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Great Plains Interagency Dispatch Center Forms

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Great Plains Dispatch Center  
Phone: 605-399-3160 Fax: 605-343-5075

FIRECODE REQUEST  
AND  
NATIONAL SITUATION REPORT INFORMATION

\* FireCode: \_\_\_\_\_

Discovery Date: \_\_\_\_\_

Discovery Time: \_\_\_\_\_

Incident Name: \_\_\_\_\_

Host Unit Id: \_\_\_\_\_

Latitude: Degrees \_\_\_\_\_ Minutes \_\_\_\_\_

Longitude: Degrees \_\_\_\_\_ Minutes \_\_\_\_\_

\* Incident Order Number: \_\_\_\_\_

Fire Size \_\_\_\_\_

Fire Cause: L \_\_\_\_\_ H \_\_\_\_\_ Human Caused Type \_\_\_\_\_

Multi-Jurisdictional: Yes \_\_\_\_\_ No \_\_\_\_\_

Reimbursable/Billable: Yes \_\_\_\_\_ No \_\_\_\_\_

Wildland Fireuse: Yes \_\_\_\_\_ No \_\_\_\_\_

Complex: Yes \_\_\_\_\_ No \_\_\_\_\_

Specific Agency Codes: \_\_\_\_\_

\_\_\_\_\_

\* Firecode and Incident Order Number will be issued by  
Northern Great Plains Dispatch Center

EXHIBIT 2: FireCode System Request

**GREAT PLAINS  
INTERAGENCY DISPATCH CENTER  
PHONE: 605-399-3160 FAX: 605-343-5075  
PRESCRIBED/PILE BURNING FIRE REPORT FORM**

<b>NAME OF INCIDENT</b>	<b>YOUR AGENCY</b>	<b>STATE</b>	<b>UNIT NAME-</b>
<b>PLANNED START DATE</b>	<b>NUMBER OF DAYS</b>	<b>ACRES</b>	<b>STRATEGY/FUEL TYPE</b>
<b>VOR (PROVIDED BY DISPATCH)</b>	<b>LEGAL</b>	<b>LAT/LONG (IN DEGREES, MIN, SEC)</b>	
<b>REMARKS</b>			
<b>SUBMITTED BY (YOUR NAME):</b>		<b>PHONE NUMBER:</b>	<b>REPORT DATE:</b>

**PLEASE FAX OR E-MAIL TO DISPATCH AT LEAST 2 DAYS BEFORE THE PLANNED START DATE.**

EXHIBIT 3: Prescribed Fire / Pile Burning Report  
[http://gacc.nifc.gov/rmcc/dispatch\\_centers/r2gpc/forms.htm](http://gacc.nifc.gov/rmcc/dispatch_centers/r2gpc/forms.htm)

<b>Great Plains Dispatch Incident Report</b>										<input type="checkbox"/> DB	<input type="checkbox"/> ROSS	<input type="checkbox"/> FireStat	<input type="checkbox"/> SIT	<input type="checkbox"/> WC
<b>Incident #:</b>		<b>Project Order #:</b>				<b>Date/Time:</b>				/ /				
<b>Incident Name:</b>						<b>Dispatcher:</b>								
<b>Incident Code or Project Code</b>						<b>Type of Incident</b>								
USFS:				<input type="checkbox"/> WF-Wildland Fire		<input type="checkbox"/> Other								
State:				<input type="checkbox"/> FAL - False Alarm		<input type="checkbox"/> FC - Fire Code Request								
Other:				<input type="checkbox"/> CA - County Asst.										
SO#		Ranger#		District#										
<b>Card to be used for wildland fire incidents in conjunction with WildCAD.</b>														
<p>For detailed info see data attached.</p>														
<b>CONFIRM WHEN CALLED CONTROLLED</b>						<b>FIRE STAT INFORMATION</b>								
<b>LEGAL</b>		T	R	SEC	1/4	1/4	<b>DATE</b>		<b>TIME</b>					
							<b>CONTAINED</b>							
<b>CAUSE</b>		L	H	<b>SPECIFIC CAUSE</b>		<b>CONTROLLED</b>								
						<b>OUT</b>								
<b>Final Acres by Ownership:</b>														
<b>Card to be used for wildland fire incidents in conjunction with WildCAD.</b>														

EXHIBIT 4: Great Plains Dispatch Incident Report (card-stock front sheet for WildCad printout and other documentation).

Forms		Chapter 80	
WS FORM D-1 U.S. Department of Commerce (1-2005) SPOT REQUEST NOAA (Supersedes Previous Editions) (See reverse for instructions) National Weather Service			
Please call the NWS Weather Forecast Office (WFO) when submitting a request and also after you receive a forecast to ensure request and forecast were received. Please provide feedback to WFO on forecast.			
1. Time†	2. Date	3. Name of Incident or Project	4. Requesting Agency
5. Requesting Official	6. Phone Number	7. Fax Number	8. Contact Person
9. Ignition/Incident Time and Date	12. Reason for Spot Request (choose one only) <input type="checkbox"/> Wildfire <input type="checkbox"/> Non-Wildfire Under the Interagency Agreement for Meteorological Services (USFS, BLM, NPS, USFWS, BIA) <input type="checkbox"/> Non-Wildfire State, tribal or local fire agency working in coordination with a federal participant in the Interagency Agreement for Meteorological Services <input type="checkbox"/> Non-Wildfire Essential to public safety, e.g. due to the proximity of population centers or critical infrastructure.		13. Latitude/Longitude:
10. Size (Acres)			14. Elevation (ft., Mean Sea Level) Top: Bottom:
11. Type of Incident wildfire <input type="checkbox"/> Prescribed Fire <input type="checkbox"/> Wildland Fire Use (WFLU) <input type="checkbox"/> HAZMAT <input type="checkbox"/> Search And Rescue (SAR)			15. Drainage
18. Fuel Type: Grass Bush Timber Slash Grass/Timber Understory Other _____ Fuel Model: 1,2,3 4,5,6,7 8,9,10 11,12,13			
19. Location and name of nearest weather observing station (distance & direction from project):			
20. Weather Observations from project or nearby station(s): (Winds should be in compass direction e.g. N, NW, etc.)			
Place	Elevation	+Obs Time	20 ft. Wind Dir. / Speed
			Eye Level Wind Dir. / Speed
			Temp. Dry Wet
			Moisture RH DP
			Remarks (Relevant Weather, etc.)
21. Requested Forecast Period Date Start _____ End _____  Forecast needed for: <input type="checkbox"/> Today <input type="checkbox"/> Tonight <input type="checkbox"/> Day 2 <input type="checkbox"/> Extended		22. Primary Forecast Elements (Check all that are needed) (for management ignited wildland fires, provide prescription parameters): Needed: Sky/Weather ___ Temperature ___ Humidity ___ 20 ft. Wind ___ Valley ___ Ridge Top ___ Other (Specify in #23) ___	
24. Send Forecast to: ATTN:		25. Location:	26. Phone Number: Fax Number:
27. Remarks (Special requests, incident details, Smoke Dispersion elements needed, etc.):			
EXPLANATION OF SYMBOLS: † Use 24-hour clock to indicate time. Example: 10:15 p.m. - 2215; 10:15 a.m. - 1015 Indicate local standard time or local daylight time			

EXHIBIT 5: Fire Weather Spot Forecast Request

**Great Plains Interagency Dispatch  
Phone 605-399-3160 Fax 605-343-5075  
Service and Supplies Authorization Sheet**

Incident Name: \_\_\_\_\_ Date/Time \_\_\_\_\_

Incident Number: \_\_\_\_\_ Fire Codes: \_\_\_\_\_

Vendor Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Agreement Number: \_\_\_\_\_ Fax: \_\_\_\_\_

R.O. # "O,C,E,S"	Crew Name or Name and Position	Number of Meals, Rooms or items requested

List cost of meals per agreement or state ~~per diem~~ for each meal.

Breakfast: \$ \_\_\_\_\_ Circle one  
Sit Down

Lunch: \$ \_\_\_\_\_ Pick-up

Dinner: \$ \_\_\_\_\_

Cost per night/per room: \$ \_\_\_\_\_

\_\_\_\_\_  
Name and number of card holder or person responsible for payment

\_\_\_\_\_  
Printed Name of Driver or Responsible Party

\_\_\_\_\_  
Signature of Driver or Responsible Party Date

Revised: 4/16/2013

Name	Call Sign	Name	Call Sign
<b>BKF</b>		<b>SDS</b>	
Todd Pechota	CHIEF 1	Jay Esperance	ST CHIEF 1
Jason Virtue	CHIEF 2	Steve Hasenohrl	ST CHIEF 2
Amy Ham	BRANCH 3	Jim Strain	ST CHIEF 3
Lance Spring	HT SUPT 1	Rob Lehmann	ST CHIEF 4
Corey Lewis	HT CAPT 1	Jeni Lawver	ST PIO
Toby Cook	DIV 6	Brenda Even	ST FINANCE 1
Mike Park	BATT 61	Paul Reiter	ST COMMO 1
Jeremy Dalman	BATT 62	Jim Burk	ST TECH 1
Chris Stover	FUELS 6	Monty Bollock	ST TECH 2
Tom Roerick	FUELS 61	Andy Tate	ST FUELS 1
Jared Hohn	DIV 3	Brandy Petersen	ST FUELS 2
Scott Wheeler	BATT 31	Cassie Christy	ST FUELS 3
Todd Hoover	BATT 32	Winston Cadotte	ST AIR OPS
Matt Spring	FUELS 3	Cody Griffee	DIV 400
Jake Diedtrich	FUELS 31	Ray Black	BATT 400
Chris Zoller	DIV 1	Steve Esser	DIV 500
Chris Huhnerkoch	BATT 1	Jeff Wiedow	BATT 500
Trevor Papenfuss	BATT 8	Ray Bubb	DIV 600
		Casey Glines	BATT 600
Jeff Gies	BATT 81	Chris Blair	DIV 700
		Mark Menning	BLACK HAT CAPT
Brian Rafferty	FUELS 8	Donald Henry	BEAR MTN CAPT
		<b>CSP</b>	
		Jay Wickham	DIV 200
		John Haskvitz	BATT 200
		Vacant	CAPT 200
		Chad Kremer	CAPT 201
		Tom Miklos	CAPT 202
<b>NBF</b>		<b>NPS (NE,SD,WY)</b>	
Steve Ipswitch	NE-700		
Tedd Teahon	NE-701	Eric Allen	NPS-200
Weston Burch	NE-702	Al Stover	NPS-201
Dalynn Parks	NE-704		NPS-205
Brian Daunt	NE-705	Mike Carlbom	NPS-206

EXHIBIT 7: Call Sign



SOUTH DAKOTA FIRE DEPARTMENTS AND UNIT IDENTIFIERS							
Aberdeen	ABDX	Buffalo Gap	BGDX	Edgemont	EDMX	Hazel	HZLX
Aberdeen Rural	ABRX	Buffalo	BUFX	Egan	EGNX	Hecla	HCLX
Academy	ACMX	Burke	BUKX	Elk Point	EKPX	Henry	HNYX
Agar	AGRX	Camp Crook	CCDX	Elkton	ELKX	Hereford	HERX
Akaska	AKAX	Canistota	CANX	Ellsworth AFB	ELSX	Hermosa	HMDX
Alcester	ALCX	Canova	CAVX	Emery	EMYX	Herreid	HEDX
Alexandria	ALXX	Canton	CNTX	Enning	ENNX	Highlands	HLDX
Alkali	ALKX	Carthage	CARX	Estelline	ESTX	Highmore	HGMX
Alpena	ALPX	Cascade	CADX	Ethan	ENTX	Hill City	HCDX
Andover	ANDX	Castle Rock	CSRX	Eureka	EURX	Hitchcock	HITX
Ardmore	ARDX	Castlewood	CSTX	Fairburn	FBDX	Hosmer	HOSX
Argyle	ARGX	Cavour	CVRX	Fairfax	FRFX	Hot Springs MAC	HSVX
Arlington	ARLX	Centerville	CENX	Fairview	FRVX	Hot Springs VFD	HSDX
Armour Rural	ARRX	Chamberlain	CHMX	Faith	FTHX	Hoven	HOVX
Armour	ARMX	Chancellor	CHAX	Faulkton	FALX	Howard	HOWX
Artesian	ARTX	Chester	CHEX	Fedora	FDOX	Hudson	HUDX
Ash Creek	ASCX	Claire City	CLCX	Flandreau	FLDX	Humbolt	HUMX
Ashton	ASHX	Claremont	CLMX	Florence	FLOX	Hurley	HRLX
Astoria	ASTX	Clark	CLRX	Folsom	FOLX	Huron	HURX
Aurora	AURX	Clear Lake	CLKX	Fort Meade	FTMX	Hutterville	HUTX
Avon	AVNX	Colman	CMNX	Fort Pierre	FTPX	Interior	INTX
Badger	BDGX	Colome	COMX	Fort Thompson	FTTX	Ipswich	IPSX
Baltic	BALX	Colton	COLX	Four Corners	FCRX	Irene	IRNX
Batesland	BT SX	Columbia	CMBX	Frankfort	FRKX	Iroquois	IRQX
Bath	BTHX	Conde	CONX	Fredrick	FRDX	Isabel	ISBX
Bear Ridge	BRRX	Corona	CRNX	Freeman	FREX	Java	JVAX
Belle Fourche	BLFX	Corsica		Gann Valley	GANX	Jefferson	JFFX
Belvidere	BLVX	Cresbard	CBDX	Garden City	GDNX	Johnson Siding	JSDX
Beresford	BRFX	Crooks	CRKX	Garretson	GARX	Kadoka	KDKX
Big Stone City	BSCX	Custer	CUTX	Gary	GRYX	Kennebec	KNBX
Bison	BISX	Dallas	DALX	Gayville	GAVX	Keystone	KSDX
Black Hawk	BHDX	Dante	DANX	Geddes	GEDX	Kimball	KMBX
Blunt	BLTX	Davis	DAVX	Gettysberg	GTYX	Kyle	KYLX
Bonesteel	BNSX	Deadwood	DWDX	Glad Valley	GLDX	Labolt	LABX
Bowdle	BOWX	Deep Creek	DCRX	Glenham	GLNX	Lake Andes	LKAX
Box Elder	BXEX	Dell Rapids	DELX	Goodwin	GDW X	Lake Norden	LKNX
Bradley	BRDX	Delmont	DLMX	Grand River	GRRX	Lake Preston	LKPX
Brandon	BRNX	Desmet	DESX	Green Valley	GRVX	Langford	LANX

## Forms

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Brandt	BRTX	Dewey	DEWX	Gregory	GRGX	Lead	LDDX
Brentford	BNTX	Doland	DLDX	Groton	GROX	Lebanon	LEBX
Bridgewater	BRWX	Dolton	DTNX	Harding	HARX	Lemmon	LEMX
Bristol	BRIX	Doty	DTYX	Harrisburg	HABX	Lennox	LENX
Brookings	BRKX	Draper	DRPX	Harrod	HRRX	Leola	LEOX
Brownville	BRVX	Dupree	DUPX	Hartford	HTFX	Lesterville	LSVX
Bruce	BRCX	Eagle Butte	EBTX	Hayti	HAYX	Letcher	LETX
Bryant	BRYX	Eden	ENDX	Hayward	HWDX	Lodgepole	LDGX
Long Lake	LLKX	Onaka	ONKX	Roslyn	ROSX	Vermillion	VERX
Long Valley	LVVX	Onida	ONIX	Running Antelope	RANX	Vetal	VETX
Lowry	LOWX	Opal	OPLX	Saint Francis	STFX	Viborg	VIBX
Ludlow	LDLX	Oral	ORLX	Salem	SLMX	Vienna	VINX
Lyons	LYNX	Orient	ORIX	Savoy	SAVX	Vivian	VIVX
Madison	MADX	Ortley	ORTX	Scenic	SCNX	Volga	VLGX
Marion	MRNX	Parker	PKRX	Scotland	SLDX	Volin	VOLX
Martin	MARX	Parkston	PRKX	Selby	SLBX	Wagner	WGNX
Marty	MTYX	Peever	PEVX	Seneca	SENX	Wakonda	WAKX
Marvin	MVNX	Philip	PHLX	Sherman	SHMX	Wall	WLLX
McIntosh	MCIX	Pickstown	PICX	Silver City	SCDX	Wallace	WLX
McLaughlin	MCLX	Piedmont	PMDX	Sinai	SNIX	Wamblee	WNBX
Meadow	MDWX	Pierpont	PPNX	Sioux Falls	SFDX	Warner	WARX
Mellette	MELX	Pierre	PFDX	Sisseton	SISX	Wasta	WSTX
Menno	MMOX	Pierre Rural	PRRX	Smithwick	SMWX	Watertown	WTNX
Midland	MDLX	Pine Ridge	PRDX	Sorum/Reva	SRVX	Waubay	WBYX
Milbank	MLBX	Plankinton	PLKX	South Hand	SHNX	Webster	WEBX
Milesville	MLSX	Platte	PLTX	South Shore	SSHX	Wentworth	WNWX
Miller	MLLX	Pollock	PCKX	Spearfish Canyon	SPCX	Wessington Sprs	WSPX
Minnekahta	MINX	Polo	POLX	Spearfish	SPFX	Wessington	WESX
Mission TWP	MTPX	Prairie City	PRCX	Spencer	SPNX	Whispering Pines	WPDX
Mission	MISX	Presho	PSHX	Split Rock	SRKX	White Lake	WLKX
Mitchell	MITX	Pringle	PRGX	Springfield	SPGX	White River	WRVX
Mobridge	MOBX	Pukwana	PUKX	St Onge	STOX	White	WHTX
Monroe	MONX	Quinn	QNNX	Stickney	STNX	Whitewood	WWDX
Montrose	MTRX	Ralph	RPHX	Stockholm	STHX	Willow Lake	WLX
Morristown	MRSX	Ramona	RAMX	Stratford	STRX	Wilmont	WMTX
Mound City	MCTX	Rapid City	RCFX	Sturgis	STUX	Winfred	WNFX
Mount Vernon	MTVX	Rapid Valley	RVDX	Summit	SUMX	Winner	WNRX
Mud Butte	MBTX	Rania	RAVX	Tabor	TABX	Witten	WITX
Murdo	MURX	Raymond	RAYX	Tea	TEAX	Wolsey	WOLX
Nemo	NMOX	Red Scaffold	RDSX	Timber Lake	TMBX	Wood	WDDX
New Effington	NEFX	Redfield	RFRX	Tolstoy	TOLX	Woonsocket	WNSX

## Forms

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New Underwood	NVDX	Redfield Hosp	RFHX	Toronto	TNTX	Worthing	WTHX
Newell	NEWX	Redfield	RFDX	Trail City	TRCX	Yankton	YTNX
Nisland	NISX	Redig	RDGX	Trent	TRNX		
Noriss	NORX	Ree Heights	REEX	Tripp	TRPX		
North Haines	NHDX	Reliance	RELX	Tulare	TULX		
North Marshall	NMHX	Renner	RENX	Turton	TURX		
North Sioux	NSXX	Revilla	REVX	Tuthill	TUTX		
Northville	NVLX	Robbs Flat	RBFX	Tyndall	TYNX		
Nund	NUNX	Rochford	ROFX	Utica	UTCX		
NW Corner	NWCX	Rockerville	RKVX	Vale	VLEX		
Oelrichs	OELX	Roscoe	RSCX	Valley Springs	VSPX		
Oldham	OLDX	Rosholt	RSHX	Veblen	VEBX		

## Exhibit 8: South Dakota Fire Departments

SOUTH DAKOTA COUNTY IDENTIFIERS					
Aurora	SD-ARX	Fall River	SD-FRX	Marshall	SD-MAX
Beadle	SD-BDX	Faulk	SD-FAX	Meade	SD-MDX
Bennett	SD-BNX	Grant	SD-GTX	Millette	SD-MIX
Bon Homme	SD-BHX	Gregory	SD-GRX	Miner	SD-MNX
Brookings	SD-BKX	Haakon	SD-HAX	Minnehaha	SD-MHX
Brown	SD-BRX	Hamlin	SD-HMX	Moody	SD-MOX
Brule	SD-BUX	Hand	SD-HDX	Pennington	SD-PNX
Buffalo	SD-BFX	Hanson	SD-HNX	Perkins	SD-PEX
Butte	SD-BTX	Harding	SD-HRX	Potter	SD-POX
Campbell	SD-CAX	Hughes	SD-HUX	Roberts	SD-ROX
Charles Mix	SD-CHX	Hutchinson	SD-HTX	Sanborn	SD-SAX
Clark	SD-CLX	Hyde	SD-HYX	Shannon	SD-SHX
Clay	SD-CYX	Jackson	SD-JAX	Spink	SD-SPX
Codington	SD-CDX	Jerauld	SD-JEX	Stanley	SD-STX
Corson	SD-CRX	Jones	SD-JOX	Sully	SD-SUX
Custer	SD-CUX	Kingsbury	SD-KIX	Todd	SD-TOX
Davison	SD-DVX	Lake	SD-LKX	Tripp	SD-TPX
Day	SD-DAX	Lawrence	SD-LAX	Turner	SD-TUX
Deuel	SD-DLX	Lincoln	SD-LIX	Union	SD-UNX
Dewey	SD-DEX	Lyman	SD-LYX	Walworth	SD-WAX
Douglas	SD-DOX	McCook	SD-MCX	Yankton	SD-YAX
Edmunds	SD-EDX	McPherson	SD-MPX	Ziebach	SD-ZBX

EXHIBIT 9: SOUTH DAKOTA COUNTY IDENTIFIERS

<b>Bureau of Indian Affairs</b>		<b>US Forest Service</b>	
Standing Rock Agency	ND-SRA	Black Hills NF	SD-BKF
Winnebago Agency	NE-WBA	Nebraska NF	NE-NBF
Crow Creek Agency	SD-CCA	<b>South Dakota State</b>	
Cheyenne River Agency	SD-CRA	South Dakota	SD-SDS
Lower Brule Agency	SD-LBA	<b>Wyoming Counties</b>	
Pine Ridge Agency	SD-PRA	Crook Co	WY-CRX
Rosebud Agency	SD-RBA	Weston Co	WY-WEX
Sisseton-Wahpeton Agency	SD-SWA	<b>Nebraska State</b>	
Yankton Agency	SD-YAA	Nebraska	NE-NES
<b>National Park Service</b>		<b>National Guard</b>	
Agate Fossil Beds NM	NE-AFP	Nebraska	NE-NNG
Homestead NM	NE-HOP	South Dakota	SD-NNG
Midwest Regional NPS Headquarters	NE-MWP	<b>Bureau of Reclamation</b>	
Scotts Bluff NM	NE-SBP	South Dakota	SD-BOR
Badlands NP	SD-BDP	<b>Veterans Administration</b>	
Jewel Cave NM	SD-JCP	South Dakota	SD-SVAE
Mount Rushmore NM	SD-MRP		
Wind Cave NP	SD-WCP		
Devils Tower NM	WY-DTP	<b>US Geological Survey</b>	
<b>US F&amp;WS</b>		Nebraska	NE-USGS
Crescent Lake NWR	NE-CLR	South Dakota	SD-USGS
Fort Niobrara FNR	NE-FNR	<b>National Weather Service</b>	
North Platte NWR	NE-NPR	Nebraska	NE-WXW
Rainwater Basin WMD	NE-RBR	South Dakota	SD-WXW
Valentine NWR	NE-VAR	<b>Department of Energy</b>	
Huron WMD	SD-HUR	Nebraska	NE-DOE
Lake Andes NWR	SD-LAR	South Dakota	SD-DOE
Lacreek NWR	SD-LCR	<b>Department of Defense</b>	
Madison WMD	SD-MDR	Nebraska	NE-DOD
Sand Lake NWR	SD-SLR	South Dakota	SD-DOD
Waubay NWR	SD-WAR		

EXHIBIT 10: Unit Identifiers

# Exhibit 12:

## Sunrise Sunset Tables, 2016

Time changes 2016: March 13 and Nov 6. Add 1 hour for daylight time when in use.

**Mountain Time zone** Alliance NE, Buffalo SD, Chadron NE, Hot Springs SD, Lemmon SD, Pine Ridge SD, Rapid City SD, and Spearfish SD.

**Central time zone** Aberdeen SD, Mobridge SD, Pierre SD and Valentine NE.

Website for Sunrise Sunset tables:

[http://aa.usno.navy.mil/data/docs/RS\\_OneYear.php#forma](http://aa.usno.navy.mil/data/docs/RS_OneYear.php#forma)

Astronomical Applications Dept.
U. S. Naval Observatory
Washington, DC 20392-5420

ABERDEEN, SOUTH DAKOTA
Rise and Set for the Sun for 2016
Central Standard Time

Location: W098 29, N45 28

Table with columns for months (Jan to Dec) and times (h, m, s) for Day Rise, Set, and Day Length. The table contains 31 rows of data corresponding to each day of the year.

Add one hour for daylight time, if and when in use.

Astronomical Applications Dept.  
U. S. Naval Observatory  
Washington, DC 20392-5420

ALLIANCE, NEBRASKA  
Rise and Set for the Sun for 2016

Mountain Standard Time

Location: W102 52, N42 06

	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set	Rise	Set
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
01	0720	1630	0705	1706	0626	1742	0533	1818	0447	1851	0418	1921	0420	1931	0445	1910	0518	1824	0549	1732	0625	1645	0701	1621
02	0720	1632	0704	1707	0624	1743	0532	1819	0445	1852	0417	1922	0420	1931	0446	1908	0519	1822	0550	1730	0626	1643	0702	1620
03	0720	1633	0703	1708	0622	1745	0530	1820	0444	1853	0417	1923	0421	1931	0447	1907	0520	1821	0551	1729	0627	1642	0703	1620
04	0720	1633	0702	1710	0621	1746	0528	1821	0443	1854	0417	1923	0421	1930	0448	1906	0521	1819	0552	1727	0629	1641	0704	1620
05	0720	1634	0701	1711	0619	1747	0526	1822	0441	1856	0416	1924	0422	1930	0449	1905	0522	1817	0553	1725	0630	1640	0705	1620
06	0720	1635	0659	1712	0618	1748	0525	1823	0440	1857	0416	1925	0423	1930	0450	1903	0523	1816	0555	1724	0631	1639	0706	1620
07	0720	1636	0658	1713	0616	1749	0523	1824	0439	1858	0416	1925	0423	1929	0451	1902	0524	1814	0556	1722	0632	1637	0707	1620
08	0720	1637	0657	1715	0614	1751	0521	1826	0438	1859	0416	1926	0424	1929	0452	1901	0525	1812	0557	1720	0634	1636	0708	1620
09	0719	1638	0656	1716	0613	1752	0520	1827	0437	1900	0415	1927	0425	1929	0454	1900	0526	1810	0558	1719	0635	1635	0708	1620
10	0719	1639	0655	1717	0611	1753	0518	1828	0436	1901	0415	1927	0425	1928	0455	1858	0527	1809	0559	1717	0636	1634	0709	1620
11	0719	1640	0653	1719	0609	1754	0516	1829	0434	1902	0415	1928	0426	1928	0456	1857	0528	1807	0600	1715	0637	1633	0710	1620
12	0719	1641	0652	1720	0608	1755	0515	1830	0433	1903	0415	1928	0427	1927	0457	1855	0529	1805	0601	1714	0639	1632	0711	1620
13	0718	1642	0651	1721	0606	1756	0513	1831	0432	1904	0415	1929	0428	1926	0458	1854	0530	1803	0602	1712	0640	1631	0712	1620
14	0718	1643	0649	1722	0604	1758	0512	1832	0431	1905	0415	1929	0429	1926	0459	1853	0531	1802	0604	1710	0641	1631	0712	1620
15	0717	1645	0648	1724	0602	1759	0510	1833	0430	1906	0415	1929	0429	1925	0500	1851	0532	1800	0605	1709	0642	1630	0713	1621
16	0717	1646	0647	1725	0601	1800	0508	1835	0429	1907	0415	1930	0430	1925	0501	1850	0533	1758	0606	1707	0644	1629	0714	1621
17	0717	1647	0645	1726	0559	1801	0507	1836	0428	1908	0415	1930	0431	1924	0502	1848	0534	1756	0607	1706	0645	1628	0714	1621
18	0716	1648	0644	1728	0557	1802	0505	1837	0427	1909	0415	1930	0432	1923	0503	1847	0535	1755	0608	1704	0646	1627	0715	1622
19	0715	1649	0643	1729	0556	1803	0504	1838	0427	1910	0415	1931	0433	1922	0504	1845	0536	1753	0609	1703	0647	1626	0716	1622
20	0715	1650	0641	1730	0554	1804	0502	1839	0426	1911	0416	1931	0434	1921	0505	1844	0537	1751	0611	1701	0648	1626	0716	1623
21	0714	1652	0640	1731	0552	1805	0501	1840	0425	1912	0416	1931	0435	1921	0506	1842	0538	1749	0612	1700	0650	1625	0717	1623
22	0713	1653	0638	1733	0550	1807	0459	1841	0424	1913	0416	1931	0436	1920	0507	1841	0539	1748	0613	1658	0651	1624	0717	1624
23	0713	1654	0637	1734	0549	1808	0458	1842	0423	1914	0416	1931	0436	1919	0508	1839	0541	1746	0614	1657	0652	1624	0718	1624
24	0712	1655	0635	1735	0547	1809	0456	1843	0423	1915	0417	1931	0437	1918	0509	1837	0542	1744	0615	1655	0653	1623	0718	1625
25	0711	1657	0634	1736	0545	1810	0455	1845	0422	1916	0417	1931	0438	1917	0510	1836	0543	1742	0616	1654	0654	1623	0718	1625
26	0710	1658	0632	1737	0544	1811	0453	1846	0421	1916	0417	1931	0439	1916	0511	1834	0544	1741	0618	1652	0655	1622	0719	1626
27	0710	1659	0630	1739	0542	1812	0452	1847	0421	1917	0418	1931	0440	1915	0512	1832	0545	1739	0619	1651	0656	1622	0719	1627
28	0709	1700	0629	1740	0540	1813	0451	1848	0420	1918	0419	1931	0441	1914	0513	1831	0546	1737	0620	1650	0658	1621	0719	1628
29	0708	1702	0627	1741	0538	1814	0449	1849	0419	1919	0419	1931	0442	1913	0514	1829	0547	1735	0621	1648	0659	1621	0719	1628
30	0707	1703			0537	1816	0448	1850	0419	1920	0419	1931	0443	1912	0515	1828	0548	1734	0623	1647	0700	1621	0720	1629
31	0706	1704			0535	1817			0418	1921			0444	1911	0516	1826			0624	1646			0720	1630

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U. S. Naval Observatory  
Washington, DC 20392-5420

BUFFALO, SOUTH DAKOTA  
Rise and Set for the Sun for 2016  
Mountain Standard Time

Location: W103 32, N45 35  
O, O, O

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.														
	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h									
01	0735	1621	0716	1700	0632	1742	0533	1823	0441	1902	0408	1936	0409	1947	0439	1922	0516	1831	0553	1733	0635	1640	0715	1612	0736	1622	0715	1702	0630	1743	0531	1824	0440	1903	0408	1937	0410	1946	0441	1919	0519	1837	0566	1729	0637	1637	0717	1611
02	0735	1623	0713	1702	0628	1743	0530	1826	0438	1904	0407	1938	0411	1946	0441	1919	0519	1837	0566	1729	0637	1637	0717	1611	0736	1624	0712	1704	0626	1746	0528	1827	0437	1906	0407	1939	0411	1946	0442	1918	0520	1825	0557	1728	0639	1636	0718	1611
03	0734	1625	0711	1706	0624	1747	0526	1828	0435	1907	0406	1940	0412	1945	0443	1916	0521	1833	0568	1726	0640	1638	0719	1611	0734	1626	0710	1707	0622	1749	0524	1830	0434	1908	0404	1943	0413	1945	0444	1915	0522	1821	0562	1633	0720	1610		
04	0734	1626	0708	1709	0621	1750	0522	1831	0433	1909	0406	1941	0413	1944	0446	1913	0523	1820	0601	1722	0643	1632	0721	1610	0734	1628	0707	1710	0619	1751	0520	1832	0431	1911	0405	1942	0414	1944	0447	1912	0525	1818	0602	1720	0645	1631	0722	1610
05	0734	1629	0705	1712	0617	1753	0518	1834	0430	1912	0405	1942	0415	1944	0448	1910	0526	1816	0603	1718	0646	1630	0723	1610	0733	1630	0704	1713	0615	1754	0517	1835	0429	1913	0405	1943	0416	1943	0449	1909	0527	1814	0605	1716	0647	1629	0724	1610
06	0733	1630	0703	1715	0613	1756	0515	1836	0428	1914	0405	1943	0417	1942	0450	1907	0528	1812	0606	1715	0649	1627	0725	1610	0732	1633	0701	1716	0611	1757	0513	1837	0426	1915	0405	1944	0418	1942	0452	1906	0530	1810	0607	1713	0650	1626	0726	1611
07	0732	1634	0700	1718	0609	1758	0511	1839	0425	1917	0405	1944	0418	1941	0453	1904	0531	1808	0609	1711	0651	1625	0727	1611	0731	1635	0658	1719	0608	1800	0509	1840	0424	1918	0405	1945	0419	1940	0454	1902	0532	1806	0610	1709	0653	1624	0727	1611
08	0731	1636	0657	1721	0606	1801	0508	1841	0423	1919	0405	1945	0420	1940	0455	1901	0533	1804	0611	1708	0654	1623	0728	1611	0730	1638	0655	1722	0604	1802	0506	1843	0422	1920	0405	1946	0421	1939	0457	1859	0534	1802	0613	1706	0656	1622	0729	1611
09	0730	1639	0654	1723	0602	1804	0504	1844	0421	1921	0405	1946	0422	1938	0458	1857	0536	1800	0614	1704	0657	1621	0729	1612	0729	1640	0652	1723	0600	1805	0502	1845	0419	1922	0405	1947	0423	1937	0459	1856	0537	1758	0615	1702	0658	1620	0730	1612
10	0729	1642	0650	1726	0558	1806	0501	1846	0418	1924	0405	1946	0424	1936	0450	1854	0538	1756	0617	1701	0700	1619	0731	1612	0728	1643	0649	1728	0556	1807	0459	1848	0417	1925	0405	1947	0425	1935	0501	1852	0539	1754	0618	1659	0701	1618	0731	1613
11	0727	1644	0647	1729	0554	1809	0457	1809	0416	1926	0405	1947	0426	1934	0503	1851	0541	1753	0619	1657	0702	1618	0732	1613	0726	1646	0645	1731	0552	1810	0456	1850	0416	1927	0407	1947	0428	1932	0505	1847	0543	1749	0622	1654	0705	1616	0733	1615
12	0726	1646	0645	1731	0552	1810	0456	1850	0416	1927	0405	1947	0427	1933	0504	1849	0542	1751	0621	1656	0704	1617	0732	1614	0724	1649	0642	1733	0550	1811	0454	1852	0415	1928	0406	1947	0428	1932	0505	1847	0543	1749	0622	1654	0705	1616	0733	1615
13	0725	1649	0642	1733	0549	1813	0452	1853	0414	1929	0406	1947	0429	1931	0506	1845	0544	1747	0623	1652	0706	1615	0733	1616	0723	1650	0640	1735	0547	1814	0451	1854	0413	1930	0406	1947	0431	1930	0508	1844	0546	1745	0623	1651	0707	1615	0733	1616
14	0724	1650	0640	1736	0543	1815	0449	1856	0412	1931	0407	1947	0432	1928	0509	1842	0547	1743	0626	1649	0709	1614	0734	1617	0720	1653	0637	1738	0545	1817	0447	1857	0411	1932	0407	1947	0433	1928	0510	1840	0548	1741	0628	1648	0710	1614	0734	1617
15	0723	1653	0637	1738	0543	1817	0444	1857	0411	1932	0407	1947	0434	1928	0510	1840	0548	1741	0628	1648	0710	1614	0734	1617	0719	1654	0635	1739	0541	1818	0446	1858	0411	1933	0408	1947	0434	1927	0511	1838	0549	1739	0629	1646	0711	1613	0734	1618
16	0723	1654	0635	1740	0539	1819	0443	1859	0410	1934	0408	1947	0435	1926	0512	1836	0551	1737	0630	1645	0712	1613	0734	1618	0718	1657	0633	1740	0537	1821	0444	1859	0409	1947	0436	1924	0514	1835	0552	1735	0632	1643	0714	1612	0734	1620		
17	0719	1656	0633	1740	0537	1821	0443	1901	0409	1935	0409	1947	0437	1923	0515	1833	0633	1642	0633	1642	0715	1613	0735	1621	0735	1658	0633	1740	0535	1822	0409	1936	0407	1943	0437	1923	0515	1833	0633	1642	0715	1613	0735	1621				

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CHADRON, NEBRASKA  
Rise and Set for the Sun for 2016

Mountain Standard Time

Location: W103 00, N42 50

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.		
	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m
01	0723	1628	0707	1705	0627	1742	0533	1819	0445	1853	0416	1924	0418	1934	0444	1912	0517	1825	0550	1732	0627	1644	0704	1619												
02	0723	1629	0706	1706	0625	1743	0531	1820	0444	1854	0416	1925	0418	1934	0445	1911	0518	1824	0551	1731	0628	1642	0705	1619												
03	0723	1630	0705	1707	0624	1745	0530	1821	0443	1856	0415	1926	0419	1934	0446	1910	0520	1820	0552	1729	0629	1641	0706	1618												
04	0723	1631	0704	1708	0622	1746	0528	1822	0442	1857	0415	1926	0419	1933	0447	1908	0520	1820	0553	1727	0631	1640	0707	1618												
05	0723	1632	0703	1710	0620	1747	0526	1823	0440	1858	0414	1927	0420	1933	0448	1907	0522	1819	0554	1725	0632	1639	0708	1618												
06	0723	1633	0701	1711	0619	1748	0525	1823	0439	1859	0414	1928	0421	1933	0449	1906	0523	1817	0556	1724	0633	1638	0709	1618												
07	0723	1634	0700	1712	0617	1750	0523	1826	0438	1900	0414	1928	0421	1932	0450	1904	0524	1815	0557	1722	0635	1636	0710	1618												
08	0722	1635	0659	1714	0615	1751	0521	1827	0437	1901	0414	1929	0422	1932	0451	1903	0525	1813	0558	1720	0636	1635	0710	1618												
09	0722	1636	0658	1715	0613	1752	0519	1828	0435	1902	0413	1930	0423	1932	0452	1902	0526	1811	0559	1718	0637	1634	0711	1618												
10	0722	1637	0657	1716	0612	1753	0518	1829	0434	1903	0413	1930	0424	1931	0453	1900	0527	1810	0600	1717	0638	1633	0712	1618												
11	0722	1638	0655	1719	0610	1754	0516	1830	0433	1904	0413	1931	0424	1931	0453	1859	0528	1808	0601	1715	0640	1632	0713	1618												
12	0721	1639	0654	1719	0608	1756	0514	1832	0432	1905	0413	1931	0425	1930	0456	1857	0529	1806	0602	1713	0641	1631	0714	1618												
13	0721	1641	0653	1720	0607	1757	0513	1833	0431	1907	0413	1932	0426	1929	0457	1856	0530	1804	0604	1712	0642	1630	0715	1618												
14	0721	1642	0651	1722	0605	1758	0511	1834	0430	1908	0413	1932	0427	1929	0458	1855	0531	1803	0605	1710	0643	1629	0715	1618												
15	0720	1643	0650	1723	0603	1759	0510	1835	0429	1909	0413	1932	0428	1928	0459	1853	0532	1801	0606	1709	0645	1628	0716	1619												
16	0720	1644	0648	1724	0601	1800	0508	1836	0428	1910	0413	1933	0428	1927	0500	1852	0533	1759	0607	1707	0646	1627	0717	1619												
17	0719	1645	0647	1726	0600	1801	0506	1837	0427	1911	0413	1933	0429	1927	0501	1850	0534	1757	0608	1705	0647	1627	0717	1619												
18	0719	1647	0646	1727	0558	1803	0505	1838	0426	1912	0413	1933	0430	1926	0502	1848	0536	1755	0610	1704	0648	1626	0718	1620												
19	0718	1648	0644	1730	0556	1804	0503	1840	0425	1913	0413	1934	0431	1924	0503	1847	0537	1754	0611	1702	0650	1625	0719	1621												
20	0717	1649	0643	1730	0554	1805	0502	1841	0424	1914	0414	1934	0432	1924	0504	1844	0538	1752	0612	1701	0651	1624	0719	1621												
21	0717	1650	0641	1731	0553	1806	0500	1842	0423	1915	0414	1934	0433	1923	0505	1844	0539	1750	0613	1659	0652	1624	0720	1621												
22	0716	1652	0640	1732	0551	1807	0499	1843	0422	1916	0414	1934	0434	1922	0506	1842	0540	1748	0614	1658	0653	1623	0720	1622												
23	0715	1653	0638	1733	0549	1808	0497	1844	0422	1917	0414	1934	0435	1922	0508	1841	0541	1746	0616	1656	0655	1622	0721	1622												
24	0714	1654	0636	1735	0547	1810	0495	1845	0421	1917	0415	1935	0436	1921	0509	1839	0542	1745	0617	1655	0656	1622	0721	1623												
25	0714	1655	0635	1736	0545	1811	0494	1846	0420	1918	0415	1935	0437	1920	0510	1837	0543	1743	0618	1653	0657	1621	0721	1624												
26	0713	1657	0633	1737	0544	1812	0493	1848	0419	1919	0415	1935	0438	1919	0511	1836	0545	1741	0619	1652	0658	1621	0722	1624												
27	0712	1658	0632	1738	0542	1813	0491	1849	0419	1920	0416	1935	0439	1918	0512	1834	0546	1739	0621	1650	0659	1620	0722	1625												
28	0711	1659	0630	1740	0540	1814	0490	1850	0418	1921	0416	1935	0440	1916	0513	1832	0547	1738	0622	1649	0700	1620	0722	1626												
29	0710	1701	0628	1741	0538	1815	0488	1851	0418	1922	0417	1934	0441	1915	0514	1831	0548	1736	0623	1648	0701	1619	0722	1626												
30	0709	1702	0627	1742	0537	1817	0447	1852	0417	1923	0417	1934	0442	1914	0515	1829	0549	1734	0624	1646	0702	1619	0723	1627												
31	0708	1703	0626	1743	0535	1818	0416	1924	0416	1924	0416	1924	0443	1913	0516	1827	0626	1645																		

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Washington, DC 20392-5420

CUSTER, SOUTH DAKOTA  
Rise and Set for the Sun for 2016  
Mountain Standard Time

Location: W103 35, N43 46

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.					
	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h
01	0728	1627	0712	1705	0628	1744	0535	1822	0446	1858	0415	1930	0417	1940	0444	1917	0519	1829	0553	1734	0631	1644	0709	1618															
02	0728	1628	0710	1706	0628	1745	0533	1823	0444	1859	0415	1931	0417	1940	0445	1916	0520	1827	0554	1732	0632	1643	0710	1618															
03	0728	1629	0709	1707	0627	1746	0531	1824	0443	1890	0414	1931	0418	1939	0446	1914	0521	1825	0555	1731	0634	1642	0711	1618															
04	0728	1630	0708	1709	0625	1748	0530	1826	0442	1901	0414	1932	0418	1939	0447	1913	0522	1824	0556	1729	0635	1640	0712	1617															
05	0728	1631	0707	1710	0623	1749	0528	1827	0440	1902	0413	1933	0419	1939	0448	1912	0523	1822	0557	1727	0636	1639	0713	1617															
06	0728	1632	0706	1712	0621	1750	0526	1828	0439	1904	0413	1934	0420	1938	0449	1910	0524	1820	0559	1725	0638	1638	0714	1617															
07	0728	1633	0705	1713	0620	1751	0524	1829	0438	1905	0413	1934	0420	1938	0450	1909	0525	1818	0560	1724	0639	1637	0715	1617															
08	0728	1634	0703	1714	0618	1753	0523	1830	0436	1906	0413	1935	0421	1938	0452	1908	0526	1816	0561	1722	0640	1635	0716	1617															
09	0728	1635	0702	1716	0616	1754	0521	1832	0435	1907	0412	1935	0422	1937	0453	1906	0528	1815	0562	1720	0642	1634	0717	1617															
10	0727	1637	0701	1717	0614	1755	0519	1833	0434	1908	0412	1936	0423	1937	0454	1905	0529	1813	0563	1718	0643	1633	0718	1617															
11	0727	1638	0659	1718	0613	1756	0517	1834	0433	1909	0412	1937	0423	1936	0455	1903	0530	1811	0565	1717	0644	1632	0719	1617															
12	0727	1639	0658	1720	0611	1758	0516	1835	0432	1910	0412	1937	0424	1935	0456	1902	0531	1809	0566	1715	0646	1631	0719	1617															
13	0726	1640	0657	1721	0609	1759	0514	1836	0431	1912	0412	1937	0425	1935	0457	1900	0532	1807	0567	1713	0647	1630	0720	1617															
14	0726	1641	0655	1723	0607	1800	0512	1838	0429	1913	0412	1938	0426	1934	0458	1859	0533	1805	0568	1712	0648	1629	0721	1618															
15	0725	1642	0654	1724	0606	1801	0511	1839	0428	1914	0412	1938	0427	1934	0459	1857	0534	1804	0569	1710	0650	1628	0722	1618															
16	0725	1644	0652	1725	0604	1803	0509	1840	0427	1915	0412	1939	0428	1933	0500	1856	0535	1802	0561	1708	0651	1627	0723	1618															
17	0724	1645	0651	1727	0602	1804	0507	1841	0426	1916	0412	1939	0429	1932	0502	1854	0537	1800	0562	1707	0652	1626	0723	1619															
18	0724	1646	0649	1728	0600	1805	0506	1842	0425	1917	0412	1939	0430	1931	0503	1853	0538	1758	0563	1705	0653	1626	0724	1619															
19	0724	1647	0648	1729	0558	1806	0504	1844	0424	1918	0412	1940	0430	1930	0504	1851	0539	1756	0564	1703	0655	1625	0724	1619															
20	0722	1649	0646	1731	0557	1807	0502	1845	0423	1919	0412	1940	0431	1930	0505	1849	0540	1754	0566	1702	0656	1624	0725	1620															
21	0722	1650	0645	1732	0555	1809	0501	1846	0423	1920	0413	1940	0432	1929	0506	1848	0541	1753	0567	1700	0657	1623	0725	1620															
22	0721	1651	0643	1733	0553	1810	0459	1847	0422	1921	0413	1940	0433	1928	0507	1846	0542	1751	0568	1659	0658	1623	0726	1621															
23	0720	1653	0642	1735	0551	1811	0458	1848	0421	1922	0413	1940	0434	1927	0508	1844	0543	1749	0569	1657	0700	1622	0726	1621															
24	0719	1654	0640	1736	0549	1812	0456	1849	0420	1923	0413	1940	0435	1926	0509	1843	0544	1747	0570	1656	0701	1621	0727	1622															
25	0718	1655	0638	1737	0548	1813	0455	1851	0419	1924	0414	1940	0436	1925	0511	1841	0546	1745	0572	1654	0702	1621	0727	1623															
26	0718	1657	0637	1739	0546	1815	0453	1852	0419	1925	0414	1940	0437	1924	0512	1839	0547	1743	0573	1653	0703	1620	0727	1623															
27	0717	1658	0635	1740	0544	1816	0452	1853	0418	1926	0414	1940	0438	1923	0513	1838	0548	1742	0574	1651	0704	1620	0728	1624															
28	0716	1659	0633	1741	0542	1817	0450	1854	0417	1927	0415	1940	0440	1921	0514	1836	0549	1740	0575	1650	0706	1619	0728	1625															
29	0715	1701	0632	1742	0540	1818	0449	1855	0417	1927	0416	1940	0441	1920	0515	1834	0550	1738	0576	1647	0707	1619	0728	1626															
30	0714	1702	0631	1743	0538	1820	0448	1857	0416	1928	0416	1940	0442	1919	0516	1832	0551	1736	0578	1648	0708	1618	0728	1627															
31	0713	1703	0630	1744	0537	1821	0447	1858	0415	1929	0416	1940	0443	1918	0517	1831	0552	1735	0579	1649	0709	1617	0729	1628															

Add one hour for daylight time, if and when in use.

Astronomical Applications Dept.  
U. S. Naval Observatory  
Washington, DC 20392-5420

HOT SPRINGS, SOUTH DAKOTA  
Rise and Set for the Sun for 2016

Mountain Standard Time

Location: M103 28, N43 26

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.		
	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m			
01	0727	1828	0710	1705	0629	1744	0535	1821	0446	1857	0416	1928	0417	1938	0444	1915	0518	1828	0552	1734	0630	1644	0707	1619	0631	1643	0708	1618	0631	1643	0708	1618				
02	0727	1829	0709	1706	0628	1745	0533	1822	0445	1858	0415	1929	0418	1938	0445	1914	0520	1826	0554	1732	0632	1642	0709	1618	0632	1642	0709	1618	0632	1642	0709	1618				
03	0727	1830	0708	1708	0626	1746	0531	1824	0443	1859	0414	1930	0418	1938	0446	1913	0521	1825	0555	1730	0633	1642	0711	1618	0633	1642	0711	1618	0633	1642	0711	1618				
04	0727	1831	0707	1709	0624	1747	0529	1825	0442	1900	0414	1931	0419	1937	0447	1912	0522	1823	0555	1729	0634	1641	0711	1618	0634	1641	0711	1618	0634	1641	0711	1618				
05	0727	1832	0706	1710	0623	1749	0528	1826	0441	1901	0414	1931	0420	1937	0449	1910	0523	1821	0557	1727	0635	1639	0712	1618	0635	1639	0712	1618	0635	1639	0712	1618				
06	0727	1833	0705	1712	0621	1750	0526	1827	0439	1902	0414	1932	0420	1937	0450	1909	0524	1819	0558	1725	0637	1638	0712	1618	0637	1638	0712	1618	0637	1638	0712	1618				
07	0726	1834	0703	1713	0619	1751	0524	1828	0438	1903	0413	1933	0421	1936	0451	1908	0525	1817	0559	1723	0638	1637	0713	1618	0638	1637	0713	1618	0638	1637	0713	1618				
08	0726	1835	0702	1714	0617	1752	0522	1829	0437	1903	0413	1933	0422	1936	0452	1906	0526	1816	0600	1722	0639	1636	0714	1618	0639	1636	0714	1618	0639	1636	0714	1618				
09	0726	1836	0701	1716	0616	1754	0521	1831	0436	1906	0413	1934	0423	1936	0453	1905	0527	1814	0601	1720	0640	1635	0715	1618	0640	1635	0715	1618	0640	1635	0715	1618				
10	0726	1837	0700	1717	0614	1755	0519	1832	0434	1907	0413	1934	0423	1935	0454	1903	0528	1812	0603	1718	0642	1634	0716	1618	0642	1634	0716	1618	0642	1634	0716	1618				
11	0725	1838	0688	1719	0612	1756	0517	1833	0433	1908	0413	1935	0424	1934	0455	1902	0530	1810	0604	1716	0643	1633	0717	1618	0643	1633	0717	1618	0643	1633	0717	1618				
12	0725	1839	0687	1720	0610	1757	0516	1834	0432	1909	0413	1935	0425	1934	0456	1901	0531	1808	0605	1715	0644	1631	0718	1618	0644	1631	0718	1618	0644	1631	0718	1618				
13	0725	1841	0686	1721	0609	1758	0514	1835	0431	1910	0413	1936	0426	1933	0457	1859	0532	1807	0606	1713	0646	1631	0719	1618	0646	1631	0719	1618	0646	1631	0719	1618				
14	0724	1842	0684	1723	0607	1800	0512	1837	0430	1911	0413	1936	0427	1933	0458	1858	0533	1805	0607	1711	0647	1630	0719	1618	0647	1630	0719	1618	0647	1630	0719	1618				
15	0724	1843	0683	1724	0605	1801	0511	1838	0429	1912	0413	1937	0427	1932	0500	1856	0534	1803	0609	1710	0648	1629	0720	1619	0648	1628	0721	1619	0648	1628	0721	1619				
16	0723	1844	0681	1725	0603	1802	0509	1839	0428	1913	0413	1937	0428	1931	0501	1855	0535	1801	0610	1708	0649	1628	0721	1619	0649	1628	0721	1619	0649	1628	0721	1619				
17	0723	1845	0680	1727	0601	1803	0507	1840	0427	1914	0413	1937	0429	1930	0502	1853	0536	1759	0611	1707	0651	1627	0721	1619	0651	1627	0721	1619	0651	1627	0721	1619				
18	0722	1847	0678	1728	0600	1805	0506	1841	0426	1915	0413	1938	0430	1930	0503	1851	0537	1757	0612	1705	0652	1626	0722	1620	0652	1626	0722	1620	0652	1626	0722	1620				
19	0722	1848	0677	1729	0598	1806	0504	1842	0425	1916	0413	1938	0431	1929	0504	1850	0538	1756	0613	1703	0653	1625	0723	1620	0653	1625	0723	1620	0653	1625	0723	1620				
20	0721	1849	0676	1731	0596	1807	0502	1844	0424	1917	0413	1938	0432	1928	0505	1848	0540	1754	0614	1702	0654	1624	0723	1620	0654	1624	0723	1620	0654	1624	0723	1620				
21	0720	1850	0674	1732	0594	1808	0501	1845	0423	1918	0413	1938	0433	1927	0506	1847	0541	1752	0615	1700	0656	1624	0724	1621	0656	1624	0724	1621	0656	1624	0724	1621				
22	0720	1852	0672	1733	0593	1809	0499	1846	0422	1919	0414	1938	0434	1926	0507	1845	0542	1750	0617	1659	0657	1623	0724	1621	0657	1623	0724	1621	0657	1623	0724	1621				
23	0719	1853	0671	1735	0591	1811	0498	1847	0421	1920	0414	1939	0435	1925	0508	1843	0543	1748	0618	1657	0658	1622	0725	1622	0658	1622	0725	1622	0658	1622	0725	1622				
24	0718	1854	0669	1736	0589	1812	0496	1848	0421	1921	0414	1939	0436	1924	0510	1842	0544	1747	0620	1656	0659	1622	0725	1622	0659	1622	0725	1622	0659	1622	0725	1622				
25	0717	1856	0667	1737	0587	1813	0495	1850	0420	1922	0415	1939	0437	1923	0511	1840	0545	1745	0621	1654	0701	1621	0725	1623	0701	1621	0725	1623	0701	1621	0725	1623				
26	0716	1857	0666	1738	0585	1814	0493	1851	0419	1923	0415	1939	0438	1922	0512	1838	0546	1743	0622	1653	0702	1621	0726	1624	0702	1621	0726	1624	0702	1621	0726	1624				
27	0715	1858	0664	1740	0584	1815	0492	1852	0418	1924	0415	1939	0439	1921	0513	1837	0547	1741	0623	1651	0703	1620	0726	1625	0703	1620	0726	1625	0703	1620	0726	1625				
28	0714	1700	0663	1741	0582	1816	0490	1853	0418	1925	0416	1939	0440	1920	0514	1835	0549	1739	0625	1650	0704	1620	0726	1626	0704	1620	0726	1626	0704	1620	0726	1626				
29	0713	1701	0661	1742	0580	1818	0489	1854	0417	1926	0416	1939	0441	1919	0515	1833	0550	1737	0626	1648	0705	1619	0726	1626	0705	1619	0726	1626	0705	1619	0726	1626				
30	0712	1702	0659	1743	0578	1819	0487	1855	0417	1927	0417	1938	0442	1918	0516	1832	0551	1736	0627	1647	0706	1619	0727	1627	0706	1619	0727	1627	0706	1619	0727	1627				
31	0711	1704	0657	1744	0576	1820	0486	1856	0416	1927	0417	1938	0443	1917	0517	1830	0551	1735	0628	1646	0707	1619	0727	1627	0707	1619	0727	1627	0707	1619	0727	1627				

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Astronomical Applications Dept.  
U. S. Naval Observatory  
Washington, DC 20392-5420

LEMMON, SOUTH DAKOTA  
Rise and Set for the Sun for 2016

Mountain Standard Time

Location: M102 10, N45 56

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.				
	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set
01	0730	1614	0711	1654	0626	1736	0528	1818	0435	1857	0401	1932	0402	1943	0432	1917	0510	1826	0548	1728	0630	1634	0710	1605														
02	0730	1615	0710	1655	0625	1737	0526	1819	0433	1859	0401	1933	0403	1942	0433	1916	0511	1824	0549	1726	0631	1633	0712	1605														
03	0730	1616	0709	1657	0623	1739	0524	1821	0432	1901	0400	1934	0404	1942	0434	1914	0513	1822	0550	1724	0633	1631	0713	1604														
04	0730	1618	0708	1658	0621	1740	0522	1822	0430	1901	0400	1935	0404	1942	0436	1914	0514	1820	0552	1722	0634	1630	0714	1604														
05	0730	1618	0706	1700	0619	1742	0520	1823	0429	1902	0359	1935	0405	1941	0437	1912	0515	1818	0553	1720	0636	1628	0715	1604														
06	0730	1619	0705	1701	0617	1743	0518	1824	0428	1904	0359	1936	0406	1941	0438	1910	0516	1816	0554	1718	0637	1627	0716	1604														
07	0730	1620	0704	1703	0615	1744	0516	1826	0426	1905	0359	1937	0406	1940	0439	1909	0518	1814	0556	1716	0638	1626	0717	1604														
08	0730	1621	0702	1704	0613	1746	0514	1827	0425	1906	0358	1938	0407	1940	0440	1907	0519	1812	0557	1714	0640	1624	0718	1604														
09	0729	1622	0701	1706	0612	1747	0512	1828	0424	1907	0358	1938	0408	1939	0442	1906	0520	1810	0558	1712	0641	1623	0719	1604														
10	0729	1624	0659	1707	0610	1749	0511	1830	0422	1909	0358	1939	0409	1939	0443	1904	0521	1809	0560	1711	0643	1622	0720	1604														
11	0729	1625	0658	1708	0608	1750	0509	1831	0421	1910	0358	1939	0410	1938	0444	1903	0523	1807	0601	1709	0644	1621	0721	1604														
12	0728	1626	0656	1710	0606	1751	0507	1832	0420	1911	0358	1940	0411	1938	0445	1901	0524	1805	0602	1707	0646	1620	0722	1604														
13	0728	1627	0655	1711	0604	1753	0505	1834	0418	1912	0358	1940	0412	1937	0447	1859	0525	1803	0604	1705	0647	1619	0722	1604														
14	0727	1628	0653	1713	0602	1754	0503	1835	0417	1913	0358	1941	0412	1936	0448	1858	0526	1801	0605	1703	0648	1618	0723	1604														
15	0727	1630	0652	1714	0600	1755	0502	1836	0416	1915	0358	1941	0413	1935	0449	1856	0529	1759	0606	1702	0651	1617	0724	1604														
16	0726	1631	0650	1716	0598	1757	0500	1838	0415	1916	0358	1942	0414	1935	0450	1854	0529	1751	0608	1700	0651	1615	0725	1604														
17	0725	1632	0649	1717	0596	1758	0498	1839	0414	1917	0358	1942	0415	1934	0452	1853	0530	1755	0609	1658	0653	1615	0725	1605														
18	0725	1634	0647	1719	0594	1759	0496	1840	0413	1918	0358	1942	0416	1933	0453	1851	0531	1753	0610	1656	0654	1614	0726	1605														
19	0724	1635	0645	1720	0593	1801	0495	1842	0412	1919	0358	1942	0417	1932	0454	1849	0534	1749	0612	1655	0655	1613	0727	1606														
20	0723	1636	0644	1722	0591	1802	0493	1843	0411	1920	0358	1943	0418	1931	0455	1848	0534	1749	0613	1653	0657	1612	0727	1606														
21	0722	1638	0642	1723	0589	1803	0491	1844	0410	1921	0358	1943	0419	1930	0456	1846	0534	1747	0614	1651	0658	1611	0728	1607														
22	0722	1639	0640	1725	0587	1805	0489	1846	0409	1923	0359	1943	0421	1929	0458	1844	0536	1745	0616	1650	0659	1610	0728	1607														
23	0721	1641	0639	1726	0585	1806	0488	1847	0408	1924	0359	1943	0422	1928	0459	1842	0538	1743	0617	1648	0701	1610	0729	1608														
24	0720	1642	0637	1727	0583	1807	0486	1848	0407	1925	0359	1943	0423	1927	0500	1841	0539	1741	0619	1646	0702	1609	0729	1608														
25	0719	1643	0635	1729	0581	1809	0484	1849	0406	1926	0359	1943	0424	1926	0501	1839	0540	1739	0620	1645	0703	1608	0729	1609														
26	0718	1645	0634	1730	0579	1810	0483	1851	0405	1927	0400	1943	0425	1925	0503	1837	0541	1737	0621	1643	0704	1608	0730	1610														
27	0717	1646	0632	1732	0577	1811	0481	1852	0405	1928	0400	1943	0426	1923	0504	1835	0543	1735	0623	1641	0706	1607	0730	1610														
28	0716	1648	0630	1733	0575	1813	0480	1853	0404	1929	0401	1943	0427	1922	0505	1833	0544	1733	0624	1640	0707	1606	0730	1611														
29	0715	1649	0628	1735	0573	1814	0478	1855	0403	1930	0401	1943	0428	1921	0506	1831	0545	1731	0626	1638	0708	1606	0730	1612														
30	0714	1650	0626	1736	0571	1815	0476	1856	0403	1930	0402	1943	0430	1920	0508	1830	0546	1730	0628	1637	0709	1605	0730	1613														
31	0712	1652			0529	1817			0402	1931			0431	1918	0509	1828			0628	1635																		

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U. S. Naval Observatory  
Washington, DC 20392-5420

PINE RIDGE, SOUTH DAKOTA  
Rise and Set for the Sun for 2016  
Mountain Standard Time

Location: W102 33, N43 01

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.				
	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h	Rise	Set	h		
01	0722	1626	0706	1702	0625	1740	0531	1817	0443	1852	0414	1923	0415	1933	0442	1911	0515	1824	0548	1730	0625	1642	0702	1616														
02	0722	1627	0705	1704	0624	1741	0530	1818	0442	1853	0413	1924	0416	1933	0443	1909	0516	1822	0549	1727	0627	1640	0703	1616														
03	0722	1628	0704	1703	0623	1743	0528	1820	0441	1854	0413	1925	0416	1933	0444	1908	0517	1819	0552	1725	0629	1638	0705	1616														
04	0722	1629	0702	1706	0620	1744	0526	1821	0439	1855	0413	1925	0417	1932	0445	1907	0518	1819	0552	1725	0629	1638	0705	1616														
05	0722	1630	0701	1708	0619	1745	0524	1822	0438	1856	0412	1926	0418	1932	0446	1906	0520	1817	0553	1723	0631	1637	0706	1616														
06	0722	1631	0700	1709	0617	1746	0523	1823	0437	1858	0412	1927	0418	1932	0447	1904	0521	1815	0554	1722	0632	1635	0707	1615														
07	0721	1632	0659	1710	0615	1748	0521	1824	0435	1859	0411	1927	0419	1931	0448	1903	0522	1813	0555	1720	0633	1634	0708	1615														
08	0721	1633	0658	1712	0613	1749	0519	1825	0434	1900	0411	1928	0420	1930	0449	1902	0523	1812	0556	1718	0634	1633	0709	1615														
09	0721	1634	0656	1713	0612	1750	0517	1826	0433	1901	0411	1929	0420	1930	0450	1900	0524	1810	0557	1717	0636	1632	0710	1615														
10	0721	1635	0655	1714	0610	1751	0516	1828	0432	1902	0411	1929	0421	1930	0451	1859	0525	1808	0559	1715	0637	1631	0711	1615														
11	0720	1636	0654	1716	0608	1753	0514	1829	0431	1903	0411	1930	0422	1929	0452	1857	0526	1806	0600	1712	0638	1630	0712	1615														
12	0720	1637	0652	1717	0607	1754	0512	1830	0430	1904	0410	1930	0423	1929	0453	1856	0527	1804	0601	1711	0640	1629	0713	1616														
13	0720	1638	0651	1718	0605	1755	0511	1831	0428	1905	0410	1931	0423	1928	0455	1855	0528	1803	0602	1710	0641	1628	0713	1616														
14	0719	1639	0650	1720	0603	1756	0509	1832	0427	1906	0410	1931	0424	1928	0456	1853	0529	1801	0603	1708	0642	1627	0714	1616														
15	0719	1641	0648	1721	0601	1757	0507	1833	0426	1907	0410	1931	0425	1927	0457	1852	0530	1759	0604	1707	0643	1626	0715	1616														
16	0718	1642	0647	1722	0600	1758	0506	1835	0425	1908	0410	1932	0426	1926	0458	1850	0532	1757	0606	1705	0645	1625	0716	1617														
17	0718	1643	0645	1724	0558	1800	0504	1836	0424	1909	0411	1932	0427	1925	0459	1849	0533	1755	0607	1703	0646	1624	0716	1617														
18	0717	1644	0644	1725	0556	1801	0503	1837	0423	1910	0411	1932	0428	1925	0500	1844	0534	1754	0609	1702	0647	1623	0717	1617														
19	0717	1645	0643	1726	0554	1802	0502	1838	0423	1911	0411	1932	0429	1924	0501	1845	0535	1752	0609	1700	0648	1623	0717	1617														
20	0716	1647	0641	1727	0552	1803	0459	1839	0422	1912	0411	1933	0430	1923	0502	1844	0536	1750	0610	1659	0650	1622	0718	1618														
21	0715	1648	0640	1729	0551	1804	0458	1840	0421	1913	0411	1933	0431	1922	0503	1842	0537	1748	0612	1657	0651	1621	0719	1619														
22	0715	1649	0638	1730	0549	1806	0456	1842	0420	1914	0411	1933	0432	1921	0504	1841	0538	1746	0613	1656	0652	1621	0719	1619														
23	0714	1650	0636	1731	0547	1807	0455	1843	0419	1915	0412	1933	0432	1920	0505	1839	0539	1745	0614	1654	0653	1620	0719	1620														
24	0714	1652	0635	1733	0545	1808	0453	1844	0418	1916	0412	1933	0433	1919	0506	1837	0540	1743	0615	1653	0654	1619	0720	1620														
25	0712	1653	0633	1734	0544	1809	0452	1845	0418	1917	0412	1933	0434	1918	0508	1836	0541	1741	0617	1651	0656	1619	0720	1621														
26	0711	1654	0632	1735	0542	1810	0450	1846	0417	1918	0413	1933	0435	1917	0509	1834	0544	1739	0618	1650	0657	1618	0721	1622														
27	0711	1656	0630	1736	0540	1811	0449	1847	0416	1919	0413	1933	0436	1916	0510	1832	0548	1738	0619	1648	0658	1618	0721	1622														
28	0710	1657	0628	1738	0538	1813	0447	1848	0415	1920	0414	1933	0437	1915	0511	1831	0545	1736	0620	1647	0659	1617	0721	1623														
29	0709	1658	0627	1739	0537	1814	0446	1850	0415	1921	0414	1933	0439	1914	0512	1829	0546	1734	0622	1646	0700	1617	0721	1624														
30	0708	1700	0535	1815	0445	1851	0445	1851	0415	1922	0415	1933	0440	1913	0513	1827	0547	1732	0623	1644	0701	1617	0721	1625														
31	0707	1701	0533	1816	0444	1852	0444	1852	0414	1922	0414	1932	0441	1912	0514	1826	0624	1643	0624	1643																		

Add one hour for daylight time, if and when in use.



Astronomical Applications Dept.  
U. S. Naval Observatory  
Washington, DC 20392-5420

RAPID CITY, SOUTH DAKOTA  
Rise and Set for the Sun for 2016

Location: N103 14, N44 04

Mountain Standard Time

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.					
	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m			
01	0728	1625	0711	1703	0629	1742	0533	1821	0444	1857	0413	1930	0414	1940	0442	1916	0517	1828	0551	1733	0630	1642	0708	1616															
02	0728	1626	0710	1704	0627	1743	0531	1822	0442	1858	0412	1930	0415	1939	0443	1915	0518	1826	0552	1731	0632	1641	0710	1615															
03	0728	1627	0709	1705	0625	1745	0530	1823	0441	1859	0412	1931	0415	1939	0443	1914	0519	1824	0554	1729	0633	1640	0711	1615															
04	0728	1628	0707	1707	0624	1746	0528	1824	0439	1901	0411	1932	0416	1939	0445	1912	0520	1822	0555	1727	0634	1638	0712	1615															
05	0728	1628	0706	1707	0622	1747	0526	1826	0438	1902	0411	1933	0416	1939	0446	1911	0521	1821	0556	1725	0636	1637	0713	1615															
06	0728	1630	0705	1709	0620	1748	0524	1827	0437	1903	0411	1933	0417	1938	0447	1910	0522	1819	0557	1724	0637	1636	0714	1615															
07	0728	1631	0704	1711	0618	1750	0523	1828	0436	1904	0410	1934	0418	1938	0448	1908	0524	1817	0558	1722	0638	1635	0715	1615															
08	0727	1632	0702	1712	0617	1751	0521	1829	0434	1905	0410	1935	0419	1937	0449	1907	0525	1815	0559	1720	0640	1633	0716	1615															
09	0727	1633	0701	1714	0615	1752	0519	1830	0433	1906	0410	1935	0419	1937	0450	1905	0526	1813	0601	1718	0641	1632	0716	1615															
10	0727	1634	0700	1715	0613	1754	0517	1832	0432	1908	0410	1936	0420	1936	0452	1904	0527	1811	0602	1717	0642	1631	0717	1615															
11	0727	1635	0658	1716	0611	1755	0516	1833	0431	1909	0409	1936	0421	1936	0453	1902	0528	1810	0603	1715	0644	1630	0718	1615															
12	0726	1636	0657	1718	0610	1756	0514	1834	0429	1910	0409	1937	0422	1935	0454	1901	0529	1808	0605	1713	0645	1629	0719	1615															
13	0726	1638	0656	1719	0608	1757	0512	1835	0428	1911	0409	1937	0423	1934	0455	1859	0530	1806	0606	1711	0646	1628	0720	1615															
14	0725	1639	0654	1721	0606	1759	0510	1837	0427	1912	0409	1938	0423	1934	0456	1858	0532	1804	0607	1710	0648	1627	0721	1615															
15	0725	1640	0653	1722	0604	1800	0509	1838	0426	1913	0409	1938	0424	1933	0457	1856	0533	1802	0608	1708	0649	1626	0721	1615															
16	0724	1641	0651	1723	0602	1801	0507	1839	0425	1914	0409	1938	0425	1932	0458	1855	0534	1800	0610	1706	0650	1625	0722	1616															
17	0724	1643	0650	1725	0601	1802	0505	1840	0424	1915	0409	1939	0426	1932	0500	1853	0535	1759	0611	1705	0651	1624	0723	1616															
18	0723	1644	0648	1726	0559	1804	0504	1841	0423	1916	0409	1939	0427	1931	0501	1852	0536	1757	0612	1703	0653	1623	0723	1616															
19	0722	1645	0647	1727	0557	1805	0502	1843	0422	1917	0410	1939	0428	1930	0502	1850	0537	1755	0613	1702	0654	1623	0724	1617															
20	0722	1646	0645	1729	0555	1806	0500	1844	0421	1918	0410	1940	0429	1928	0503	1848	0538	1753	0615	1700	0655	1622	0725	1618															
21	0721	1648	0644	1730	0553	1807	0459	1845	0420	1919	0410	1940	0430	1928	0504	1847	0540	1751	0616	1658	0657	1621	0725	1618															
22	0720	1649	0642	1731	0551	1808	0457	1846	0419	1920	0410	1940	0431	1927	0505	1845	0541	1749	0617	1657	0658	1620	0725	1618															
23	0720	1650	0641	1733	0550	1810	0456	1847	0419	1921	0411	1940	0432	1926	0506	1843	0542	1747	0618	1655	0659	1620	0726	1619															
24	0719	1652	0639	1734	0548	1811	0454	1849	0418	1922	0411	1940	0433	1925	0508	1842	0543	1746	0620	1654	0700	1619	0726	1619															
25	0718	1653	0637	1735	0546	1812	0453	1850	0417	1923	0411	1940	0434	1924	0509	1840	0544	1744	0621	1652	0701	1618	0727	1620															
26	0717	1654	0636	1737	0544	1813	0451	1851	0416	1924	0412	1940	0435	1923	0510	1838	0545	1742	0622	1651	0703	1618	0727	1621															
27	0716	1656	0634	1738	0542	1815	0449	1852	0415	1925	0412	1940	0436	1922	0511	1837	0547	1740	0623	1649	0704	1617	0727	1622															
28	0715	1657	0632	1739	0541	1816	0448	1853	0414	1926	0412	1940	0437	1921	0512	1835	0548	1736	0625	1648	0705	1617	0727	1622															
29	0714	1658	0631	1741	0539	1817	0447	1855	0413	1927	0413	1940	0438	1920	0513	1833	0549	1736	0626	1646	0706	1616	0728	1623															
30	0713	1700	0630	1742	0537	1818	0445	1856	0414	1928	0413	1940	0439	1919	0514	1831	0550	1735	0628	1645	0707	1616	0728	1624															
31	0712	1701	0630	1743	0535	1819	0443	1859	0413	1929	0413	1940	0440	1917	0516	1830	0629	1644	0629	1644	0707	1616	0728	1625															

Add one hour for daylight time, if and when in use.

Astronomical Applications Dept.  
U. S. Naval Observatory  
Washington, DC 20392-5420

SPEARISH, SOUTH DAKOTA  
Rise and Set for the Sun for 2016

Mountain Standard Time

Location: W103 52, N44 29

Day	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.				
	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m	Rise	Set	h m		
01	0732	1626	0714	1704	0632	1744	0535	1824	0445	1901	0414	1934	0415	1944	0443	1920	0519	1831	0554	1735	0634	1644	0712	1617														
02	0732	1627	0713	1705	0630	1745	0534	1825	0444	1902	0413	1934	0416	1943	0444	1919	0520	1829	0555	1733	0633	1642	0713	1617														
03	0732	1628	0712	1707	0628	1747	0532	1826	0442	1903	0412	1935	0416	1943	0445	1917	0521	1827	0556	1731	0632	1641	0715	1616														
04	0732	1629	0711	1708	0627	1748	0530	1827	0441	1904	0411	1936	0417	1943	0446	1916	0522	1825	0558	1730	0633	1640	0716	1616														
05	0732	1630	0710	1710	0625	1749	0528	1829	0440	1905	0410	1937	0417	1943	0447	1915	0523	1824	0559	1728	0634	1639	0717	1616														
06	0732	1631	0708	1711	0623	1751	0526	1830	0438	1907	0411	1937	0418	1942	0449	1913	0525	1822	0559	1726	0640	1637	0718	1616														
07	0732	1632	0707	1713	0621	1752	0525	1831	0437	1908	0411	1938	0419	1942	0450	1912	0526	1820	0601	1724	0642	1636	0719	1616														
08	0731	1633	0706	1714	0619	1753	0523	1832	0436	1909	0411	1939	0420	1941	0451	1910	0527	1818	0603	1722	0643	1635	0720	1616														
09	0731	1634	0705	1715	0618	1755	0521	1833	0434	1910	0411	1939	0420	1941	0452	1909	0528	1816	0604	1721	0644	1634	0720	1616														
10	0731	1635	0703	1717	0616	1756	0519	1835	0433	1911	0411	1940	0421	1940	0453	1907	0529	1814	0605	1719	0646	1633	0721	1616														
11	0730	1636	0702	1718	0614	1757	0517	1836	0432	1912	0410	1940	0422	1940	0454	1906	0532	1811	0606	1717	0647	1631	0722	1616														
12	0730	1638	0700	1720	0612	1758	0516	1837	0431	1914	0410	1941	0423	1939	0455	1904	0538	1804	0607	1715	0649	1630	0723	1616														
13	0730	1639	0659	1721	0610	1800	0514	1838	0430	1915	0410	1941	0424	1938	0457	1903	0533	1809	0609	1714	0650	1629	0724	1616														
14	0729	1640	0658	1722	0609	1801	0512	1840	0428	1916	0410	1942	0425	1938	0458	1901	0534	1807	0610	1712	0651	1628	0725	1616														
15	0729	1641	0656	1724	0607	1802	0511	1841	0427	1917	0410	1942	0425	1937	0459	1900	0535	1805	0611	1710	0653	1627	0725	1616														
16	0728	1643	0655	1725	0605	1804	0509	1842	0426	1918	0410	1943	0426	1936	0500	1858	0536	1803	0613	1708	0654	1626	0726	1617														
17	0728	1644	0653	1727	0603	1805	0507	1843	0425	1919	0410	1943	0427	1935	0501	1857	0537	1801	0614	1707	0655	1626	0727	1617														
18	0727	1646	0652	1728	0601	1806	0505	1845	0424	1920	0410	1943	0428	1933	0502	1855	0539	1759	0615	1705	0656	1625	0727	1617														
19	0726	1646	0650	1729	0559	1807	0504	1846	0423	1921	0410	1943	0429	1934	0504	1853	0540	1757	0616	1703	0658	1624	0728	1618														
20	0726	1648	0648	1731	0558	1809	0502	1847	0422	1922	0411	1944	0430	1933	0505	1852	0541	1756	0618	1702	0659	1623	0728	1618														
21	0725	1649	0647	1732	0556	1810	0501	1848	0421	1923	0411	1944	0431	1932	0506	1850	0542	1754	0619	1700	0700	1622	0729	1619														
22	0724	1650	0645	1733	0554	1811	0459	1850	0420	1924	0411	1944	0432	1931	0507	1848	0543	1752	0620	1659	0702	1622	0729	1619														
23	0723	1652	0647	1735	0552	1812	0457	1851	0420	1925	0411	1944	0433	1930	0508	1847	0544	1750	0622	1657	0703	1621	0730	1620														
24	0722	1653	0642	1736	0550	1814	0456	1852	0419	1926	0412	1944	0434	1929	0509	1845	0546	1748	0623	1655	0704	1620	0730	1620														
25	0722	1654	0640	1737	0548	1815	0454	1853	0418	1927	0412	1944	0435	1928	0511	1843	0547	1746	0624	1654	0705	1620	0731	1621														
26	0721	1656	0639	1739	0546	1816	0453	1854	0417	1928	0412	1944	0436	1927	0512	1841	0548	1744	0626	1652	0707	1619	0731	1622														
27	0720	1657	0637	1740	0543	1817	0451	1856	0417	1929	0413	1944	0437	1926	0513	1840	0549	1742	0628	1651	0708	1619	0731	1623														
28	0719	1658	0635	1742	0543	1819	0450	1857	0416	1930	0414	1944	0438	1925	0514	1838	0550	1741	0628	1649	0709	1618	0731	1623														
29	0718	1700	0634	1743	0541	1820	0448	1858	0415	1931	0414	1944	0440	1923	0515	1836	0552	1739	0630	1648	0710	1618	0732	1624														
30	0717	1701			0539	1821	0447	1859	0415	1932	0414	1944	0441	1922	0516	1834	0553	1737	0631	1647	0711	1617	0732	1625														
31	0716	1703			0537	1822			0414	1933			0442	1921	0518	1833			0632	1645																		

Add one hour for daylight time, if and when in use.

Astronomical Applications Dept.  
U. S. Naval Observatory  
Washington, DC 20392-5420

VALENTINE, NEBRASKA  
Rise and Set for the Sun for 2016

Central Standard Time

Location: W100 33, N42 52

Table with columns for months (Jan to Dec) and rows for days (01 to 31). Each month has sub-columns for Rise and Set times in h, m, s. Decimals indicate minutes past the hour.

Add one hour for daylight time, if and when in use.

**MOBILE FOOD & SHOWER SERVICE REQUEST FORM**

Incident Name: \_\_\_\_\_ Financial Code: \_\_\_\_\_  
Resource Order #: \_\_\_\_\_ Food Service Request E#: \_\_\_\_\_  
Shower Unit Request E#: \_\_\_\_\_

**I. FOOD SERVICE: Requested Date, Time, Meal Types, and Number of Meals**

1. Date of first meal: \_\_\_\_\_ Time of first meal: \_\_\_\_\_

2. Estimated number for the first three meals:

1<sup>st</sup> meal: \_\_\_\_\_ [ ] Hot Breakfast [ ] Sack Lunch [ ] Dinner

2<sup>nd</sup> meal: \_\_\_\_\_ [ ] Hot Breakfast [ ] Sack Lunch [ ] Dinner

3<sup>rd</sup> meal: \_\_\_\_\_ [ ] Hot Breakfast [ ] Sack Lunch [ ] Dinner

This Block for National Interagency Coordination Center Use Only.

Actual agreed upon Date/Time first meals are to be served: Date: \_\_\_\_\_ Time: \_\_\_\_\_

(Minimum guaranteed payment is based on these estimates, see Section G.2.2):

1<sup>st</sup> meal: \_\_\_\_\_ [ ] Hot Breakfast [ ] Sack Lunches [ ] Dinner

2<sup>nd</sup> meal: \_\_\_\_\_ [ ] Hot Breakfast [ ] Sack Lunches [ ] Dinner

3<sup>rd</sup> meal: \_\_\_\_\_ [ ] Hot Breakfast [ ] Sack Lunches [ ] Dinner

**II. Location**

Reporting location: \_\_\_\_\_

Contact person at the Incident: \_\_\_\_\_

**III. Additional Information**

Spike Camps: Yes \_\_\_\_\_ No \_\_\_\_\_ Unknown \_\_\_\_\_

Estimated Duration of Incident \_\_\_\_\_ Estimated Personnel at Peak \_\_\_\_\_

Dispatch Contact: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

**IV. SHOWER SERVICE: Requested Date and Time Mobile Shower Unit is needed**

Date Requested \_\_\_\_\_ Time Requested \_\_\_\_\_

Mobile Shower Unit type ordered: Large (12+ stalls) [\_\_\_\_] Small (4-11 stalls) [\_\_\_\_]

This Block for National Interagency Coordination Center Use Only.

Actual agreed upon Date/Time Mobile Shower Unit to be operational: Date: \_\_\_\_\_ Time: \_\_\_\_\_

National Interagency Coordination Center – 208-387-5400

Exhibit 13 : Mobile Food & Shower Service Request Form

[http://www.nifc.gov/nicc/logistics/coord\\_forms/Food\\_Shower\\_Request\\_Form.p  
df](http://www.nifc.gov/nicc/logistics/coord_forms/Food_Shower_Request_Form.pdf)

Crew Name:		Flight Manager Name & Phone:			
Containing Unit:		Incident / Project Name:		Incident / Project Number:	
Carrier Name or Vehicle List Make / Model / License:		Departure Location:	ETD:	Arrival Location:	ETA:
Report For:		If Delayed, Contact:			
Passenger / Cargo Name (Include contact numbers for leaders—CRWA, Asst. CRWA, CRWA-T, etc.)		M/F	Passenger Weight	Cargo Weight	Position / AD Class (e.g. FFT1/AD-C)
Home Unit / Report					
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
Number of Passengers on Page:		Passenger / Cargo Weight		Total Weight	
Signature of Authorized Representative:				Date:	

Exhibit 14: Passenger and Cargo Manifest Form

United States Department of the Interior Bureau of Land Management <b>AIRCRAFT FLIGHT REQUEST/SCHEDULE</b>		Change #:	6. Aircraft Info FAA N#:								
1. Initial request information Initial Date/Time: _____ To/From: _____ Phone Number: _____		Billiee Code (OAS A/C only):	Flight Schedule Pax Seats Make/Model:								
Check one: <u>    </u> Point-to-Point <u>    </u> Mission Flight Mission Objective/Special Needs:		Color: _____ Vendor: _____ Phone No.: _____ Pilot(s): _____									
2. Passenger/Cargo Information – Indicate Chief of Party with an asterisk ( * )											
LBS Name/Type of Cargo (last name, initial)	LBS Project Order/Request No.	Dept Return to Apt	Name/Type of Cargo (last name, initial)	LBS or CU ft	Project Order/Request No.	Dept Apt	Dest Apt	Return to			
3. Flight Itinerary (For Mission-Type Flights. Provide Points of Departure/Arrival and Attach Map with Detailed Flight Route and Known Hazards Indicated)											
DEPART WITH		ENROUTE		ARRIVE AT		DROP OFF		Key Points			
Date	No. PAX	Lbs	Airport/Place	ETD	ETD	ATD	ETE	ETD	Drop-Off Points, Remaining Stops, Flight Check-ins, Pickup Points	Info Relayed To/From	
4. Flight Following:				5. Method of Resource Tracking:				7. Administrative Type of Payment Document:			
- FAA IFR <u>    </u> Satellite - FAA VFR w/ check-in every _____ Minutes to <u>    </u> FAA or <u>    </u> Agency - Agency VFT with check-in via radio every _____ Minutes Frequencies: _____				- Phone <u>    </u> Radio - To Scheduling <u>    </u> Dispatcher@ - Prior to Takeoff <u>    </u> Each Stop Enroute - Arrival at Destination - To: _____ @ _____ (Phone Number) - (Other Office)				- OAS-23 or <u>    </u> OAS 2 - FS 6500-12Z Other: Route Document To:			
8. Review (if applicable)				9. Close-out				Date/Time: _____ / _____			

**HAZARD ANALYSIS AND DISPATCH/AVIATION MANAGER CHECKLIST**

<p><b>I. MISSION FLIGHT HAZARD ANALYSIS</b> (fire flights exempt, provided a pre-approved plan is in place). The following potential hazards in the area of operations have been checked, have been identified on flight itinerary map, and will be reviewed with Pilot and Chief-of-Party prior to flight:</p>	
<p><input type="checkbox"/> Military Training Routes (MTRs) or Special-Use Airspace (MOAs, Restricted Areas, etc.)</p> <p><input type="checkbox"/> Areas of high-density air traffic (airports); Commercial or other aircraft</p> <p><input type="checkbox"/> Wires/transmission lines; wires along rivers or streams or across canyons</p> <p><input type="checkbox"/> Weather factors: wind, thunderstorms, etc.</p>	<p><input type="checkbox"/> Towers and bridges</p> <p><input type="checkbox"/> Other aerial obstructions:</p> <p><input type="checkbox"/> Pilot flight time/duty day limitations and daylight/darkness factors</p> <p>SUNRISE: _____</p> <p>SUNSET: _____</p> <p><input type="checkbox"/> Limited flight following communications</p>
<p><b>II. DISPATCHER/AVIATION MANAGEMENT CHECKLIST</b></p>	
<p><input type="checkbox"/> Pilot and aircraft carding checked with source list and vendor; carding meets requirements;</p> <p><input type="checkbox"/> OR, Necessary approvals have been obtained for use of uncarded cooperators, military, or other-government agency aircraft and pilots</p> <p><input type="checkbox"/> Check with vendor that an aircraft with sufficient capability to perform mission safely has been scheduled</p> <p><input type="checkbox"/> Qualified Aircraft Chief-of-Party has been assigned to the flight (noted on reverse)</p> <p><input type="checkbox"/> All DOI passengers have received required aircraft safety training;</p> <p><input type="checkbox"/> OR, Aviation manager will present detailed safety briefing prior to departure;</p> <p><input type="checkbox"/> Bureau Aircraft Chief-of-Party will be furnished with a Chief-of-Party/Pilot checklist and is aware of its use</p>	<p><input type="checkbox"/> Means of flight following and resource tracking requirements have been identified</p> <p><input type="checkbox"/> Flight following has been arranged with another unit if flight crosses jurisdictional boundaries and communications cannot be maintained</p> <p><input type="checkbox"/> Flight hazard maps have been supplied to Chief-of-Party for nonfire low-level missions</p> <p><input type="checkbox"/> Procedures for deconfliction of Military Training Routes and Special-Use Airspace have been taken</p> <p><input type="checkbox"/> Chief-of-Party is aware of PPE requirements.</p> <p><input type="checkbox"/> Cost analysis has been completed and is attached</p> <p><input type="checkbox"/> Other/Remarks:</p>
<p><b>III. APPROVALS</b></p>	
<p>Note: Reference Handbook 9420 for approval(s) required.</p>	
<p><b>A. MISSION FLIGHT: HAZARD ANALYSIS PERFORMED BY:</b></p> <p>_____</p> <p style="text-align: center;"><small>Chief-of-Party Signature</small></p>	
<p><b>B. MISSION FLIGHT: HAZARD ANALYSIS REVIEWED BY:</b></p> <p>_____</p> <p style="text-align: center;"><small>Dispatcher Or Aviation Manager Signature Required</small></p>	
<p><b>C. IF NON-FIRE, ONE-TIME (NON-RECURRING), SPECIAL-USE MISSION, SIGNATURE OF LINE MANAGER IS REQUIRED **;</b></p> <p>_____</p> <p style="text-align: right;"><b>DATE:</b> _____</p>	
<p><b>D. THIS FLIGHT IS APPROVED BY (Authorized Signature):</b></p> <p>_____</p> <p style="text-align: right;"><b>DATE:</b> _____</p>	
<p><b>** For recurring Special-Use Missions, signature is required on Special-Use Air Safety Plan, and not required here.</b></p>	

Exhibit 16: Aircraft Flight Request/Schedule Form and Hazard Analysis and Dispatch/Aviation Manager Checklist5

**INFRARED AIRCRAFT SCANNER REQUEST**

<b>Incident# &amp; Project#:</b>		<b>BLM#:</b>	<b>A#</b>
Incident Name:		Date/Time:	
Ordering Unit:		Telephone #:	
Local Dispatch:		Telephone #:	
GACC:		Telephone #:	
National IR Coord:		Telephone #:	(208) 387-5381
		FAX #	
		Cell #	(208) 859-4475
Regional IR Coord:		Telephone #:	( )
		FAX #:	( )
		Cell #	( )
IR Interpreter Ordered:	<input type="checkbox"/> YES <input type="checkbox"/> NO	Telephone #	( )
IR Interpreter Assigned:		Cell #	( )
Location: Motel		Motel #	( )
Office or ICP		FAX #	( )
SITL Name and Location:		Telephone #:	( )
Incident Elevation (AVG):		Feet MSL	Approximate Size: Acres
Weather Over The Incident:			
Delivery Point:		Alt. Delivery Pt:	
Delivery type:	<input type="checkbox"/> Land Aircraft	<input type="checkbox"/> Air Drop	<input type="checkbox"/> Scanned file (give email address or ftp site in box below)
Delivery time:			
Delivery point weather:			

**Radio Frequencies**

Local admin. Unit	Tx:	Mhz	Tone:	Rx:	Mhz	Tone:
Alternative Freq	Tx:	Mhz	Tone:	Rx:	Mhz	Tone:
Air Tactical Group Supervisor	Tx:	Mhz	Tone:	Rx:	Mhz	Tone:

**Incident Location from 2 VORs: (Degrees) (nautical miles)**

<b>VOR:</b>	<b>Azimuth:</b>	<b>Distance:</b>
<b>VOR:</b>	<b>Azimuth:</b>	<b>Distance:</b>

**Mission Objective and Description:**

LATITUDE/LONGITUDE INFORMATION NEEDED FOR EACH MISSION

**Mapping Block**

NORTH		
SOUTH		
EAST		
WEST		

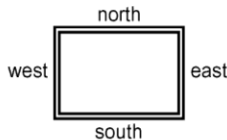


Exhibit 18: Infrared Aircraft Scanner Request Form



TEMPORARY TOWER REQUEST FORM

(Note – this form should be used in conjunction with the checklist located in Chapter 11 of the Interagency Airspace Coordination Guide (www.fs.fed.us/r6/fire/aviation/airspace). Please attach this form to the Resource Order and forward both forms to the appropriate FAA Regional Operations Center (ROC) through established ordering channels.

I. GENERAL INFORMATION

Incident Name \_\_\_\_\_ Management/Fiscal Code \_\_\_\_\_
Resource Order Number \_\_\_\_\_ Request Number \_\_\_\_\_ Date \_\_\_\_\_

II. POINTS OF CONTACT

Table with 2 columns: Name / Agency, Telephone. Rows include: Ordering Unit, Air Ops / Air Support, Local or Expanded Dispatch, Geographic Area Coordination Center, National Interagency Coordination Center, FAA POC at ROC, Airport Owner / Operator.

Has the Airport Owner been notified? YES [ ] NO [ ]
Requested Operational Hours: \_\_\_\_\_
Estimated Duration: \_\_\_\_\_

III. SUPPORT INFORMATION

Closest City / Town: \_\_\_\_\_ State: \_\_\_\_\_

Proposed Location of Temporary Tower (select one or explain):
[ ] Airport (name and FAA Code)
[ ] Helibase (physical/legal location)
[ ] Incident Command Post (physical/legal location)
[ ] Other

Is there a facility available on site for use as a "temporary tower"?
[ ] FBO Site/Room rental, etc
[ ] Rental Trailer
[ ] Facility to be constructed on site
[ ] Other

Expected overnight accommodations: [ ] Fire Camp [ ] Motel/Hotel [ ] Other

Vehicle Availability: [ ] GOV [ ] Rental [ ] Other (explain)

Attach detailed driving directions to reporting site (note road closures, hazardous conditions, easiest route of travel and provide detailed map)

IV. EQUIPMENT SURVEY – Refer to Chapter 11 Checklist in Interagency Airspace Coordination Guide.

Has equipment inventory been completed? [ ] Yes [ ] No

Equipment (radios, etc) locally available for use by assigned Tower Personnel: \_\_\_\_\_

Equipment to be ordered: \_\_\_\_\_

PREPAREDNESS/DETAIL REQUEST

ATTACHMENT TO RESOURCE ORDER NUMBER: \_\_\_\_\_
REQUEST NUMBER /S/: \_\_\_\_\_

- 1. POSITION(S): \_\_\_\_\_ NUMBER OF PERSONS REQUESTED: \_\_\_\_\_
2. MINIMUM "RED CARD" RATING: \_\_\_\_\_
3. EMPLOYMENT STATUS :  REGULAR FEDERAL AGENCY  A.D. OTHER: \_\_\_\_\_
4. AGENCY UNIFORM:  YES  NO FIRE RESISTANT CLOTHING:  YES  NO
5. DRIVERS LICENSE NEEDED:  YES  NO ENDORSEMENT: \_\_\_\_\_
6. GOVERNMENT VEHICLE:  YES  NO TYPE: \_\_\_\_\_
7. PRIVATE VEHICLES AUTHORIZED:  YES  NO NUMBER: \_\_\_\_\_
8. RADIOS NEEDED:  YES  NO TYPE: \_\_\_\_\_ NUMBER: \_\_\_\_\_
9. REQUESTING UNIT'S ELECTRONIC TECHNICIAN'S NAME: \_\_\_\_\_
TELEPHONE: \_\_\_\_\_
10. LENGTH OF DETAIL: \_\_\_\_\_ THROUGH: \_\_\_\_\_
11. ESTABLISHED WORKWEEK: \_\_\_\_\_
HOURS OF DUTY: \_\_\_\_\_
OVERTIME AUTHORIZED:  YES  NO.
AUTHORIZATION NUMBER: \_\_\_\_\_
12. PERSONNEL MAY BE ROTATED:  YES  NO HOW OFTEN: \_\_\_\_\_
ROTATION PAID BY: \_\_\_\_\_
13. BASE SALARY PAID BY: \_\_\_\_\_
TRAVEL PAID BY: \_\_\_\_\_ PER DIEM PAID BY: \_\_\_\_\_
14. EQUIPMENT USE MILEAGE PAID BY: \_\_\_\_\_
15. REQUESTING UNIT'S ELECTRONIC ADDRESS: \_\_\_\_\_
16. REQUESTING UNIT'S ESTIMATED TOTAL COST: \_\_\_\_\_
17. REQUESTING UNIT'S PERSONNEL OFFICER: \_\_\_\_\_
TELEPHONE: \_\_\_\_\_
18. REQUESTING UNIT'S FINANCE OFFICER: \_\_\_\_\_
TELEPHONE: \_\_\_\_\_
19. TEMPORARY DUTY STATION: \_\_\_\_\_
ADDRESS / PO BOX: \_\_\_\_\_
TELEPHONE: \_\_\_\_\_
20. GOVERNMENT LODGING:  YES  NO MESS HALL:  YES  NO.
GOVERNMENT COOKING FACILITIES ONLY:  YES  NO
COMMERCIAL LODGING:  YES  NO. RATE: \_\_\_\_\_ MEALS:  YES  NO.
21. NEAREST COMMERCIAL AIRLINE CITY: \_\_\_\_\_
22. REMARKS: \_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_

7/22/2004

Exhibit 20: Preparedness/Detail Request Form

## INCIDENT STATUS SUMMARY (ICS 209)

*1. Incident Name:		2. Incident Number:	
*3. Report Version (check one box on left): <input type="checkbox"/> Initial Rpt # <input type="checkbox"/> Update (if used): <input type="checkbox"/> Final		*4. Incident Commander(s) & Agency or Organization:	5. Incident Management Organization:
7. Current Incident Size or Area Involved (use unit label – e.g., "sq mi," "city block"):		8. Percent (%) Contained  Completed	*9. Incident Definition:
		10. Incident Complexity Level:	*11. For Time Period: From Date/Time: _____ To Date/Time: _____
			*6. Incident Start Date/Time: Date: _____ Time: _____ Time Zone: _____

## Approval &amp; Routing Information

*12. Prepared By: Print Name: _____ ICS Position: _____ Date/Time Prepared: _____		*13. Date/Time Submitted:  Time Zone: _____	
*14. Approved By: Print Name: _____ ICS Position: _____ Signature: _____		*15. Primary Location, Organization, or Agency Sent To:	

## Incident Location Information

*16. State:	*17. County/Parish/Borough:	*18. City:
19. Unit or Other:	*20. Incident Jurisdiction:	21. Incident Location Ownership (if different than jurisdiction):
22. Longitude (indicate format): Latitude (indicate format):	23. US National Grid Reference:	24. Legal Description (township, section, range):
*25. Short Location or Area Description (list all affected areas or a reference point):		26. UTM Coordinates:
27. Note any electronic geospatial data included or attached (indicate data format, content, and collection time information and labels):		

## Incident Summary

*28. Significant Events for the Time Period Reported (summarize significant progress made, evacuations, incident growth, etc.):					
29. Primary Materials or Hazards Involved (hazardous chemicals, fuel types, infectious agents, radiation, etc.):					
30. Damage Assessment Information (summarize damage and/or restriction of use or availability to residential or commercial property, natural resources, critical infrastructure and key resources, etc.):		A. Structural Summary	B. # Threatened (72 hrs)	C. # Damaged	D. # Destroyed
		E. Single Residences			
		F. Nonresidential Commercial Property			
		Other Minor Structures			
		Other			
ICS 209, Page 1 of ____		* Required when applicable.			

**INCIDENT STATUS SUMMARY (ICS 209)**

<b>*1. Incident Name:</b>	<b>2. Incident Number:</b>
---------------------------	----------------------------

**Additional Incident Decision Support Information**

<b>*31. Public Status Summary:</b>	A. # This Reporting Period	B. Total # to Date	<b>*32. Responder Status Summary:</b>	A. # This Reporting Period	B. Total # to Date
<i>C. Indicate Number of Civilians (Public) Below:</i>			<i>C. Indicate Number of Responders Below:</i>		
D. Fatalities			D. Fatalities		
E. With Injuries/Illness			E. With Injuries/Illness		
F. Trapped/In Need of Rescue			F. Trapped/In Need of Rescue		
G. Missing (note if estimated)			G. Missing		
H. Evacuated (note if estimated)			H. Sheltering in Place		
I. Sheltering in Place (note if estimated)			I. Have Received Immunizations		
J. In Temporary Shelters (note if est.)			J. Require Immunizations		
K. Have Received Mass Immunizations			K. In Quarantine		
L. Require Immunizations (note if est.)					
M. In Quarantine					
<i>N. Total # Civilians (Public) Affected:</i>			<i>N. Total # Responders Affected:</i>		

<b>33. Life, Safety, and Health Status/Threat Remarks:</b>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:80%; padding: 2px;"><b>*34. Life, Safety, and Health Threat Management:</b></th> <th style="width:20%; padding: 2px;">A. Check if Active</th> </tr> <tr> <td style="padding: 2px;">A. No Likely Threat</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">B. Potential Future Threat</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">C. Mass Notifications in Progress</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">D. Mass Notifications Completed</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">E. No Evacuation(s) Imminent</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">F. Planning for Evacuation</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">G. Planning for Shelter-in-Place</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">H. Evacuation(s) in Progress</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">I. Shelter-in-Place in Progress</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">J. Repopulation in Progress</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">K. Mass Immunization in Progress</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">L. Mass Immunization Complete</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">M. Quarantine in Progress</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;">N. Area Restriction in Effect</td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"> </td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"> </td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"> </td> <td style="text-align: center; padding: 2px;"><input type="checkbox"/></td> </tr> </table>	<b>*34. Life, Safety, and Health Threat Management:</b>	A. Check if Active	A. No Likely Threat	<input type="checkbox"/>	B. Potential Future Threat	<input type="checkbox"/>	C. Mass Notifications in Progress	<input type="checkbox"/>	D. Mass Notifications Completed	<input type="checkbox"/>	E. No Evacuation(s) Imminent	<input type="checkbox"/>	F. Planning for Evacuation	<input type="checkbox"/>	G. Planning for Shelter-in-Place	<input type="checkbox"/>	H. Evacuation(s) in Progress	<input type="checkbox"/>	I. Shelter-in-Place in Progress	<input type="checkbox"/>	J. Repopulation in Progress	<input type="checkbox"/>	K. Mass Immunization in Progress	<input type="checkbox"/>	L. Mass Immunization Complete	<input type="checkbox"/>	M. Quarantine in Progress	<input type="checkbox"/>	N. Area Restriction in Effect	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
<b>*34. Life, Safety, and Health Threat Management:</b>	A. Check if Active																																				
A. No Likely Threat	<input type="checkbox"/>																																				
B. Potential Future Threat	<input type="checkbox"/>																																				
C. Mass Notifications in Progress	<input type="checkbox"/>																																				
D. Mass Notifications Completed	<input type="checkbox"/>																																				
E. No Evacuation(s) Imminent	<input type="checkbox"/>																																				
F. Planning for Evacuation	<input type="checkbox"/>																																				
G. Planning for Shelter-in-Place	<input type="checkbox"/>																																				
H. Evacuation(s) in Progress	<input type="checkbox"/>																																				
I. Shelter-in-Place in Progress	<input type="checkbox"/>																																				
J. Repopulation in Progress	<input type="checkbox"/>																																				
K. Mass Immunization in Progress	<input type="checkbox"/>																																				
L. Mass Immunization Complete	<input type="checkbox"/>																																				
M. Quarantine in Progress	<input type="checkbox"/>																																				
N. Area Restriction in Effect	<input type="checkbox"/>																																				
	<input type="checkbox"/>																																				
	<input type="checkbox"/>																																				
	<input type="checkbox"/>																																				
<b>35. Weather Concerns</b> (synopsis of current and predicted weather; discuss related factors that may cause concern):																																					

**36. Projected Incident Activity, Potential, Movement, Escalation, or Spread** and influencing factors during the next operational period and in 12-, 24-, 48-, and 72-hour timeframes:

12 hours:

24 hours:

48 hours:

72 hours:

Anticipated after 72 hours:

**37. Strategic Objectives** (define planned end-state for incident):

## INCIDENT STATUS SUMMARY (ICS 209)

*1. Incident Name:	2. Incident Number:
<i>Additional Incident Decision Support Information (continued)</i>	
<p><b>38. Current Incident Threat Summary and Risk Information in 12-, 24-, 48-, and 72-hour timeframes and beyond.</b> Summarize primary incident threats to life, property, communities and community stability, residences, health care facilities, other critical infrastructure and key resources, commercial facilities, natural and environmental resources, cultural resources, and continuity of operations and/or business. Identify corresponding incident-related potential economic or cascading impacts.</p> <p>12 hours:</p> <p>24 hours:</p> <p>48 hours:</p> <p>72 hours:</p> <p>Anticipated after 72 hours:</p>	
<p><b>39. Critical Resource Needs in 12-, 24-, 48-, and 72-hour timeframes and beyond to meet critical incident objectives.</b> List resource category, kind, and/or type, and amount needed, in priority order:</p> <p>12 hours:</p> <p>24 hours:</p> <p>48 hours:</p> <p>72 hours:</p> <p>Anticipated after 72 hours:</p>	
<p><b>40. Strategic Discussion:</b> Explain the relation of overall strategy, constraints, and current available information to:</p> <ol style="list-style-type: none"> <li>1) critical resource needs identified above,</li> <li>2) the Incident Action Plan and management objectives and targets,</li> <li>3) anticipated results.</li> </ol> <p>Explain major problems and concerns such as operational challenges, incident management problems, and social, political, economic, or environmental concerns or impacts.</p>	
<p><b>41. Planned Actions for Next Operational Period:</b></p>	
<p><b>42. Projected Final Incident Size/Area</b> (use unit label – e.g., "sq mi"):</p>	
<p><b>43. Anticipated Incident Management Completion Date:</b></p>	
<p><b>44. Projected Significant Resource Demobilization Start Date:</b></p>	
<p><b>45. Estimated Incident Costs to Date:</b></p>	
<p><b>46. Projected Final Incident Cost Estimate:</b></p>	
<p><b>47. Remarks</b> (or continuation of any blocks above – list block number in notation):</p>	
ICS 209, Page 3 of ___	* Required when applicable.

**INCIDENT STATUS SUMMARY (ICS 209)**

<b>1. Incident Name:</b>	<b>2. Incident Number:</b>
--------------------------	----------------------------

*Incident Resource Commitment Summary*

48. Agency or Organization:	49. Resources (summarize resources by category, kind, and/or type; show # of resources on top ½ of box, show # of personnel associated with resource on bottom ½ of box):	50. Additional Personnel not assigned to a resource:	51. Total Personnel (includes those associated with resources – e.g., aircraft or engines – and individual overhead):
<b>52. Total Resources</b>			
<b>53. Additional Cooperating and Assisting Organizations Not Listed Above:</b>			
ICS 209, Page ___ of ___		* Required when applicable.	

Page 4 of 4  
 Exhibit 21: Incident Status Summary (ICS-209) Form

**Resource Extension Request Form**

**RESOURCE and INCIDENT INFORMATION:**

Resource Name: \_\_\_\_\_

Incident Name: \_\_\_\_\_ Incident #: \_\_\_\_\_ Request #: \_\_\_\_\_

Position on Incident: \_\_\_\_\_

Home Unit Supervisor: \_\_\_\_\_ email: \_\_\_\_\_ fax # \_\_\_\_\_

**EXTENSION INFORMATION:**

Prior to any extension consider the health, readiness and capability of the resource. The health and safety of incident personnel and resources will not be compromised under any circumstances.

Length of Extension and last work day:

Justification (Select from the list below):

- Life and property are imminently threatened,
- Suppression objectives are close to being met, or
- Replacement resources are unavailable or have not yet arrived.

**REQUESTED BY\*:**

Incident Supervisor: \_\_\_\_\_ Incident Position: \_\_\_\_\_

**APPROVED BY\*:**

- 1) Resource or Resource Supervisor: \_\_\_\_\_
- 2) Incident Commander or Deputy: \_\_\_\_\_
- 3) Host GACC Coordinator on Duty: \_\_\_\_\_
- 4) Home Unit Supervisor: \_\_\_\_\_
- 5) Sending GACC (excluding single-resource Overhead): \_\_\_\_\_
- 6) NICC (only if National Resource): \_\_\_\_\_

*\*Signatures should be gathered in the order they are numbered above*

January 2013

Exhibit 24: Documentation of Length of Assignment Extension Requirements Form

INCIDENT TIME REPORT																							
2. Employee Common Identifier			1. Hired At (e.g., ID-BOF)			3. Type of Employment (X One)			4. Hiring Unit Name (e.g., Ranger District)														
5. Name (First, Middle, Last)			6. Hiring Unit Phone Number			<input type="checkbox"/> Casual <input type="checkbox"/> Federal <input type="checkbox"/> Other			7. Hiring Unit Fax Number														
Column A				Column B				Column C				Column D											
8. Incident Name				8. Incident Name				8. Incident Name				8. Incident Name											
9. Incident Order Number (e.g., ID-BOF-000123)				9. Incident Order Number (e.g., ID-BOF-000123)				9. Incident Order Number (e.g., ID-BOF-000123)				9. Incident Order Number (e.g., ID-BOF-000123)											
10. Fire Code (e.g., BC05)				10. Fire Code (e.g., BC05)				10. Fire Code (e.g., BC05)				10. Fire Code (e.g., BC05)											
11. Resource Request Number (e.g., P-33)				11. Resource Request Number (e.g., P-33)				11. Resource Request Number (e.g., P-33)				11. Resource Request Number (e.g., P-33)											
12. Position Code (e.g., CRMB-T)				12. Position Code (e.g., CRMB-T)				12. Position Code (e.g., CRMB-T)				12. Position Code (e.g., CRMB-T)											
13. AD Class (e.g., B)				13. AD Class (e.g., B)				13. AD Class (e.g., B)				13. AD Class (e.g., B)											
14. AD Rate				14. AD Rate				14. AD Rate				14. AD Rate											
15. Home-Hiring Unit Accounting Code				15. Home-Hiring Unit Accounting Code				15. Home-Hiring Unit Accounting Code				15. Home-Hiring Unit Accounting Code											
Mo	Day	Start	Stop	Hours	Mo	Day	Start	Stop	Hours	Mo	Day	Start	Stop	Hours	Mo	Day	Start	Stop	Hours				
Year				Year				Year				Year				Year							
16. Total Hours				16. Total Hours				16. Total Hours				16. Total Hours				16. Total Hours							
17. Total Hours (all columns)				17. Total Hours (all columns)				17. Total Hours (all columns)				17. Total Hours (all columns)				17. Total Hours (all columns)							
18. Commissary and Travel												For Payment Center use only											
18a. Month				18a. Day				18a. Category (e.g., commissary, mess, lodging, mileage, medical, etc.)				18a. Deduction				18a. Fire-Code							
18b. Reimbursement				18c. Reimbursement				18d. Reimbursement				18e. Deduction				18f. Fire-Code							
Total \$				Total \$				Total \$				Total \$				Total \$							
19. Remarks												20. Employee Signature											
												21. Time Officer Signature											

NOTE: The above sheets are correct and proper for payment from available appropriations.