



## ALL ALUMINUM CONDUCTOR ALLOY REINFORCED (ACAR) ASTM SIZES

kcmil	Area mm <sup>2</sup>	Wire Size mm	No.of wires			Overall Dia. mm	Weight kg/km			Rated Strength kN	DC Resistance at 20°C Ω/km
			1350	6201	Total		1350	6201	Total		
30.58	15.5	1.679	4	3	7	5.04	24.4	18.2	42.6	3.66	1.9741
41.74	21.1	1.961	4	3	7	5.88	33.3	24.9	58.2	4.99	1.4475
48.69	24.7	2.118	4	3	7	6.35	38.9	29	67.9	5.75	1.2409
66.36	33.6	2.474	4	3	7	7.42	53.1	39.6	92.7	7.76	0.9094
77.47	39.2	2.672	4	3	7	8.02	61.9	46.2	108.1	8.94	0.7796
105.6	53.5	3.119	4	3	7	9.36	84.3	62.9	147.2	11.89	0.5722
123.3	62.5	3.371	4	3	7	10.11	98.5	73.5	172	13.52	0.4898
133.1	67.5	3.503	4	3	7	10.51	106.4	79.3	185.7	14.6	0.4536
155.4	78.8	3.785	4	3	7	11.36	124.2	92.6	216.8	16.83	0.3885
167.8	85	3.932	4	3	7	11.8	134	100	234	18.16	0.36
195.7	99.2	4.247	4	3	7	12.74	156.3	116.6	272.9	21.18	0.3086
211.6	107.3	4.417	4	3	7	13.25	169.1	126.1	295.2	22.91	0.2853
246.9	125.1	4.77	4	3	7	14.31	197.2	147.1	344.3	26.72	0.2446
250	126.6	2.913	12	7	19	14.56	220.6	128	348.6	27.47	0.2395
250	126.6	2.913	15	4	19	14.56	275.8	73.1	348.9	24.29	0.2339
300	152.1	3.193	12	7	19	15.96	265.1	153.8	418.9	32.55	0.1993
300	152.1	3.193	15	4	19	15.96	331.4	87.9	419.3	28.63	0.1947
350	177.3	3.447	12	7	19	17.24	309	179.2	488.2	37.04	0.171
350	177.3	3.447	15	4	19	17.24	386.2	102.4	488.6	32.86	0.1671
400	202.6	3.685	12	7	19	18.42	353.1	204.9	558	42.33	0.1496
400	202.6	3.685	15	4	19	18.42	441.4	117.1	558.5	37.55	0.1462
450	228	3.909	12	7	19	19.54	397.3	230.5	627.8	46.95	0.133
450	228	3.909	15	4	19	19.54	496.7	131.7	628.4	41.41	0.1299
500	253.1	2.951	18	19	37	20.66	339.7	356.6	696.3	58.57	0.1225
500	253.1	2.951	24	13	37	20.66	452.9	244	696.9	52.64	0.1195
500	253.1	2.951	30	7	37	20.66	566.1	131.4	697.5	47.8	0.1167
500	253.1	2.951	33	4	37	20.66	622.8	75.1	697.9	44.18	0.1153
500	253.3	4.12	12	7	19	20.6	441.4	256.1	697.5	52.15	0.1197
500	253.3	4.12	15	4	19	20.6	551.7	146.3	698	46.01	0.1169
503.6	255.2	4.135	12	7	19	20.67	444.6	257.9	702.5	52.53	0.1188
503.6	255.2	4.135	15	4	19	20.67	555.8	147.4	703.2	46.34	0.1161
550	278.5	3.096	18	19	37	21.67	373.9	392.5	766.4	63.82	0.1113
550	278.6	3.096	24	13	37	21.67	498.5	268.5	767	57.1	0.1086
550	278.6	3.096	30	7	37	21.67	623.1	144.6	767.7	51.57	0.106
550	278.5	3.096	33	4	37	21.67	685.4	82.6	768	47.49	0.1048
550	278.6	4.321	12	7	19	21.6	485.5	281.7	767.2	57.36	0.1088
550	278.6	4.321	15	4	19	21.6	606.9	161	767.9	50.6	0.1063
587.2	297.5	4.465	12	7	19	22.32	518.4	300.7	819.1	61.25	0.1019
587.2	297.5	4.465	15	4	19	22.32	648	171.8	819.8	54.03	0.0996



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			1350	6201	Total		1350	6201	Total		
600	303.7	3.233	18	19	37	22.63	407.7	428	835.7	69.59	0.1021
600	303.7	3.233	24	13	37	22.63	543.6	292.8	836.4	62.26	0.0996
600	303.7	3.233	30	7	37	22.63	679.5	157.7	837.2	56.23	0.0972
600	303.7	3.233	33	4	37	22.63	747.4	90.1	837.5	51.79	0.0961
600	303.9	4.513	12	7	19	22.56	529.6	307.2	836.8	62.57	0.0998
600	303.9	4.513	15	4	19	22.56	662	175.6	837.6	55.2	0.0975
649.5	329	3.365	18	19	37	23.56	441.7	463.6	905.3	73.15	0.0942
649.5	329	3.365	24	13	37	23.56	588.9	317.2	906.1	65.92	0.0919
649.5	329	3.365	30	7	37	23.56	736.1	170.8	906.9	60.06	0.0897
649.5	329	3.365	33	4	37	23.56	809.7	97.6	907.3	55.62	0.0887
650	329.2	3.366	18	19	37	23.56	441.9	463.9	905.8	73.19	0.0942
650	329.2	3.366	24	13	37	23.56	589.2	317.4	906.6	65.96	0.0919
650	329.2	3.366	30	7	37	23.56	736.6	170.9	907.5	60.1	0.0897
650	329.2	3.366	33	4	37	23.56	810.2	97.7	907.9	55.65	0.0886
653.1	330.9	4.709	12	7	19	23.54	576.6	334.5	911.1	68.13	0.0916
653.1	330.9	4.709	15	4	19	23.54	720.8	191.1	911.9	60.1	0.0895
700	354.6	3.493	18	19	37	24.45	475.9	499.6	975.5	78.82	0.0874
700	354.5	3.493	24	13	37	24.45	634.5	341.8	976.3	71.03	0.0853
700	354.6	3.493	30	7	37	24.45	793.2	184.1	977.3	64.72	0.0833
700	354.6	3.493	33	4	37	24.45	872.5	105.2	977.7	59.93	0.0823
739.8	374.9	3.592	18	19	37	25.14	503.3	528.3	1031.6	83.35	0.0827
739.8	375	3.592	24	13	37	25.14	671	361.5	1032.5	75.12	0.0807
739.8	375	3.592	30	7	37	25.14	838.8	194.6	1033.4	68.44	0.0788
739.8	374.9	3.592	33	4	37	25.14	922.7	111.2	1033.9	63.38	0.0778
750	380.2	3.617	18	19	37	25.32	510.3	535.7	1046	84.52	0.0815
750	380.2	3.617	24	13	37	25.32	680.4	366.5	1046.9	76.16	0.0796
750	380.2	3.617	30	7	37	25.32	850.5	197.4	1047.9	69.4	0.0777
750	380.2	3.617	33	4	37	25.32	935.6	112.8	1048.4	64.26	0.0768
800	405.2	3.734	18	19	37	26.14	543.8	570.9	1114.7	90.07	0.0765
800	405.2	3.734	24	13	37	26.14	725.1	390.6	1115.7	81.17	0.0747
800	405.2	3.734	30	7	37	26.14	906.4	210.3	1116.7	73.96	0.0729
800	405.2	3.734	33	4	37	26.14	997.1	120.2	1117.3	68.49	0.072
850	431	3.851	18	19	37	26.96	578.5	607.2	1185.7	94.8	0.0719
850	431	3.851	24	13	37	26.96	771.3	415.5	1186.8	85.04	0.0702
850	431	3.851	30	7	37	26.96	964.1	223.7	1187.8	77.04	0.0685
850	431	3.851	33	4	37	26.96	1060.5	127.8	1188.3	71.1	0.0677
853.7	432.5	3.858	18	19	37	27.01	580.6	609.4	1190	95.14	0.0717
853.7	432.5	3.858	24	13	37	27.01	774.1	417	1191.1	85.35	0.0699
853.7	432.5	3.858	30	7	37	27.01	967.6	224.5	1192.1	77.32	0.0683



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			1350	6201	Total		1350	6201	Total		
853.7	432.5	3.858	33	4	37	27.01	1064.4	128.3	1192.7	71.36	0.0675
900	456.2	3.962	18	19	37	27.73	612.3	642.7	1255	100.34	0.068
900	456.2	3.962	24	13	37	27.73	816.4	439.7	1256.1	90.01	0.0663
900	456.2	3.962	30	7	37	27.73	1020.5	236.8	1257.3	81.55	0.0647
900	456.2	3.962	33	4	37	27.73	1122.5	135.3	1257.8	75.25	0.064
927.2	469.8	4.021	18	19	37	28.15	630.7	662	1292.7	103.35	0.066
927.2	469.8	4.021	24	13	37	28.15	840.9	452.9	1293.8	92.71	0.0644
927.2	469.8	4.021	30	7	37	28.15	1051.1	243.9	1295	83.99	0.0628
927.2	469.8	4.021	33	4	37	28.15	1156.2	139.4	1295.6	77.51	0.0621
950	481.1	4.069	18	19	37	28.48	645.8	677.9	1323.7	105.84	0.0644
950	481.1	4.069	24	13	37	28.48	861.1	463.8	1324.9	94.94	0.0629
950	481.1	4.069	30	7	37	28.48	1076.4	249.8	1326.2	86.01	0.0614
950	481.1	4.069	33	4	37	28.48	1184	142.7	1326.7	79.37	0.0607
1000	506.4	3.251	33	28	61	29.26	755.8	637.7	1393.5	106.6	0.0607
1000	506.4	3.251	42	19	61	29.26	961.9	432.8	1394.7	99.01	0.0594
1000	506.4	3.251	48	13	61	29.26	1099.3	296.1	1395.4	91.67	0.0585
1000	506.4	3.251	54	7	61	29.26	1236.8	159.4	1396.2	86.04	0.0577
1000	506.8	4.176	18	19	37	29.23	680.2	714	1394.2	111.47	0.0612
1000	506.8	4.176	24	13	37	29.23	907	488.6	1395.6	100	0.0597
1000	506.8	4.176	30	7	37	29.23	1133.7	263.1	1396.8	90.6	0.0583
1000	506.8	4.176	33	4	37	29.23	1247.1	150.3	1397.4	83.61	0.0576
1024.5	519.2	4.227	18	19	37	29.59	696.9	731.6	1428.5	114.22	0.0597
1024.5	519.2	4.227	24	13	37	29.59	929.2	500.6	1429.8	102.45	0.0583
1024.5	519.2	4.227	30	7	37	29.59	1161.6	269.5	1431.1	92.82	0.0569
1024.5	519.2	4.227	33	4	37	29.59	1277.7	154	1431.7	85.66	0.0562
1080.6	547.6	4.341	18	19	37	30.39	735	771.6	1506.6	120.46	0.0566
1080.6	547.6	4.341	24	13	37	30.39	980.1	527.9	1508	108.05	0.0552
1080.6	547.6	4.341	30	7	37	30.39	1225.1	284.3	1509.4	97.9	0.0539
1080.6	547.6	4.341	33	4	37	30.39	1347.6	162.4	1510	90.34	0.0533
1100	557.4	3.411	33	28	61	30.7	832	702.1	1534.1	117.35	0.0551
1100	557.4	3.411	42	19	61	30.7	1058.9	476.4	1535.3	109	0.0539
1100	557.4	3.411	48	13	61	30.7	1210.2	325.9	1536.1	100.92	0.0532
1100	557.4	3.411	54	7	61	30.7	1361.5	175.5	1537	94.71	0.0524
1100	557.2	4.379	18	19	37	30.65	748	785.1	1533.1	122.58	0.0556
1100	557.2	4.379	24	13	37	30.65	997.3	537.2	1534.5	109.95	0.0543
1100	557.2	4.379	30	7	37	30.65	1246.6	289.3	1535.9	99.62	0.053
1100	557.2	4.379	33	4	37	30.65	1371.3	165.3	1536.6	91.93	0.0524
1109	561.8	4.397	18	19	37	30.78	754.1	791.6	1545.7	123.59	0.0552
1109	561.8	4.397	24	13	37	30.78	1005.5	541.6	1547.1	110.86	0.0538



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			1350	6201	Total		1350	6201	Total		
1109	561.8	4.397	30	7	37	30.78	1256.9	291.6	1548.5	100.44	0.0526
1109	561.8	4.397	33	4	37	30.78	1382.6	166.7	1549.3	92.69	0.0519
1172	594	4.521	18	19	37	31.65	797.3	836.9	1634.2	130.66	0.0522
1172	594	4.521	24	13	37	31.65	1063	572.6	1635.6	117.2	0.0509
1172	594	4.521	30	7	37	31.65	1328.8	308.3	1637.1	106.18	0.0497
1172	594	4.521	33	4	37	31.65	1461.6	176.2	1637.8	97.99	0.0491
1198	606.9	4.57	18	19	37	31.99	814.6	855.1	1669.7	133.5	0.0511
1198	606.9	4.57	24	13	37	31.99	1086.2	585.1	1671.3	119.75	0.0498
1198	606.9	4.57	30	7	37	31.99	1357.7	315	1672.7	108.5	0.0487
1198	606.9	4.57	33	4	37	31.99	1493.5	180	1673.5	100.12	0.0481
1200	615.4	3.584	33	28	61	32.26	918.6	775.1	1693.7	129.56	0.05
1200	615.4	3.584	42	19	61	32.26	1169.1	525.9	1695	120.34	0.0489
1200	615.4	3.584	48	13	61	32.26	1336.1	359.8	1695.9	111.41	0.0482
1200	615.4	3.584	54	7	61	32.26	1503.1	193.8	1696.9	104.57	0.0475
1200	608.2	4.575	18	19	37	32.02	816.4	857	1673.4	133.8	0.051
1200	608.2	4.575	24	13	37	32.02	1088.5	586.4	1674.9	120.02	0.0497
1200	608.2	4.575	30	7	37	32.02	1360.7	315.7	1676.4	108.73	0.0485
1200	608.2	4.575	33	4	37	32.02	1496.8	180.4	1677.2	100.34	0.048
1250	633	3.635	33	28	61	32.71	944.9	797.3	1742.2	133.27	0.0486
1250	633	3.635	42	19	61	32.71	1202.6	541	1743.6	123.79	0.0475
1250	633	3.635	48	13	61	32.71	1374.4	370.2	1744.6	114.61	0.0468
1250	633	3.635	54	7	61	32.71	1546.2	199.3	1745.5	107.56	0.0461
1250	633.5	4.669	18	19	37	32.68	850.3	892.6	1742.9	139.35	0.0489
1250	633.5	4.669	24	13	37	32.68	1133.7	610.7	1744.4	125	0.0477
1250	633.5	4.669	30	7	37	32.68	1417.2	328.8	1746	113.25	0.0466
1250	633.5	4.669	33	4	37	32.68	1558.9	187.9	1746.8	104.51	0.0461
1277	647	3.675	33	28	61	33.07	965.8	814.9	1780.7	136.22	0.0475
1277	647	3.675	42	19	61	33.07	1229.2	553	1782.2	126.52	0.0465
1277	647	3.675	48	13	61	33.07	1404.8	378.3	1783.1	117.14	0.0458
1277	647	3.675	54	7	61	33.07	1580.4	203.7	1784.1	109.94	0.0451
1300	658.7	3.708	33	28	61	33.37	983.2	829.6	1812.8	138.68	0.0467
1300	658.7	3.708	42	19	61	33.37	1251.4	562.9	1814.3	128.8	0.0456
1300	658.7	3.708	48	13	61	33.37	1430.2	385.2	1815.4	119.26	0.045
1300	658.7	3.708	54	7	61	33.37	1608.9	207.4	1816.3	111.93	0.0443
1300	658.4	4.76	18	19	37	33.32	883.8	927.7	1811.5	144.83	0.0471
1300	658.4	4.76	24	13	37	33.32	1178.4	634.8	1813.2	129.92	0.0459
1300	658.4	4.76	30	7	37	33.32	1473	341.8	1814.8	117.71	0.0448
1300	658.4	4.76	33	4	37	33.32	1620.3	195.3	1815.6	108.62	0.0443
1361.5	690	3.795	33	28	61	34.16	1029.9	869	1898.9	143.53	0.0446



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			1350	6201	Total		1350	6201	Total		
1361.5	690	3.795	42	19	61	34.16	1310.8	589.7	1900.5	132.71	0.0436
1361.5	690	3.795	48	13	61	34.16	1498	403.5	1901.5	122.45	0.0429
1361.5	690	3.795	54	7	61	34.16	1685.3	217.3	1902.6	114.46	0.0423
1400	709.4	3.848	33	28	61	34.63	1058.9	893.5	1952.4	147.56	0.0433
1400	709.4	3.848	42	19	61	34.63	1347.7	606.3	1954	136.44	0.0424
1400	709.4	3.848	48	13	61	34.63	1540.2	414.8	1955	125.89	0.0418
1400	709.4	3.848	54	7	61	34.63	1732.7	223.4	1956.1	117.68	0.0412
1500	760	3.983	33	28	61	35.85	1134.5	957.2	2091.7	158.1	0.0404
1500	760	3.983	42	19	61	35.85	1443.9	649.6	2093.5	146.19	0.0396
1500	760.1	3.983	48	13	61	35.85	1650.1	444.4	2094.5	134.88	0.039
1500	760.1	3.983	54	7	61	35.85	1856.4	239.3	2095.7	126.08	0.0384
1534.4	777.3	4.028	33	28	61	36.25	1160.3	979	2139.3	161.69	0.0395
1534.4	777.3	4.028	42	19	61	36.25	1476.7	664.3	2141	149.51	0.0387
1534.4	777.3	4.028	48	13	61	36.25	1687.6	454.5	2142.1	137.94	0.0381
1534.4	777.3	4.028	54	7	61	36.25	1898.6	244.7	2143.3	128.95	0.0376
1600	811.3	4.115	33	28	61	37.04	1210.9	1021.7	2232.6	168.75	0.0379
1600	811.3	4.115	42	19	61	37.04	1541.2	693.3	2234.5	156.04	0.0371
1600	811.3	4.115	48	13	61	37.04	1761.3	474.4	2235.7	143.97	0.0365
1600	811.3	4.115	54	7	61	37.04	1981.5	255.4	2236.9	134.58	0.036
1700	860.9	4.239	33	28	61	38.15	1285	1084.2	2369.2	179.08	0.0357
1700	860.9	4.239	42	19	61	38.15	1635.4	735.7	2371.1	165.58	0.0349
1700	860.9	4.239	48	13	61	38.15	1869.1	503.4	2372.5	152.77	0.0344
1700	860.9	4.239	54	7	61	38.15	2102.7	271.1	2373.8	142.81	0.0339
1703	862.9	4.244	33	28	61	38.2	1288	1086.8	2374.8	179.5	0.0356
1703	862.9	4.244	42	19	61	38.2	1639.3	737.5	2376.8	165.97	0.0348
1703	862.9	4.244	48	13	61	38.2	1873.5	504.6	2378.1	153.13	0.0343
1703	862.9	4.244	54	7	61	38.2	2107.7	271.7	2379.4	143.15	0.0339
1750	887.1	4.303	33	28	61	38.73	1324.1	1117.2	2441.3	184.52	0.0347
1750	887.1	4.303	42	19	61	38.73	1685.2	758.1	2443.3	170.62	0.0339
1750	887.1	4.303	48	13	61	38.73	1925.9	518.7	2444.6	157.42	0.0334
1750	887.1	4.303	54	7	61	38.73	2166.7	279.3	2446	147.15	0.0329
1798	911.2	4.361	33	28	61	39.25	1360	1147.5	2507.5	189.53	0.0337
1798	911.2	4.361	42	19	61	39.25	1730.9	778.7	2509.6	175.25	0.033
1798	911.2	4.361	48	13	61	39.25	1978.2	532.8	2511	161.69	0.0325
1798	911.2	4.361	54	7	61	39.25	2225.5	286.9	2512.4	151.15	0.0321
1800	920.8	4.384	33	28	61	39.46	1374.4	1159.7	2534.1	191.54	0.0334
1800	920.8	4.384	42	19	61	39.46	1749.2	786.9	2536.1	177.1	0.0327
1800	920.8	4.384	48	13	61	39.46	1999.1	538.4	2537.5	163.4	0.0322
1800	920.8	4.384	54	7	61	39.46	2249	289.9	2538.9	152.75	0.0317



## ALL ALUMINUM CONDUCTOR ALLOY REINFORCED (ACAR) ASTM SIZES

kcmil	Area mm <sup>2</sup>	Wire Size mm	No.of wires			Overall Dia. mm	Weight kg/km			Rated Strength kN	DC Resistance at 20°C Ω/km
			1350	6201	Total		1350	6201	Total		
1900	962.8	4.483	33	28	61	40.35	1437.2	1212.6	2649.8	200.28	0.0319
1900	962.8	4.483	42	19	61	40.35	1829.1	822.9	2652	185.19	0.0312
1900	962.8	4.483	48	13	61	40.35	2090.4	563	2653.4	170.87	0.0308
1900	962.8	4.483	54	7	61	40.35	2351.7	303.2	2654.9	159.72	0.0303
1933	979.7	4.522	33	28	61	40.7	1462.3	1233.9	2696.2	203.79	0.0314
1933	979.7	4.522	42	19	61	40.7	1861.1	837.2	2698.3	188.43	0.0307
1933	979.7	4.522	48	13	61	40.7	2127	572.9	2699.9	173.85	0.0302
1933	979.7	4.522	54	7	61	40.7	2392.8	308.5	2701.3	162.51	0.0298
2000	1012.6	3.764	54	37	91	41.4	1657.9	1129.6	2787.5	204.32	0.0301
2000	1012.6	3.764	63	28	91	41.4	1934.2	854.9	2789.1	190.1	0.0297
2000	1012.6	3.764	72	19	91	41.4	2210.5	580.1	2790.6	179.13	0.0292
2000	1013.8	4.6	33	28	61	41.4	1528	1289.3	2817.3	210.87	0.0306
2000	1013.8	4.6	42	19	61	41.4	1944.7	874.9	2819.6	194.98	0.0299
2000	1013.8	4.6	48	13	61	41.4	2222.5	598.6	2821.1	179.9	0.0295
2000	1013.8	4.6	54	7	61	41.4	2500.4	322.3	2822.7	168.17	0.0291
2250	1139.5	3.993	54	37	91	43.92	1884	1283.7	3167.7	229.94	0.027
2250	1139.5	3.993	63	28	91	43.92	2198	971.5	3169.5	213.94	0.0266
2250	1139.5	3.993	72	19	91	43.92	2512	659.2	3171.2	201.59	0.0262
2338	1184.8	4.973	33	28	61	44.76	1785.8	1506.9	3292.7	246.46	0.0262
2338	1184.8	4.973	42	19	61	44.76	2272.9	1022.5	3295.4	227.89	0.0256
2338	1184.8	4.973	48	13	61	44.76	2597.6	699.6	3297.2	210.26	0.0253
2338	1184.8	4.973	54	7	61	44.76	2922.3	376.7	3299	196.55	0.0249
2493	1263.2	4.204	54	37	91	46.24	2088.4	1423	3511.4	254.88	0.0244
2493	1263.2	4.204	63	28	91	46.24	2436.5	1076.9	3513.4	237.14	0.024
2493	1263.2	4.204	72	19	91	46.24	2784.5	730.7	3515.2	223.46	0.0237
2500	1266.2	4.209	54	37	91	46.3	2093.4	1426.4	3519.8	255.49	0.0243
2500	1266.2	4.209	63	28	91	46.3	2442.3	1079.4	3521.7	237.71	0.024
2500	1266.2	4.209	72	19	91	46.3	2791.2	732.5	3523.7	223.99	0.0236
2750	1393.1	4.415	54	37	91	48.56	2303.3	1569.4	3872.7	281.11	0.0221
2750	1393.1	4.415	63	28	91	48.56	2687.2	1187.7	3874.9	261.55	0.0218
2750	1393.1	4.415	72	19	91	48.56	3071.1	805.9	3877	246.45	0.0215
3000	1520.9	4.613	54	37	91	50.74	2538.9	1730	4268.9	306.89	0.0204
3000	1520.9	4.613	63	28	91	50.74	2962.1	1309.2	4271.3	285.53	0.0201
3000	1520.9	4.613	72	19	91	50.74	3385.2	888.4	4273.6	269.06	0.0199