

## Galaxy Data

name	constell.	quad	vel km/s	z	type	width ly	stars	Dist.	Satellite
Milky Way	many	many	0	0.0000	SBbc	106K	200M	0	
M31	Andromeda	NQ1	-301	-0.0010	SA	220K	1T	2.54Mly	
M32	Andromeda	NQ1	-200	-0.0007	cE2 Sat.	5K		2.49Mly	M31
M110	Andromeda	NQ1	-241	-0.0008	dE	15K		2.69M	M31
NGC 404	Andromeda	NQ1	-48	-0.0002	SA0	no		10M	
NGC 891	Andromeda	NQ1	528	0.0018	SAb	no		27.3M	
NGC 680	Aries	NQ1	2928	0.0098	E pec	no		123M	
NGC 772	Aries	NQ1	2472	0.0082	SAb	no		130M	
Segue 2	Aries	NQ1	-40	-0.0001	dSph/GC?.	100	5E5	114Kly	MW
NGC 185	Cassiopeia	NQ1	-185	-0.0006	dSph/E3	no		2.05Mly	M31
Dwingelloo 1	Cassiopeia	NQ1	110	0.0004	SBcd	25K		10Mly	MG
Dwingelloo 2	Cassiopeia	NQ1	94	0.0003	Iam	no		10Mly	MG
Maffei 1	Cassiopeia	NQ1	66	0.0002	S0pec E3	75K		9.8Mly	MG
Maffei 2	Cassiopeia	NQ1	-17	-0.0001	SABbc	25K		9.8Mly	MG
IC 1613	Cetus	NQ1	-234	-0.0008	Irr	10K		2.38M	LG
M77	Cetus	NQ1	1177	0.0039	SABd	95K		40M	
NGC 247	Cetus	NQ1	0	0.0000	SABd	50K		11.1M	
NGC 908	Cetus	NQ1	1509	0.0050	Sc	105K		60M	
NGC 936	Cetus	NQ1	1430	0.0048	S0	90K		75M	
NGC 1023	Perseus	NQ1	637	0.0021	S0	90K		36M	
NGC 1058	Perseus	NQ1	529	0.0018	SAC	no		27.4M	
NGC 1263	Perseus	NQ1	5753	0.0192	SB0	no		250M	
NGC 1275	Perseus	NQ1	5264	0.0175	cD	no		222M	
M74	Pisces	NQ1	857	0.0029	SAC	75K		30M	
NGC 488	Pisces	NQ1	2272	0.0076	Sb	145K		95M	
M33	Triangulum	NQ1	-179	-0.0006	SA	60K	40B	2.73Mly	
NGC 672	Triangulum	NQ1	429	0.0014	SBcd	no		16M	
NGC 784	Triangulum	NQ1	0	0.0000	SBdm	no		26.6M	
NGC 925	Triangulum	NQ1	553	0.0018	SBdm	no		30.3M	
IC 342	Camelopardalis	NQ2	31	0.0001	SABcd	50K		10.7Mly	MG
NGC 1560	Camelopardalis	NQ2	-36	-0.0001	Sacd	35K		10Mly	MG
NGC 1569	Camelopardalis	NQ2	-104	-0.0003	Ibm	5K		11Mly	MG
NGC 2366	Camelopardalis	NQ2	80	0.0003	Ibm	30K		10M	
NGC 2403	Camelopardalis	NQ2	131	0.0004	Ibm	no		8M	
NGC 2655	Camelopardalis	NQ2	1400	0.0047	SABa	no		63M	

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NGC 2775	Cancer	NQ2	1354	0.0045	Sab	70K		55M	
Leo I DG	Leo	NQ2	285	0.0010	Irr	5K		0.82M	MW
M65	Leo	NQ2	723	0.0024	SABa	70K		25M	
M66	Leo	NQ2	696	0.0023	SABb	90K		31M	
M95	Leo	NQ2	778	0.0026	SBb	70K		33M	
M96	Leo	NQ2	897	0.0030	SAB	75K		31M	
M105	Leo	NQ2	908	0.0030	E1	55K		36.6M	
NGC 2903	Leo	NQ2	556	0.0019	Sbc	110K		30M	
NGC 3227	Leo	NQ2	1157	0.0039	Sa	100K		65M	
NGC 3384	Leo	NQ2	704	0.0023	E	60K		37M	
NGC 3486	Leo	NQ2	681	0.0023	SABc	50K		25M	
NGC 3899	Leo	NQ2	1778	0.0059	SBb	no		82M	
NGC 3489	Leo	NQ2	843	0.0028	S0	40K		39M	
NGC 3521	Leo	NQ2	801	0.0027	SABc	80K		25M	
NGC 3697	Leo	NQ2	6261	0.0209	SABb	no		292M	
NGC 3944	Leo Minor	NQ2	3619	0.0121	E-S0	40K		292M	
NGC 2683	Lynx	NQ2	411	0.0014	Sb	80K		30M	
IC 2574	Ursa Major	NQ2	480	0.0016	SABm	45K		12M	
M81	Ursa Major	NQ2	-34	-0.0001	SAab	90K		12M	
M82	Ursa Major	NQ2	203	0.0007	Irr0	37K		12M	
M101	Ursa Major	NQ2	241	0.0008	SAB	170K		20.9M	
M108	Ursa Major	NQ2	699	0.0023	SBcd	115K		46M	
M109	Ursa Major	NQ2	1121	0.0037	SBbc	120K		23.5M	
NGC 2681	Ursa Major	NQ2	692	0.0023	SABa	60K		56M	
NGC 2768	Ursa Major	NQ2	1353	0.0045	S0	175K		73M	
NGC 2787	Ursa Major	NQ2	696	0.0023	SB0	no		24M	
NGC 2841	Ursa Major	NQ2	638	0.0021	SAb	95K		40M	
NGC 2976	Ursa Major	NQ2	3	0.0000	SAC pec	25K		15M	
NGC 2985	Ursa Major	NQ2	1322	0.0044	SAab	100K		75M	
NGC 3077	Ursa Major	NQ2	14	0.0000	Irr	5K		0.82M	
NGC 3184	Ursa Major	NQ2	592	0.0020	SAb	180K		47M	
NGC 3198	Ursa Major	NQ2	681	0.0023	SBc	115K		47M	
NGC 3310	Ursa Major	NQ2	993	0.0033	SABbc pec	55K		60M	
NGC 3550	Ursa Major	NQ2	0	0.0000	S0	no		no	
NGC 3631	Ursa Major	NQ2	1156	0.0039	SAC	no		33.7M	
NGC 3675	Ursa Major	NQ2	770	0.0026	SAb	70K		40M	

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NGC 3726	Ursa Major	NQ2	866	0.0029	SABc	100K		46.6M	
NGC 3953	Ursa Major	NQ2	1052	0.0035	SBbc	110K		55M	
NGC 4013	Ursa Major	NQ2	831	0.0028	Sba	no		40.6M	
NGC 4051	Ursa Major	NQ2	700	0.0023	SABc	79K		45M	
NGC 4088	Ursa Major	NQ2	757	0.0025	Sbc	90K		51.5M	
NGC 5308	Ursa Major	NQ2	1998	0.0067	S0	103K		95M	
NGC 5322	Ursa Major	NQ2	1780	0.0059	E3	175K		79M	
Bootes DG	Bootes	NQ3	0	0.0000	DdSph	2K		197K	MW
NGC 5248	Bootes	NQ3	1151	0.0038	SABc	no		59M	
NGC 5653	Bootes	NQ3	3562	0.0119	SAb	no		161M	
NGC 5676	Bootes	NQ3	1114	0.0037	SABc	no		100M	
M63	CanesVenatici	NQ3	484	0.0016	SABc	mo		29.3M	
M94	CanesVenatici	NQ3	360	0.0012	Sab	70K		16M	
M106	CanesVenatici	NQ3	448	0.0015	SAB	135K		23.7M	
NGC 4217	CanesVenatici	NQ3	448	0.0015	SAB	no		60Mly	
M51	CanesVenatici	NQ3	463	0.001544	Sabc	76K		23Mly	
M51b	CanesVenatici	NQ3	465	0.001544	Sbpec	no		25M	M51
NGC 4111	CanesVenatici	NQ3	792	0.001544	SA0+	no		43M	
Como Berenices Dwarf	Como Berenices	NQ3	31	0.0001	Dsph	1K		144Kly	MW
M64	Como Berenices	NQ3	410	0.0014	SAab	45K		17.3Mly	
M85	Como Berenices	NQ3	729	0.0024	S0	110K		60Mly	
M88	Como Berenices	NQ3	2281	0.0076	Sc	110K		32.6Mly-C	
M91	Como Berenices	NQ3	486	0.0016	SBb	85K		63Mly	
M98	Como Berenices	NQ3	-142	-0.0005	SABab	155K	96B	44.4Mly	
M99	Como Berenices	NQ3	2404	0.0080	Sc	70K		45.2 Mly	
M100	Como Berenices	NQ3	1571	0.0052	SAB	107K		56Mly	
NGC 4278	Como Berenices	NQ3	0	0.0000	E	50K		41M	
NGC 4323	Como Berenices	NQ3	869	0.0029	SBO/dE	23K		56Mly	
NGC4676A	Como Berenices	NQ3	6613	0.0220	SBb			290Mly	
NGC4676B	Como Berenices	NQ3	6613	0.0220	Irr/Sbpec			290Mly	
NGC 4710	Como Berenices	NQ3	1125	0.0038	SA0* sp			16M-C	
NGC 4889	Como Berenices	NQ3	6495	0.0217	E4	no		308Mly	
NGC4921	Como Berenices	NQ3	5482	0.0183	SBab	209K		320Mly	
NGC 6085	Corona Borealis	NQ3	10195	0.0340	Sa	227K		455Mly	
NGC 6217	Ursa Minor	NQ3	1368	0.0046	SBbc	55K		67.2M	

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NGC 6251	Ursa Minor	NQ3	7413	0.0247	E-Seyfert	no-giant		340M	
Ursa Minor Dwarf	Ursa Minor	NQ3	-247	-0.0008	E	no		200K	MW
NGC 6946	Cephus	NQ4	48	0.0002	SABcd	65K		25.2M	
pegasus DG	Pegasus	NQ4	0	0.0000	Dsph	6K		3M	MW
NGC 7217	Pegasus	NQ4	952	0.0032	SAab	55K		50M	
NGC 7331	Pegasus	NQ4	916	0.0031	SAb	120K		40M	
NGC 1792	Columba	SQ1	0	0.0000	SAbc	70K		45M	
NGC 1808	Columba	SQ1	395	0.0013	SABb	65K		35M	
LMC	Dorado	SQ1	275	0.0009	SBm	14K		163K	MW
NGC 1549	Dorado	SQ1	1256	0.0042	E0	90K		51.2M	
NGC 1553	Dorado	SQ1	1080	0.0036	SA0	80K		78.9M	
NGC 1566	Dorado	SQ1	1504	0.0050	SAbc	110K		38.4M	
NGC 1672	Dorado	SQ1	1331	0.0044	SBbc	85K		45M	
M102	Draco	SQ1	755	0.0025	SBc	60K		50M	
NGC 5907	Draco	SQ1	667	0.0022	Sb+	185K		53.5M	
NGC 6503	Draco	SQ1	43	0.0001	S-dwarf	30K		17M	
NGC 1232	Eridanus	SQ1	1603	0.0053	SABc	140K		61M	
NGC 1291	Eridanus	SQ1	839	0.0028	SBa	85K		33M	
NGC 1300	Eridanus	SQ1	1577	0.0053	SBbc	110K		61.3M	
NGC 1395	Eridanus	SQ1	1717	0.0057	E2	125K		74.4M	
NGC 1407	Eridanus	SQ1	1779	0.0059	E0	125K		76M	
NGC 1532	Eridanus	SQ1	1040	0.0035	SBb pec	165K		58M	
Fornax DG	Fornax	SQ1	53	0.0002	dE0	5K		460K	MW
NGC 1374	Fornax	SQ1	0	0.0000	E1	50K		59M	
NGC 1375	Fornax	SQ1	643	0.0021	SB0 pec	23K		34M	
NGC 1433	Horologium	SQ1	1076	0.0036	SBab	75K		32M	
NGC 1313	Reticulum	SQ1	470	0.0016	SBd	35K		12.9M	
NGC 1559	Reticulum	SQ1	1304	0.0043	SBcd	45K		45M	
NGC 55	Sculptor	SQ1	129	0.0004	SBm	60K		6.5M	
NGC 253	Sculptor	SQ1	243	0.0008	SABc	105K		11.4M	
NGC 300	Sculptor	SQ1	144	0.0005	SBm/Scd	45K		6.1M	
NGC 613	Sculptor	SQ1	1487	0.0050	SBbc	90K		67.5M	
NGC 7793	Sculptor	SQ1	227	0.0008	Scd	35K		12.7M	

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Sculptor Dwarf	Sculptor	SQ1	110		0.0004 E	5K		290K	MW
Antlia Dwarf	Antlia	SQ2	0		0.0000 dSph	3K		4.03M	MW
NGC 2997	Antlia	SQ2	0		0.0000 SAc	115K		45M	
NGC 2280	Canis Major	SQ2	1899		0.0063 SAc	140K		75M	
M83	Hydra	SQ2	508		0.0017 SABc	no		14.7M	
NGC 3109	Hydra	SQ2	403		0.0013 SBm	25K		4.3M	
NGC 3314a	Hydra	SQ2	2850		0.0095 SBbc	no		117M	
NGC 3314b	Hydra	SQ2	4740		0.0158 SAab	no		140M	
NGC 3585	Hydra	SQ2	1484		0.0049 E7	90K		65M	
NGC 3621	Hydra	SQ2	727		0.0024 Scd	80K		22M	
NGC 2613	Pyx	SQ2	1677		0.0056 SAd	150K		70M	
NGC 3115	Sextans	SQ2	663		0.0022 S0	70K		31.6M	
NGC 6221	Ara	SQ3	1499		0.0050 SBbc	70K		69M	
NGC 6215	Ara	SQ3	1552		0.0052 Sac	46K		72.3M-C	
NGC 4696	Centaurus	SQ3	2958		0.0057 E1 pec	no		116M	
NGC 5102	Centaurus	SQ3	468		0.0057 SA0	30K		12M	
NGC 5128	Centaurus	SQ3	547		0.0057 S0	90K		12M	
NGC 5253	Centaurus	SQ3	407		0.0057 Im pec	15K		10.9M	
NGC 192	Cetus	SQ3	4136		0.013787 SB	no		193M-C	
NGC 5643	Lupus	SQ3	1199		0.0040 Sc	100K		55M	
IC 1101	Virgo	SQ3	23368		0.0779 cD	210K		1.045B	
IC 3418	Virgo	SQ3	38		0.0001 SBm	no		55M	
M49	Virgo	SQ3	998		0.0033 E4	160K		55.9M	
M58	Virgo	SQ3	1517		0.0051 SAB	95K		62M	
M59	Virgo	SQ3	438		0.0015 E5	80K		50.1M	
M60	Virgo	SQ3	1108		0.0037 S0 or E1.5	115K		56.7M	
M61	Virgo	SQ3	1566		0.0052 SAB	95K		52.5M	
M84	Virgo	SQ3	999		0.0033 E1	105K		54.9M	
M86	Virgo	SQ3	-244		-0.0008 S0	150K		56M	
M87	Virgo	SQ3	1284		0.0043 E0	980K		53.5M	
M89	Virgo	SQ3	290		0.0010 E0	80K		50M	
M90	Virgo	SQ3	-282		-0.0009 Sb	155K		58.7M	
M104	Virgo	SQ3	1024		0.0034 S0	49K		31.1M	
NGC 4365	Virgo	SQ3	1221		0.0041 E	140K		69M	

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NGC 4429	Virgo	SQ3	1104	0.0037	SA0	90K		55M	
NGC 4435	Virgo	SQ3	71	0.0002	Sab	135K		52M	
NGC 4438	Virgo	SQ3	71	0.0002	Sab	135K		52M	
NGC 4517	Virgo	SQ3	0	0.0000	Scd	90K		30M	
NGC 4526	Virgo	SQ3	448	0.0015	SAB0	115K		55M	
NGC 4535	Virgo	SQ3	1962	0.0065	SABc	105K		53M	
NGC 4636	Virgo	SQ3	938	0.0031	E	85K		49M	
NGC 4654	Virgo	SQ3	1046	0.0035	SABcd	80K		55M	
NGC 4697	Virgo	SQ3	1241	0.0041	E6	80K		38M	
NGC 4699	Virgo	SQ3	1394	0.0046	SABb	95K		427M	
NGC 4753	Virgo	SQ3	3630	0.0121	Sab	135K		77M	
NGC 4762	Virgo	SQ3	986	0.0033	SB0	140K		58M	
NGC 5068	Virgo	SQ3	868	0.0029	SBd	40K		22M	
NGC 5247	Virgo	SQ3	1357	0.0045	Sbc	115K		60M	
NGC 5363	Virgo	SQ3	1139	0.0038	S0	100K		63.6M	
NGC 5364	Virgo	SQ3	1291	0.0043	Sbc pec	165K		55M	
NGC 5846	Virgo	SQ3	1712	0.0057	E0	100K		93M	
IC 1459	Grus	SQ4	1802	0.0060	E3	145K		85M	
NGC 7213	Grus	SQ4	1750	0.0058	SA0	65K		72M	
IC 5052	Pavo	SQ4	584	0.0019	SBd	35K		24M	
NGC 6744	Pavo	SQ4	841	0.0028	SABbc	205K		31M	
NGC 6822	Sagittarius	SQ4	-57	-0.0002	IB, Irr, Bar	8K		1.6M	LG
Sag DG	Sagittarius	SQ4	140	0.0005	Dsph	20K		65kly	MW
NGC 6861	Telescopium	SQ4	2831	0.0094	SA0	no		40.4M-C	
SMC	Tucana	SQ4	158	0.000527	SBm	15K	3M	199Kly	MW
University of Oregon reference 5:									
galaxy not cluster	Ursa Major	NQ2	1500	0.0050	unnamed				
galaxy not cluster	Bootes	NQ3	39000	0.1300	unnamed				
galaxy not cluster	Corona Borealis	NQ3	2200	0.0073	unnamed				
galaxy not cluster	Hydra	SQ2	61000	0.2033	unnamed				
galaxy not cluster	Virgo	SQ3	1200	0.0040	unnamed				
some galaxy clusters									

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Abell 222	Cetus	NQ1	63300	0.211	5K galaxies			2.4M	
Abell 223	Cetus	NQ1	62370	0.2079	5K galaxies			2.4M	
Abell 370	Cetus	NQ1	112500	0.375	300,000 gal				
Abell 400	Cetus	NQ1	7320	0.0244	gal cluster			326M	
Abell 520	Orion	NQ1	60000	0.2	289 galaxies			2645M	
Abell 426	Perseus	NQ1	5370	0.0179	1K galaxies			240M	
Abell 1656	Como Berenices	NQ3	6925	0.0231	1K galaxies			336Mly	
Abell 2061	Corona Borealis	NQ3	23520	0.0784	gal cluster				
Dorado group	Dorado	SQ1	1504	0.0050	46+ galaxies			50M	
Abell 2218	Draco	SQ1	52680	0.1756	10,000 gal				
Abell 383	Eridanus	SQ1	56130	0.1871	gal cluster			2485M	
NGC 4038	Ara	SQ2	1710	0.0057	13-27 galaxies				
Abell 3526	Centaurus	SQ3	3418	0.0057	100's galaxies			171M	
Abell 1060	Hydra	SQ3	16440	0.0548	157 galaxies			190M	
Norma Cluster	Norma	SQ3	4710	0.0157	gal cluster				
Abell 1835	Virgo	SQ3	75960	0.2532	spans 12'				
Abell 2029	Virgo	SQ3	23010	0.0767	spans 6Mly			1.063B	
This table compiled by David Michalets for a convenient reference									
from data in Wikipedia and									
in Atlas Of The Universe sites									
these 2 sources do not agree for some galaxies; it is impossible to check their accuracy									
Satellite column is the primary; LG is in Local Group; MG is in Maffei Group									
those with no velocity data are zero									
those with no available size are no.									
those with no available distance have it calculated (-C) using H0=70 with velocity for a comparison									
this table can be only a general reference (when lacking access to original spectrum data)									