

Julian Date Calendars And Military (24-Hour) Clock

Julian Date Calendar: The following tables will be used to convert the Gregorian (official United States Commerce Calendar) calendar dates to a three numerical digit Julian Date. The first Julian Date Calendar table is a perpetual calendar for all years except leap years. The second Julian Date Calendar table is a perpetual calendar for leap years only, such as 2012, 2016, 2020, etc.

How to use Julian Date Calendars: The calendars are constructed in a matrix with the days of the month in the left hand column from 1 through 31. The months are displayed in rows from left to right starting with January and continuing through

each month to December on the extreme right. **Example:** If you made an application for space available travel on 15 April 2009, go to table #1 and read down the date column to 15 and across to the right to April where you find the number 105, or the 105th day in the Julian Date Calendar. If this were a leap year, i.e. 15 April 2012, check the number in table #2 in the leap year calendar—it would be the 106th day. Please try to convert some sample dates (birthdays, holidays, etc.) until you are comfortable using this system.

The entire Julian Date is constructed using the last two digits of the calendar year, i.e., 2009 is 09, 105

for 15 April. The last four digits of the Julian date are taken from the twenty-four hour clock, frequently known as the military clock, or time when the hour is a period of time equal to one twenty-fourth of a mean solar or civil day and equivalent to sixty minutes. The Julian Day is divided into a series of twenty-four hours from midnight to midnight. See the table on this page.

Using the Julian Date Calendar tables on this page, if you are applying for Space-A air travel at 2:45pm on April 15, 2009, your complete Julian Date and time would be 09 105 1445 or the year 2009, 105th day 14th hour and 45th minute.

TABLE #1- JULIAN DATE CALENDAR ENCODE/DECODE TABLE												
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	001	032	060	091	121	152	182	213	244	274	305	335
2	002	033	061	092	122	153	183	214	245	275	306	336
3	003	034	062	093	123	154	184	215	246	276	307	337
4	004	035	063	094	124	155	185	216	247	277	308	338
5	005	036	064	095	125	156	186	217	248	278	309	339
6	006	037	065	096	126	157	187	218	249	279	310	340
7	007	038	066	097	127	158	188	219	250	280	311	341
8	008	039	067	098	128	159	189	220	251	281	312	342
9	009	040	068	099	129	160	190	221	252	282	313	343
10	010	041	069	100	130	161	191	222	253	283	314	344
11	011	042	070	101	131	162	192	223	254	284	315	345
12	012	043	071	102	132	163	193	224	255	285	316	346
13	013	044	072	103	133	164	194	225	256	286	317	347
14	014	045	073	104	134	165	195	226	257	287	318	348
15	015	046	074	105	135	166	196	227	258	288	319	349
16	016	047	075	106	136	167	197	228	259	289	320	350
17	017	048	076	107	137	168	198	229	260	290	321	351
18	018	049	077	108	138	169	199	230	261	291	322	352
19	019	050	078	109	139	170	200	231	262	292	323	353
20	020	051	079	110	140	171	201	232	263	293	324	354
21	021	052	080	111	141	172	202	233	264	294	325	355
22	022	053	081	112	142	173	203	234	265	295	326	356
23	023	054	082	113	143	174	204	235	266	296	327	357
24	024	055	083	114	144	175	205	236	267	297	328	358
25	025	056	084	115	145	176	206	237	268	298	329	359
26	026	057	085	116	146	177	207	238	269	299	330	360
27	027	058	086	117	147	178	208	239	270	300	331	361
28	028	059	087	118	148	179	209	240	271	301	332	362
29	029	060	088	119	149	180	210	241	272	302	333	363
30	030	061	089	120	150	181	211	242	273	303	334	364
31	031	062	090	121	151	182	212	243	274	304	335	365

TABLE #2- JULIAN DATE LEAP YEAR CALENDAR ENCODE/DECODE TABLE												
DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	001	032	061	092	122	153	183	214	245	275	306	336
2	002	033	062	093	123	154	184	215	246	276	307	337
3	003	034	063	094	124	155	185	216	247	277	308	338
4	004	035	064	095	125	156	186	217	248	278	309	339
5	005	036	065	096	126	157	187	218	249	279	310	340
6	006	037	066	097	127	158	188	219	250	280	311	341
7	007	038	067	098	128	159	189	220	251	281	312	342
8	008	039	068	099	129	160	190	221	252	282	313	343
9	009	040	069	100	130	161	191	222	253	283	314	344
10	010	041	070	101	131	162	192	223	254	284	315	345
11	011	042	071	102	132	163	193	224	255	285	316	346
12	012	043	072	103	133	164	194	225	256	286	317	347
13	013	044	073	104	134	165	195	226	257	287	318	348
14	014	045	074	105	135	166	196	227	258	288	319	349
15	015	046	075	106	136	167	197	228	259	289	320	350
16	016	047	076	107	137	168	198	229	260	290	321	351
17	017	048	077	108	138	169	199	230	261	291	322	352
18	018	049	078	109	139	170	200	231	262	292	323	353
19	019	050	079	110	140	171	201	232	263	293	324	354
20	020	051	080	111	141	172	202	233	264	294	325	355
21	021	052	081	112	142	173	203	234	265	295	326	356
22	022	053	082	113	143	174	204	235	266	296	327	357
23	023	054	083	114	144	175	205	236	267	297	328	358
24	024	055	084	115	145	176	206	237	268	298	329	359
25	025	056	085	116	146	177	207	238	269	299	330	360
26	026	057	086	117	147	178	208	239	270	300	331	361
27	027	058	087	118	148	179	209	240	271	301	332	362
28	028	059	088	119	149	180	210	241	272	302	333	363
29	029	060	089	120	150	181	211	242	273	303	334	364
30	030	061	090	121	151	182	212	243	274	304	335	365
31	031	062	091	122	152	183	213	244	275	305	336	366

TWENTY-FOUR HOUR CLOCK/ MILITARY TIME	
Conventional Clock	Military Clock
midnight 12am	2400 hours
1am	0100 hours
2am	0200 hours
3am	0300 hours
4am	0400 hours
5am	0500 hours
6am	0600 hours
7am	0700 hours
8am	0800 hours
9am	0900 hours
10am	1000 hours
11am	1100 hours
noon 12pm	1200 hours
1pm	1300 hours
2pm	1400 hours
3pm	1500 hours
4pm	1600 hours
5pm	1700 hours
6pm	1800 hours
7pm	1900 hours
8pm	2000 hours
9pm	2100 hours
10pm	2200 hours
11pm	2300 hours

AM

PM