

Table 8. Typical floor area requirements of various items of farm equipment.^a

Equipment Item and Size	Length (ft.)	Width (ft.)	Area (sq. ft.)	Height (ft.)	Equipment Item and Size	Length (ft.)	Width (ft.)	Area (sq. ft.)	Height (ft.)
TRACTORS					FIELD APPLICATION EQUIPMENT				
2-wheel-drive 2 - 3 plow	11.5	8	92		Field Sprayer (rear mtd.)				
2-wheel-drive 4 - 5 plow	14	9.5 ^b	133	9.5	21 - 42 ft. (fold-up boom)	6 - 8	8 - 9	48 - 72	
2-wheel drive 6 - 8 plow	15.5	10.5 ^b	163	9.5	Field Sprayer (drawn)				
4-wheel drive <300 HP	20	12 ^b	240	11.5	21 - 42 ft. (front-fold boom)	11 - 15	8	88 - 120	8 - 13
4-wheel drive >300 HP	22.5	12 ^b	270	12.5	42 - 47 ft. (fold-up boom)	15 - 22	10 - 13	150 - 286	
TILLAGE MACHINERY					30 - 40 ft. (rear-fold boom)	25 - 30	9.5	238 - 285	
Subsoiler (V-frame)					60 - 80 ft. (rear-fold boom)	48 - 58	8 - 9	384 - 522	
3 - 13 shank (rear mtd.)	4.5 - 10.5	8.5 - 20.5	38 - 215		Knife-Down Applicator				
7 - 13 shank (drawn)	14.5 - 18.5	13 - 20.5	188 - 379		13 ft. (rear mtd., rigid)	6	13.5	81	
5 - 13 shank (drawn, wings)	15.5	15	233	9.5	15 ft. (rear mtd., rigid)	6	15.5	93	
Moldboard Plow^c					20 ft. (rear mtd., folding)	7	11	77	
3-bottom	9	5	45		24 ft. (rear mtd., folding)	8	11	88	10
4-bottom	12	6.5	78		27 - 30 ft. (rear mtd., folding)	8	11	88	12
5-bottom	15	8	120		Fertilizer Spreader				
6-bottom	22	9.5	209		1 - 2 ton (spinner-type)	8	5.5	44	
7-bottom	28	12.5	350		4 ton (spinner-type)	10	6	60	
8-bottom	31	14	434		5 ton (spinner-type)	15	7	105	
Chisel Plow (drawn)					6 - 8 ton (spinner-type)	18	8	144	
7 - 10 ft. (rigid frame)	13.5	10	135		Manure Spreader				
11 - 20 ft. (rigid frame)	16.5	11 - 20	180 - 330		125 bu. (rear discharge)	15.5	6.5	101	
17 - 27 ft. (hinged frame)	16.5	13.5	223	9	200 - 300 bu. (rear discharge)	17 - 23	8	136 - 184	
21 - 31 ft. (dual fold wings)	19.5	16	312	9	350 - 500 bu. (rear discharge)	21 - 24	8.5	179 - 204	
23 - 35 ft. (dual fold wings)	20	20.5	410	14.5	700 bu. (rear discharge)	30	8.5	255	8
35 - 41 ft. (dual fold wings)	22.5	21	473	17.5	200 bu. (side discharge)	20	7.5	150	
37 - 59 ft. (dual fold wings)	25	14 - 20.5	350 - 513	15.5 - 19.5	300 - 400 bu. (side discharge)	20	8.5	170	8
Offset Disk Harrow (drawn)					1500 gal. (liquid)	15	8	120	
11 - 20 ft.	15.5-19.5	11-20	170-390		2500 gal. (liquid)	17	8	136	
Tandem Disk Harrow (drawn)					3000 gal. (liquid)	20	8.5	170	8
6.5 - 15.5 ft. (rigid frame)	10 - 14	6.5 - 15.5	65 - 220		5000 gal. (liquid)	24	11.5	276	9.5
16 - 24 ft. (single fold wing)	18.5	12.5	231	10.5	PLANTING AND SEEDING MACHINERY				
13.5 - 18 ft. (dual fold wings)	16	12	192	9	Grain drill				
18 - 27 ft. (dual fold wings)	19.5	13.5	263	10.5	7 - 9 ft. (rear mtd.)	6	7 - 9	42 - 54	10 - 12 ^c
27 - 33 ft. (dual fold wings)	24	16	384	12	11 - 20 ft. (rear mtd.)	8	11 - 20	88 - 160	10 - 12 ^c
32 - 38 ft. (dual fold wings)	25	19	475	13.5	7 - 9 ft. (drawn)	9	8.5 - 10.5	77 - 95	10 - 12 ^c
27.5 - 40 ft. (section swing around)	55 - 54	15 - 20	825 - 1300		11 - 14 ft. (drawn)	10.5	12 - 15	126 - 158	10 - 12 ^c
Field Cultivator					20 ft. (drawn)	13.5	21	284	10 - 12 ^c
7.5 - 20.5 ft. (rear mtd., rigid)	8	7.5 - 20.5	60 - 164		20 - 24 ft. (drawn, sectional)	21	13.5 - 17.5	284 - 368	10 - 12 ^c
10 - 20.5 ft. (drawn, rigid)	15.5	10 - 20.5	155 - 318		26 - 32 ft. (drawn, sectional)	25	13.5 - 17.5	338 - 438	10 - 12 ^c
15.5 - 24.5 ft. (rear mtd., wings)	16	8	13.5	108 9	40 ft. (drawn, sectional)	29.5	17.5	516	10 - 12 ^c
20.5 - 26.5 ft. (drawn wings)	15.5	13.5	210	15.5	54 ft. (drawn, sectional)	36	17.5	630	10 - 12 ^c
27.5 - 42.5 ft. (drawn, rearfold)	19	21.5	19	408 9.5	Row Crop Planter (corn, bean)				
42.5 - 50 ft. (drawn, rearfold)	21.5	19	408	20	4 - 40/6-30 in. (drawn)	14.5	13 - 15.5	189 - 225	9
48.5 - 60.5 ft. (drawn, rearfold)	25	25	20	500 16.5	6 - 40/8-30 in. (drawn, end trans.)	23.5	9	212	10
Spring-Tooth Harrow					8 - 40 in. (drawn, end trans.)	29	12	348	11
15 - 27 ft. (drawn, folding)	15	13	195	8 ^d	12 - 30 in. (drawn, end trans.)	33	13	429	12
30 - 39 ft. (drawn, folding)	28	12	336	8 ^d	4 - 40/6 - 30 in. (rear mtd., toolbar)	8	13 - 15.5	104 - 124	9
48 - 60 ft. (drawn, folding)	40	15	600	8 ^d	6 - 40/8 - 30 in. (rear mtd., toolbar)	8	19.5	156	11
Roller Harrow (drawn)					8 - 40/12 - 30 in. (rear mtd., folding)	8	18.5	148	12.5
7.5 - 15.5 ft. (rigid frame)	15	8 - 16	120 - 240		8 - 40/12 - 30 in. (drawn, folding)	23 - 28	13.5 - 15	311 - 420	11 - 12
21 - 25 ft. (wings)	19.5	14	273	10	12 - 40/16 - 30 in. (drawn, folding)	25 - 33.5	13.5 - 15	338 - 503	11 - 12
32 ft. (wings)	19.5	17.5	341	11	18 - 30 in. (drawn, folding)	36.5	15	548	12
Rotary Hoe (rear mounted)					24 - 30 in. (drawn, folding)	36	13.5	486	13
12 - 15 ft. (rigid frame)	4	12 - 15	48 - 60						
21 - 34 ft. (rigid, end transport)	23 - 36	5	115 - 180						
21 - 34 ft. (wings)	5	11 - 17.5	55 - 88	8					
Row-Crop Cultivator									
4 - 40/6 - 30 in. (front/rear mtd.)	8	16	128						
6 - 40/12 - 30 in. (front mtd.)	13 - 20	23	260 - 640						
6 - 40/12 - 30 in. (rear mtd., end transport)	23 - 32.5	8	184 - 260						
6 - 40/8 - 30 in. (rear mtd., folding)	8	11.5	92	10					
6 - 40/12 - 30 in. (rear mtd., folding)	8	16	128	10					
16 or 18 - 30 in. (rear mtd., folding)	8	21	168	17.5					

Length Equipment Item and Size	Width (ft.)	Area (sq. ft.)	Height (sq. ft.)	(ft.)
GRAIN HARVEST MACHINERY (continued)				
Combine (self-propelled, without header)				
4-row	20	10	200	11.5 ^f
4-row/6-row	23	12	276	12.5 ^f
6-row/8-row	26	13	338	12.5 ^f
8-row/12-row	26	14.5	377	13 ^f
Direct-Cut Header for Combine (platform header)				
10, 13, 15, 16, and 18 ft.	8	11 - 19	88 - 152	
20, 22, 24, and 30 ft.	9	21 - 31.5	189 - 284	
Row Crop Header for Combine (corn, bean, grain, sorghum)				
2 - 40/3 - 30 in.	9	8	72	
3 - 40/4 - 30 in.	10	9.5 - 10	95 - 100	
4 - 40/6 - 30 in.	10	13 - 14.5	130 - 145	
5 - 40 in.	10	16	160	
6 - 40/8 - 30 in.	10	19.5 - 20.5	195 - 226	
8 - 40 in.	11	26	286	
12 - 30 in.	12	30.5	366	
Pick-Up Header				
10 and 13 ft.	15	10 - 13	150 - 195	
Combine (pull-type with header)				
13 ft. Direct-cut or pick-up	33	14	462	10 ^f
4 - 40 in. Row-crop or 11 ft. 43 pick-up	43	14.3	615	12.1 ^f
HAY-FORAGE HARVEST MACHINERY				
Mowers (rear mounted)				
6 ft. (cutterbar)	7.5	6.5	49	
7 ft. (cutterbar)	7.5	7.5	56	
9 ft. (cutterbar)	7.5	8.5	64	9.5
Mower-Conditioner (drawn)				
7 ft. (cutterbar)	13	9.5	124	
9 ft. (cutterbar)	15.5	11.5	178	
12 ft. (cutterbar)	21.5	13	280	
14 ft. (cutterbar)	21.5	15	323	
Windrower (self-propelled without header)				
70 HP	13.3	10.6	141	10 w/cab
75 HP	13.7	12.3	169	10 w/cab
94 HP	14.8	12.9	191	10 w/cab
Auger Header				
10, 12, 14, and 16 ft.	8	11 - 17	88 - 136	
Draper Header				
12, 15, 18, 21, and 25 ft.	9	14 - 26	126 - 234	
Rake, Side Delivery				
7.5 ft. (rear mounted)	7.5	4	30	
9 ft. (rear mounted)	7.5	10	75	
8.5 - 10 ft. (semi-mounted)	10.5	10 - 11	105 - 116	
7.5 ft. (drawn)	16.5	7	116	
9 ft. (drawn)	17.5	7	123	
11 ft. (drawn)	20	7	140	
18 ft. (drawn, sectional)	10	12	120	
21 ft. (drawn, sectional)	10	16	160	
Pick-Up Baler (conventional)				
18.5	18.5	13.5	250	
Round Baler				
650-lb. bales	10	6.5	65	
800-lb. bales	11.5	6.5	75	
850/900-lb. bales	12.5 - 14	7 - 8	88 - 112	
1500/1800-lb. bales	13.5 - 15.5	8	108 - 124	8 - 9
Stack Wagon				
1.5 ton	18.5	10.5	194	13
3 ton	23	12	276	15
Forage Harvesters (self-propelled without header) [§]				
175 - 200 HP	14	8	112	10.5
250+ HP	15.5	8.5	132	10.5
250+ HP (with hopper)	18	9	162	14
Forage Harvester (drawn)				
16	16	9.5	152	10
Forage Harvester (mounted)				
12	12	8.5	102	10
Forage Chopper/Blower				
10 - 13	10 - 13	6 - 7.5	60 - 98	

Equipment Item and Size	Length (ft.)	Width (ft.)	Area (sq. ft.)	Height (ft.)
HAULING EQUIPMENT				
Multi-Bale Mover (round)				
3, 1500-lb. bales	25.2	6.5	166	
6, 1500-lb. bales	26	8	208	
8, 850-lb. bales	30.5	8	244	
Stack Mower				
1.5 ton	18.5	10.5	194	13
3 ton	23	12	276	15
Forage Wagon				
14 ft. box	17	8	136	11.5
16 ft. box	19.5	8	156	11.5
High Dump Wagon				
300 bu.	13	8.5	111	13
360 bu.	15	10	150	13
Gravity Flow Wagon				
165 - 220 bu.	10.5	6.5	68	8
225 - 380 bu.	11 - 12.5	7 - 8	77 - 100	8 - 9
450 - 550 bu.	12 - 17	8	96 - 136	9 - 10
650 bu.	16	8.5	136	9.5
1000 bu.	24	8.5	204	9.5
Grain Auger Cart				
400 bu.	15.5	8	124	10
575 bu.	18	8	144	10
650 bu.	20.5	8.5	174	10
700 bu.	23	10	230	9
820 bu.	25	8.5	213	10.5
Trailer (cargo/implement)				
20 - 26 ft.	25 - 31	8	200 - 248	
Gooseneck Trailer				
20 - 32 ft.	28 - 40	8	224 - 320	
Laydown Implement Trailer				
18 ft.	30	8 - 12	240	
Truck				
1.5 ton	21	8	168	
MISCELLANEOUS MACHINERY				
Rotary Mower/Disk Mower				
5 ft. (rear mounted)	7.5	5.5	41	
6 ft. (rear mtd., rigid)	8.5 - 11	6.5	55 - 72	
7 ft. (rear mtd., rigid)	9.5 - 11.5	7.5	71 - 86	
9 ft. (rear mtd., rigid)	7 - 11.5	9.5	67 - 110	
13.5 ft. (rear mtd., rigid)	7 - 12	14	98 - 168	
15 ft. (drawn, folding)	12	8.5	102	
Stalk Shredder				
6.5 - 20 ft. (flat-type)	10	7.5 - 21.5	72 - 215	
Skid-Steer Loader				
18 HP	7.5	3.5	26	
25 HP	8.5	4	34	
30 - 35 HP	9.5	4.5	43	
40 - 45 HP	9.5 - 10	4.5 - 5.5	4 - 55	
Front-End Tractor Loader				
14 - 15.5	14 - 15.5	5 - 6	70 - 93	
Mixer-Feeder Wagon				
150 bu.	16.5	7.5	124	
235 bu.	18.5	8	148	8
312 bu.	20	9	180	8
Grinder-Mixer				
12	12	8	96	8.5
Tub-Grinder				
24	24	9.5	228	12 - 13

^a The hitching terms "drawn" and "pull-type" are used synonymously. Also, equipment height

(far right column) is shown only if height exceeds 8 feet.

^b Add 5 feet (and recalculate area) for tractors with duals, 2.5 feet one side only.

^c Sizes given are general requirements for mounted, semi-mounted, or pull-type, including 14, 16, 18, 20, and 22-inch bottoms.

^d Add 3 to 4 feet of height if equipped with tine-toothed finishing attachment.

^e Grain drills with markers are 10 to 12 feet high.

^f Extension on grain bin may exceed height shown.

[§] See self-propelled combine for approximated dimensions of direct-cut, row-crop, and pick-up headers.