

Table 17: Cloud and Sunshine Statistics Along the 2009 Eclipse Path

	Percent of Possible Sunshine	Percent Frequency of (cloud cover) at eclipse time						Average Cloud (calc.)
		Clear	Trace	Scattered	Broken	Overcast	Obscured	
India								
Surat *		0.1	2.9	13.8	51.7	31.4	0	78
Mumbai	18	0	0.2	1.8	61.6	36.4	0	85
Indor *	25	0.2	1.1	10.5	68.6	19.6	0	78
Bhopal *		0.5	2.1	7.2	41	49.1	0	85
Allahabad	34	1.4	3	9.7	50.7	35.2	0	80
Varanasi *		0.9	2.7	21.6	60.4	14.4	0	71
Aurangabad *		0.6	4.4	9.5	56.3	29.2	0	78
Patna *	43	0.1	1.7	9.4	64.2	24.6	0	79
Siliguri *		0	2	3.4	54.9	39.2	0.5	84
Guwahati *	29							
Dibrugarh *		0	0.8	3.8	52.2	43.2	0	86
Bangladesh								
Dakka		0	0	3.8	51.5	44.7	0	87
Nepal								
Biratnagar *		0	0	11.9	64.3	23	0.8	78
Burma								
Putao		0	0.7	2.7	14	81.3	1.3	94
China (Tibet)								
Juilong		1	6.9	1.8	47.2	43.1	0	82
China								
Litang *		2	10.1	2.1	59.3	26.4	0.2	75
Leshan *		4.8	8.9	2.2	32.4	51	0.7	79
Chengdu *	34	11	7.9	7.7	26.5	46.3	0.5	72
Neijiang *		11.4	10.5	4.4	25.1	48.4	0.2	72
Chongqing *		16.5	11.9	3.4	31	37	0.2	65
Enshi *		5.2	14.5	3.2	35.9	40.6	0.5	72
Wanxian *		9.3	14.9	2.9	37.1	34.9	1	67
Yichang *	48	12.4	16.1	4.9	30.2	36.1	0.3	64
Nanchong *		13.5	10.7	4.1	33	37.7	1	67
Liangping *		11.6	14.5	5.9	33.7	34.3	0	65
Wuhan *		17.8	10.3	5.6	41.5	24.8	0	61
Shanghai/Hongqiao *	54	8.3	10	11.1	44.6	26	0	67
Shanghai/Hongqiao * (4 years)		22.1	14.7	13.2	30.9	19.1	0	51
Shanghai *		7	15.4	7.8	43.5	26.3	0	66
Shanghai/Pudong * (4 years)		26.7	10	16.7	38.3	8.3	0	47
Japan								
Yakushima *	52	0.4	32.6	10.9	55.8	0.4	0	54
Okinoerabu	67	0	37.9	10	50.6	1.5	0	51
Naze *	51							
Iwo Jima *		0	16.9	30.1	50	2.9	0	58
Southwest Pacific								
Jaluit Atoll *		0	0	8.5	61.8	29.7	0	82
Ailinglapalap Atoll *		0	8.1	16.2	53.5	21.9	0.3	72
Kwajalein		0	4.3	7.2	16.8	71.6	0.2	89
Majuro	56	0	3.4	11.9	20.3	64.4	0	86
Butaritari *		0	18.2	22	44.3	15.5	0	63
Tarawa		0	25.5	28.2	40.8	5.5	0	54
Kanton Island		0	19.5	35.9	36.6	8	0	55
Cook Islands (North)								
Manihiki		18.6	41.4	15.2	16.6	8.3	0	34
Pukapuka		9.9	42.3	14.8	27.1	5.7	0.2	40

* = station is within zone of total eclipse

Data: NCDC

Percent of possible sunshine: the percent of time from sunrise to sunset at which sunshine is recorded on average, for July. This statistic is probably the best for determining the probability of seeing the eclipse.

Percent frequency of clear, trace, scattered, broken, and overcast cloud and obscured skies. Clear means no cloud whatsoever, trace is 1-2 oktas, scattered is 2-4 oktas, broken is 5-7 oktas, and overcast means no breaks in cloud cover whatsoever. Obscured is used for fog conditions and refers to a surface-based layer that hides the sky. An okta is an eighth of the sky.