SMOOTHWALL BINS WESTERN



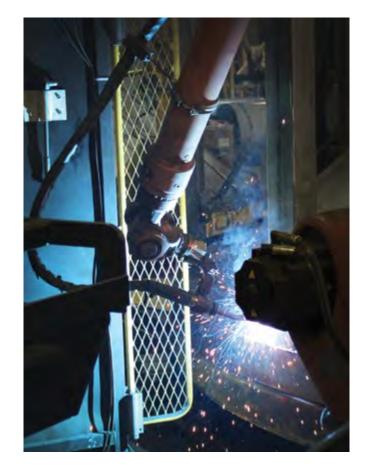
SMOOTHWALL BINS







meridianmfg.com



BEST

Meridian sets the standard of excellence in the storage and handling industry. We continuously incorporate the latest technological innovations to meet our customers' ever-changing needs. Meticulous attention to quality and detail reflect the attitude and dedication of our highly skilled craftsmen, lending confidence to each Meridian customer of a superior and dependable product. Meridian's best references are the thousands of farmers and commercial customers who have experienced the quality and value of the Meridian family of products.

Meridian and many Meridian dealers have trucks and trailers specifically designed to deliver and setup bins on each customer's yard. Our experienced drivers and dealers ensure each bin is positioned just right and ready to use.

Meridian is continually investing in the latest technology, equipment and training programs in an ongoing effort to carefully design and develop a most efficient and durable product. Robots are utilized in highly repetitive and tight welding spots to ensure unsurpassed welding procedures.





Product images in this brochure may show models and features which are not standard. Please consult your authorized Meridian dealer for product details specific to your region.

5 Multi-purpose Bins

MERIDIAN

MERIDIAN

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MERIDIAN

11 Steep-cone Bins

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- 18 SmoothWall Bin specifications



DEPENDABLE STORAGE

Our products are backed with a 10 year structural and 5 year paint warranty.

All our steel components and materials are designed and selected utilizing our suppliers' latest technology to ensure the best quality bin for each application. HSS (Hollow Structural Steel) tubing, leg bands, leg rings, bracing and sheeting are carefully selected for strength and milling, followed by rigorous cleaning and storage standards.

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HIGHLIGHTS

- Twice the "salt spray rating" of regular powders
- ► Best in industry edge coverage on sharp surfaces
- Superior adhesion to all steel including seams and smooth surfaces
- ► Extra abrasion resistance
- Additional slip factor for improved product flow and cleanliness
- ▶ 10 year on structural integrity on SmoothWall hopper bins
- One year paint warranty for liquid and commercial SmoothWall hopper bins
- Five year paint warranty on all other SmoothWall bins!

DURABLE FINISH

All paints are not created equal. Our bins utilize a premium powder coating for maximum durability.

MULTI-PURPOSE BINS

MEETS ALL YOUR NEEDS

Meridian multi-purpose bins are the #1 choice for fertilizer storage in Agribusiness and On-farm.



VERSATILITY.

Used to handle and store fertilizer, grain, feed and seed and extends to coal and any other free-flowing, dry granular commodity. Meridian offers a variety of powder chemistry options including zinc and epoxies to ensure years of trouble free storage. Contact Meridian's sales team for any questions regarding our bins, including Series II, powder coating options and custom build requirements.

GREAT FEATURES. GREAT QUALITY

- ▶ HSS (hollow structural steel) legs and bracing
- ▶ Premium Rack-n-Pinion slide gate assembly with crank
- Complete sidewall and roof ladder
- ► 25" top opening
- ► Vented top lid spring loaded and ground operated
- ▶ Min. 40 degree bottom cone and 35 degree roof cone
- ▶ 24" clearance under the slide gate
- ► Interior powder coat finish
- ► Stainless steel slide plate
- Retractable ladder

GRAINMAX BINS

MERIDIAN

MERIDIAN

MERIDIAN

SUPERIOR SELF CLEANING



HIGH LEVEL PROTECTION.

GrainMax hopper bins offer top quality grain and seed storage at prices comparable to corrugated hopper combos. Without bolts and ribs, the GrainMax seamless interior allows for safe and easy unloading, while ensuring no seed or contaminates are trapped on the walls or joints.

Completely self-cleaning with no obstructions, GrainMax hopper bins are the safest and most efficient grain bins available. You and your family will appreciate the quality and safety of GrainMax, and the time and energy saved handling grain in a smooth-wall bin.

GREAT FEATURES. GREAT QUALITY

- ► HSS (hollow structural steel) legs and bracing
- ▶ Premium Rack-n-Pinion slide gate assembly with crank
- Complete sidewall and roof ladder
- ▶ 25" top opening
- ► Vented top lid spring loaded and ground operated
- ▶ Min. 40 degree bottom cone and 35 degree roof cone
- ► 24" clearance under the slide gate
- ► Retractable ladder

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QUALITY & MANAGEMENT.

Meridian's SmoothWall Feed bins are designed with feed quality and management in mind. The advantage of Meridian's SmoothWall design is very evident in feed storage. Smooth cone and side-wall surfaces, without bolts or ribs, a bottom cone of 55 or 60 degrees, and our exclusive interior high slip factor powder coating, ensure feed discharge without hang ups and entrapments, thus reducing spoilage and unnecessary expenses.

GREAT FEATURES. GREAT QUALITY

- ► HSS (hollow structural steel) legs and bracing
- Complete sidewall and roof ladder
- Retractable ladder
- ▶ 25" top opening
- Vented top lid spring loaded and ground operated
- ▶ Minimum 30" clearance under discharge ring
- Interior powder coat finish
- Premium Rack-n-Pinion slide gate assembly with crank

STEEP-CONE BINS

MERIDIAN



ELIMINATE HANG UPS.

The variance of flow characteristics may result in some products bridging inside a bin. For commodities requiring a steeper cone and more capacity than a feed bin, the solution is a Meridian Steep Cone series. These bins are built with the same standards as the fertilizer series, but feature a 55 or 60 degree bottom cone in capacities up to 150 MT.

GREAT FEATURES. GREAT QUALITY.

- ► HSS (hollow structural steel) legs and bracing
- ► Premium Rack-n-Pinion slide gate with crank
- ► Complete sidewall and roof ladder
- ► 25" top opening
- ► Vented top lid spring loaded and ground operated
- ► 55 degree or 60 degree bottom cone depending on model
- ► 35 degree roof cone
- ► 24" clearance under the slide gate
- Interior powder coat finish
- ► Retractable ladder

LIQUID HOPPER BINS

Optional bolt on slide gate assembly for use with dry flowable products

Heavy duty flanged bottom opening with

stainless steel bottom plate assembly.

P 15

IN IN

MALE BAS

100 2.00

13 14

1.00 13.00

150 12.60

55 155

50 1.62

110

MERIDIAN



Meridian's Liquid hopper bins are the ultimate storage bins, taking versatility and multi-purpose to the extreme. In addition to storing all the dry flowable products of the fertilizer series, these bins are designed, engineered and painted to store a whole range of liquid products such as liquid fertilizer, liquid feed supplements. With the exception of the bottom flange plate assembly, these bins look identical to the fertilizer bins, differing significantly however, in heavier gauge steel, welded inside and out, four coats of powder and other standard features.

GREAT FEATURES. GREAT QUALITY

- ► HSS (hollow structural steel) legs and bracing
- Minimum 12 gauge construction
- ► Welded Inside and outside
- ▶ Interior has 2 coats of Meridian's epoxy powder
- Exterior has 2 coats : Meridian's exclusive premium powder finish and a Zinc undercoat
- Complete sidewall and roof ladder
- Heavy Duty flanged bottom opening with stainless steel bottom plate
- ▶ 25" top opening
- ► Vented top lid spring loaded and ground operated
- ► Retractable ladder





Top Lid Lever Assembly Easy opening of roof lid.



Bottom Manway Access hole in bottom cone.



Fan Mounting Bracket Support bracket mounted under fan.



Auger Boot Fastens under slide gate. Available in Flanged, Non-Flanged and Flex Boot. (Non-Flanged shown).



Ladder Cage & Handrails Safety enclosure for added security.



LevAlert Level indicator on sidewall.



Liquid Site Gauge Valve Safety enclosure for added security.



Pale Spout For spot feeding or sampling.



Poke Hole 8" x 8" access to discharge just above gate.



Bean Ladder Helps maintain seed quality with bean-onbean flow.



Roof Manhole Access hole in top cone.



Skid Foundation Skid foundations are available for most bins.



Rack-n-Pinion slide gate assembly Premium Rack-n-Pinion slide gate assembly with crank; also available in stainless steel.



Slide Gate to Chore Time Adaptor Easy transition to Chore Time boot.



View Glass 4" round window on sidewall.





The **Meridian AirMax**[™] Aeration System cools and dries grain, minimizes the risk of bugs, allows farmers to start harvesting earlier and significantly decreases the chance of spoilage in the bin.

VERTICAL ONE-PIECE AERATION

- Aeration system design enables natural air grain drying as conditions permit
- ► Continuous screen from top to bottom
- Angle rib construction distributes point load pressures
- ▶ 24" rib spacing maximizes aeration area
- ► FULL LEG SUPPORT 4" UP AERATION
- Complete interior screen perforated to lid
- ▶ Duct clean out shroud
- ► Factory installed in 40 & 45 degree Meridian bins at time of manufacture
- 3 leg design



VERTICAL (SECTIONAL) AERATION

- Designed for installation into existing hopper bins
- Sectional pieces fit through a standard
- Meridian man-way for installation inside the hopper bin
- Aeration system design enables natural air grain drying as conditions permit
- ► Continuous screen from top to bottom
- Engineered honeycomb frame sections
- ▶ 24" rib spacing maximizes aeration area
- ► Full leg support 4" up aeration
- ▶ Duct clean out shroud
- ► SUITABLE FOR HIGH-FLOW APPLICATIONS, EXTRA SUPPORT LEGS OPTIONAL
- ▶ Fits 35,40,45,55 and 60 degree cones
- 4 leg design

HORIZONTAL AERATION

- ► Aeration design enables easy removal of aeration tube for cleaning or fertilizer storage
- ▶ Continuous screen from end to end
- ► Angle rib construction distributes point load pressures
- ▶ 24" rib spacing maximizes aeration area
- ▶ FITS 40 & 45 DEGREE CONES
- ▶ Bolt-in version is available for installation into existing hopper bins. Duct is removable

UNIQUE FEATURES

VERTICAL NATURAL AIR DRYING SYSTEM:

- Designed to easily retrofit your existing hoppers bins.
- Retro system is designed and approved for installation in steeper cones and use in high moisture grain.
- Larger screen surface area maximizes the effectiveness of your drying, cooling and aeration efforts.
- Optional extra support leg increases stability in high-flow applications.
- Full support legs ensure a durable, problem free system.

HORIZONTAL AERATION SYSTEM:

- Easily removed for quick cleaning or when storing fertilizer.
- Larger screen surface area maximizes the effectiveness for cooling and aerating grain.
- Available bolt-in kit for installation in existing hopper bins.

AIRMAX[™] MODELS AND SPECIFICATIONS

MODELS	MAX BIN SIZE (BUSHELS) ¹	RECOMMENDED HOPPER BIN SIZE ²	DIMENSIONS	DIA. I.D	WEIGHT (LBS)	SCREEN SURFACE (INCHES)	INLET SIZE AND TYPE	HEIGHT INTO GRAIN CAVITY 35° CONE ³	HEIGHT INTO GRAIN CAVITY 40° CONE ³	HEIGHT INTO GRAIN CAVITY 55° CONE ³	
VERTICAL AERATION – ONE PIECE											
V3004	3500	14' & 16' bins up to 3500 bushels. Models 1615. GM3 and smaller	30" x 4'	20"	385	6299	9" x 14" Rect	n/a	86"	n/a	
V3006	5000	14' & 16' bins up to 5000 bushels. Models 1625. GM5 and smaller	30" x 6'	20"	440	9656	9" x 14" Rect	n/a	110"	n/a	
V3008	6000	14' & 16' bins up to 6000 bushels. Models 1630. GM6 and smaller	30" x 8'	20"	525	13132	9" x 14" Rect	n/a	134"	n/a	
V4504	7000	14', 16' & 18" bins up to 7000 bushels. Models 1825. GM64 and smaller	45" x 4'	30"	580	9301	14" x 17" Rect	n/a	95"	n/a	
VERTICAL	AERATION – SI	ECTIONAL (DESIGNED FOR RETROFITTING	G EXISTING HOP	PER BIN	S AND HIG	H-FLOW A	PPLICATION	IS) 4			
VS3004	5000	All bins up to 5000 bushels	30" x 4'	20"	420	5245	9" x 14" Rect	80"	86"	99"	
VS3006	8000	All bins up to 8000 bushels	30" x 6'	20"	500	7990	9" x 14" Rect	104"	110"	123"	
VS4504	15000	All bins up to 15000 bushels	45" x 4'	30"	600	7925	14" x 17" Rect	88"	95"	116"	
VS4506	20000	All bins up to 20000 bushels	45" x 6'	30"	745	12100	14" x 17" Rect	112"	119"	140"	
HORIZONT	AL AERATION	(REMOVABLE FOR FERTILIZER STORAGE	AND AVAILABLE	FOR RE	TROFITTIN	NG EXISTIN	G BINS)				
H1808	5000	14' & 16' bins up to 3300 bushels. Models 1615. GM3 and smaller	18" x 8'	n/a	155	3478	18" Rnd	38"	44"	n/a	
H2408	6500	14', 16' & 18' bins up to 5000 bushels. Models 1625, 1820, GM500 and smaller	24" x 8'	n/a	235	4660	24" Rnd	44"	50"	n/a	
H2410	6500	14', 16' & 18' bins up to 6500 bushels. Models 1630, 1825, GM6, GM64 and smaller	24" x 10'	n/a	285	6284	24" Rnd	51"	59"	n/a	
H2410-HD	8,500	Up to 18' diameter	24" x 10'	24"	360	6284	24" Rnd	51"	59"	n/a	
H2412-HD	11,000	Up to 20' diameter	24" x 12'	24"	425	7908	24" Rnd	58"	68"	n/a	

Recommended bushel capacities for Meridian AirMax[™] system.
Recommended bin model(s) for maximum grain drying and aeration results.

Distance from gate to top of aeration mechanism.
Meridian AirMax[™] Sectional system is an exclusive and unique aeration product allowing installation of vertical aeration in existing hopper bins. This unit is built heavier than the one-piece Meridian AirMax[™], withstanding weights up to 20,000 bushels.

SMOOTHWALL

MODELS AND SPECIFICATIONS

MULTI-PURPOSE BIN SERIES

Model Number	Approx. Bushels	Cubic Feet	lmp. Tons	Metric	Bin Height	Recom- mended Auger		
12' Diameter Multi-Purpose - 45 Degree Bottom Cone								
1205	806	949	29	27	16'-8"	33'		
1208	1095	1288	40	36	19'-8"	39'		
1210	1287	1514	47	43	21'-8"	39'		
1212	1479	1740	54	49	23'-8"	46'		
1215	1768	2080	64	58	26'-9"	46'		
14'-0" Diame				1				
1410	1801	2146	67	60	23'-4"	46'		
1412	2060	2454	76	69	25'-4"	46'		
1415	2449	2914	90	82	28'-4"	53'		
1417	2708	3222	100	91	30'-4"	53'		
1420	3097	3683	114	104	33'-4"	59'		
15.5' Diamete				1				
15610	2241	2636	82	74	23'-9"	41'		
15612	2526	3010	93	85	25'-9"	46'		
15615	3003	3575	111	101	28'-9"	53'		
15617	3320	3952	123	111	30'-9"	59'		
15620	3796	4515	140	127	33'-9"	66'		
15625	4589	5455	169	153	38'-9"	66'		
15630	5383	6396	198	180	43'-9"	72'		
16' Diameter	Multi-Purp	ose - 40	Degree E	Bottom Co	one			
1610	2410	2831	88	80	23'-11"	46'		
1612	2751	3233	100	91	25'-11"	46'		
1615	3264	3835	119	108	28'-11"	53'		
1617	3606	4237	131	119	30'-11"	59'		
1620	4119	4837	150	136	33'-11"	66'		
1625	4973	5839	181	164	38'-11"	66'		
1630	5828	6842	212	192	43'-11"	72'		
18' Diameter Multi-Purpose - 40 Degree Bottom Cone						72'		
1810	3161	3719	115	105	25'-6"	46'		
1815	4242	4991	155	140	30'-6"	53'		
1820	5324	6263	194	176	35'-6"	66'		
1825	6405	7536	234	212	40'-6"	66'		
1830	7488	8809	273	248	45'-6"	79'		
o select the	most appro	onriate hi	n size fo	r vour sto	prage ple	ease follov		

To select the most appropriate bin size for your storage, please follow these steps:

• Determine product density (lbs/ft³).

 Convert the total tonnage being stored to lbs, then divide by the density.
CALCULATIONS The result is the cubic foot capacity you require. Ex. You need to store 100 MT of urea fertilizer with a density of 48 lbs. 100 x 2204 = 220,400 / 48 = 4592 (Min. ft³ required).

To calculate a bins holding capacity of a specific product, follow these steps:

- Determine product density (lbs/ft³).
- Multiply the bins cubic foot capacity by the product density, then divide by 2204.

Ex. Fertilizer blend weighs 57 lbs./ft3 & you are purchasing a model 1620 fertilizer bin. Model 1620 = 4837 ft3 x 57 lbs. = 275,709/2204 = 125 MT. Your new 1620 will hold approx. 125 MT of your specific fertilizer blend.

GRAINMAX SERIES

Model Number	Approx. Bushels	Cubic Feet	lmp. Tons	Metric Tonnes	Bin Height	Recom- mended Auger	
14' Diamete							
GM2300	2301	2707	69	63	26'-3"	46'	
15.5' Diame	ter GrainMax	c - 40 Degre	e Botton	n Cone			
GM3000	3003	3575	90	82	28'-9"	53'	
GM4000	3796	4515	114	103	33'-9"	66'	
GM5000	4591	5457	138	125	38'-9"	66'	
GM6000	5385	6399	162	147	43'-9"	72'	
16' Diamete	er GrainMax -	40 Degree	Bottom (Cone			
GM3000	3264	3840	98	89	28'-11"	53'	
GM4000	4118	4845	124	112	33'-11"	66'	
GM5000	4973	5851	149	135	38'-11"	66'	
GM6000	5828	6856	175	159	43'-11"	72'	
18' Diameter GrainMax - 40 Degree Bottom Cone							
GM5300	5324	6263	160	145	35'-6"	66'	
GM6400	6405	7536	192	174	40'-6"	66'	
GM7500	7488	8809	225	204	45'-6"	79'	
20' Diamete	er - 40 Degree	e Bottom C	one				
2035	10589	12585	318	288	51'-10"	85'	
FEED BIN	SERIES						
Model Number	Approx. Bushels	Cubic Feet	lmp. Tons	Metric Tonnes	Bin Height	Recom- mended Auger	
7' Diameter	Feed Bins -	60 Degree I	Bottom C	one			
705	252	301	6.3	5.7	14'-9"	33'	
708	349	416	8.7	7.9	17-9"	33'	
710	414	492	10.3	9.3	19'-9"	39'	
8' Diameter	8' Diameter Feed Bins - 55 Degree Bottom Cone						
808	456	543	11.4	10.3	18'	39'	
810	541	643	13.5	12.2	20'	39'	
812	625	744	15.6	14.1	22'	39'	
9' Diameter							

710	414	492	10.3	9.3	19'-9"	39'		
8' Diameter								
808	456	543	11.4	10.3	18'	39'		
810	541	643	13.5	12.2	20'	39'		
812	625	744	15.6	14.1	22'	39'		
9' Diameter	Feed Bins -	55 Degree	Bottom (Cone				
910	703	837	17.5	15.9	21'	39'		
912	811	964	20.2	18.3	23'	46'		
915	971	1154	24.2	21.9	26'	46'		
10' Diameter Feed Bins - 55 Degree Bottom Cone								
1010	892	1061	22.2	20.1	22'-2"	39'		
1012	1024	1218	25.5	23.1	24'-2"	46'		
1015	1222	1453	30.4	27.6	27'-2"	53'		

Bushel capacities are approximate.

Feed bin capacities are based on 40 lbs/ft³.

All fertilizer bins, steep cone bins and liquid bins capacities are based on 62 lbs/ft³.

STEEP CONE SERIES

Model Number	Approx. Bushels	Cubic Feet	lmp. Tons	Metric Tonnes	Bin Height	Recom- mended Auger
12' Diameter S	Steep Cone S	eries - 55 D	egree B	ottom Cone		
1208-55	1178	1382	39	25	22'	46'
1210-55	1371	1607	45	29	24'	46'
1212-55	1563	1833	52	33	26'	46'
1215-55	1851	2171	61	39	29'	53'
14' Diameter	Steep Cone	Series - 55	Degree	Bottom Cor	ne	
1410-55	1928	2297	65	42	26'	46'
1412-55	2187	2605	73	47	28'	53'
1415-55	2576	3065	86	56	31'	59'
1417-55	2835	3372	95	61	33'	66'
1420-55	3224	3833	108	70	36'	66'
15.5' Diamete	r Steep Con	e Series - 5	55 Degr	ee Bottom C	one	
15.510-55	2447	2917	82	53	28'	53'
15.512-55	2765	3293	93	60	30'	59'
15.515-55	3242	3858	109	70	33'	66'
15.517-55	3559	4235	119	77	35'	66'
15.520-55	4036	4800	135	87	38'	66'
15.525-55	4830	5741	161	104	43'	72'
15.530-55	5621	6678	188	121	48'	85'
16' Diameter	Steep Cone	Series - 55	Degree	Bottom Cor	ne	
1610-55	2638	3144	88	57	28'	53'
1612-55	2976	3545	100	64	30'	59'
1615-55	3484	4147	117	75	33'	66'
1617-55	3823	4548	128	83	35'	66'
1620-55	4330	5150	145	93	38'	66'
1625-55	5177	6153	173	112	43'	72'
1630-55	6019	7152	201	130	48'	85'
LIQUID BII			mp.		Metric	Bin

Cubic Feet	US Gallon	Imp. Gallon	Imp. Tons	Metric Tonnes	Bin Height				
12' Diameter Liquid Bins - 45 Degree Bottom Cone									
1740	13,074	10,878	71	64	23'-8"				
14' Diameter Liquid Bins - 45 Degree Bottom Cone									
2452	18,339	15,270	99	90	25'-4"				
15.5' Diameter Liquid Bins - 40 Degree Bottom Cone									
3008	22,498	18,734	122	110	24'-6"				
3572	26,723	22,252	145	131	27-6"				
3949	29,540	24,597	160	145	29'-6"				
4514	33,765	28,115	183	166	32'-6"				
er Liquid Bi	ns - 40 Deg	gree Botto	m Cone						
3231	24,167	20,123	131	119	25'-11"				
3833	28,669	23,872	155	141	28'-11"				
4234	31,671	26,371	171	156	30'-11"				
4836	36,173	30,120	196	178	33'-11"				
	r Liquid Bi 1740 r Liquid Bi 2452 ter Liquid 3008 3572 3949 4514 r Liquid Bi 3231 3833 4234	I Liquid Bins - 45 Deg 1740 13,074 I Liquid Bins - 45 Deg 18,339 It Liquid Bins - 40 D 3008 22,498 3572 26,723 3949 29,540 4514 33,765 It Liquid Bins - 40 Deg 3231 2451 28,669 4234 31,671	r Liquid Bins - 45 Degree Bottor 1740 13,074 10,878 r Liquid Bins - 45 Degree Bottor 2452 18,339 15,270 ter Liquid Bins - 40 Degree Bottor 3008 22,498 18,734 3572 26,723 22,252 3949 29,540 24,597 4514 33,765 28,115 r Liquid Bins - 40 Degree Bottor 3231 24,167 20,123 3833 28,669 23,872 4234 31,671 26,371 26,371	Feet Gailon Gailon Gailon rr Liquid Bins - 45 Degree Bottom Cone 1740 13,074 10,878 71 rr Liquid Bins - 45 Degree Bottom Cone 2452 18,339 15,270 99 ter Liquid Bins - 40 Degree Bottom Cone 3008 22,498 18,734 122 3572 26,723 22,252 145 3949 29,540 24,1597 160 4514 33,765 28,115 183 183 12 3231 24,167 20,123 131 3833 28,669 23,872 155 4234 31,671 26,371 171 171	Feet Gallon Gallon Fonnes rr Liquid Birs - 45 Degree Bottom Cone 13,074 10,878 71 64 1740 13,074 10,878 71 64 arr Liquid Birs - 45 Degree Bottom Cone 2452 18,339 15,270 99 90 ter Liquid Birs - 40 Degree Bottom Cone 3008 22,498 18,734 122 110 3572 26,723 22,252 145 131 3949 29,540 24,597 160 145 4514 33,765 28,115 183 166 rr Liquid Birs - 40 Degree Bottom Cone 3231 24,167 20,123 131 119 3833 28,669 23,872 155 141 4234 31,671 26,371 171 156				

Liquid tonnage calculated at 13 lbs/gal.

World Class Quality. Locally Made Relationships.







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