

## Aluminium Conductor Steel Reinforced (ACSR/AW2)

ACSR/RW (AW2 (ASTM B549))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Gannet	26	7	4.07	3.16	25.76	338.25	54.90	393.15	937.84	363.22	1301.06	116.00	0.0812	0.0849	0.1010	19.90	7726.09	18.41
Starling	26	7	4.21	3.28	26.68	361.92	59.15	421.07	1003.47	391.33	1394.80	122.00	0.0758	0.0799	0.0944	19.88	7734.58	18.40
Redwing	30	19	3.92	2.35	27.43	362.05	82.41	444.46	1003.83	546.32	1550.16	149.00	0.0743	0.0783	0.0924	19.11	8193.60	17.90
Stilt	24	7	4.39	2.92	26.32	363.26	46.87	410.13	1007.18	310.14	1317.32	110.00	0.0764	0.0805	0.0951	20.37	7467.26	18.71
Coot	36	1	3.77	3.77	26.39	401.85	11.16	413.01	1108.74	73.56	1182.30	74.00	0.0711	0.0749	0.0891	22.29	6576.03	19.73
Condor	54	7	3.08	3.08	27.72	402.32	52.15	454.47	1115.48	345.06	1460.54	124.00	0.0690	0.0727	0.0864	20.36	7471.98	18.70
Cuckoo	24	7	4.62	3.08	27.72	402.32	52.15	454.47	1115.48	345.06	1460.54	122.00	0.0690	0.0727	0.0864	20.36	7471.98	18.70
Drake	26	7	4.44	3.45	38.76	402.55	65.44	467.98	1116.11	432.94	1549.06	136.00	0.0682	0.0725	0.0854	19.89	7728.03	18.41
Tern	45	7	3.38	2.25	27.03	403.76	27.83	431.59	1119.47	184.14	1303.62	96.00	0.0701	0.0739	0.0878	21.41	6958.60	19.30
Mallard	30	19	4.14	2.48	28.96	403.83	91.78	495.61	1119.67	608.44	1728.11	165.00	0.0666	0.0708	0.0833	19.12	8191.25	17.90
Ruddy	45	7	3.59	2.40	28.74	455.49	31.67	487.16	1262.90	209.52	1472.42	107.00	0.0621	0.0660	0.0784	21.40	6963.87	19.29
Canary	54	7	3.28	3.28	29.52	456.27	59.15	515.41	1265.06	391.33	1656.38	138.00	0.0608	0.0653	0.0767	20.36	7471.98	18.70
Rail	45	7	3.70	2.47	29.61	483.83	33.54	517.37	1341.48	221.92	1563.40	113.00	0.0585	0.0628	0.0738	21.40	6962.10	19.29
Cardinal	54	7	3.38	3.38	30.42	484.51	62.81	547.32	1343.37	415.55	1758.92	146.00	0.0573	0.0615	0.0728	20.36	7471.98	18.70
Catbird	36	1	4.14	4.14	28.98	484.60	13.46	498.06	1337.05	88.71	1425.76	87.00	0.0589	0.0633	0.0744	22.29	6576.03	19.73
Curlew	54	7	3.51	3.51	31.59	522.50	67.73	590.23	1448.69	448.13	1896.83	158.00	0.0531	0.0577	0.0675	20.36	7471.98	18.70
Tanager	36	1	4.30	4.30	30.10	522.78	14.52	537.30	1442.39	95.70	1538.09	94.00	0.0546	0.0593	0.0695	22.29	6576.03	19.73
Ortolan	45	7	3.85	2.57	30.81	523.85	36.31	560.17	1452.45	240.25	1692.70	121.00	0.0540	0.0587	0.0688	21.40	6962.03	19.29
Finch	54	19	3.65	2.19	32.85	565.01	71.57	636.58	1570.38	474.46	2044.85	167.00	0.0493	0.0542	0.0633	20.41	7448.21	18.73
Bluejay	45	7	4.00	2.66	31.98	565.47	38.90	604.37	1567.84	257.37	1825.21	130.00	0.0501	0.0544	0.0643	21.41	6957.34	19.30
Grackle	54	19	3.77	2.27	33.97	602.77	76.89	679.66	1675.34	509.76	2185.10	179.00	0.0462	0.0508	0.0593	20.39	7455.42	18.72
Bunting	45	7	4.14	2.76	33.12	605.75	41.88	647.62	1679.51	277.08	1956.59	139.00	0.0467	0.0514	0.0601	21.40	6960.42	19.29
Bittern	45	7	4.27	2.85	34.17	644.38	44.65	689.04	1786.64	295.45	2082.09	149.00	0.0439	0.0490	0.0571	21.40	6961.87	19.29
Pheasant	54	19	3.90	2.34	35.10	645.06	81.71	726.77	1792.87	541.68	2334.56	189.00	0.0432	0.0482	0.0561	20.41	7448.21	18.73
Skylark	36	1	4.78	4.78	33.46	646.00	17.94	663.95	1782.39	118.25	1900.64	114.00	0.0442	0.0493	0.0575	22.29	6576.03	19.73
Dipper	45	7	4.40	2.93	35.19	684.22	47.20	731.42	1897.08	312.27	2209.35	158.00	0.0414	0.0462	0.0545	21.41	6959.02	19.30
Martin	54	19	4.02	2.41	36.17	685.37	86.67	772.04	1904.90	574.58	2479.48	201.00	0.0406	0.0461	0.0535	20.41	7446.52	18.73
Bobolink	45	7	4.53	3.02	36.24	725.25	50.14	775.39	2010.84	331.75	2342.59	167.00	0.0390	0.0442	0.0514	21.40	6960.42	19.29
Plover	54	19	4.14	2.48	37.24	726.89	91.78	818.67	2020.32	608.44	2628.76	212.00	0.0383	0.0434	0.0504	20.41	7444.93	18.73
Nuthatch	45	7	4.65	3.10	37.20	764.18	52.83	817.01	2118.78	349.56	2468.34	177.00	0.0370	0.0427	0.0495	21.40	6960.42	19.29
Parrot	54	19	4.25	2.55	38.25	766.04	97.03	863.07	2129.11	643.27	2772.38	224.00	0.0363	0.0419	0.0485	20.41	7448.21	18.73
Falcon	54	19	4.36	2.62	39.26	806.20	102.43	908.63	2240.75	679.07	2919.82	236.00	0.0345	0.0398	0.0461	20.40	7451.32	18.72
Lapwing	45	7	4.78	3.18	38.22	807.51	55.59	863.10	2238.91	367.83	2606.74	186.00	0.0351	0.0404	0.0468	21.41	6957.84	19.30
Chukar	84	19	3.70	2.22	40.70	903.15	73.54	976.69	2516.31	487.55	3003.86	220.00	0.0314	0.0376	0.0426	21.17	7069.01	19.17
Bluebird	84	19	4.07	2.44	44.76	1092.81	88.84	1181.65	3044.74	588.97	3633.71	262.00	0.0259	0.0325	0.0372	21.17	7067.85	19.17
Kiwi	72	7	4.41	2.94	44.10	1099.73	47.52	1147.25	3064.02	314.40	3378.42	218.00	0.0261	0.0327	0.0374	21.94	6723.02	19.56
Thrasher	76	19	4.43	2.07	45.79	1171.38	63.94	1235.32	3263.64	423.89	3687.53	246.00	0.0244	0.0313	0.0358	21.70	6828.62	19.44

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	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Leghorn	12	7	2.69	2.69	13.45	68.20	39.78	107.98	189.08	263.21	452.29	58.00	0.3545	0.3619	0.4319	16.71	10062.68	16.57
Guinea	12	7	2.92	2.92	14.60	80.36	46.87	127.23	222.80	310.14	532.94	68.00	0.3008	0.3074	0.3668	16.71	10062.68	16.57
Pigeon	6	1	4.25	4.25	12.75	85.12	14.19	99.30	233.69	93.48	327.17	28.00	0.3191	0.3259	0.3899	19.84	7759.00	18.37
Dotterel	12	7	3.08	3.08	15.40	89.40	52.15	141.56	247.89	345.06	592.95	75.00	0.2704	0.2763	0.3296	16.71	10062.68	16.57
Dorking	12	7	3.20	3.20	16.00	96.51	56.30	152.80	267.58	372.47	640.05	81.00	0.2505	0.2560	0.3057	16.71	10062.68	16.57
Brahma	16	19	2.86	2.48	18.12	102.78	91.78	194.56	286.37	607.23	893.60	121.00	0.2170	0.2220	0.2644	15.71	11117.59	16.65
Cochin	12	7	3.37	3.37	16.85	107.03	62.44	169.47	296.76	413.10	709.86	88.00	0.2258	0.2311	0.2756	16.71	10062.68	16.57
Penguin	6	1	4.77	4.77	14.31	107.22	17.87	125.09	294.37	117.76	412.13	34.00	0.2533	0.2589	0.3098	19.84	7759.00	18.37
Partridge	26	7	2.57	2.00	16.28	134.87	21.99	156.86	373.95	145.50	519.44	48.00	0.2035	0.2083	0.2492	19.89	7731.77	18.40
Waxwing	18	1	3.09	3.09	15.45	134.98	7.50	142.48	372.42	49.42	421.84	30.00	0.2096	0.2146	0.2565	21.68	6837.53	19.43
Ostrich	26	7	2.73	2.12	17.28	152.19	24.71	176.89	421.96	163.48	585.44	54.00	0.1804	0.1850	0.2209	19.90	7726.54	18.41
Merlin	18	1	3.47	3.47	17.35	170.22	9.46	179.68	469.65	62.32	531.97	38.00	0.1662	0.1705	0.2037	21.68	6837.53	19.43
Oriole	30	7	2.69	2.69	18.83	170.49	39.78	210.27	473.86	263.21	737.07	74.00	0.1578	0.1622	0.1935	19.05	8232.19	17.86
Linnet	26	7	2.89	2.25	18.31	170.55	27.83	198.38	472.87	184.14	657.01	60.00	0.1609	0.1654	0.1974	19.88	7732.84	18.40
Lark	30	7	2.92	2.92	20.44	200.89	46.87	247.77	558.36	310.14	868.50	87.00	0.1339	0.1380	0.1646	19.05	8232.19	17.86
Chickadee	18	1	3.77	3.77	18.85	200.92	11.16	212.09	554.37	73.56	627.93	44.00	0.1408	0.1447	0.1729	21.68	6837.53	19.43
Ibis	26	7	3.14	2.44	19.88	201.33	32.73	234.06	558.21	216.56	774.77	70.00	0.1364	0.1406	0.1677	19.89	7728.17	18.41
Brant	24	7	3.27	2.18	19.62	201.55	26.13	227.68	558.82	172.87	731.69	63.00	0.1377	0.1419	0.1689	20.36	7471.98	18.70
Hen	30	7	3.20	3.20	22.40	241.27	56.30	297.56	670.58	372.47	1043.05	104.00	0.1115	0.1154	0.1375	19.05	8232.19	17.86
Flicker	24	7	3.58	2.39	21.49	241.58	31.40	272.98	669.80	207.77	877.57	74.00	0.1148	0.1189	0.1417	20.36	7474.88	18.70
Hawk	26	7	3.44	2.68	21.80	241.64	39.49	281.13	669.97	261.25	931.23	84.00	0.1136	0.1176	0.1401	19.88	7734.49	18.40
Pelican	18	1	4.14	4.14	20.70	242.30	13.46	255.76	668.53	88.71	757.23	51.00	0.1168	0.1209	0.1437	21.68	6837.53	19.43
Eagle	30	7	3.46	3.46	24.22	282.07	65.82	347.88	783.97	435.46	1219.43	119.00	0.0954	0.0992	0.1181	19.05	8232.19	17.86
Parakeet	24	7	3.87	2.58	23.22	282.30	36.59	318.89	782.71	242.12	1024.83	86.00	0.0983	0.1022	0.1213	20.36	7471.98	18.70
Osprey	18	1	4.47	4.47	22.35	282.46	15.69	298.16	779.35	103.41	882.76	59.00	0.1002	0.1042	0.1236	21.68	6837.53	19.43
Dove	26	7	3.72	2.89	23.55	282.58	45.92	328.49	783.48	303.80	1087.28	97.00	0.0972	0.1011	0.1203	19.89	7727.57	18.41
Squab	26	7	3.87	3.01	24.51	305.82	49.81	355.63	847.94	329.55	1177.49	105.00	0.0898	0.0934	0.1111	19.89	7730.40	18.40
Peacock	24	7	4.03	2.69	24.19	306.12	39.78	345.91	848.77	263.21	1111.98	93.00	0.0906	0.0943	0.1123	20.36	7474.56	18.70
Teal	30	19	3.61	2.16	25.24	307.05	69.62	376.67	851.34	461.55	1312.89	127.00	0.0876	0.0917	0.1084	19.12	8187.67	17.90
Wood	30	7	3.61	3.61	25.27	307.05	71.65	378.70	853.42	474.03	1327.45	126.00	0.0876	0.0917	0.1084	19.05	8232.19	17.86
Gosbeak	26	7	3.97	3.09	25.15	321.83	52.49	374.33	892.32	347.31	1239.63	110.00	0.0853	0.0892	0.1056	19.89	7732.17	18.40
Egret	30	19	3.70	2.22	25.90	322.55	73.54	396.10	894.32	487.55	1381.87	133.00	0.0834	0.0872	0.1037	19.11	8196.22	17.89
Sooter	30	7	3.70	3.70	25.90	322.55	75.26	397.82	896.50	497.96	1394.46	130.00	0.0834	0.0873	0.1037	19.05	8232.19	17.86
Kingbird	18	1	4.78	4.78	23.90	323.00	17.94	340.95	891.20	118.25	1009.45	67.00	0.0876	0.0917	0.1086	21.68	6837.53	19.43
Swift	36	1	3.38	3.38	23.66	323.01	8.97	331.98	891.21	59.13	950.34	61.00	0.0884	0.0920	0.1096	22.29	6576.03	19.73
Rook	24	7	4.14	7.00	37.56	323.06	269.38	592.45	895.74	1782.34	2678.08	98.00	0.0699	0.0736	0.0872	15.86	10943.81	16.58
Flamingo	24	7	4.23	2.82	25.38	337.26	43.72	380.98	935.10	289.26	1224.37	103.00	0.0823	0.0861	0.1024	20.36	7471.98	18.70

## Aluminium Conductor Steel Reinforced (ACSR/AW2)

ACSR/RW (AW2 (ASTM B549))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Swanate	7	1	1.96	2.61	6.53	21.12	5.35	26.47	57.99	35.26	93.24	10.00	1.2512	1.2762	1.5262	18.85	8364.25	17.72
Swan	6	1	2.12	2.12	6.36	21.18	3.53	24.71	58.15	23.26	81.41	8.00	1.2823	1.3081	1.5649	19.84	7759.00	18.37
Swallow	6	1	2.38	2.38	7.14	26.69	4.45	31.14	73.29	29.32	102.60	10.00	1.0174	1.0380	1.2418	19.84	7759.00	18.37
Sparrow	6	1	2.67	2.67	8.01	33.59	5.60	39.19	92.23	36.90	129.13	12.00	0.8084	0.8247	0.9867	19.84	7759.00	18.37
Grouse	8	1	2.54	4.24	9.32	40.54	14.12	54.65	111.84	93.05	204.89	22.00	0.6359	0.6488	0.7755	18.04	8938.37	17.20
Robin	6	1	3.00	3.00	9.00	42.41	7.07	49.48	116.44	46.58	163.02	15.00	0.6404	0.6534	0.7817	19.84	7759.00	18.37
Petrel	12	7	2.34	2.34	11.70	51.60	30.10	81.71	143.08	199.17	342.25	44.00	0.4684	0.4780	0.5706	16.71	10062.68	16.57
Raven	6	1	3.37	3.37	10.11	53.52	8.92	62.44	146.93	58.78	205.71	19.00	0.5075	0.5180	0.6195	19.84	7759.00	18.37
Minorca	12	7	2.44	2.44	12.20	56.11	32.73	88.84	155.57	216.56	372.13	48.00	0.4308	0.4396	0.5249	16.71	10062.68	16.57
Quail	6	1	3.78	3.78	11.34	67.33	11.22	78.55	184.86	73.95	258.81	23.00	0.4033	0.4119	0.4926	19.84	7759.00	18.37

# Aluminium Conductor Steel Reinforced (ACSR/AW2)

ACSR/RW (AW2 (BS EN 50182))

Code Name	Strands No.		Diameter (mm)			Area (mm <sup>2</sup> )			Weight of Conductor (kg/km)			Rated Strength (kN)	Resistance (Ω/km)			Coefficient of Linear Expansion *10 <sup>-6</sup> (1/°C)	Modulus of Elasticity (final) (kg/mm <sup>2</sup> )	Creep Temp. EST. (°C)
	Al.	St.	Al.	St.	Total	Al.	St.	Total	Al.	St.	Total		DC at 20 °C	AC at 25 °C	AC at 75 °C			
Mole	6	1	1.50	1.50	4.50	10.60	1.77	12.37	29.06	11.65	40.70	3.98	2.5587	2.6097	3.1194	19.96	7759.00	18.26
Squirrel	6	1	2.11	2.11	6.33	20.98	3.50	24.48	57.50	23.04	80.54	7.57	1.2931	1.3189	1.5765	19.96	7759.00	18.26
Gopher	6	1	2.36	2.36	7.08	26.25	4.37	30.62	71.93	28.83	100.75	9.35	1.0337	1.0544	1.2603	19.96	7759.00	18.26
Weasel	6	1	2.59	2.59	7.77	31.61	5.27	36.88	86.63	34.72	121.35	11.11	0.8582	0.8754	1.0464	19.96	7759.00	18.26
Fox	6	1	2.79	2.79	8.37	36.68	6.11	42.79	100.53	40.29	140.81	12.89	0.7396	0.7546	0.9018	19.96	7759.00	18.26
Ferret	6	1	3.00	3.00	9.00	42.41	7.07	49.48	116.23	46.58	162.81	14.91	0.6397	0.6526	0.7801	19.96	7759.00	18.26
Rabbit	6	1	3.35	3.35	10.10	52.88	8.81	61.70	144.93	58.08	203.01	18.17	0.5130	0.5236	0.6256	19.96	7759.00	18.26
Mink	6	1	3.66	3.66	11.00	63.12	10.52	73.64	172.99	69.33	242.32	20.59	0.4298	0.4386	0.5243	19.96	7759.00	18.26
Skunk	12	7	2.59	2.59	13.00	63.22	36.88	100.10	174.59	244.29	418.89	52.25	0.3814	0.3893	0.4633	16.95	10062.68	16.33
Horse	12	7	2.79	2.79	14.00	73.36	42.79	116.16	202.60	283.48	486.08	60.63	0.3287	0.3355	0.3995	16.95	10062.68	16.33
Beaver	6	1	3.99	3.99	12.00	75.02	12.50	87.52	205.60	82.40	287.99	24.47	0.3616	0.3693	0.4412	19.96	7759.00	18.26
Raccoon	6	1	4.09	4.09	12.30	78.83	13.14	91.96	216.03	86.58	302.61	25.71	0.3442	0.3515	0.4199	19.96	7759.00	18.26
Otter	6	1	4.22	4.22	12.70	83.92	13.99	97.90	229.98	92.17	322.15	28.43	0.3233	0.3301	0.3946	19.96	7759.00	18.26
Cat	6	1	4.50	4.50	13.50	95.42	15.90	111.33	261.51	104.81	366.32	30.07	0.2843	0.2906	0.3470	19.96	7759.00	18.26
Hare	6	1	4.72	4.72	14.20	104.98	17.50	122.48	287.71	115.30	403.01	32.58	0.2584	0.2641	0.3157	19.96	7759.00	18.26
Dog	6	7	4.72	1.57	14.20	104.98	122.48	227.46	288.05	811.33	1099.38	155.58	0.1962	0.2010	0.2379	15.46	11799.31	16.78
Hyena	7	7	4.39	1.93	14.57	105.95	20.48	126.43	289.54	135.66	425.20	39.45	0.2533	0.2589	0.3097	19.63	7954.00	17.23
Tiger	30	7	2.36	2.36	16.50	131.23	30.62	161.85	362.72	202.83	565.55	56.72	0.2041	0.2089	0.2495	19.20	8232.19	17.72
Cougar	18	1	3.05	3.05	15.30	131.51	7.31	138.81	361.93	48.15	410.08	28.94	0.2148	0.2198	0.2628	21.73	6837.53	19.39
Coyote	26	7	2.54	1.91	15.90	131.74	35.47	167.21	363.86	234.95	598.81	61.71	0.2009	0.2056	0.2455	18.86	8466.39	17.47
Wolf	30	7	2.59	2.59	18.10	158.05	36.88	194.93	436.87	244.29	681.16	67.57	0.1695	0.1737	0.2071	19.20	8232.19	17.72
Dingo	18	1	3.35	3.35	16.80	158.65	8.81	167.46	436.63	58.08	494.72	34.75	0.1780	0.1826	0.2181	21.73	6837.53	19.39
Lynx	30	7	2.79	2.79	19.50	183.40	42.79	226.20	506.94	283.48	790.42	78.40	0.1460	0.1501	0.1788	19.20	8232.19	17.72
Caracal	18	1	3.61	3.61	18.10	184.23	10.24	194.47	507.04	67.45	574.49	39.09	0.1533	0.1576	0.1881	21.73	6837.53	19.39
Jaguar	18	1	3.86	3.86	19.30	210.63	11.70	222.33	579.70	77.11	656.81	44.24	0.1341	0.1383	0.1649	21.73	6837.53	19.39
Panther	30	7	3.00	3.00	9.00	212.05	49.48	261.53	586.13	327.76	913.89	90.65	0.1263	0.1302	0.1550	19.20	8232.19	17.72
Lion	30	7	3.18	3.18	22.30	238.26	55.59	293.85	658.57	368.27	1026.84	100.72	0.1124	0.1163	0.1384	19.20	8232.19	17.72
Bear	30	7	3.35	3.35	23.50	264.42	61.70	326.11	730.87	408.70	1139.57	110.61	0.1013	0.1048	0.1247	19.20	8232.19	17.72
Goat	30	7	3.71	3.71	26.00	324.30	75.67	399.97	896.39	501.26	1397.65	128.37	0.0826	0.0864	0.1026	19.20	8232.19	17.72
Antelope	54	7	2.97	2.97	26.70	374.10	48.49	422.59	1034.54	321.24	1355.78	115.70	0.0740	0.0780	0.0921	20.46	7471.98	18.61
Sheep	30	7	3.99	3.99	27.90	375.10	87.52	462.62	1036.80	579.77	1616.58	148.48	0.0714	0.0752	0.0892	19.20	8232.19	17.72
Bison	54	7	3.00	3.00	27.00	381.69	49.48	431.17	1055.55	327.76	1383.31	118.05	0.0726	0.0765	0.0908	20.46	7471.98	18.61
Zebra	54	7	3.18	3.18	28.60	428.87	55.59	484.46	1186.01	368.27	1554.28	130.60	0.0646	0.0686	0.0814	20.46	7471.98	18.61
Deer	30	7	4.27	4.27	29.90	429.59	100.24	529.83	1187.42	664.00	1851.43	177.66	0.0623	0.0663	0.0785	19.20	8232.19	17.72
Camel	54	7	3.35	3.35	30.20	475.95	61.70	537.65	1316.21	408.70	1724.91	143.77	0.0582	0.0625	0.0733	20.46	7471.98	18.61
Elk	30	7	4.50	4.50	31.50	477.12	111.33	588.44	1318.79	737.46	2056.25	181.45	0.0561	0.0603	0.0713	19.20	8232.19	17.72
Moose	54	7	3.53	3.53	31.80	528.47	68.51	596.98	1461.45	453.80	1915.25	154.52	0.0524	0.0569	0.0666	20.46	7471.98	18.61