

Table No. 6.—Galvanized-steel-wire Ropes.

TABLE OF BREAKING-LOADS AND CORRESPONDING SAFE-WORKING LOADS FOR GALVANIZED-STEEL-WIRE ROPES OF HAWSER BASIC QUALITY, USED FOR SINGLE WHIPS, SINGLE STROPS, OR LONG-EYED SNOTTERS, AND FOR OTHER SIMILAR CASES WHERE THE LOAD IS CARRIED ON A SINGLE PART.

(Tensile strength of wires, 90 tons per square inch.)

size of Rope.		Construction.—Six Strands of 19 Wires each.			Construction.—Six Strands of 24 Wires each.			Construction.—Six Strands of 37 Wires each.		
Circumference, in Inches.	Diameter, in Inches (approx.).	Actual Breaking-load, in Tons.	Working-load, in Tons, &c.	Working-load, in Pounds.	Actual Breaking-load, in Tons.	Working-load, in Tons, &c.	Working-load, in Pounds.	Actual Breaking-load, in Tons.	Working-load, in Tons, &c.	Working-load, in Pounds.
1	5/16	2.9	T. cwt. qr. lb.	928	2.6	T. cwt. qr. lb.	832	3.0	T. cwt. qr. lb.	960
1 1/8	3/8	3.5	0 8 1 4	1,120	3.5	0 10 0 0	1,120	3.7	0 8 2 8	1,184
1 1/4	13/32	4.5	0 10 0 0	1,440	4.3	0 12 1 4	1,376	4.0	0 10 2 8	1,280
1 1/2	7/16	5.2	0 12 3 12	1,664	5.1	0 14 2 8	1,632	5.0	0 11 1 20	1,600
1 3/4	15/32	6.4	0 14 3 12	2,048	6.0	0 17 0 16	1,920	6.3	0 14 1 4	2,016
1 7/8	1/2	7.7	0 18 1 4	2,464	6.9	0 19 2 24	2,208	7.2	0 18 0 0	2,304
1 5/8	9/16	8.6	1 2 0 0	2,752	8.5	1 4 1 4	2,720	8.5	1 0 2 8	2,720
1 5/4	19/32	10.1	1 4 2 8	3,232	9.7	1 7 2 24	3,104	9.8	1 4 1 4	3,136
2	5/8	11.7	1 8 3 12	3,744	10.9	1 11 0 16	3,488	11.3	1 8 0 0	3,616
2 1/8	11/16	12.9	1 13 1 20	4,128	12.2	1 14 3 12	3,904	12.9	1 12 1 4	4,128
2 1/4	23/32	15.4	1 16 3 12	4,928	14.2	2 0 2 8	4,544	14.5	1 16 3 12	4,640
2 1/2	3/4	16.7	2 4 0 0	5,344	15.7	2 4 3 12	5,024	16.3	2 1 1 20	5,216
2 3/4	13/16	18.0	2 7 2 24	5,760	17.2	2 9 0 16	5,504	17.7	2 6 2 8	5,664
2 5/8	27/32	19.4	2 11 1 20	6,208	18.8	2 9 0 16	6,016	20.1	2 10 2 8	6,432
2 3/2	7/8	21.7	2 15 1 20	6,944	20.5	2 13 2 24	6,560	22.2	2 17 1 20	7,104
2 7/8	29/32	24.0	3 2 0 0	7,680	22.2	2 18 2 8	7,104	24.0	3 3 1 20	7,680
3	15/16	25.6	3 8 2 8	8,192	25.0	3 1 20	8,000	26.6	3 8 2 8	8,512
3 1/8	1	29.1	3 13 0 16	9,312	26.9	3 11 1 20	8,608	27.8	3 16 0 0	8,896
3 1/4	1 1/32	30.8	4 3 0 16	9,856	28.9	3 16 3 12	9,248	29.0	3 19 1 20	9,280
3 1/2	1 1/16	32.7	4 8 0 0	10,464	31.0	4 2 2 8	9,920	31.5	4 2 3 12	10,080
3 3/4	1 1/8	35.6	4 13 1 20	11,392	34.2	4 8 2 8	10,944	34.0	4 10 0 0	10,880
3 5/8	1 1/2	37.5	5 1 2 24	12,000	36.4	4 17 2 24	11,648	36.7	4 17 0 16	11,744
3 3/2	1 9/32	40.6	5 7 0 16	12,992	38.8	5 4 0 0	12,416	39.5	5 4 3 12	12,640
3 7/8	1 3/16	43.8	5 16 0 0	14,016	40.0	5 10 3 12	12,800	42.3	5 12 3 12	13,536
4	1 1/4	47.1	6 5 0 16	15,072	43.6	5 14 1 4	13,952	45.3	6 0 3 12	14,496
4 1/8	1 9/32	49.4	6 14 2 8	15,808	46.1	6 4 2 8	14,752	48.4	6 9 1 20	15,488
4 1/4	1 5/16	51.7	7 1 0 16	16,544	50.1	6 11 2 24	16,032	51.6	6 18 1 4	16,512
4 1/2	1 11/32	55.3	7 7 2 24	17,696	52.8	7 3 0 16	16,896	54.8	7 7 1 20	17,536
4 3/4	1 3/8	60.2	7 18 0 0	19,264	57.0	7 10 3 12	18,240	58.2	7 16 2 8	18,624
4 5/8	1 7/16	62.8	8 12 0 0	20,096	59.9	8 2 3 12	19,160	61.7	8 6 1 4	19,744
4 3/2	1 15/32	66.8	8 19 1 20	21,376	62.8	8 11 0 16	20,096	65.3	8 16 1 4	20,896
4 5/4	1 1/2	69.4	9 10 3 12	22,208	64.3	8 19 1 20	20,576	68.9	9 6 2 8	22,048
5	1 9/16	72.2	9 18 1 4	23,104	68.9	9 3 2 24	22,048	72.7	9 16 3 12	23,264
5 1/8	1 19/32	..	10 6 1 4	..	72.1	9 16 3 12	23,072	76.6	10 7 2 24	24,512
5 1/4	1 5/8	..	..	..	75.3	10 6 0 0	24,096	80.6	10 18 3 12	25,792
5 1/2	1 11/16	..	..	..	78.7	10 15 0 16	25,184	82.6	11 10 1 4	26,432
5 3/4	1 23/32	..	..	..	82.0	11 4 3 12	26,240	86.7	11 16 0 0	27,744
5 5/8	1 3/4	..	..	..	85.5	11 14 1 4	27,360	88.8	12 7 2 24	28,416
5 3/2	1 25/32	..	..	..	89.0	12 4 1 4	28,480	93.1	12 13 2 24	29,792
5 5/4	1 27/32	..	..	..	92.6	12 14 1 4	29,632	97.5	13 6 0 0	31,200
5 3/2	1 7/8	..	..	..	96.3	13 4 2 8	30,816	104.3	13 18 2 8	33,376
6	1 29/32	..	..	..	..	13 15 0 16	..	..	14 18 0 0	..