

**16 DAY-OF-YEAR TABLE** (DOY 0-365)

Table 16-I. Year begins at 0, not 1. (Although some have used DOY as 1 to 365, that's mathematically nonsensical because 1200h Jan 01 is DOY 0.5, not 1.5, likewise 1200h Dec 31 is DOY 364.5, not 365.5.) For leap year Feb 29 is DOY 59, and add 1 to each DOY from Mar 01; nevertheless, the biological meaning of DOY is Earth's position in the solar orbit, and leap year corrections are too small,  $\leq 0.25/365$ , to matter for most purposes.

To convert hhmm to Decimal part of Day (DD):  $DD = hh/24 + mm/1440$ .  
 E.g.: 16.28 {hh.mm} is  $16/24 + 28/1440 = 0.686$  {proper DD}. Thus, 1628hrs on Nov. 15 = DOY.dd 318.686. See Sec. 10 for automation in spreadsheets.

d	DOY	10	40	24	82	4	123	15	165	27	207	6	248	18	290	29	332
<b>JAN</b>		11	41	25	83	5	124	16	166	28	208	7	249	19	291	30	333
1	0	12	42	26	84	6	125	17	167	29	209	8	250	20	292	<b>DEC</b>	
2	1	13	43	27	85	7	126	18	168	30	210	9	251	21	293	1	334
3	2	14	44	28	86	8	127	19	169	31	211	10	252	22	294	2	335
4	3	15	45	29	87	9	128	20	170	<b>AUG</b>		11	253	23	295	3	336
5	4	16	46	30	88	10	129	21	171	1	212	12	254	24	296	4	337
6	5	17	47	31	89	11	130	22	172	2	213	13	255	25	297	5	338
7	6	18	48	<b>APR</b>		12	131	23	173	3	214	14	256	26	298	6	339
8	7	19	49	1	90	13	132	24	174	4	215	15	257	27	299	7	340
9	8	20	50	2	91	14	133	25	175	5	216	16	258	28	300	8	341
10	9	21	51	3	92	15	134	26	176	6	217	17	259	29	301	9	342
11	10	22	52	4	93	16	135	27	177	7	218	18	260	30	302	10	343
12	11	23	53	5	94	17	136	28	178	8	219	19	261	31	303	11	344
13	12	24	54	6	95	18	137	29	179	9	220	20	262	<b>NOV</b>		12	345
14	13	25	55	7	96	19	138	30	180	10	221	21	263	1	304	13	346
15	14	26	56	8	97	20	139	<b>JULY</b>		11	222	22	264	2	305	14	347
16	15	27	57	9	98	21	140	1	181	12	223	23	265	3	306	15	348
17	16	28	58	10	99	22	141	2	182	13	224	24	266	4	307	16	349
18	17	<b>MAR</b>		11	100	23	142	3	183	14	225	25	267	5	308	17	350
19	18	1	59	12	101	24	143	4	184	15	226	26	268	6	309	18	351
20	19	2	60	13	102	25	144	5	185	16	227	27	269	7	310	19	352
21	20	3	61	14	103	26	145	6	186	17	228	28	270	8	311	20	353
22	21	4	62	15	104	27	146	7	187	18	229	29	271	9	312	21	354
23	22	5	63	16	105	28	147	8	188	19	230	30	272	10	313	22	355
24	23	6	64	17	106	29	148	9	189	20	231	<b>OCT</b>		11	314	23	356
25	24	7	65	18	107	30	149	10	190	21	232	1	273	12	315	24	357
26	25	8	66	19	108	31	150	11	191	22	233	2	274	13	316	25	358
27	26	9	67	20	109	<b>JUNE</b>		12	192	23	234	3	275	14	317	26	359
28	27	10	68	21	110	1	151	13	193	24	235	4	276	15	318	27	360
29	28	11	69	22	111	2	152	14	194	25	236	5	277	16	319	28	361
30	29	12	70	23	112	3	153	15	195	26	237	6	278	17	320	29	362
31	30	13	71	24	113	4	154	16	196	27	238	7	279	18	321	30	363
<b>FEB</b>		14	72	25	114	5	155	17	197	28	239	8	280	19	322	31	364
1	31	15	73	26	115	6	156	18	198	29	240	9	281	20	323	End of	
2	32	16	74	27	116	7	157	19	199	30	241	10	282	21	324	year =	
3	33	17	75	28	117	8	158	20	200	31	242	11	283	22	325	365.0 =	
4	34	18	76	29	118	9	159	21	201	<b>SEPT</b>		12	284	23	326	0.0 (start	
5	35	19	77	30	119	10	160	22	202	1	243	13	285	24	327	of next	
6	36	20	78	<b>MAY</b>		11	161	23	203	2	244	14	286	25	328	year)	
7	37	21	79	1	120	12	162	24	204	3	245	15	287	26	329		
8	38	22	80	2	121	13	163	25	205	4	246	16	288	27	330		
9	39	23	81	3	122	14	164	26	206	5	247	17	289	28	331		

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