

## 16.9: The Nearest Stars, Brown Dwarfs, and White Dwarfs (Appendix I)

The Nearest Stars, Brown Dwarfs, and White Dwarfs

Star	System	Discovery Name	Distance (light-year)	Spectral Type	Location: RA <sup>1</sup>	Location: Dec <sup>2</sup>	Luminosity (Sun = 1)
		Sun	—	G2 V	—	—	1
1	1	Proxima Centauri	4.2	M5.5 V	14 29	−62 40	$5 \times 10^{-5}$
2	2	Alpha Centauri A	4.4	G2 V	14 39	−60 50	1.5
3		Alpha Centauri B	4.4	K2 IV	14 39	−60 50	0.5
4	3	Barnard's Star	6.0	M4 V	17 57	+04 42	$4.4 \times 10^{-4}$
5	4	Luhman 16A	6.5	L8	10 49	−53 19	
6		Luhman 16B	6.5	T1	10 40	−53 19	
7	5	WISE 0855-0714	7.3	Y2	08 55	−07 15	
8	4	Wolf 359	7.8	M6 V	10 56	+07 00	$2 \times 10^{-5}$
9	5	Lalande 21 185	8.3	M2 V	11 03	+35 58	$5.7 \times 10^{-3}$
10	6	Sirius A	8.6	A1 V	06 45	−16 42	23.1
11		Sirius B	8.6	DA2 <sup>3</sup>	06 45	−16 43	$2.5 \times 10^{-3}$
12	7	Luyten 726-8 A	8.7	M5.5 V	01 39	−17 57	$6 \times 10^{-5}$
13		Luyten 726-8 B (UV Ceti)	8.7	M6 V	01 39	−17 57	$4 \times 10^{-5}$
14	8	Ross 154	9.7	M3.5 V	18 49	−23 50	$5 \times 10^{-4}$
15	9	Ross 248 (HH Andromedae)	10.3	M5.5 V	23 41	+44 10	$1.0 \times 10^{-4}$
16	10	Epsilon Eridani	10.5	K2 V	03 32	−09 27	0.29
17	11	Lacaille 9352	10.7	M0.5 V	23 05	−35 51	0.011
18	12	Ross 128 (FI Virginis)	10.9	M4 V	11 47	+00 48	$3.4 \times 10^{-4}$
19	13	Luyten 789-6 A (EZ Aquarii A)	11.3	M5 V	22 38	−15 17	$5 \times 10^{-5}$
20		Luyten 789-6 B (EZ Aquarii B)	11.3	M5.5 V	22 38	−15 15	$5 \times 10^{-5}$

Star	System	Discovery Name	Distance (light-year)	Spectral Type	Location: RA <sup>1</sup>	Location: Dec <sup>2</sup>	Luminosity (Sun = 1)
21		Luyten 789-6 C (EZ Aquarii C)	11.3	M6.5 V	22 38	−15 17	$2 \times 10^{-5}$
22	14	61 Cygni A	11.4	K5 V	21 06	+38 44	0.086
23		61 Cygni B	11.4	K7 V	21 06	+38 44	0.041
24	15	Procyon A	11.4	F5 IV	07 39	+05 13	7.38
25		Procyon B	11.4	wd <sup>4</sup>	07 39	+05 13	$5.5 \times 10^{-4}$
26	16	Sigma 2398 A	11.5	M3 V	18 42	+59 37	0.003
27		Sigma 2398 B	11.5	M3.5 V	18 42	+59 37	$1.4 \times 10^{-3}$
28	17	Groombridge 34 A (GX Andromedae)	11.6	M1.5 V	00 18	+44 01	$6.4 \times 10^{-3}$
29		Groombridge 34 B (GQ Andromedae)	11.6	M3.5 V	00 18	+44 01	$4.1 \times 10^{-4}$
30	18	Epsilon Indi A	11.8	K5 V	22 03	−56 46	0.150
31		Epsilon Indi Ba	11.7	T1 <sup>5</sup>	22 04	−56 46	—
32		Epsilon Indi Bb	11.7	T6 <sup>6</sup>	22 04	−56 46	—
33	19	G 51-15 (DX Cancri)	11.8	M6.5 V	08 29	+26 46	$1 \times 10^{-5}$
34	20	Tau Ceti	11.9	G8.5 V	01 44	−15 56	0.458
35	21	Luyten 372-58	12.0	M5 V	03 35	−44 30	$7 \times 10^{-5}$
36	22	Luyten 725-32 (YZ Ceti)	12.1	M4.5 V	01 12	−16 59	$1.8 \times 10^{-4}$
37	23	Luyten's Star	12.4	M3.5 V	07 27	+05 13	$1.4 \times 10^{-3}$
38	24	SCR J184-6357 A	12.6	M8.5 V	18 45	−63 57	$1 \times 10^{-6}$
39		SCR J184-6357 B	12.7	T6 <sup>7</sup>	18 45	−63 57	—
40	25	Teegarden's Star	12.5	M6 V	02 53	+16 52	$1 \times 10^{-5}$
41	26	Kapteyn's Star	12.8	M1 V	05 11	−45 01	$3.8 \times 10^{-3}$
42	27	Lacaille 8760 (AX Microscopium)	12.9	K7 V	21 17	−38 52	0.029

## Footnotes

<sup>1</sup>Location (right ascension) given for Epoch 2000.0

<sup>2</sup>Location (declination) given for Epoch 2000.0

<sup>3</sup>White dwarf stellar remnant

<sup>4</sup>White dwarf stellar remnant

<sup>5</sup>Brown dwarf

<sup>6</sup>Brown dwarf

<sup>7</sup>Brown dwarf

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