

Data:

Planet	radius (mi)	Dist from sun (mi)
Mercury	1516	36000000
Venus	3760	67000000
Earth	3959	93000000
Mars	2106	142000000
Jupiter	43440.7	484000000
Saturn	36183.7	886000000
Uranus	15759.2	1800000000
Neptune	15299.4	2800000000
Sun	432168.6	0

Scale Data:

Planet	Planet size relative to earth	scale dist from sun (ft)
Mercury	38%	12.86
Venus	95%	23.93
Earth	100%	33.21
Mars	53%	50.71
Jupiter	1097%	172.86
Saturn	914%	316.43
Uranus	398%	642.86
Neptune	386%	1000.00
Sun	10916%	0.00

Sun scaled with ss:

Sun size relative to SS:	0.0001543459286
Mdl sn rds bsd on dist (ft):	0.1543459286

Columns of high significance explained:

Planet Model Radius (rthbsd)	Planet Model Radius (jptrbsd)	scale dist from sun
This column allows the user to change the radius of the model earth (cell I9) and this column will then display the radius of the other model planets based on that variable.	This column allows the user to change the radius of the model jupiter (cell I10) and this column will then display the radius of the other model planets based on that variable.	This column is constant as long as the length of zane is constant, this column tells the user how far each planet is from the origin in feet.

Dist from sun (ft)	Dist between	Dist bet time scale
190080000000	190080000000	12.85714286
353760000000	163680000000	11.07142857
491040000000	137280000000	9.285714286
749760000000	258720000000	17.5
2555520000000	1805760000000	122.1428571
4678080000000	2122560000000	143.5714286
9504000000000	4825920000000	326.4285714
14784000000000	5280000000000	357.1428571
0	0	0

Planet model raduis (rthbsd)(Ft)	Planet model raduis (jptrbsd)(Ft)	size relative to jup	Scale dist
0.38	0.09	0.03	
0.95	0.22	0.09	
1.00	0.23	0.09	
0.53	0.12	0.05	
10.97	2.50	1.00	
9.14	2.08	0.83	
3.98	0.91	0.36	
3.86	0.88	0.35	
109.16	24.87	9.95	

**Mdl sn rds bsd on dist (ft):**

This row will tell the user how large the sun would be (in ft) if it were to accurately scale with the size of the model solar system.

Constants and variables:

miles to feet	5280
Zane (ft)	1000
SS length mi	2800000000
Earth radius	3959
ss length (ft)	14784000000
Scale factor	0
Sun Distance	0
Earth model radius (ft)	1
Jupiter model radius (ft)	2.5