







Outdoor

Condition

Infilitration

4

									Ext	rema l	Mind	. 6	oldes	Mor	sth.	M	WS/M	ND t	0 DB	Ann	al Da	illy E	stream
				Elev	SHIP		Heati	ng DB	Sp.	ued, n	nph	0	4%	1	5	. 91	1.6%	0	.4%	Mea	n DB	\$l:	SD DB
Station	WHOd	Lat.	Long.	Ĥ	psia	Dates	99.0%	99%	- 15	2.5%	5%	W	S MDB	WS	S MDB	HW	SIN	MW	SAW	) Max	.Hr	. Ma	r, 32
SAUDI ARABIA																							
Abha	411120	18.23 N	42.65 E	6837	11,413	8293	-41	-44	23	21	19	25	颌	22	60	2		13	20	92	35	5.6	
N Jost	403610	29.78 N	40.10 E	2244		8293	32	35	26	22	19	20	49	22	52	5	- 50	9	320	111	28	4.5	
A? Madinah	404300	24.55 N	39.70 E		13,633	8293	48	. 50	20	18	16	19	65	17	67	7	60	9	300	114	42	22	
Al Whith	404000	26.20 N	36.47 E	52	14.672	8293	53	55	28	25	23	27	68	24	-69	- 7	20	13	270	105	47	3,4	4.7
Mat	403570	30.90 N	41.13 E	1811	13,763	8293	32	34	72	19	17	21	51	18	52	-4	270	7	240	111	23	2.0	
だ石茸	410360	21.48 N	40.55 E	4753	12.344	8293	42	45	23	21	19	24	65	22	- 56	5	90	10	50	101	35	3.2	2.9
Az Zahran	404160	26.27 N	50,15 E	55	\$4,670	8293	45	47	26	23	20	22	61	19	61	9	290	13	360	115	40	23	3,5
Haff	403940	27.43 N	41.68 E	3323	13.018	8293	31	34	23	20	18	23	57	20	.60	4	180	8	180	108	25	3.6	4.9
Halar Al Batin	403730	28.33 N	45.17 E	1165	14.092	8293	38	39	27	23	21	24	56	22	55	6	270	10	240	117	31	23	18
Jiddah	410240	21.67 N	39.15 E	39	14,579	8293	59	61	23	21	19	23	78	21	77	6	30	13	330	154	51	4.5	2,4
Jizan	411400	15.90 N	42.58 E	9	14,005	8293	68	70	20	18	18	17	82	16	82	5	100	10	230	107	51	4.5	10,3
Khamis Mushayt	411140	18.30 N	42.80 E	6738	11.455	8293	40	43	21	18	16	2Ż	61	20	61	2	153	10	30	97	35	6.8	4.1
Maldiah	410300	21.48 N	39.83 E	1017	14,168	8293	59	62	14	12	11	15	77	13	78	.4	20	3	300	118	53	2.0	4.3
Casim	404050	26.30 N	43.77 E	2132	13.602	8293	37	20	21	18	14	20	60	17	57	2	30	-8	-90	115	32	3.8	3.2
Rafha	403620	29.63 N	43.48 E	1458	13.937	8293	33	35	Z	22	20	24	54	22	55	4	270	9	300	115	27	2.7	27
Riyadh	604380	24.72 N	46.72 E	2007	13,664	8253	41	44	22	19	17	21	60	16	60	4	320	11	360	115	35	1.4	2.7
Tabult	403750	26.37 N	36.63 E	2525	13,407	8293	54	37	25	20	17	25	60	20	60	2	110	10	270	107	33	22	23
Turayf	403550	11.68 N	38.67 E	2667	13.337	8293	29	32	75	22	20	26	45	22	45	6	270	9	270	505	25	21	3.4
Yanbu'al Bahr	404390	24.15 N	38.07 E	3	14.005	\$293	52	54	25	23	21	25	72	22	72	3	10	57	270	114	47	1.5	2.0

			08/9	WS .					WE	BQ3						DPM	DB an	iHR.		_	_		
	0.4	5	15		25		0,4	5	11	6	2	6		0.4%			1%			2%		Rang	
Station	08	IUNG	D8	MWB	DB	WWB	WB	NDS	WB	NDS	WB	MDE	DP	HR	NDB	OP	HR	MDB	DP	HR	NDE	of D	
SAUDI ARABIA																					71	21	
Abba	.87	- 55	- 85	58	- 84	- 55	67	76	-66	75	- 65	74	50	115	72	63	111	71 66	12 52	108	67	25	
Al Jave!	105	63	103	62	101	61	65	98	54	55	63	95	57	76	67 74	55 60	70	75	04. 57	78	78	23	
AlMadinah	113	-85	110	65	109	64	69	97	68	97	67	18	1	91 167	- 24	81	159	38	21	152	17	12	
Al Weight	95	72	93	75	- 51	78	83	100	82	89	82	39	82	107								25	
Nit	107	.88	105	61	103	67	73	103	71	100	69	68	62	90	92	60	81	90	57	75	80	20	
ADY	- 57	65	- 16	65	- 54	65	72	89	70	87	自	87	-67	117	50	65	109	80	63	102	79	20.	
Az Zahran	111	71	105	71	107	72	85	- 94	84	.94	-63	- 92	14	180	- 91	R	168	90	80 55	158 74	50 71	28.	
指軍	105	- 05	104	64	102	64	68	- 55	<u>67</u>	- 57	65	- 57	59	85	71	57	80	72		78	71	27.	
Histar AJ Batin	113	- 07	112	- 66	110	66	71	99	6	100	67	100	- 64	.94	74	81	85	83	59 79	150	11	72	
Sideh.	104	72	102	72	100	74	- 83	94	82	94	81	92	81	159	60	79	151	95	111	100	16	12	
Jaan	102	-83	100	63	- 95	53	87	99	86	98	85	-97	54	178	96	53	171	- 96 71	62 61	108	70	22	
Quartia Mushing	-88	57	- 87	- 57	85	- 59	66	75	65	74	64	74	53	111	11	62	106	94	61 74	133	- 54	27.	
Muldah	113	76	111	76	100	75	82	101	E1	102	80	101	17	117	95 64	首の		60	59	81	12	29.	
Qasie	110	67	109	65	107	64	74,	97	70	99	68 60	.00 103	65	112	75	60 61	12. 53	72	58	75	12	29.7	
Rafta	113	69	108	05	107	67	72	104	70 87	97	60	102 .	03 82	91	73	60	50 63	72	57	76	72	25.3	
Ryadh	111	64	110	64	108	64	69	05	67	97 95	85	94	59	30	77	56	74	77	55	71	78	26.0	
Tabuk	104	61	102	61	100	57	-68	62	65	92 95	65	279 60	27	17	78	55	74	75	56	n.	78	27.1	
Tarryf	102	55	:19	63	- 97	12	10	54	10	05	21	54	11	150	- 00	72	150	10	77	142	- 62	251	
Yanbu'al Bahr	100	76	100	75	504	78	23	- 19	0.0	-00	01.	100		144		100	144				~	-	

Hourly Outdoor Temperature	
$t_o(hr) = t_d - DR * X(hr)$	
t <sub>d</sub> =Design temperature DR=Daily range X=Percentage of daily range	
Average $t_{om} = t_d - 0.5 * DR$ outdoor temp.	
	9

hr	% Daily range (X)	hr	% Daily range (X)
l	87	13	11
2	92	14	3
3	96	15	0
4	99	16	3
5	100	17	10
5	98	18	21
7	93	19	34
8	84	20	47
9	71	21	58
0	56	22	68
11	39	23	76
2	23	24	82



