup Manufacturing Co. • www.sukup.com

Box 677 ■ 1555 255th St. ■ Sheffield, IA 50475-0677 ■ ph 641.892.4222 fx 641.892.4629 ■ info@sukup.com

Distribution Centers -

Arcola, IL 61910 980 E. State Rte. 133 ph 217.268.3026 illinois@sukup.com

Aurora, NE 68818 1705 Hwy. 34 E. ph 402.694.5922 nebraska@sukup.com Cameron, MO 64429 7426 NE 352nd St. ph 816.649.2226 missouri@sukup.com **Defiance, OH 43512** 7724 Rte. 66 N. ph 419.784.9871 ohio@sukup.com

Jonesboro, AR 72403 5917 E. Johnson Ave. ph 870.932.7547 arkansas@sukup.com Watertown, SD 57201 2701 Piper Ave. ph 605.882.6697 southdakota@sukup.com