Reporting Party: FS Employee Grothen

Initial Report On Conditions:

Gorthen driving to 5111 reported this one up the canyon. Willow MTN can see it.

Initial Location: up Kootenai drainage

Lat: 46°,33',9.01", Lon: 114°,14',7.07", T9N, R21W, Sec 11 Actual Location (07/21/2009 08:45): 46 33.15.5 x 114 14.12.8 (initial from Gaulrapp) Lat: 46°,33',9.01", Lon: 114°,14',7.07", T9N, R21W, SENE Sec 10

Dispatcher: CLAIRMONT, CRAIG Status: Open Job Codes: P1E2K3 (0103) Web Comment: Lightning caused fire 5 miles up the Kootenai Creek drainage, on the north side in the Selway-Bitterroot Wilderness. Fire is now at 5645 acres as of 9/27 and is being managed by a Type 3 organization. Timer: Closed Timer for Resource Incident Commander(s):

07/13/2009 1234 Crowe Effective 1230

Resource	Commit	Respond	On Scene	Avail Inc	Returning	Off Incident
N142MA	07/12 17:44					07/12 17:54
N526MW	08/26 16:07					09/03 13:06 .
BAT2-1	07/23 17:00		07/23 17:00			08/09 16:28
D3 IA CREW	07/24 07:00					07/26 19:00
WF IA CREW	07/24 07:00					07/26 19:00
GAULRAPP	07/12 17:44					07/12 17:55
ROHRBACH	07/12 17:44					07/12 17:55
ROWSELL	07/12 17:44					07/12 17:55
ALSUP	07/13 12:34				07/13 19:48	07/15 21:00
CROWE	07/13 12:33				07/13 19:48	07/13 20:00
HONEY	07/13 12:33				07/13 19:48	07/13 20:00
PETERSON	07/13 12:34				07/13 19:48	07/13 20:00

Entry Date/Time	From	То	Details
07/12/2009 17:45:14	42MA	КМ	Smoke in sight in Kootenai Creek - will get size up in a minute
07/12/2009 18:11:08	42MA	KM	Size up - 46 33 15.5 x 114 14 12.8, running, , est. size 2 acres, timber, W exposure, 45%, lower 1/3, no roads, best access: rappel
07/12/2009 18:20:56	Buster	KM	Probably not safe to put people on the hillside - thinking of putting people at the bottom and working that east flank to catch rollers.
07/12/2009 18:36:26	42MA	Stevi	Contact w/Stevi with information about fire
07/12/2009 18:59:19	Taylor	КМ	ICT4 + 6 headed to Stevi RD - Crowe/Peterson/Hanley/Alsup/Honey/Patterson/Fisk
07/12/2009 19:10:47	Taylor	KM	Darby folks ETA 45 minutes to station
07/12/2009 19:32:50	cc	CC	Fire info sheet sent to NAn
07/12/2009 19:33:47	42MA	KM	Off Stevi airport to fire, pilot + 2, 1.5 fuel
07/12/2009 19:49:03	42MA	KM/AFF	46 32 27 x 114 15 15
07/13/2009 12:32:53	Crowe	КМ	Crowe + 7 to Kootenai Creek, IC: Crowe w/Peterson/Honey/Alsup & Lee Metcalf personnel (Pfau/King/Stevenson/Miller)
07/13/2009 12:36:06	Buster	КМ	Crowe/Pfau & 6 additional will be going to fire - objective is to keep fire north of Kootenai Creek trail, and to keep an eye on the eastern flank - they will look at possibilities to keep spread to east in check (hoselay, bucket drops).

Entry Date/Time	From	То	Details
07/13/2009 12:55:20	Buster	КМ	Hartless/Zinn are in the Sharrot Larson area - they have an eye on the fire, and may have to be used as a relay when Crowe & group get to the fire.
07/13/2009 13:26:22	Crowe	KM	Leaving trailhead, hiking into fire
07/13/2009 19:47:39	ic	BM	BACK THE TRAILHEAD TO GO TO D1. 50-60 ACRES
07/13/2009 19:48:14	HARTLESS	BM	AT D1
07/13/2009 20:22:17	Crowe	KM	All back at Stevi - Darby people headed back to station
07/13/2009 21:17:33	Peterson	KM	3 hack at Darby
07/14/2009 17:16:40	Crowe	KM	Took a look at fire, no significant changes for today - headed back to station
07/15/2009 18:35:41	Crowe	КМ	Plan for 7/16 - hike in with 5 people - would like 2 from Lee Metcalf (will confirm names 7/16 AM). Plan to hike @ 0900, and stay til Sunday morning. Could possibly request bucket drops if they see a need.
07/16/2009 10:30:06	hartless	ВМ	to overlook
07/16/2009 11:42:14	crowe	TL	Hiking to fire withMatt King, Rob Stenson from Lee Metcalf
07/16/2009 13:34:26	ic	BM	all at fire trail monitors in place and ty and grothen looking at fire
07/16/2009 16:50:12	IC	KM	No needs for the helicopter this evening - they will stay
		_	and observe til 2000 tonight & hike down to camp at that point.
07/16/2009 17:04:30	IC	Buster	Fire growing to SW corner, smoke/fire headed up the drainage to the NW, ground fire, cleaning up dead & downed fuels. RH's in the mid-30's.
07/16/2009 19:13:35	Hartless	КМ	Back at station
07/16/2009 19:22:21	IC	КМ	Placing order for 526MW for the AM - 1000 or 1100. Make sure he is aware of any special needs up there, and is briefed prior. Update on fire: grown a bit, is going up the east side, which is why they are asking for bucket work in the morning.
07/16/2009 19:51:39	IC	KM	Leaving lookout spot, hiking back to camp, ETA 45 minutes
07/16/2009 20:43:19	IC	KM	Back at camp, O/S for the evening, back on 0700
07/17/2009 07:08:24	IC	BM	I/S
07/17/2009 09:41:39	IC	BM	AT LOOKOUT POINT BUMP REQUEST FOR KMAX TILL 11
07/17/2009 11:25:47	ic	CC	Read Spot weather forecast: http://spot.nws.noaa.gov/cgi-bin/spot/spotfcst?site=mso&file =20090717.KOOTE.01
07/17/2009 12:34:06	IC	CC	Order for heli - yes, got infor on dips and falcons? i will check
07/17/2009 12:42:44	526MW	CC	Off Hamilton to Kootenai
07/17/2009 12:42:56	IC	CC	526MW headed your way
07/17/2009 13:07:00	ic	BM	6mw is on scene and will flight follow local
07/17/2009 13:20:34	MSO	BM	WILL GET WINDS 15 TO 20 WEST SUNDAY
07/17/2009 13:36:35	IC	BM	ASKING PROMOTION FOR NEW DIP SITE IN THE CREEK IN WILDERNESS AND 400 YARDS DOWN HILL OF THE FIRE APPROVED BY BUSTER W.
07/17/2009 14:54:30	IC	BM	REQUEST KMAX ONE MORE FUEL CYCLE
07/17/2009 15:34:44	IC	cc	526MW will be 25 minutes to fire
07/17/2009 15:51:25	526MW	CC	Ready to lift to Fire
07/17/2009 15:52:06	IC	CC	Kmax headed back
07/17/2009 16:06:56	IC	CC	526MW in contact and FF local
07/17/2009 17:50:18	26mw	CC	Back to 6s5
07/17/2009 18:03:32	MW	BM	ON THE GBOUND HAMILTON
07/17/2009 18:15:08	IC	BM	ON LINE THE 2000 THEN HIKE TO CAMP
07/17/2009 19:46:30	IC	BM	HEADED BACK TO CAMP FROM LOOKOUT SPOT 45 MIN IN ROUT TO
07/17/2009 20:39:11	IC	BM	BACK AT CAMP GOOD COMMUNICATIONS WITH WILLOW FOR THE NIGHT
07/18/2009 06:58:43	IC	BM	I/S UP AND MOVING LOOKS LIKE BUCKET WORKED HELPED NOT AS MUTCH SMOKE TO DAY, MY NEED TYPE 1 TO DAY WILL NOT
07/18/2009 09:04:37	ic	BM	called wanted a weather update for winds for sun day, my need 8mw today for east flank

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07/1 B/2000 09:34-490 IC Headed to Fire as Resume Advisor 07/18/2006 10:4320 Ic CC rescurse advisor made its the fire (passfeld) 07/18/2009 14:20:35 Ic CC al coloc up point now, fire is still west of the fidge, request, may at 1500 todg. 07/18/2009 15:35:16 IC BM CPC/CPV ED THE WEATHER 07/18/2009 15:35:14 IC BM OPC/CPV ED THE WEATHER 07/18/2009 15:35:22 RUM BM IN CONTACT 07/18/2009 15:35:22 RUM BM IN CONTACT 07/18/2009 15:30:16 IC C Rum stall the tot the tot comp. 07/18/2009 15:30:16 IC C At comp. preak down then head back to traihead 07/18/2009 15:30:16 IC C At comp. preak down then head back to traihead 07/18/2009 15:30:16 IC KM Requestin the totins: 07/18/2009 15:	Entry Date/Time	From	То	Details
07/18/2009 12:43:29 is CC resource advisor made it is the fire (brassheld) 07/18/2009 12:31:59 is CC at look outprint may, this stall wast of the ndge, request mw at 1500 loday 07/18/2009 12:35:10 IC BM REC.ADVISOR BRASSFIELD IN ROUT BACK TO TRAIL HEAD CANCEL 88 MW 07/18/2009 15:35:14 IC BM COPY ED THE WEATHER 07/18/2009 15:35:14 IC BM OCOTACT WITH CROW FF LOCAL 07/18/2009 15:35:14 IC BM OCOTACT WITH CROW FF LOCAL 07/18/2009 17:15:23 IC TL Will say it 1900 then break camp and hike out tonight. ETA to it atimate 21:00:2100 07/18/2009 17:15:23 IC C at the frailhouted 21:00:2100 07/18/2009 14:845-10 IC C at the frailhouted 21:00:2100 07/18/2009 14:845-10 IC C at the frailhouted resolute fraining 07/18/2009 14:845-10 IC KM Coder 42:04 for a cycle of bucket drops. 07/18/2009 13:25:01 KM IC 42:A4 hoadbod his way 07/28/2009 13:25:01 KM IC KM Coder 42:04 for a cycle of bucket drops.	07/18/2009 09:34:48	Brassfield	TL	Headed to Fire as Resource Advisor
07/16/2009 12:31:59 CC at look out point now, fire is still west of the ridge, reguest mux at 1500 loday 07/16/2009 14:20:35 IC BM REC.ADVISOR BRASSFIELD IN ROUT BACK TO TRAIL HEAD CANCEL 68 07/16/2009 15:36:14 IC BM COPY ED THE WEATHER 07/16/2009 15:36:14 IC BM COPY ED THE WEATHER 07/16/2009 15:36:14 IC BM ORDER RAW CURPY COPY 07/16/2009 15:36:14 IC BM OPOLED AND HEADDED TO FIRE IC COPYS 07/16/2009 17:35:28 IC TL REleased 525MW back to Hamilton 07/16/2009 17:35:28 IC TL PEleoased 525MW back to Hamilton 07/16/2009 18:29:15 IC CC at tamp. Loeak down then head back to trailhead 07/18/2009 21:49:54 IC CC at the inalhead neading back in fig 07/18/2009 21:49:54 IC CC at the inalhead neading back in fig 07/18/2009 13:24:16 IC KM Coderatility back at 02, Tak with Stinub for 7:19 plan 07/22/2009 13:24:16 IC KM Coderatility back at 02, Tak with Stinub for 7:19 plan 07/22/2009 14:04:129 IC	07/18/2009 10:49:20	ic	CC	resource advisor made it to the fire (brassfeild)
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Orifelagob 15:01:9 C BM COPV ED THE WEATHER 0719200b 15:45:14 C BM ORDER 684W CURPY COPY 0719200b 15:45:01 SRWW BM ORDER 684W CURPY COPY 0719200b 15:45:01 C TL HEleased 250MW tack to Hamilton 0719200b 17:15:20 IC TL Will say II 1600 them brais camp and hike out tonight, 0719200b 17:15:21 IC TL Will say II 1600 them brais camp and hike out tonight, 0719200b 12:24:25 C C a tamp hiked 2100:2100 0719200b 21:48:54 C CC a tamp hiked 2100:2100 0719200b 22:05:15 Ic CC Back and D Typeque at D2: Tak will Shub for 7:19 pten 07192200b 22:42:16 C KM Pareta table at D2: Tak will Shub for 7:19 pten 0722200b 12:34:20 KM C 42MA nacded is way 0722200b 13:55:01 KM C 42MA nacded is way 0722200b 12:42:02 KM Landed not of Korona Th, hooked up bucket, F/F local 0722200b 12:42:02 KM Redeased 42MA C 0722200b 12:42:02 K	07/18/2009 14:20:35	IC	BM	REC.ADVISOR BRASSFIELD IN ROUT BACK TO TRAIL HEAD CANCEL 68
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07/16/2009 17:15:23 IC TL HElessed 526MW back to Hamilton 07/16/2009 17:15:23 IC TL ETA to raillead 2100-2130. 07/16/2009 18:33:11 Ic CC Firse toolship good. Firse going in right direction. Pulling 07/16/2009 18:23:16 IC CC at camp. break down then head back to trailhead 07/18/2009 21:48:54 IC CC at camp. break down then head back to prailhead 07/18/2009 21:32:41:6 IC CC Back at D1. Request. Release FWP Engine PFau + 2 from 07/22/2009 13:32:01 42MA KM Redeat onth of Kootenai IT, break down for 7:9 plan. 07/22/2009 13:32:09 IC KM C4/2MA headed from of Kootenai IT, hooked up bucket, F/F local 07/22/2009 13:32:09 IC KM 42MA on scene 07/22/2009 15:04:49 IC KM Repeaced at and the trumping up north, they will work for another fuel cycle, then come back to do Ward Mm mission 07/22/2009 15:08:01 KM C Fire local with 489 also check to see if the pond at the moth footenai IT, hooked up bucket, F/F local 07/22/2009 12:09:12:07:01 IC KM Helessed 42MA 07/22/2009 12:0	07/18/2009 16:02:52	26MW	BM	IN CONTACT WITH CROW FF LOCAL
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07/18/2009 19:29:16 IC CC at camp. break down then head back to trailhead 07/18/2009 21:48:54 IC CC at the trailhead heading back in q 07/18/2009 22:05:15 Ic CC Back at D1. Request: Release FWP Engine PFau + 2 from Kootenal. Ty back at D2. Talk with Shrub for 7:19 plan 07/22/2009 13:24:16 IC KM Order 42MA for a cycle of bucket drops 07/22/2009 15:35:01 42MA KM Ready to III, pilot + 3, 2 hrs fuel to fire 07/22/2009 15:01:49 IC KM Landed north of Kootenai TH, hooked up bucket, F/F local 07/22/2009 15:01:49 IC KM Requesting angther cycle from 42MA 07/22/2009 15:01:49 IC KM Released 42MA 07/22/2009 15:01:49 IC KM Released 42MA 07/22/2009 15:01:40 IC KM Released 42MA 07/22/2009 10:01:71:758 IC TL Want to order both hells - medium coming shortly, 42MA 07/22/2009 12:34:30 IC KM Have Sustar ation his cell when he gets on the ground 07/23/2009 12:34:30 IC KM Have Buster ation his cell when he gets on the ground. </td <td>07/18/2009 18:33:11</td> <td>ic</td> <td>CC</td> <td>Fires looking good. Fire going in right direction. Pulling out to camp.</td>	07/18/2009 18:33:11	ic	CC	Fires looking good. Fire going in right direction. Pulling out to camp.
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97/22/2009 13:24:16 IC KM Order 42MA for a cycle of bucket drops 07/22/2009 13:58:01 42MA KM Ready to lift, pliot + 3, 2 hrs fuel to fire 07/22/2009 14:14:29 42MA KM Landed north of Kootenal TH, hooked up bucket, F/F local 07/22/2009 15:01:49 IC KM 42MA on scene 07/22/2009 15:01:49 IC KM 42MA on scene 07/22/2009 15:01:40 IC KM 42MA on scene 07/22/2009 15:01:40 IC KM Released 42MA 07/22/2009 15:01:40 IC KM Released 42MA 07/22/2009 10:22:02 IC KM At 1945. Ty was leaving the fire. 07/22/2009 12:34:30 IC KM Have Buster call on this call when he gets on the ground 07/22/2009 12:34:30 IC KM Have Buster call on this call when he gets on the ground 07/23/2009 12:34:30 IC KM At 2MA will be headed that way after they are done fueling - 48B is at down at Kootenal Tallhead 07/	07/18/2009 22:05:15	ic	cc	Back at D1. Request: Release FWP Engine PFau + 2 from Kootenai. Ty back at D2. Talk with Shrub for 7-19 plan
07/22/2009 13:58:01 42MA KM Ready to lift, pilot + 3, 2 hrs fuel to fire 07/22/2009 13:58:09 KM IC 42MA headed his way 07/22/2009 11:14:29 42MA KM Landed north of Kootenal TH, hooked up bucket, F/F local 07/22/2009 15:01:49 IC KM 42MA on scene 07/22/2009 15:01:49 IC KM Requesting another cycle from 42MA 07/22/2009 15:08:01 KM IC Fuel track will be burping up onth, they will work for another fuel cycle, then come back to do Ward Mtn mission 07/22/2009 17:14:10 IC KM At 1945, Ty was leaving the fire. 07/22/2009 12:34:30 IC TL Wart to order both hells - medium coming shortly, 42MA 07/22/2009 12:34:30 IC KM Have Buster call on his cell when he gets on the ground 07/22/2009 12:34:30 IC KM Have Buster call on his cell when he gets on the ground 07/23/2009 12:41:27 IC KM Check the availability of 42MA or bucket work - thinking about setting 466 down for IA, and using 42MA.	07/22/2009 13:24:16	IC	KM	Order 42MA for a cycle of bucket drops
97/22/2009 13:59:09 KM IC 42MA headed his way 07/22/2009 14:14:29 42MA KM Landed noth of Kootenal TH, hooked up bucket, F/F local 07/22/2009 15:01:49 IC KM Requesting another cycle from 42MA 07/22/2009 15:01:49 IC KM Requesting another cycle, then come back to do Ward Mtn mission 07/22/2009 15:01:40 IC KM Released 42MA 07/22/2009 15:01:40 IC KM Released 42MA 07/22/2009 15:31:37:58 IC TL Want to order both hells - medium coming shortly, 42MA 07/23/2009 12:32:32 IC KM F/F local with 468 - also check to see if the pond at the mouth of Kootenal is OK to use 07/23/2009 12:34:30 IC KM Art 1945, Ty was teaving the fire. 07/23/2009 12:34:30 IC KM Have Buster could have a see the pond at the mouth of Kootenal is OK to use 07/23/2009 12:34:17 IC KM Check the availability of 42MA for bucket work - thinking about setting 468 down for 1, and using a 42MA. 07/23/2009	07/22/2009 13:58:01	42MA	KM	Beady to lift nilot + 3.2 hrs fuel to fire
07/22/2009 14:14:29 42MA KM Landed north of Kootenal TH, hooked up bucket, F/F local 07/22/2009 15:01:49 IC KM Requesting another cycle from 42MA 07/22/2009 15:08:01 KM IC Fuel truck will be bumping up north, they will work for another fuel cycle, then come back to do Ward Min mission 07/22/2009 15:08:01 IC KM Released 42MA 07/22/2009 20:05:22 IC KM At 1945, Ty was leaving the fire. 07/22/2009 11:37:58 IC TL Want to order both hells - medium coming shortly, 42MA doing recon first 07/22/2009 12:34:30 IC KM Have Buster call on his cell when he gets on the ground 07/22/2009 12:34:30 IC KM Have Buster call on his cell when he gets on the ground 07/22/2009 12:41:27 IC KM Have Buster call on his cell when he gets on the ground 07/23/2009 12:47:31 KM IC 42MA will be headed that way after they are done fueling - 48B is set down at Kootenal Creek HB, working on permission to dip out of the ponds. 07/23/2009 14:06:42 IC KM Gening to try attret the date to dip out of with 46B 07/23/2009 15:03:20 IC KM Requesting 42MA for a cycle 07/23/2009 15:03:20 IC KM Requesting 42MA for a cycle 07/23/2009 15:31:33 IC KM Reque	07/22/2009 13:59:09	KM	IC	42MA headed his way
07/22/2009 14:18:09 IC KM 42MA on score gather cycle from 42MA 07/22/2009 15:01:49 IC KM Requesting another cycle from 42MA 07/22/2009 15:01:40 IC KM Requesting another cycle from 42MA 07/22/2009 17:14:10 IC KM Released 42MA 07/22/2009 05:22 IC KM Released 42MA 07/22/2009 12:33:58 IC TL Want to order both hells - medium coming shortly, 42MA 07/22/2009 12:34:30 IC KM At 1945, Ty was leaving the fire. 07/22/2009 12:34:30 IC KM Fr/F local with 468 - also check to see if the pond at the mouth of Kootenal is OK to use. 07/23/2009 12:41:27 IC KM Check the availability of 42MA for bucket work - thinking about setting 468 down for IA, and using 42MA. 07/23/2009 12:47:31 KM IC KM Wondering about 42MA - cancel if he has not headed out yet - to or much fire to be effective. 07/23/2009 14:06:42 C KM Wondering about 42MA - cancel if he has not headed out yet - to or much fire to be effective. 07/23/2009 15:03:20 IC KM Requesting 42MA a cancel if he has not headed out yet - to or much fire to be effective. 07/23/2009 15:03:20	07/22/2009 14:14:29	42MA	KM	Landed north of Kootenai TH, booked up bucket, E/E local
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07/22/2009 15.05.01 KM Fuel truck will be dumping up norm, they will work for another fuel cycle, then come back to do Ward Mtn mission 07/22/2009 12:05:22 IC KM At 1945, Ty was leaving the fire. 07/22/2009 12:05:22 IC KM At 1945, Ty was leaving the fire. 07/22/2009 12:05:22 IC KM At 1945, Ty was leaving the fire. 07/23/2009 12:23:22 IC KM Have Suster call on his cell when he gets on the ground 07/23/2009 12:34:30 IC KM Have Buster call on his cell when he gets on the ground 07/23/2009 12:41:27 IC KM Check the availability of 24MA for bucket work - thinking about 24MA. 07/23/2009 12:47:31 KM IC 42MA will be headed that way after they are done fueling - 46B is set down at Kootenal Creek HB, working on permission to dip out of the ponds. 07/23/2009 13:03:12 IC KM Going to try a different lake to dip out of with 468 07/23/2009 14:06:42 IC KM Bending 2 FaW folks to Kootenal Trailhead 07/23/2009 14:06:42 IC KM Requesting 42MA - cancel if he has not headed out yet + too much fire to be effective. 07/23/2009 15:03:20 IC KM Requesting 42MA for a cycle 07/23/2009 15:25:54 <td>07/22/2009 15:01:49</td> <td>IC ICM</td> <td></td> <td>Requesting another cycle from 42MA</td>	07/22/2009 15:01:49	IC ICM		Requesting another cycle from 42MA
07/22/2009 17.14.10 IC KM At 1985, Ty was leaving the fire. 07/22/2009 20:05:22 IC KM At 1985, Ty was leaving the fire. 07/23/2009 12:23:22 IC KM F/F local with 468 - also check to see if the pond at the mouth of Kootenai is OK to use 07/23/2009 12:24:30 IC KM Have Buster call on his cell when he gets on the ground 07/23/2009 12:34:30 IC KM Have Buster call on his cell when he gets on the ground 07/23/2009 12:47:31 KM IC 42MA will be headed that way after they are done fueling - 468 is set down at Kootenai Creek HB, working on permission to dip out of the ponds. 07/23/2009 13:03:12 IC KM Wondering about 42MA - cancel if he has not headed out yet - too much fire to be effective. 07/23/2009 14:06:42 IC KM Requesting 42MA for a cycle 07/23/2009 14:06:42 IC KM Requesting 1CT3 to take over fire - preferably have in place this afternoon to lei put of firetnet lake to dip out of with 468 07/23/2009 15:25:54 42MA TL Senting 2 F&W folks to Kootenai, put bucket on, fl locally 07/23/2009 15:36:25 Buster KM Requesting 1CT3 to take over fire - preferably have in place this afternoon to lei in with usure in aplace this afternoon to lei in with current IC. Also would like a DI	07/22/2009 15:08:01			another fuel cycle, then come back to do Ward Mtn mission
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07/23/2009 15:38:25BusterKMRequesting ICT3 to take over fire - preferably have in place this afternoon to tie in with current IC. Also would like a DIVS(T) type to handle operations side of things. Wondering about status of IHC.07/23/2009 15:40:20KMBusterCary will take over as ICT3 - he will be up there sometime this afternoon/evening to tie in with Buster at the station. Still working on finding out availability of DeMoss for ops, and IHC will be home tomorrow sometime.07/23/2009 15:51:53ICKM468 on the ground, 42MA still working the fire07/23/2009 17:27:40ICKMReleased 42MA & 468 - headed back to Hamilton shortly07/23/2009 18:45:37ICKMHeaded off the hill in 15 - 30 minutes07/23/2009 19:16:27ICTLBack at rig, headed to stevi07/23/2009 19:17:18ICTLVould like Heli's first thing in AM07/24/2009 09:01:40ICTL42MA headed to you07/24/2009 09:21:2142MATLOff Helibase P+3 for recon	07/23/2009 15:25:54	42MA	TL	Setting down at Kootenai, put bucket on, ff locally
07/23/2009 15:40:20KMBusterCary will take over as ICT3 - he will be up there sometime this afternoon/evening to tie in with Buster at the station. Still working on finding out availability of DeMoss for ops, and IHC will be home tomorrow sometime.07/23/2009 15:51:53ICKM468 on the ground, 42MA still working the fire07/23/2009 17:27:40ICKMReleased 42MA & 468 - headed back to Hamilton shortly07/23/2009 18:45:37ICKMHeaded off the hill in 15 - 30 minutes07/23/2009 19:16:27ICTLBack at rig, headed to stevi07/23/2009 19:17:18ICTLWould like Heli's first thing in AM07/23/2009 19:59:10ICTL42MA headed to you07/24/2009 09:01:40ICTLLanding at Kootenai Helibase07/24/2009 09:21:2142MATLOff Helibase P+3 for recon	07/23/2009 15:38:25	Buster	КМ	Requesting ICT3 to take over fire - preferably have in place this afternoon to tie in with current IC. Also would like a DIVS(T) type to handle operations side of things. Wondering about status of IHC.
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07/24/2009 09:21:21 42MA TL Off Helibase P+3 for recon	07/24/2009 09:11:11	42MA	TI	Landino at Kootenai Helibase
	07/24/2009 09:21:21	42MA	TL	Off Helibase P+3 for recon

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Entry Date/Time	From	То	Details
07/24/2009 14:32:11	IC	TL	Need to sling gear in to fire in an hour to 1 1/2 hours
07/24/2009 16:21:48	IC	TL	REquest Medium with bucket, contact Dale Pfau
07/24/2009 16:50:30	468	TL	With IC for FF
07/24/2009 16:52:06	468	KM	Departing Hamilton for Kootenai, pilot only, 1.5 fuel - @ 1637
07/24/2009 16:52:20	IC	КM	At 1640, copied 468 enroute
07/24/2009 16:52:52	IC	КM	At 1640, requests 42MA for bucket work (one cycle), then
07/24/2000 17:02:06	40044	тı	slingload mission
07/24/2009 17:03:00	42IVIA		Marta will active to CCF
07/24/2009 19:21:44	68		
07/25/2009 10:08:15		00	Has a FF12 w/ sprained ankle at Medivac site. Will need 2 sling loads of gas flown up and can do both missions then. Will call back when sling loads are
07/25/2009 10:48:14	ic	CC	REQ 468 T2 w/ bucket. MGR & Fuel truck heading up to staff dipsite. 30 ETA
07/25/2009 10:58:53	ic	CC	informed that 468 is 30 out.
07/25/2009 11:30:17	СС	iC	Spot weather updated > Pfau
07/25/2009 11:41:42	468	TL	in contact with Kootenai
07/25/2009 13:00:23	Taylor	CC	No need 4 42MA to pick up sprained ankle guy. Coming out on Mule, still need 2 sling loads
07/25/2009 13:01:13	A2N10	CC	655 / 3 people / 1.5 br fuel + fuel truck
07/25/2009 13:11:44	421017	00	
07/25/2009 15:11:44	421014	00	di HD
07/25/2009 16:27:24		_	42MA coming back
07/26/2009 09:05:19	IC	TL	Need to push recon back due to new IA, 2 mediums are in Hamilton available
07/26/2009 09:53:19	IC	КМ	Requesting both medium helicopters, contact on ground will be Pfau. Would like for 109MA to use the bucket instead of the tank today.
07/26/2009 10:14:56	468	TL	in contact with KC Helibase FF with them
07/30/2009 14:23:39	IC	TL	request 109MA for 1 cycle, spot east in av chute
07/30/2009 18:20:21	IC	BM	RELEASING 109MA BACK TO HAM.
07/30/2009 18:20:47	109	BM	9 MIN FLIGHT TIME 40 MIN FUEL
07/30/2009 18:44:21	IC	BM	IN BOUT HAM
07/30/2009 18:44:42	109MA	BM	ON THE GROUND HAMILTON
07/31/2009 17:03:25		BM	
		DIVI	
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Report by Team

Team Name: DISTRICT

Begin Date: 12-JUL-2009

Incident Name: KOOTENAI FIRE

Incident Identifier: 2009-MTBRF-005112

Complex Number:

Management Type: IA-EA

Date Raised: 25-JUL-2009

Time Raised: 13:19

Concerns or Incident Objectives (site specific) Implements:

Precipitating Conditions: Firefighter Safety, Ecological Effects, Community and External Relations, Operational Efficiency/Effectiveness, Financial Efficiency/Effectiveness, Fire Behavior/Fire Activity, Values at Risk

Decision Scope: Incident Level

After careful consideration, the decision was made to keep the fire from crossing Kootenai Creek to the south; and try and keep it from moving east beyond a definite rocky ravine. Fire movement to the ridgetop north and to the west further into the wilderness would not be impeded. Spotting over the north ridge would be monitored for further movement into Bass Creek (not considered too likely) Movement to the west was no threat to values and would enhance wilderness values; although there is some possiblity that the fire could still hook into Bass Creek and later be an issue. In addition, a type 3 team would be assembled to develop a long term plan in the event the fire came across the ravine and out into the valley. Fire behavior analysis was also requested to assist with the long term plan.

Decision Description:

It is not possible or desireable to put this fire completely out, due to safety concerns to firefighters working on steep slope with rolling Rationale: debris and underslung midslope line construction, and due to their ineffectiveness because of these same problems. Aerial water drops and retardant would merely shift the risk from ground crews to pilots and aircraft and would still not be effective. Heavy fuels from lack of fire for probably 100 years on this site can not be put out by water drops. Because of the likelihood of this fire coming out into the valley and threatening high values, the long term plan would be developed to include contingencies for this event.

Positive Implications: Firefighter Safety

Public Safety Ecological Effects Internal Organizational Issues Operational (resource) efficiency Financial efficiency/effectiveness Value at Risk Incident Duration, Size Complexity

Negative Implications:

Primary Lead: FFMO

Concurrences: AA FS

Outcomes and Learning

Since the initial decision a type 3 Forest team has been assembled. The long term plan is about to be completed. The fire has backed to the trail to the south and crews are holding the fire at the trail with some success. The fire is still hung up in the ravine but has now increased in size to about 700 acres. A fairly significant public involvement plan was developed and has been successfully implemented to date with a well received public meeting last night. Smoke continues to be an issue. The contingency plan is being finalized. There has been some use of aerial water drops to assis the crews with holding the fire at the trail. There have been no significant wind events on the fire and the weather continues to be hot and dry. This fire still has good potential to cross the ravine to date.

Date Taken: 25-JUL-2009

Time Taken: 00:00

To date the initial decisions have been effective. Firefighter and Consequences: pilot/aircraft risk has been minimized the fire has not moved significantly south or east. A contingency plan is near completion. A type 3 team is in place ready to implement until complexity requires a more experienced and capable team.



Incident Name: Kootenai Creek Decision Published: 07/13/2009 16:28

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Decision

Decision Summary

Decision Information

NAME	VALUE
Published	07/13/2009 16:28
Estimated Cost	\$100,000.00
Incident Owner(s)	Jacquie Parks
Editor(s)	Bruce Windhorst, Chuck oliver, Jacquie Parks
Reviewer(s)	Bruce Windhorst, Jacquie Parks
Approver(s)	Chuck oliver

Decision History

Editor Name	Action	Date	Comment
oliver, Chuck	Published	07/13/09 16:28	
oliver, Chuck	Approved	07/13/09 16:28	
Parks, Jacquie	Review Requested	07/13/09 16:25	
Parks, Jacquie	Created	07/13/09 13:28	

Assessment

Incident Information

Content

Incident Information

NAME	VALUE
Incident Name	Kootenai Creek
Latitude	46.5542 N
Longitude	114.2367 W
Geographic Area	Northern Rockies
Jurisdiction(s)	USFS
Unit Name	Bitterroot National Forest
Fire Number	2009-MTBRF-5112
Fire Code	P1EKS4
Incident Start	Jul 12, 2009 17:37
Contained	
Controlled	· · · · ·
Out	· .
Incident Cause	Natural
Nationally Significant	No
Incident Size	5.0 acres
Owner Name(s)	Jacquie Parks

Weather

Content

Fire Weather Zone Forecast

000 FNUS55 KMSO 132052 CCA FWFMSO

FIRE WEATHER PLANNING FORECAST FOR WRN MONTANA AND N CNTRL IDAHO...CORRECTED NATIONAL WEATHER SERVICE MISSOULA MT 248 PM MDT MON JUL 13 2009

.DISCUSSION...A MOIST LOW PRESSURE SYSTEM WILL GRADUALLY SHIFT TO THE EAST TUESDAY. HIGH PRESSURE AND A MUCH WARMER AND DRYER AIR MASS IS EXPECTED TO DEVELOP WEDNESDAY THROUGH SATURDAY. SOME HIGH LEVEL MOISTURE MAY SHIFT NORTHWARD INTO PORTIONS OF IDAHO AND SOUTHWEST MONTANA LATE THIS WEEK.

IDZ102-103-MTZ109-142100-PALOUSE/HELLS CANYON-CLEARWATER/NEZ PERCE-BITTERROOT-

Decision for "Kootenai Creek" Published "07/13/09 16:28"

248 PM MDT MON JUL 13 2009 /148 PM PDT MON JUL 13 2009/ . TONIGHT... SKY/WEATHER.....MOSTLY CLOUDY. CHANCE OF SHOWERS AND THUNDERSTORMS. CHANCE OF SHOWERS AFTER MIDNIGHT. MIN TEMPERATURE.....40-50. 20-FOOT WINDS..... LOWER ELEVATION.....NORTHWEST 5-15 MPH DECREASING TO VARIABLE LESS THAN 5 MPH AFTER MIDNIGHT. RIDGE TOP.....WEST 5-15 MPH. HAINES INDEX.....2 VERY LOW. CWR (> 0.10 INCH)...40 PERCENT. .TUESDAY ... SKY/WEATHER.....PARTLY CLOUDY. SLIGHT CHANCE OF SHOWERS. SLIGHT CHANCE THUNDERSTORMS...MAINLY MTZ109. MAX TEMPERATURE....75-85 VALLEYS AND 60-70 RIDGES. 20-FOOT WINDS..... LOWER ELEVATION.....VARIABLE LESS THAN 7 MPH. RIDGE TOP.....NORTHWEST 5-10 MPH. HAINES INDEX...... VERY LOW. LAL..... MTZ109. CWR (> 0.10 INCH)...10 PERCENT. .TUESDAY NIGHT... SKY/WEATHER.....MOSTLY CLEAR. MIN TEMPERATURE.....43-53. 20-FOOT WINDS..... LOWER ELEVATION..... NORTHWEST 5-10 MPH IN THE EVENING BECOMING DOWNSLOPE/DOWNVALLEY 2-5 MPH. RIDGE TOP.....WEST 5-10 MPH. HAINES INDEX..... VERY LOW. LAL.....1. CWR (> 0.10 INCH)...0 PERCENT. .WEDNESDAY... SKY/WEATHER.....MOSTLY SUNNY. MAX TEMPERATURE.....83-93 VALLEYS AND 70-80 RIDGES. MIN HUMIDITY......10-20 PERCENT VALLEYS AND 20-30 PERCENT RIDGES. 20-FOOT WINDS..... LOWER ELEVATION..... VARIABLE LESS THAN 7 MPH. RIDGE TOP.....WEST 5-15 MPH. HAINES INDEX.....4 LOW. LAL....1. CWR (> 0.10 INCH)...0 PERCENT. .THURSDAY...MOSTLY CLEAR. LOWS 50-60. HIGHS 80-90. SOUTHWEST WINDS 5-10 MPH. .FRIDAY...MOSTLY CLEAR. LOWS 55-65. HIGHS 85-95. NORTHWEST WINDS 5-10 MPH. .SATURDAY...MOSTLY CLEAR. LOWS 55-65. HIGHS 85-95. SOUTHWEST WINDS 5-10 MPH. .SUNDAY...PARTLY CLOUDY. SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 55-65. HIGHS 85-95.

.MONDAY...PARTLY CLOUDY. SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 55-65. HIGHS 85-95.

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SHORT TERM...KITSMILLER LONG TERM...BAUCK

Content

Values Inventory Information

NAMEVALUEPlanning Area NameCurrentIncident NameKootenai CreekPlanning Area Size32,540 acres

Category	Value	Data Source	Currency	Coverage
Building Clusters: Ravalli	3	US Counties / FGDC Cadastral Subcomm.		Available counties in AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY
Census Housing Values	\$0	U.S. Census Bureau	01/01/2000	National
Class 1 Airsheds	21,267 acres	NPS Air Resources Division	Various	National
County: Ravalli	32,571 acres	Tele Atlas North America, Inc., ESRI	4/1/2008	National
Jurisdiction: Private	791 acres	Primarily BLM Land Status	01/01/2007	AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY
Jurisdiction: USFS	31,754 acres	Primarily BLM Land Status	01/01/2007	AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY
Jurisdiction: Water	26 acres	Primarily BLM Land Status	01/01/2007	AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY

Currency/Coverage of Values Queried that Produced No Results

Category	Data Source	Currency	Coverage
Major Roads	Tele Atlas North America, Inc., ESRI	11/01/2006	National
Electric Power Plants	HSIP	03/01/2008	8 National
Electric Sub Stations	HSIP	03/01/2008	8 National
Oil and Gas Pipelines	HSIP-PennWell MAPSearch	03/01/2007	⁷ National
Ozone Non-Attainment	EPA	Unknown	National
NPS Buildings	NPS		Participating NPS units
Particulates Non-Attainment	EPA	2009	National

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Communication Towers	FCC	03/11/2009 National
Habitat: Mexican Spotted Owl	Gila National Forest	03/01/2008 Habitat restricted to Gila National Forest
Habitat: Southwestern Willow Flycatcher	Gila National Forest	03/01/2008 Habitat restricted to Gila National Forest
Habitat: Sage Grouse	BLM	07/15/2008 National
Electric Transmission Lines	HSIP	03/01/2008 National

Objectives

Content

Incident FMU List

Unit	FMU	Acres
MTBRF	FMU1_WUI	4691.1
MTBRF	FMU2_Roaded	2937.9
MTBRF	FMU3_Roadless	3793.2
MTBRF	FMU4_Wilderness	21087.9

Incident Objective List

Active	Inactive	Incident Objective
		Protect all values at risk including private property, cultural sites and the climbers wall east toward Kootenai Trailhead.
07/13/09		Keep the fire north of Kootenai Creek and South of the Bass/Kootenai Divide Ridge.
		Allow fire to play its natural role in designated wilderness to the west. Utilize natural barriers and aviation assets to limit fire spread to the east where values at risk exist.

Incident Requirement List

Active	Inactive	Incident Requirement
		Have lakes pre-approved prior to dipping activities taking place (Resource Advisor).
		Provide for EMS protocols.
07/13/09		Pre authorization for pumps/chainsaws in the wilderness must be obtained prior to use.
		Use MIMT on all management actions
		The forest will follow & coordinate smoke management with MT/ID Air Quality Bureau

07/13/09	Aviation flight path should try to stay south of Kootenai Creek (if safe to do so) and stay as far away as possible from the cliff north of the trail for the 1st half mile of the canyon to minimize impact to the Peregrine Eyrie sites which are active at this time.
07/13/09	Avoid bucket operations directly in Kootenai Creek as this is a Bull Trout Stream. If bucket operations are used, ensure the bucket is debris/weed free prior bucket operations occuring especially if using Lappi Lake or other high elevation lakes in the area.

Strategic Objective List

Unit/FMU	Active	Strategic Objective
		FMU1_WUI
		The following 4 strategic objectives are more or less common to all BRF FMU's:
		 Make the health and safety of firefighters and the public the highest priority at all times. Protect identified natural and cultural resource values at risk. Plan and conduct fire management activities that protect identified private/public resources. Utilize fire to maintain and/or improve healthy, dynamic
		ecosystems that meet land management goals.
		Incident specific objectives and requirements will be added based on the checklist located in J:\fsfiles\office\fire_response\WFDSS_2009
MTBRF/FMU1_WUI	07/10/09	From the 2009 BRF FMP:
		FMU1_WUI is the Forest urban interface area which includes areas where: (1) the threat to life and private property are extremely high; (2) adverse public reaction and pre-existing controversies/relationships are anticipated; and (3) resource values are extremely high. This FMU also includes private lands where the Forest Service has protection responsibilities. The risk of loss continues to escalate as settlement patterns increase along the interface. Much of the area within this FMU includes Forest Plan Management Areas (MA) 1, 2, and 3a, where timber management is emphasized.
		For the majority of fires in FMU1, suppress those that have the potential to damage timber and/or property under current or predicted fire behavior and intensities. Under conditions where the objective of protecting timber and property values can be met, consider fire responses that will meet resource

		objectives. In all cases, firefighter and public safety will be provided for at all times.
		During multiple fire incidents, initial attack resources will be prioritized to this FMU before all others <i>in most cases</i> . There may be instances when potential threats to safety or values at risk will be greater from fires in other FMUs.
		Continue to plan and accomplish fuel reduction activities to alter fire behavior from that characterized by high-intensity and/or crown fire behavior to that characterized by low/moderate intensity surface fire behavior.
		FMU2_Roaded
		The following 4 strategic objectives are more or less common to all BRF FMU's:
		 Make the health and safety of firefighters and the public the highest priority at all times.
		 Protect identified natural and cultural resource values at risk.
		 Plan and conduct fire management activities that protect identified private/public resources. Utilize fire to maintain and/or improve healthy, dynamic ecosystems that meet land management goals.
		Incident specific objectives and requirements will be added based on the checklist located in T:\fsfilas\sfiles\files\files.accesses\WEDSS_2009
MTBRF/FMU2_Roaded	07/10/09	5. (15) nes (0) nee (nne_response (W) DSS_2009
		From the 2009 BRF FMP:
		This FMU includes: (1) high value, roaded forest lands; (2) improved recreation sites and facilities; and (3) other roaded active areas within the fire protection zone. As with FMU 1, much of this area includes Forest Plan Management Areas (MA) 1, 2, and 3a, where timber management is emphasized.
		For the majority of fires in FMU2, suppress those that have the potential to damage timber and/or property under current or predicted fire behavior and intensities. Under conditions where the objective of protecting timber and property values can be met, consider fire responses that will meet resource objectives. In all cases, firefighter and public safety will be provided for at all times.
		During multiple fire incidents, initial attack resources will be

		prioritized based on proximity to values at risk.
,		Continue to plan and accomplish fuel reduction activities to alter fire behavior from that characterized by high-intensity and/or crown fire behavior to that characterized by low/moderate intensity surface fire behavior.
		FMU3_Roadless
		The following 4 strategic objectives are more or less common to all BRF FMU's:
		 Make the health and safety of firefighters and the public the highest priority at all times. Protect identified natural and cultural resource values at risk. Plan and conduct fire management activities that protect identified private/public resources. Utilize fire to maintain and/or improve healthy, dynamic ecosystems that meet land management goals.
MTBRF/FMU3_Roadless	07/10/09	Incident specific objectives and requirements will be added based on the checklist located in J:\fsfiles\office\fire_response\WFDSS_2009 From the 2009 BRF FMP:
		This FMU includes: (1) all the non-wilderness roadless areas; and (2) the higher elevation areas with old, overmature timber stands which can support high intensity stand replacement fires during times of drought. These areas, for the most part, have no planned timber harvest.
		Routinely consider managing unplanned ignitions to meet resource and human value protection objectives. In all cases, firefighter and public safety will be provided for at all times. During multiple fire incidents, initial attack resources will be prioritized based on proximity to values at risk. There may be instances when potential threats to safety and values at risk will alter this prioritization.
		FMU4_Wilderness
		The following 4 strategic objectives are more or less common to all BRF FMU's:
		 Make the health and safety of firefighters and the public the highest priority at all times. Protect identified natural and cultural resource values at

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•		 risk. Plan and conduct fire management activities that protect identified private/public resources. Utilize fire to maintain and/or improve healthy, dynamic ecosystems that meet land management goals.
		Incident specific objectives and requirements will be added based on the checklist located in J:\fsfiles\office\fire response\WFDS5 2009
		From the 2009 BRF FMP:
MTBRE/FMUA Wildemess 07	/10/00	This FMU includes the wilderness areas of the BRF.
WITBRITTWIC4_ winderness 07/	10/09	Unplanned ignitions in these areas will routinely be managed for resource and human value protection objectives using approved wildland fire use guides. In all cases, firefighter and public safety will be provided for at all times.
	*	For all ignitions, fire responses will use tactics and strategies compatible with wilderness values.
		During multiple fire incidents, initial attack resources will be prioritized in FMU 4 as the last priority, after all other FMUs, <i>in most cases</i> . There may be instances when potential threats to safety and values at risk will alter this prioritization.

Management Requirement List

There are no Management Requirements.

Courses of Action

Content

Active	Inactive	Strategic Direction
07/13/09		Follow the pre-planned response
07/13/09		Post signs at Kootenai Trailhead #53 advising public of fire situation.
07/13/09		Trail closure/area of #53 will occur if fire activity or aviation activity poses a safety risk to the public
	-	Limit eastern movement of fire by utilizing aviation resources to hang the fire up

Strategic Direction List

07/13/09	by using an avalanche to the east.
07/13/09	Utilize crews, aviation resources and pumps, hoselays, handline and burnout operations to keep fire north of Kootenai Creek.
07/13/09	Develop an information network to local citizens, local officials through timely press releases and news updates.
07/13/09	Evaluate weather forecast and effect on fire behavior over the next 24 hours. Request a FS Pro Run if rain event does not materialize.
07/13/09	Develop and implement a plan by reconning down canyon to the east and look for opportunities to establish management actions point that limit fire spread to the east.

Validation

Content

Date	User	Action	Comments
07/13/2009 00:55	Parks, Jacquie	Strategic Objectives Being Satisfied	
07/13/2009 09:54	Parks, Jacquie	Strategic Objectives Being Satisfied	
07/13/2009 14:28	Parks, Jacquie	Incident and Strategic Objectives Being Satisfied	The fire received rain as of $7/13/09$ Smith Creek RAWS received .19 inches of rain in the last 24 hours. The fire is currently receiving rain. At the start of the fire the ERC was 44 and BI = 47. Ground crews are walking into the bottom of the fire to see if the initial plan to hang up the fire to the east in the avalanche chutes will work. Fuels will be evaluated to determine amount of rain and fuel moistures if there is enough there to

Validation History

hold the fire north of Kootenai Creek. Access to the fire is steep and dangerous so the decision to monitor the fire from the Kootenai Creek Trail is the best course of action at this time. Waiting for ICT4 Crowe to give feedback about actual conditions and other options that may better meet course(s) of action.

Rationale

Content

Terrain and inaccessibity of the fire would adversely impact Firefighter and public safety.

Current location and size of fire in inaccessible terrain makes will limit direct attack on the fire perimeter with ground resources. Natural barriers to the east and MIMT tactics will allow us to check the fire spread and protect values at risk. Current fire behavior and weather conditions with rain/lightinin over the fire in the last 24 hours prohibit crews from working on the fire safely. Values at risk such as private land, climbers wall, Peregrine Falcon Eyrie site, pictographs at the entrance to the canyon and other scattered archeological sites in Kootenai Creek are of main concerns at this time.



Forest Service **Stevensville Ranger District**

88 Main Street Stevensville, MT 59870 406 777-5461

File Code: 5130 Route To: Date: July 24, 2009

Subject: Delegation of Authority, Kootenai Creek Fire

To: Cary Taylor, Incident Commander, Kootenai Creek Fire

I welcome you and your team to the Kootenai Creek Fire and wish you a safe and successful assignment.

I hereby delegate the authority for the management of the Kootenai Creek Fire to you as the Incident Commander. This delegation carries the full responsibility for the management of all the assigned firefighting resources, aviation assets, equipment, costs and the rehabilitation of suppression impacts directly related to this wildfire as a result of your tactical actions.

You will assume command of the incident from Ty Crowe at 0800 July 24, 2009. It is paramount that close coordination with Bruce Windhorst, Stevensville District FMO, Brad Lord Stevensville Rural Fire Chief, private landowners in the vicinity of the fire and Dan Ritter, District Ranger.

I have listed the Leaders Intent as a separate attachment to facilitate making changes to items that need emphasis without having to change the Delegation of Authority.

Your primary Stevensville District contact will be Bruce Windhorst but I expect you to participate in the planning meetings and touch base with me on a regular basis.

l look forward to working with you and your team for the duration of your assignment, and expect us to be active partners with you in terms of any strategic discussions and/or adjustments.

DANIEL G. RITTER District Ranger

Enclosure



It's Cool to Be Safe

Printed on Recycled Paper

Leaders Intent

I expect you to evaluate risk to firefighters and the effectiveness of all suppression actions.

I expect you and your team to take the lead in development of a long term plan.

I expect your team to provide accurate and timely information to the public.

Operational objectives:

-Keep fire north of Kootenai Creek

-Keep fire from moving east of the main avalanche chute

The Incident Business Advisor is Sheri Schlader and she will available to discuss and validate daily operational costs with you and your Finance Section Chief. Utilize the Incident Business Management Guide to assist with business management decisions.

The Resource Advisor is Bill Goslin and he will available to discuss and validate daily tactical operations with your Operation Section Chief.

Incident Objectives:

Ensure all actions reflect a commitment to firefighter and public safety through the development of tactical operations commensurate with values at risk, probability of success and the use of the least number and types of firefighting resources necessary to successfully accomplish the mission.

Be creative, decisive and exercise good judgment in decision making. Make reasonable and prudent decisions to accomplish the agency/agencies mission while minimizing exposure to hazards for the safety and welfare of all personnel on the fire and for the general public.

Coordinate any remaining tactical operations with assigned Resource Advisors. Establish all your tactical operations within the boundaries of the identified strategy, utilize existing road and trail systems, changes in vegetation, fuels, and weather, and natural barriers to minimize the suppression-related impacts on the natural and cultural resources and any other identified improvements that occur within the fire area.

Monitor cumulative fatigue, ensure all assigned firefighting personnel receive adequate rest, and any operational period in excess of 16 hours requires documentation and measures initiated to reduce fatigue.

Ensure prompt and accurate communications that fosters discussions and encourages interactions with the local cooperators and private landowners.

Minimum Impact Management Tactics (MIMT) will be used as much as possible to reduce suppression impacts. All questions concerning potential resource impacts related to strategic or tactical operation will be handled through the assigned Resource Advisor.

End State:

The Kootenai Creek Fire is safely, efficiently and mindfully managed until all of the incident objectives have been successfully obtained or a season ending event occurs. The fire is suppressed and identified values at risk were protected by using the appropriate resources to implement tactics in locations with reasonable probabilities for success. When the last incident management team leaves there have been no serious accidents or injuries, there will be favorable results to the land and natural resources, and we will have made a wise investment of taxpayer assets.

Kootenai Creek

Incident Action Plan July 24 - July 26, 2009 (0700-2000)

Day Shift



ORGANIZATION A	SSIGNMENT LIST	9.	Operatio	ons Se	ction
1. Incident Name - Kootena	i Creek	Chief			
	Ī	Deputy			
		a statistic	All - Divis	sions/C	iroups
2. Date	3. Time	Branch Director			-
7/24/09	0800	Deputy			
4. Operational Period		Division/Group	Kootenai		Demoss, Doug
0700-2000		Division/Group	Kootenai		Pfau, Dale
5.	mmander and Staff	Division/Group			
Incident Commander	Cary Taylor				
(Type 3)				· · · · · · · · · · · · · · · · · · ·	
		an ann an thairte an th		andre interster	al an air an
Safety Officer	1BA	D.			
Information Officer	Nan Christianson/Betsy Ballard	Branch Director			
District Representatives	х.	Deputy			
6. Agency	Representatives	Division/Group			
Agency	Name	Division/Group			
MT-BRF (Cultural Resource/Outfitters	Bill Goslin/Mary Williams	Division/Group		·	
Line Officer	Dan Ritter	Division/Group			· · · · · · · · · · · · · · · · · · ·
Representative	·	Division (Onese			·
		Division/Group		<u> Alexandrowski</u>	
		Branch Director			eune nach ziele indezie ei
		Deputy			
Chief	Ming Section	Deputy Division/Group			
Doouty		Division/Group			
Besources Unit		Division/Group			
Situation Unit	Jacquie M. Parks	Division/Group	. · ·		
		Division/Group			
Demobilization Unit		- Division Group	Air Ope	rations	Branch
Demobilization of the				Hamilto	n Helihaso
Technical Specialists		Helibase Manager			
Human Resources		Helicopter Manager	·		,
Training		Helicopter Crew			
		and the factor of the sector of the second little for second second	A CONTRACTOR OF		s 1999 - David Market, Market Market and Arts
		10.	Eina	nce Se	ction
8. Log	istics Section	Deputy			
Chief	Cheri Hartless	Time Unit		Nanc	y Trotter
Deputy	<u>`</u>	Procurement Unit		ļ	
Supply Unit		Compensation/Clai	ms Unit		
Facilities Unit		Cost Unit			
Ground Support Unit					
Communications Unit		Prepared by (Res	sóurce Unit	Leader	-)
Medical Unit		Jacquie M. Pa	rks (7-23-09	9 1 956p	om)
Security Unit		_			
Food Unit			·		-

ICS 203

•				
INCIDENT OBJECTIVES	1. Incident Name Kootenai Creek		Date July 23, 2009	3. Time 1956
4. Operational Period 0700-2000	<u></u>			
 Incident Objectives for the Incident (include alterr Provide for firefighter safety public Protect all values at risk including toward Kootenai Creek Trailhead Keep the fire north of Kootenai Creation support where approprionation support where approprional control of the play its natural role in resources to limit fire spread to the fire to period 	natives) ic safety. g private property, cu d. Creek and South of th late and pumps, hose n designated wildern ne east where values	Itural resources sit e Bass/Kootenai E elays along Kooter ess to the west. Ut at risk exist.	es and climbers at t Divide ridge through nai Creek as useful. ilize natural barriers	the climber's wall east in the strategic use of and aviation
See current attached weather	forecast for Fire once in the	Wx Zone 109 fire area)	(Request Spot	Weather forecast
		· · ·		
			· · · · · · · · · · · · · · · · · · ·	
		-		
		•		
7. General Safety Message WATCH OUT for snags and rollers around big watchout LACES must be in place before & during Fire behavior at the time of start was cro warmer/drier conditions. Chance of T'st Establish Operational Trigger Points: Ter are met, reassess the situation before co	d the perimeter - Fuel g engagement of the owning, spotting and torms and gusty wind mperature 85 degree ontinuing with opera	Model 10 dense t fire, running, Expect c s that will drive fire s, Winds 5 mph ey rions.	timber with no iden active fire behavior e behavior. re-level and 20%*	tified safety zones are a with growth with When any two of these
8. Organization list JCC 202	Attachments (mo	rk if attached)	V (Others)	
Div. Assianment Lists - ICS 204	X iviedio X Incide	nt Map	∧ (uiner):	DULETY IVIESSAGE
X Communications Plan - ICS 20	5 Traffic	Plan		
9. Prepared by (Planning Section Chief)		10. Approved by (Inc	cident Commander)	The former

DIVISION AS	1. Branch	,	2. Divisio	2. Division/Group						
	Kootenai									
3. Incident Name	•	4. Operation	4. Operational Period							
Kootenai Creek Fire N	1T-BRF-5112 #P1E2K3	Date: 7	/24 - 7/26	/09 Time: 0700)-2000					
5.	Operations Personnel									
Operations Chief		Safety Office	r (SOF2)							
DIVS	Dale Pfau	DIVS		· ·						
6	Resources Assigned this Pe	rlod 🦂 📈	en la gravitation de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la c							
Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time					
IA Module - West Fork	Max Sage	10	N	0900 Kootenal TH						
IA Module - Sula	Scott Bogan	10	N	0900 Kootenai TH						
Lee Metcalf USFWS Engine #761	Dale Pfau	3	· N	0900 Kootenai TH						
·										

stablished on the 740 rd north of Sharrot Creek. Assess fire area to establish an anchor point from the east avalanche (SE most part of the fire) using hoselays/pumps and work west along Kootenai Creek to keep fire north of the trail. Monitor trail for hikers that may still be in the area & inform of area closure. Utilize helicopter bucket work to support keeping fire north of Kootenai Creek & line improvements/preparations. Establish a camp site to the east of the fire with assistance from Resource Advisor Goslin.

8. Special Instructions

RADIO

Make sound and timely decisions regarding needs for supplies and equipment for this incident (48 hour rule). After action reviews should be conducted after each operational shift to address safety concerns and make needed adjustments for the next operational period.

9.	Divisio	n/Group Comm	nunication Su	mmary			
Eunction	Frequency	System	Channel	Sec. Function	Frequency	System	Channel
Command North 1/2	169.625 RX 169.625 TX	Tone 146.2	2	Kootenai Fire	171.1375 RX/TX	King NIFC	14 Narrow band
Tactical Div/Group BRF Ch #4 Narrow band	168.600 RX 168.600 TX		4	///		King NIFC	
Prepared by Jmparks		Approved by	ma U	la th	Date 7/24/09		Time 1956

DIVISION A		1. Branch			2. Division	n/Group	
	ASSIGNMENT LIST	Brooks Fo	ace WUI				
3. Incident Name		4. Operati	onal Period				
Kootenai Creek Fire	MT-BRF-5112 #P1E2K3	Date	e: 7/24 - 7/26	/09 Tim	ne: 0700-	-2000	
5 . Sangeland and sangela	Operations Personnel				1422		
Operations Chief	<u>1997 - Andrews Stand, 1999 - Brieder Brieder, 1996 -</u> Andrews Stand, 1997 - Andrews Stand, 1997 - Andrews Stand, 1997 - Andrews Stand, 1997 - Andrews Stand, 1997 - A	Safety Off	icer (SOF2)			<u>(1.4.1.14) - States Constanting</u>	
DIVS	Doug Demoss						
6.	Resources Assigned thi	s Period		a Signi algo an a agus tair Martin algo an an agus tair Martin agus tair agus tair agus tair			
Strike Team/Task Force/ Resource Designator	Leader	Numbe Persons	r Trans. s Needed	Drop Off PT./	līme	Pick U	p PT./Time
			· ·	0830 Bass Cre	ek		
3AT 1-1	Doug Demoss	2	N	Rd/Charles W	aters	2000 Stevi R	2D
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	alion polenilal inal may	be successf	ul for mana	ging fire spre	ad tow	ard values	ons or at risk.
Recommend types of management opera through private land 8. Special Instructions RADIO: Make sure you Make sound and timel be conducted after ed operational period.	high potential married of equipment/access the tions/burnout opportun have good communicat y decisions regarding nee ach operational shift to a	v be successf nat may be n nities. Coordir ions with Hami eds for supplies ddress safety c	ul for mana eeded to p nate with FN lton Dispatch and equipr concerns and	ging fire spre repare private 10 about pos n and Stevi RD. ment for this inc d make neede	ident. d adjus	After action	ons or at risk. for fire access reviews should be next
Recommend types of management opera through private land 8. Special Instructions RADIO: Make sure you Make sound and timel be conducted after ex operational period. 9	high potential marmay of equipment/access the tions/burnout opportun high accession opportun by decisions regarding need ach operational shift to a Division/Group Commi-	v be successf nat may be n nities. Coordir ions with Hami eds for supplies ddress safety of unication Sumr Channel	ul for mana eeded to p nate with FM Iton Dispatcl and equipr concerns and mary	ging fire spre repare private 10 about pos a and Stevi RD. hent for this inc d make neede	ad tow e land sible o ident. d adjus	After action timents for the	ons or at risk. for fire access reviews should be next
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Recommend types of management opera through private land 8. Special Instructions RADIO: Make sure you Make sound and timel be conducted after exoperational period. 9 Elunctions Rommand 169.628 North ½ 169.628 Natrow Band Tactical, Div/Group BRF Ch #4 168.0	bit on potential matrixity of equipment/access the stress of th	v be successf nat may be n nities. Coordin ions with Hami eds for supplies ddress safety of unication Sum Channel 2	ul for mana eeded to p nate with FM Iton Dispatal and equipr concerns and mary Function Kootenai Fi <u>A/G 1</u>	ging fire spre repare private 10 about pos an and Stevi RD. hent for this inc d make needed Frequency re 171.1374 RX/TX	ad tow e land sible o ident. d adjus	After action iments for th System King NIFC	ons or at risk. for fire access reviews should be next Channel 16 Narrow band



- Vehicle traffic and accident avoidance is the main concern.
- Drive with your lights on. Park your vehicles headed out. Know your escape route out.

- Caution when working along the Kootenai Creek Trail #53 road. One way in/one way out!!!
- Watch out for hikers that may still be in the area. Notify them of area closure.
- Keep a clean camp watch for bears, wolves, moose.



Zero to sixty in two seconds.



FIRE BEHAVIOR FORECAST

UNIT: Bitterroot National Forest	SIGNED: Bart Hoag- FBAN
DATE ISSUED: 23 July 2009	TIME ISSUED: 1900
FIRE NAME: Kootenai Creek	OPERATIONAL PERIOD: 24-26 July 2009
FORECAST NUMBER: 1	TYPE OF FIRE: Wildland Fire

WEATHER SUMMARY:

DISCUSSION

A slow moving low pressure system will be over western Montana today and tomorrow. This low will bring slightly cooler temps to the area as well as increased cloud cover. However, temps remain well above average. Winds will be variable to 7 mph, except in the vicinity of thunderstorms where gusty, erratic winds are possible.

FUELS:

The ERC for the Bitterroot SIG is 59 which well above average for this time of year. Fuels are variable with E. Spruce in the creek bottom and a mix of Douglas Fir and P. Pine further up the slope with lodgepole pine and subalpine fir in the higher elevations. Open areas contain sparse grass and avalanche chutes contain brush. Fuel moistures remain high in the brush and herbaceous materials. Grassy areas are curing and support fire spread. Timber stringers with heavy dead and down are also available to burn.

OUTPUTS

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FIRE BEHAVIOR

GENERAL:

Expect continued active fire behavior over the next 3 operational periods. RH's will slightly higher and temps down slightly compared to the past few days but still above average for this time of year. Fire spread in timber will be primarily thru single and group tree torching with short range spotting, the exception to this will in the vicinity of thunder storm activity where moderate range spotting could occur, up to ½ mile. Expect little fire spread in the spruce creek bottom. Grassy areas will support moderate rates of spread especially up slope. The brush in the avalanche chutes are not expected to support fire spread at this time.

AIR OPERATIONS:

A moderate smoke inversion may limit morning air operations in Kootenai Creek canyon. Continued smoke production may limit air operations throughout the day on various portions of the fire depending on wind direction and speed.

SAFETY

Be heads up for any thunderstorm activity in the fire area gusty, erratic winds associated with thunderstorms can cause a rapid and unpredictable increase in fire spread rates and direction.

	ENT RADIO	1. Inciden Kooten	t Name aí Creek	2. Date/Time P 7-23-09 195	repared 6 [°]	3. Ope 7/24	erational Period Date/Time - 7/26/09 0700-2000
			4. Basic Rc	idlo Chann	el Utilization	ار این این ۱۹۹۹ میلادی ۱۹۹۹ میل ۱۹۹۹ <u>م</u>	
Radio ype/Cache	Channei	Function	Frequency	/Tone	Assignment		Remarks
King	2	North 1/2	169.625 RX	Tone			
	2		169.625 TX	146.2	Forest Repeate	ər	
King NIFC	4	Tac 3	168.600 RX 168.600 TX	Tone	Division All	-	
King NIFC	16	Air Ground	171.1375 R 171.1375 T	x	Aviation Resou	rces	This is new assigned frequency for the Kootena Fire!! Update your frequency – suggest channel 16

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AIH UPERATIONS SUMIMARY	Prepared B	y: D.Bitterman	Prepared I	Dale: 07/23/09] .	Prep	ared Time: 1900)	
1. INCIDENT NAME: Bitterroot National Forest Aerial Res	ources	2. OPS PERIOD DATE: 7/24/09	S1 08	ART TIME:	END TIME: (COB)		SUNRISE: 0609	SUNSET: 2116]
3. REMARKS (Safety Notes, Hazards, MTR 301/307 on South end of forest: St	Air Operatio atus today: u	ns Special Equipment, etc	c.):	4. READY AIRCRAF	ALERT T:	5. TF No T	R's: FRs on Bitterro	oot at this time	د
Corvallis Fire Hall. Airworks (old Garlick R+R Conner helicopter working Middle E	at Hamilton (helicopters) East Fork, as	Airport. Corvallis Fire hell N site active with R/W activity sume activity w/in 3 NM of J	157AC at ennings.	#1- Bell-40)7 N142MA	(Adja	cent TFR's): (N	one)	

6. PERSONNEL	NAME	PHONE #	7. FREQUENCIES	АМ	FM A-G	8. Additional/Adjacent aircraft info:
Aviation Officer	Dean Bitterman	406-370-7024	Initial Attack	132.725	170 750	FOREST AIR PATROL / ATTACK PLANES:
Helicopter Mgr.	John McKee Randy Gaulrapp	406-370-7028	Initial Attack Secondary	132.275	173,7875	AIR ATTACK: available from Missoula and Grangeville
Dispatch	Tony Lubke Craig Clairmont Brett Malingo	406-363-7133	Flight BRF-So. Follow BRF-No.	Rx/Tx: 10 Rx/Tx: 10	68.750 TT: 69.625 TT:	:131.8 SMOKEJUMPER: Avail from MSO, G-ville. : 146.2 TANKERS: Avail from MSO, W.Yellowstone, Helena, McCall
Aircraft desk	Kelly McKee	406-363-7198	Air Guard FM Rx/	Tx 168.6	25 TT:110).9
IMT contacts	FAX	406-363-7131	Kootenal Fire	122.225	168.625 171.1375	SEATS: Avail from Grangeville, Ronan, C-d'alene HELICOPTER SUPPORT: <u>Type 3</u> : Avail. from: Ronan, G- ville, SC. <u>Type 2</u> : Avail from:MSO, BD. <u>Type 1</u> : Avail. from Libby
						Job Codes: BRF-ABCD misc.: P1EKS4 Kootenai Fire: P1E2K3
				· ·		

9. HELICOPTERS and FIXED WING from Bitterroot forest 9.5 Additional Aircraft information

FAA N#/ A#	TY	MAKE/ MODEL	BASE	START	REMARKS	N #	T Y	MAKE/ MODEL	BASE	START	REMARKS
N142MA	3	Bell-407	Hamilton	0830	Excl. Use rappel/ I.A. (John McKee 406-370-7028						
N58468	2 (R)	UH 1-H	Hamilton	0830	Working Kootenai Fire. Mgr: Monte Babcock 579-5028						
		¢									
N9667X	AT4/ 1	Cessna210	Hamilton	variable	Primary air Patrol						

Special Note: All tactical aircraft operations should end at official sunset. The ½ hour after sunset until official twilight should only be used for non-tactical aircraft operations (primarily: aircraft return to helibase or airport). Exceptions to this rule for critical operations are to be managed through a risk assessment by the on-scene ATGS/LEAD/HMGB with notification to dispatch prior to the operation.

AIRBASE INFORMATI	ON:				
NAME	LAT/LONG	ELEVATION/LENGTH	PHONE	FAX	NOTES
Hamilton Helibase	46 15.2' x 114 07.3'	3640'	406-363-4751	406-375-9480	
Hamilton SEAT Base	46 15.3' x 114 07.3'	3640' / length 4200'			Available for reload only
K-C Helibase	46 32.3' x 114 08.9'	3550'	(none)	(none)	Helibase for Kootenai Fire at
		Access by N.Kootenai crk			Kootenai Canyon Ranch
		rd, E.entrance to ranch			Owner:Floyd Nalls 777-2128
Darby Helibase	46 03.724' x 114 10.807'	3960'			Old Darby Rd and Gorus Ln
Sula Helibase	45 49.1' x 113 57.3'	· ·	• •		Room for 1 helicopter
Lone Pine Helibase	45 48.8' x 114 16.2'	4860'	406-349-2260	406 349-2262	4 pads 349-2263
Marcus Daly Hospital	46 14.88' x 114 10.3'	3610'			HEAR freq.: 155.280

Land use agreements in place for K-C Helibase, Darby Helibase, Skalkaho Helispot, and Mac Helispot. Lost Trail Pass is FS owned. (See Aviation Briefing Booklet)

Missions: Specifics and aircraft assigned to be determined. Stay at least 2NM away from any border with adjacent forest or TFR boundary, unless coordination with aerial supervision or from Dispatch to Dispatch has occurred. Check hazards for area assigned.

Specific:

Kootenal Fire:

Missions: Recon and bucket work as requested. Sling supplies up to base of fire when available and resources are in place.

<u>Hazards</u>: No TFR in place. Advise dispatch if any private aircraft encroach upon the FTA. Watch for Lifeflight/Careflight helicopters transiting the valley between Missoula and Hamilton along the West side foothills.

1. Incident Name	2. Operational	Period (Date / Time)		
	From:	To:		ICS 214-OS
3. Unit Name / Designators		4. Unit Leader (Name a	and ICS Position)	
5. Personnel Assigned				
NAME		ICS POSITION	HOME	BASE
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7. Prepared by:		Date / Time		
UNITLOG		June 2000	- 	ICS 214-05

Electronic version: NOAA 1.0 June 1, 2000

1. Incident Name	2. Operational Period (Date / Time)	UNIT LOG (CONT.)	
	From: To:	ICS 214-OS	
6. Activity Log (Continuation	Sheet)		
TIME	MAJOR EVENTS		
		-	
		- <u> </u>	
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и, перагей ру:	Date / Time		
UNIT LOG	June 2000	ICS 214-0	

Electronic version: NOAA 1.0 June 1, 2000

Back to Main Page Fire Weather Forecast for MTZ109

FNUS55 KMSO 241150 FWFMSO

FIRE WEATHER PLANNING FORECAST FOR WRN MONTANA AND N CNTRL IDAHO NATIONAL WEATHER SERVICE MISSOULA MT 550 AM MDT FRI JUL 24 2009

.DISCUSSION...A LINE OF THUNDERSTORMS WILL PROGRESS THROUGH CENTRAL IDAHO AND WESTERN MONTANA THROUGH MID MORNING. AN UNSTABLE ATMOSPHERE WILL CONTINUE TODAY WHICH WILL SUPPORT THE POTENTIAL FOR MORE THUNDERSTORMS THIS AFTERNOON. A PACIFIC TROUGH OF LOW PRESSURE CURRENTLY OVER WASHINGTON WILL SLOWLY MOVE EAST TODAY PUSHING THE BEST THREAT OF THUNDERSTORMS A LITTLE FARTHER EAST AS WELL. LOCATIONS ALONG THE CONTINENTAL DIVIDE WILL HAVE THE BEST CHANCE OF THUNDERSTORMS THIS AFTERNOON. THUNDERSTORM ACTIVITY SHOULD NOT BE AS SIGNIFICANT AS YESTERDAY DUE TO SLIGHTLY COOLER AIR MOVING INTO PLACE. THIS COOLER AIR WILL ALSO LOWER HIGH TEMPERATURES AND RAISE MINIMUM RELATIVE HUMIDITIES.

MTZ106>109-251200-WEST LOLO-SALISH AND KOOTENAI RESERVATION-EAST LOLO-BITTERROOT-550 AM MDT FRI JUL 24 2009 . TODAY . . . SKY/WEATHER..... MOSTLY CLOUDY. SCATTERED SHOWERS AND THUNDERSTORMS. MAX TEMPERATURE.....85-90 VALLEYS AND 75-85 RIDGES. MIN HUMIDITY......15-25 PERCENT VALLEYS AND 24-34 PERCENT RIDGES. 20-FOOT WINDS..... LOWER ELEVATION.....BECOMING WEST 4-8 MPH IN THE AFTERNOON. RIDGE TOP......EAST UP TO 5 MPH BECOMING WEST EARLY IN THE AFTERNOON... THEN BECOMING NORTHWEST 5-15 MPH LATE IN THE AFTERNOON. LAL.....4. CWR (> 0.10 INCH)...20 PERCENT. .TONIGHT... SKY/WEATHER..... MOSTLY CLOUDY THEN BECOMING PARTLY CLOUDY. CHANCE OF SHOWERS AND THUNDERSTORMS. SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS AFTER MIDNIGHT. MIN TEMPERATURE.....50-60. 20-FOOT WINDS..... LOWER ELEVATION.....NORTH 5-10 MPH UNTIL EARLY MORNING BECOMING DOWNSLOPE/DOWNVALLEY 2-5 MPH. RIDGE TOP.....NORTHEAST 5-15 MPH...THEN BECOMING SOUTH EARLY IN THE MORNING. HAINES INDEX..... 4 LOW.

CWR (> 0.10 INCH)...20 PERCENT.

.SATURDAY...

.SUNDAY...MOSTLY CLOUDY WITH CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 55-65. HIGHS 80-90. VARIABLE WINDS UP TO 10 MPH. .MONDAY...PARTLY CLOUDY WITH SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 55-65. HIGHS 80-90. NORTHEAST WINDS 5-10 MPH. .TUESDAY...PARTLY CLOUDY WITH SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 55-65. HIGHS 80-90. EAST WINDS 5-10 MPH. .WEDNESDAY...PARTLY CLOUDY. SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 50-60. HIGHS 75-85. .THURSDAY...MOSTLY CLEAR. SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS. LOWS 50-60. HIGHS 75-85.

SHORT TERM...LOEFFELBEIN

Webmaster US Dept of Commerce National Oceanic and Atmospheric Administration National Weather Service

Disclaimer Information Quality Credits Glossary Privacy Policy Freedom of Information Act About Us Career Opportunities
-Look at spots between Pointy Top + Square Top - MAPI - Handline Bottom - Helo Suport Tap Za Zlar - Helispot/Medivale spot E the trait Doug - Creek to the East a 58 mi E - Pump show that the trail - 3 pumps, 2000ft & Sprinklers - Creek to West, Enough water to Pump set of - Brooks Creek @ Unknown - Close Trail For Bucket Work - Rocks coming Pour / Hotter Pays - Not much Room to camp, 4-6 at most GPS Locations Fastern Most Point of Fire's Edge 7/13/09 1800 810-2 Nº46° 32.957 7,44 W 114º 13,8551 32 1,02 Bottom Most Edge of Fire 7/13/09 NG6°33,134° 5,81 7.21 W 1140 14 128 Possible Helispot & Good Camping Spot NY6032.961 W 114° 13.778'

Creek Runius North to South - East of Fire N 46.32.859' W114º 13.135 Creek Runing North to Southwest to the West of Five N46633. 1931 W114°14. 243' Good Campsite N46°32.596' W 114°12.082'

1: Date 07/25/2009	2: Time 1830	3:1	Initial	Upda X	te F X	inal	4: Inc • MT-I	ident Numb 3RF-0051	er 12	5: Incid Kooten	ent Name ai Creek	
6: Incident Kind Wildfire (Monitor/Confine/Contain) 7: Start Data Time 07/12/200 1737				art Date Time 12/200 1737	9 Li	8: Cause ightning 9: Incident Commander Cary Taylor			10 00 Ty]	10: Incident Command11: Stat UnitOrganizationMT-Fype 3 TeamBRF		
12: County Ravalli	13: Latit 46° 33′ Owner	tude an 9'' Lo rship: N	d Long ong: 11 AT-B	itude 4° 14´ RF	7''	: Short L	ocation 7 miles	Description NW of S	(in re teve	ference to ne nsville, M	earest town): T	
15: Size/Area Involved 780 ACRES	16: % Containe or MM	ed C A I	7: Expe Contain Date:	ected ment		18: L Bı	ine to iild	19: Estin Cost to Da	nated s te	20: Decl Controlle Date: Time:	ared ed	
21: Injuries this Reporting Period	22: Inj to Date	uries e:	23: Fat	alities	24: Stri	icture Inf	ormatio	n .				
1	1	L			Тур	e of Struc	cture	# Threaten	ed #	# Damaged	# Destroyed	
25: Threat to Hu	man Life/S	Safety:			Resid	ence					· · · ·	
No evacuation(s) in	imminent	:			Comm	ercial Pro	perty					
Potential future t No likely threat -	hreat				Outbui	lding/Oth	er					
 48 hours: Fire continues to move NE and NW. 72 hours: Fire continues to move NE and NW. 27: Values at Risk: include communities, critical infrastructure, natural and cultural resources in 12, 24, 48 and 72 hour time frames: 12 hours: 24 hours: 24 hours: 48 hours: 72 hours: 28: Critical Resource Needs (amount, type, kind and number of operational periods () in priority order in 12, 24, 48, 									48 and 72 n 12, 24, 48,			
12 hours: 24 hours: 48 hours: 1 - T 72 hours:	ype 1 Cr	·ew										
29: Major problems and concerns (control problems, social/political/economic concerns or impacts, etc.) Relate critical resources needs identified above to the Incident Action Plan. Thunderstorms over the fire area late in the day with gusty winds have the SW corner of the fire actively moving back to the northwest and backing down to the Kootenai Creek Trail. Smoke managment, possible spotting to Bass & Brooks Creek drainages. Extremely hazardous terrain and narrow canyon. Avalanche chutes. The fire has reached Kootenai Creek. An area closure has been instituted as of 7-23-09 for the Kootenai drainage is still in place. A type 3 team is in place.												
 30: Observed Weather for Current Operational Period Peak Gusts (mph): 10 Max. 31: Fuels/Materials Involved: 10 Timber (litter and understory) 									r an	d unders	tory)	

Temperature: 86 Lodgepole, sub-alpine fir and Whitebark Pine. Avalanche																	
Wind Dire Relative H	ction (umic	: ES lity: 2	E 20	Mir	1. Ch	Chute brush & timber litter.											
32: Today's observed fire behavior (leave blank for non-fire events):																	
Single a	nd g	rou	p tre	ee to	rching	. Short	rangeo	l spo	ottii	1g (l	ess t	han 1/8	mile)				
33: Signifi 1 minor	icant iniv	even rv (ts tod roll	lay (c ed a	losures, (nkle) -	evacuatio	ons, signi Mer tra	fican	t pro orte	gress d fr	mad	e, etc.): the line	via stoc	k Tyne	2. crew		
successfully used pumps/hoselays to secure fire activity to the SE chute to date and mopped																	
up along	g the	e Ko	oten	nai T	'rail to	preven	t it fro	m ci	ross	ing	Koo	tenai C	reek.				
34: Foreca	sted	Weat	her f	or ne	xt Opera	tional			-								
Wind Spee	ed (m	(ph):	5-15	5 Те	emperatu	re: 80-	35: Est	imate	ed		36.	Projected	Final	37. Estin	ated Final		
90		1.7			1		Control Date at	l nd Tii	me:		20.	Size:		C	ost:		
Wind Dire 20.20	ction	: NV	V	Rela	tive Hun	nidity:							l l				
38. Action	ie nlo	nned	for -	evt o	neration	al neriod				[
Continu	is pia	use	pun	nps/	hoselay	ys alons	g Koote	enai	Cre	ek t	to se	cure th	e SE/SW	corner	s of the		
fire to n	atur	al b	arri	ers	(avalar	iche ch	utes). (Cont	inu	e to	use	helicop	ters to su	ipport t	he pump		
show an	d to	kee	p th	e fii	e west	of the a	avalan	che o	chut	te.							
39: For fir	e inc	ident	s, des	scribe	resistan	ce to con	trol in te	rms (of:								
1. Growth	Pote	ntial	- Hi	gh										·			
2. Difficul	ty of	Terr	ain -	Ext	reme												
40: Given	the c	urrer	nt con	istrai	nts, when	n will the	chosen	mana	gem	ent st	rateg	y succeed	1?				
41: Projec	ted d	emol	oiliza	tion s	start date								с 				
42: Remai The Tvr	tks:	Cre	ww	ille	ontinue	e snike	out for	• 1 m	ore	dar	, or	until in	itial acti	ons to s	ecure the		
line on l	Kool	tena	i Cr	reek	has be	en com	pleted.	.									
						43:	Comm	ittec	l Re	sour	rces						
A	CR	W1	CR	W2	HEL1	HEL2	HEL3	EN	GS	DC	ZR	WTDR	OVHD	Camp	Total		
Agency	SR	ST	SR	ST	SR	SR	SR	SR	ST	SR	ST	SR	SR	Crews	Personnel		
USFS			1			2	1				-		9		2		
ST				· .									1				
FWS	<u> </u>							1					-				
Total	0	0	1	0	0	2	1	1	0	0	0		0 10	0	3		
44: Coope Collabo	ratin rati	g and ng v	l Ass vith	isting DE	g Agencie Q. RC &	es Not Li &D is p	sted Abo rovidir	ove: ng th	ne F	ire '	Wise	e trailer	for info	rmatior	l.		
45: Prepa Jacquie	red by Par	y: ·ks			46: A Bru	Approved	l by: Idhorst	· ·			47: Sent to: NRCC by: Date: Time:						
<u></u>								-			الـ						

Incident Status Summary (ICS-209)

1: Date 07/23/2009	2: Time 1753	3:]	Initial Upda X	ate Fin X	nal	4: Inc MT-I	ident Numb BRF-0051	er 12	r 5: Incident Name 2 Kootenai Creek			
6: Incid Wile (Monitor/Cor	ntain)	8: 9 Lig	8: Cause Lightning 9: Incident Commander Ty Crowe			10: Incident11: State- UnitCommandUnitOrganizationMT- BRF						
12: County Ravalli	13: Lati 46° 33' Owne	tude and 9'' Lo rship: N	d Longitude ng: 114° 14´ IT-BRF	7'' ^{14:}	Short L	ocation 7 miles	Description NW of St	(in ret t ever	ference to n nsville, M	earest town): T		
15: Size/Area Involved 604 ACRES	Size/Area 16: % 17: Expected nvolved Contained Containment ACRES or MMA Date:					18: Line to Build19: Estimated Costs to Date20: Declared Controlled Date: Time:						
21: Injuries this Reporting Period	22: In to Dat	juries e:	23: Fatalities	24: Strue	cture Inf	ormation	n					
0		0		Туре	of Struc	ture	# Threatene	ed #	Damaged	# Destroyed		
25: Threat to Hu	man Life/S	Safety:		Reside	nce		•					
Evacuation(s) in No evacuation(s)	progress - imminen	 t		Comme	rcial Pro	perty						
Potential future t	hreat			Outbuild	ling/Oth	er						
chutes 24 hours: Fire v chutes 48 hours: Fire v chutes 72 hours: Fire v chutes	will cont will cont will cont	inue to inue to	o move NE : o move NE : o move NE : o move NE :	and NV and NV and NV	V work V work V work	ing th ing th ing th	rought ro rought ro rought ro	llout llout llout	in the av in the av in the av	alanche valanche valanche		
 27: Values at Rishour time frames 12 hours: None 24 hours: None 48 hours: None 72 hours: None 	sk: include ::	commi	inities, critical	infrastru	cture, na	tural and	l cultural res	ource	s in 12, 24,	48 and 72		
 28: Critical Resource Needs (amount, type, kind and number of operational periods () in priority order in 12, 24, 48, and 72 hour time frames): 12 hours: 24 hours: ATGS 48 hours: Type 1 Crew (Bitterroot IHC if available) 72 hours: 29: Major problems and concerns (control problems, social/political/economic concerns or impacts, etc.) Relate critical resources needs identified above to the Incident Action Plan. Smoke managment, possible spotting to Bass & Brooks Creek drainages. Extremely hazardous terrain and narrow canyon. Avalanche chutes. The fire has backed within 200 												
teet of Koote drainage.	nai Cree	ek. An	area closur	e has b	een ins		1 as of 7-2	3-09	for the k	Sootenai		

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30: Observed Weather for Current Operational Period Peak Gusts (mph): Max. Temperature: 31: Fuels/Materials Involved: 10 Timber (litter and understory) Wind Direction: Min. Relative Humidity: Chute brush & timber litter. 32: Today's observed fire behavior (leave blank for non-fire events): Group torching and short crown runs to the NE. Backing fire continues to the east and										
toward Kootenai Creek.										
33: Significant events today (cl Area closure instituted f a Type 3 Organization.	33: Significant events today (closures, evacuations, significant progress made, etc.): Area closure instituted for Kootenai Drainage. Transfer of command in the next 24 hours to a Type 3 Organization.									
34: Forecasted Weather for next Operational Period Wind Speed (mph): 85-90 Temperature: 13-23 Wind Direction: SE/SW Relative Humidity:								ated Final ost:		
38: Actions planned for next operational period: Initiate pump operations at the heel of the fire above Kootenai Creek. Utilize bucket operations to re-enforce natural barriers to the east and the divide ridge between Kootenai/Bass Creek.										
39: For fire incidents, describe	resistance to con	trol in te	rms c	of:		***	-			
1. Growth Potential - High				-				•		
2. Difficulty of Terrain - Extr	eme									
40: Given the current constrain	nts, when will the	chosen	nana	geme	ent st	rateg	y succeed?	?		
41: Projected demobilization s	tart date:									
42: Remarks: Transfer of command to being developed.	o a type 3 tear	n (IC 7	ayle	or) v	vill	occi	ır on 7-2	2 4-09. A	long ter	rm plan is
	43:	Comm	itted	Re	sour	ces				
A cancu CRW1 CRW2	HEL1 HEL2	HEL3	EN	GS	DO	ZR	WIDR	OVHD	Camp	Total
Agency SR ST SR ST	SR SR	SR	SR	ST	SR	ST	SR	SR	Crews	Personnel
USFS 1	1							8		28
ST								1		1
FWS			1							. 3
Total 0 0 1 0	0 1	0	1	0	0	0	0	9	0	32
44: Cooperating and Assisting Collaborating with DEC	Agencies Not Li). RC&D is p	sted Abo rovidin	ove: I g th	e Fi	re V	Vise	trailer f	for infor	mation	•
45: Prepared by: 46: Jacquie Parks Br	Approved by: uce Windhor	st	4	7: Se Date:	ent to 07/2	:NR 23/2	CC by: 7 009 Time	Fony Lu : 1830	bke	

Incident Status Summary (ICS-209)

: Date 22/2009	2: Time 1826	3: I	nitial 	Upda X	ate X	Final 	-	4: Inc MT-F	ident Numbe BRF-0051	er 12	5: Incident Name Kootenai Creek			
6: Incident Kind Wildfire (Monitor/Confine/Contain) 7: Start Dat Time 07/12/20 1737						8: Cause Lightnin	ıg	9:] Cor Ty	Incident nmander Crowe	10: Incident Command Organization Type 4 IC			11: State- Unit MT- BRF	
12: County Ravalli	13: Latit Lat: 46 13 Owners	ude an ° 33′ l4° 14 ship: N	d Longii 9" Loi 7" (T-BR	tude ng: LF		14: Sho	rt] 7 1	Locatio miles	on Descriptio town NW of Ste	on (in): evens	reference sville, M	to r T	nearest	
15: Size/Area Involved 205 ACRES	Size/Area 16: % 17: Expected volved Contained Containment ACRES or MMA Date:						Liı Bui	ne to ld	19: Estim Costs to Dat \$30,0 (ated e 00	20: Dec Controll Date: Time:	Declared atrolled e: ae:		
21: Injuries this Reporting Perio	ijuries this 22: Injuries 23: Fatalities 24: Structure Information													
- 0	0				ſ	Type of Stru	ıct	ure	# Threatene	d # I	Damaged	# I	Destroyed	
25: Threat to Hu	man Life/	Safety			Res	sidence								
vacuation(s) imminent Commercial Pi								oerty	· · · · ·					
tial future No likely threat	threat				Out	building/O	the	er						
12 hours: Fire 24 hours: Fire 48 hours: Fire 72 hours: Fire	will cont will cont will cont will cont	inue inue inue inue	to mov to mov to mov to mov	ve NE ve NE ve NE ve NE	and and and and and	a NW d NW d NW d NW		atural	and cultural	tecou	rces in 12	- 24	48 and	
72 hour time fra 12 hours: 24 hours: 48 hours: 72 hours:	mes:		numnes		ai 111	nastructure	. L و م	aturai		resou		, 27	, 4 8 and	
 28: Critical Resource Needs (amount, type, kind and number of operational periods () in priority order in 12, 24, 48, and 72 hour time frames): 12 hours: 24 hours: 48 hours: 72 hours: 														
29: Major probl al resource ke mana	ems and co s needs id gment, j	oncern entifie oossib	s (contro 1 above ole spot	ol prob to the t ting (lem Incio to B	s, social/po lent Actior ass & Bi	liti n P O O	ical/eco lan. oks C	onomic conc reek drair	erns c ages	or impacts . Extre	, eta nel	c.) Relate Y	
hazardous te	rrain an	d nar	row ca	anyon	. A	valanche	cl	nutes.		•••• 17 AL 502				
30: Observed W	eather for				á e c					د. نمه ده				

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ICS-209 Form

Current Operational Pe	riod
Peak Gusts (mph): 10	Max.
Temperature: 45-55	
Wind Direction: NE	Min.
Relative Humidity: 54-	-64

31: Fuels/Materials Involved: 10 Timber (litter and understory) Lodgepole, sub-alpine fir and Whitebark Pine. Avalanche Chute brush & timber litter.

32: Today's observed fire behavior (leave blank for non-fire events):

Isolated group torching and small uphill runs to the NE and NW. The SE heel of the fire continues to back downslope towards Kootenai Crek. Winds were primarily out of the NE today.

33: Significant events today (closures, evacuations, significant progress made, etc.): Bucket work was initiated on the SE heel of the fire to slow progress downslope to Kootenai Creek.

 34: Forecasted Weather for next Operational Period Wind Speed (mph): 5-10 Temperature: 88-98 Wind Direction: SW Relative Humidity: 13-23 	35: Estimated Control Date and Time:	36: Projected Final Size:	37: Estimated Final Cost:
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38: Actions planned for next operational period:

Continue bucket work down on the heel of the fire to check fire spread on the SE corner and NE corner to re-enforce the holding opportunity of the avalanche chute barrier to the east.

39: For fire incidents, describe resistance to control in terms of:

1. Growth Potential - High

2. Difficulty of Terrain - Extreme

40: Given the current constraints, when will the chosen management strategy succeed?

41: Projected demobilization start date:

42: Remarks:

Monitoring will continue. Bucket support will be utilized where efficient and effective. If fire crosses eastern avalanche chute (management action point 1), then a long term plan will be developed.

43: Committed Resources															
Agonau	CR	W1	CR	W2	HEL1	HEL2	HEL3	ENGS		S DOZR		WTDR	OVHD	Camp	Total
Agency	SR	ST	SR	ST	SR	SR	SR	SR	ST	SR	ST	SR	SR	Crews	Personnel
USFS													7		7
ST													1		1
Total	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8
44: Coope Collabo	44: Cooperating and Assisting Agencies Not Listed Above: Collaborating with DEQ. RC&D is providing the Fire Wise trailer for information.														
45: Prepa	45: Prepared by: 46: Approved by: 47: Sent to: NRCC by:														
Jacquie	acquie Parks Bruce Windhorst Date: Time:														

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STRATEGIC IMPLEMENTATION PLAN / Response Level 3

Kootenai Creek Fire

BITTERROOT NF

July 26, 2009

Developed by:

Wildland Fire Decision Support Team

Bruce Windhorst (FMO), Jacquie Parks (SOPL), Bart Hoag (FBAN), Amy Veirs (PLNS - t) Phoenix NIMO Team - Jeff Whitney, Curtis Heaton, Mike Baca, Vicki Clay

Prepared by:

cralin M. Pals Date Jacquie Parks

Fire and Fuels Specialist - Bitterroot NF

Recommended by:

Date

Bruce Windhorst Da Fire Management Officer – Stevensville RD

Rick Floch Forest FMO – Bitterroot NF

<u>7/28/09</u> Date

Approved by:

2/27/09

Daniel G. Ritter Date District Ranger Stevensville RD – Bitterroot NF

Executive Summary:

The Kootenai Fire is located within the Kootenai Creek drainage on the Stevensville Ranger District of the Bitterroot National Forest. Ignition occurred by lightning on July 12, 2009. The initial size up determined that the fire was high up on the north slope of Kootenai Creek in inaccessible steep terrain within the Selway-Bitterroot Wilderness with no safety zones proximal to the fire. Though the Kootenai Creek fire started in an area wherein managing fire for resource benefit is emphasized the likelihood that the fire would reach values at risk. The Forest Type 3 Organization is managing the fire at this time. If efforts are successful in the next 3 to 5 days, fire spread will be checked. Suppression efforts are currently focused on containing the East edge of the fire within a series of natural topographic features. Due to the potential duration of the fire, a Strategic Implementation Plan (SIP) has been developed in order to equip fire managers with a planned response to potential future fire spread. If the fire compromises any of the Management Action Points described in the SIP, an appropriate replacement team to manage the increased complexity may be ordered to transition with the Type 3 Organization.

A series of Decision Points where management action may be required have been identified. These Management Action Points (MAP) are based on the best available information at the time of this writing. In order for the SIP plan to be accurate and effective, periodic reassessments will be required.

This SIP factors in current available information and policy interpretations, as well as emerging approaches to Risk Management, strategic planning, application of emerging technology, and resource commitment. Updating will be dependent upon fire movement over the duration of the incident. Regular During Action Reviews will be conducted, on a reoccurring basis between the Agency Administrator, his staff and Incident personnel to assess effectiveness of the plan and the actions being employed.

Wildland Fire Decision Support System: Response Level 1-3

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Fire Name	Kootenai Creek	· · · · · · · · · · · · · · · · · · ·
Location	Latitude: 46.339 Longitude: -114.147 County: Ravalli County, MT	Local Description: 7 miles NW of Stevensville, MT Access: From State Highway 93 west on FR 53 two miles to Kootenai Creek TH, take the Kootenai Creek trail and go west 3.5 miles to the fire.
Start Date/Time	Lightning storm 07/12/2009	
Discovery Date/Time	07/12/2009 @1737	
Containment Date/Time		

Control Date/Time	
Declared Out Date/Time	
Current Fire Size	727 ac (as of 7/24/2009)
Cause	Lightning
Administrative Unit	Bitterroot National Forest (Northern Rockies)
Involved Cooperators	Ravalli County, DNRC, Stevensville RFD, Florence RFD, with possibility of All–Valley RFD assistance
FMU	FMU 1 (WUI) 3.2.1 FMU 2 (Roaded) 3.2.2 FMU 3 (Roadless) 3.2.3 FMU 4 (Wilderness) 3.2.4
	 Relevant Forest-wide management goals and objectives from the Bitterroot LRMP include: Provide for the natural evolution of ecosystems within designated wilderness. Cooperate with State Air Quality Bureau to prevent significant deterioration of air quality. Protect significant cultural resources. Provide habitat to support viable populations of native and desirable non-native wildlife and fish. Maintain habitat for the possible recovery of threatened and endangered species. Convert high-risk or insect and disease infested stands to young, healthy stands.
	Bitterroot National Forest FMU Objectives
	3.2.2 FMU1_WUI
	Forest urban interface area which includes areas where: (1) the threat to life and private property are extremely high; (2) adverse public reaction and pre-existing controversies/relationships are anticipated; and (3) resource values are extremely high. This FMU also includes private lands where the Forest Service has protection responsibilities. The risk of loss continues to escalate as settlement patterns increase along the interface. Much of the area within this FMU includes Forest Plan Management Areas (MA) 1, 2, and 3a, where timber management is emphasized.
	During multiple fire incidents, initial attack resources will be prioritized to this FMU before all others <i>in most cases</i> . There may be instances when

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	potential threats to safety or values at risk will be greater from fires in other FMUs.
	Continue to plan and accomplish fuel reduction activities to alter fire behavior from that characterized by high-intensity and/or crown fire behavior to that characterized by low/moderate intensity surface fire behavior.
	3.2.3 FMU2_Roaded
	This FMU includes: (1) high value, roaded forest lands; (2) improved recreation sites and facilities; and (3) other roaded active areas within the fire protection zone. As with FMU 1, much of this area includes Forest Plan Management Areas (MA) 1, 2, and 3a, where timber management is emphasized.
	During multiple fire incidents, initial attack resources will be prioritized based on proximity to values at risk.
	Continue to plan and accomplish fuel reduction activities to alter fire behavior from that characterized by high-intensity and/or crown fire behavior to that characterized by low/moderate intensity surface fire behavior.
	3.2.4 FMU3_Roadless
	This FMU includes: (1) all the non-wilderness roadless areas; and (2) the higher elevation areas with old, overmature timber stands which can support high intensity stand replacement fires during times of drought. These areas, for the most part, have no planned timber harvest.
	3.2.5 FMU4_ Wilderness
	Guidelines established in approved wildland fire use guides will be followed to determine if a wildland fire event is to be managed for resource benefit. For human caused fires, the appropriate management response will be to suppress the fire using tactics and strategies compatible with wilderness values. In all cases, firefighter and public safety will be provided for at all times.
Fire Number	MT-BRF-2009 #005112
Management Code	P1E2K3 0103

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National No)
Significance	

Assessment:

Maps (Topography, Fuels, Aerial photos, Values, Administrative, etc.)	See Appendix A and Wildland Fire Decision Support System (WFDSS) for related maps. See Stevensville Ranger District for Management File containing related documents as well to the ftp site: <u>ftp://ftp.nifc.gov/Incident_Specific_Data/Northern Rockies 2009/</u>
Fire Weather Forecast (Include current fire weather forecast and fire weather forecast zone.)	Forecast Office is Missoula, MT – Fire Weather Forecast Zone 109 For the most current fire weather forecast please refer to the following website: <u>http://nimbo.wrh.noaa.gov/mso/</u> Missoula Wx



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-	herbaceous plants. The timber type transitions to lodgepole pine and then subalpine fir/whitebark pine on the Kootenai face as elevation increases. Some of these areas contain heavy loads of dead and down material. The timber on the lower portion of Brooks Creek face is primarily ponderosa pine, much of which has had some fuels treatment within the past 10-15 years. The ponderosa pine transitions to a Douglas-fir/lodgepole pine mix, about midslope and then to lodgepole pine. Much of the lodgepole pine contains heavy dead and down material, especially on the upper one third of the slope. Fuel models 8, 10, GS2 and TL4 were used for the RERAP modeling. The FS PRO model utilized the fuel layer in the Landfire Database.
	A heavy snowpack and late melting has lead to late curing of much of the brush and herbaceous material, particularly at higher elevations. As a result these fuels have not supported surface fire spread thus far.
Hazards and Safety	Smoke Management/Air Quality
Concerns	 Human Factors Repetitive functions on long duration incidents lead to inattention and fatigue, which can increase the opportunity for accidents. Visiting resources may not be familiar with local terrain, weather conditions that may affect the safety of operational missions.
	 Operations/Safety Issues Snags are a safety issue when operating in previous/currently burned areas where management actions may be taking place. There are safety zones in the fire area but all hazards must be mitigated before using them. The snag hazard should be mitigated before using. There are safety zones in the fire areas, some of those safety zones are identified in old burn areas. These safety zones will require snag/hazard tree mitigation before use.
	 Travel The road into the fire area is slow and narrow and visitor vehicles can conflict with fire traffic and parking. Outfitters and Guides, recreationalists, hunters should be notified of trail/area closures in a timely manner, and trails should be posted appropriately The road leading to St. Mary's Lookout is one way in/one way out. Single lane roads and very few turnouts.
	 Environmental Factors The fire area has abundant wildlife, including black/brown bears, snakes, and other large mammals. All firefighters need to be informed on fire/snag safety and food protocols when camping out. Favor actions that allow for well identified and posted escape routes, mapped and identified medivac opportunities, minimal exposure to steep rocky slopes and offer good anchor points and identify opportunities for burnout/holding. Be aware of rolling material and debris near steep slopes.

- a c t - [Aviation Operations Unnecessary aircraft missions should be avoided, to minimize risk, cost, and to minimize impact on wilderness values. Fire supervisors must constantly assess the necessity of missions, and avoid using aircraft "just because they are there". Coordinate dipping and recon operations with Salmon & Bitterroot Dispatch centers.
- - - - - - - - - - - - - - - - - - -	 Smoke Management/Air Quality Smoke modeling using the Smoke Impacts Spreadsheet (SIS) has been completed and the results indicate that this fire has the potential to impact residents and visitors should the fire continue to increase in size. Frequent communication with the Regional Air Quality specialist is recommended. Results of the SIS modeling is found in the Appendix B of this document. Smoke from the fires may impact residents and visitors particularly at night where smoke tends to settle into the valley bottoms. On-going communications with the Regional Air Quality specialist is required.
Resource Availability (National PL-2. Northern Rockies Geographic Area PL-2 No Geographic or Zone MAC groups are active. Currently there is very little fire activity in the geographic area and no resource shortages are anticipated in the near term.
	In the event the current Type 3 organization needs to fill, staff or support positions, resources should be available locally to meet that need.
Short-Term Fire Behavior Prediction	Continued hot and dry conditions will allow for active fire behavior throughout the forecast period. Sunday and Monday temperatures will remain high and RH's remain in the 20's. Cloud cover and a low Haines will moderate fire behavior to a limited extent. Fire behavior at mid slope and above will consist of single and group tree torching with short range spotting. Short crown runs are possible in areas of continuous timber cover. On the lower slopes, fire behavior will be the same as described above, as well as surface spread through open timber and grassy/brushy areas. Winds are forecasted to be diurnal, upslope/upcanyon during the day and down slope/down canyon at night. The only caveat is that there is a chance of wet thunderstorms each day during the forecast period. Thunderstorm generated winds could dramatically increase fire behavior. Conversely, wet thunderstorms could limit fire behavior and spread. As herbaceous and grass fuels cure, more favorable surface spread conditions are expected. Surface spread has been limited to lower slopes due to high live moistures at higher elevations. Winds are expected to be the key to any large fire growth especially as fall type cold fronts impact the fire area. This may allow extended crown fire runs where fuels, slope and wind align.

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Short-Term Fire	Fire spread at mid slope and above has been primarily through single and
Behavior Observed	group tree torching with short range spotting. There have been some short
	crown runs on favorable slopes and aspects. On the lower slope, fire
	spread has also included backing surface fire in timber, open grass and
	brush Group torching and short crown runs have occurred in the
	ofterneene when conditions are fourtable, generally dry bulb a RE degreeses
	anemoons when conditions are lavorable, generally dry build >65 degrees;
	Relative Humidity < 30%.
Medium Term Fire	Rare Event Risk Assessment Process (RERAP) modeling shows that the
Simulation	fire is likely (80% probability) to reach the Brooks Creek face (MAP 3) prior
(RL2, RL3)	to the season ending event. Once established on the Brooks Creek face
	RERAP modeling indicates that there is a better than average (65%
	probability) chance of the fire reaching an identified Value at Risk (private
	property) prior to the end of the season BERAP information is included in
1	the Fire Behavior Annendix
Medium Term Eiro	REBAR modeling, combined with persistence fire growth modeling, indicate
Growth	that the Kostenai Crock fire is likely to reach private property and sublimit
	arapiticant area growth before the access and ing swant
(nL2, nL3)	Significant area growin before the season ending event.
Fire Spread	The 14-day Fire Spread Probability Spatial Model (FSPro) run of 7/22/08
Probability	shows that the Kootenai Creek fire has a >80% probability of reaching MAP
RL3	3. Additionally, it indicates a 20-40% probability that the fire would impact
· · ·	private property at the base of the Brooks Creek face during the projection
	period. The analysis should be re-run if the fire exceeds the current
	probability extent, reaches any MAP, or travels in an unanticipated
	direction. The run file is available in WEDSS and in the Fire Behavior
	Annendix
	, phonose
Value Inventory	Public and Private Infrastructure: See attached Appendix C
Funde inventory	See also Value Inventory on Page 17 of this document
BAVAR	The Papid Accessment of Values at Pick (PAVAP) run of 7/22/00 indicates
navan	The hapid Assessment of values at hisk (hAVAH) full of 1/22/09 indicates
	a 5-20% probability of the line impacting 20+ identified major values at risk
	within the 14-day projection time. Based on the RAVAR run the fire has the
	potential to grow to 3,391 acres in >80% FSPro Zone and up to 10,618
	acres in the 20-40% FSPro Zone.
Stratified Cost Index	No requests have been made.
(SCI)	· · ·
Air Quality	The Selway-Bitterroot Wilderness is a Class 1 attainment area where very
	little deterioration of air quality is allowed. All other areas on the Bitterroot
	National Forest are Class 2 where only moderate deterioration of air quality
	is allowed. Missoula is the closest non-attainment area that fails to meet
	national ambient air quality standards for particulate matter 10 microns in
	size and particulate matter 2.5 microns in size (PM10 and PM2.5) during
	some portion of the year, although all land management activities on the
	Bitterroot National Forest occur outside the non-attainment boundary. The
	greatest potential for the Forest to affect air quality would be from smoke
	(wildfires, prescribed fires, and compfires) and read dust. The USES shall
	when we have a set of the set of
	noting the Department of Environmental Quality and the Montana-Idano
	Smoke Monitoring Unit of all wildfire events within 72 hours following
	completion of a Response Level 2 or Strategic Implementation Plan.

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Objectives:

Strategic Objectives	As identified in the Forest Fire Management Plan and Wildland Fire Decision Support System:					
	FMU 1 (WUI) and FMU 2 (Roadless)					
	For the majority of fires in FMU1, suppress those that have the potential to damage timber and/or property under current or predicted fire behavior and intensities. Under conditions where the objective of protecting timber and property values can be met, consider fire responses that will meet resource objectives. In all cases, firefighter and public safety will be provided for at all times.					
	 Make the health and safety of firefighters and the public the highest priority at all times. Protect identified natural and cultural resource values at risk. Plan and conduct fire management activities that protect identified private/public resources. Utilize fire to maintain and/or improve healthy, dynamic ecosystems that meet land management goals. 					
In sident Oblestings	As identified in the daily local ant Astion Disc.					
(RL3)	As identified in the daily incident Action Plan:					
	Ensure all actions reflect a commitment to firefighter and public safety through the development of tactical operations commensurate with values at risk, probability of success and the use of the least number and types of firefighting resources necessary to successfully accomplish the mission.					
	Be creative, decisive and exercise good judgment in decision making. Make reasonable and prudent decisions to accomplish the agency/agencies mission while minimizing exposure to hazards for the safety and welfare of all personnel on the fire and the general public.					
	Coordinate any remaining tactical operations with assigned Resource Advisors. Establish all your tactical operations within the boundaries of the identified strategy, utilize existing road and trail systems, changes in vegetation, fuels and weather and natural barriers to minimize the suppression-related impacts on the natural and cultural resources and any other identified improvements that occur within the fire area.					
	Monitor cumulative fatigue, ensure all assigned firefighting personnel receive adequate rest, and any operational period in excess of 16 hours requires documentation and measure initiated to reduce fatique.					
	Ensure prompt and accurate communications that fosters discussions and encourages interactions with the local cooperators and private landowners.					
	Minimum Impact Management Techniques (MIMT) will be used as much as					

	 possible to reduce suppression impacts. All questions concerning potential resource impacts related to strategic or tactical operation will be handled through the assigned Resource Advisor. Operational Objectives (7/24/2009) Keep fire north of Kootenai Creek Keep fire from moving east of the main avalanche chute
Management Requirements (RL 1, 2 & 3)	Have lakes pre-approved prior to dipping activities taking place (Resource Advisor). Provide for Environmental Management System (EMS) protocols.
	Follow & coordinate smoke management with MT/ID Air Quality Bureau Aviation flight paths should try to stay south of Kootenai Creek (if safe to do so) and stay as far away as possible from the cliff north of the trail for the 1st half mile of the canyon to minimize impact to the Peregrine Eyrie sites which are active at this time.
	To avoid impacting bull trout, bucket dips should not occur in Kootenai Creek downstream of the Wilderness boundary. Ensure the bucket is debris/weed free prior to operations occurring, especially if using Lappi Lake or other high elevation lakes in the area. Track wilderness intrusions/landing into wilderness areas and keep on file
	for reporting INFRA coordinator/Resource Advisor. Obtain permission from District Ranger/Forest Supervisor prior to using chainsaws or other mechanized/mechanical equipment in the wilderness. Tactical actions should incorporate MIMT guidelines/tactics and selected tactics should minimize long term impacts to the wilderness resource when safe and appropriate.
	Ensure costs are commensurate with values at risk. Hunting season starts September 15 (Montana). Reassess trail/area closures based on fire behavior.

Course of Action	
Preplanned Response	The Kootenai Creek fire lies within the Selway-Bitterroot Wilderness. Preplanned response considerations for the Kootenai Creek fire include proximity to private land, Energy Release Component (ERC) above 90 th percentile, and time of season (early in the fire season), as documented by the Wildland Fire Decision Criteria Checklist. Because the fire was likely to threaten private property, the District Ranger made the decision that suppression was the appropriate management response.
Planned Response (RL 2 and 3)	Though the Kootenai Creek fire started in an area wherein managing fire for resource benefit is emphasized the likelihood that the fire would reach values at risk.
Planning Area (RL2 and 3)	The Kootenai Creek Fire planning area is approximately 35,150 acres and encompasses both the Kootenai and Bass Creek watersheds.
Management Action Points (RL2 and 3)	See attached chart. Management Action Points (MAPs) are spatial, temporal or environmental. When these management actions point are reached, some type of decision or tactical action is initiated. See table below for incident specific MAPs.
Resources Needed to Manage the Fire (RL2 and 3)	 The Kootenai Fire organization will increase/decrease in capability based on fire complexity analysis according to the needs and threats by the fire during the duration of the incident. The current organization is as follows: ICT3 (and miscellaneous overhead), 20 FFT2's, 1 Type 3 Helicopter (as needed) LTAN/FBAN/TSHP support as needed.
Estimated Costs (RL2 and 3)	Estimated costs as of 07/25/2009 are \$88,000. Costs are being tracked in I- Suite. Estimated costs by MAP are listed in table below.
Reference Budget (RL3)	N/A
Stratified Cost Index (SCI)	Not requested from WFDSS.
Historic	N/A
Calculated	N/A
Contingency Actions (RL3)	Triggers for considering a higher level organization include repeated accidents or major injuries, major threat to developed area structures, aircraft accidents, inability of present organization to protect values at risk, failure to follow management intent, long term road closures or local economic disruption, etc. If the fire threatens or crosses any of the MAPs, reassess the complexity analysis.

Management Actions (see associated Management Action Point map) All actions must consider current and expected fire behavior

Management Action Points (MAPs)	Implementation Criteria	Management Intent	Resources Recommended	Estimated cost	Recommended Tactical Actions	Notes:
MAP 1 Kootenai Creek	Fire becomes established on the south side of Kootenai Creek. The fire has the potential to move further east and/or south.	 Keep fire within the National Forest Boundary Fire spread to the south and/or east results an unwanted increase an incident complexity. Consider Unified Command 	 Initial Attack with locally available air resources. Consider activation of <i>Air Group:</i> 1 Type 3 Helo 2 Type 1 Helo 1 ATGS/HLCO Additional hand crews may be required. 	\$60,000- 200,000/ day	 Aggressively initial attack any fire south of Kootenai Creek. Utilize air resources and ground forces if fire behavior allows. Closely monitor conditions for activation of MAP 5 Conduct Public Meeting 	
MAP 2 Avalanche chute located east of the fire (7/24 perimeter)	Fire crosses the Avalanche chute and becomes established east of the chute. Fire has the potential to move further east in the Kootenai Creek drainage and/or onto Brooks Face.	 Keep fire within the National Forest boundary. Fire spread to the south and/or east results an unwanted increase an incident complexity. If fire is well- established, review predicted weather/fire behavior and consider initiation of MAP 3 tactical 	 Initial Attack with locally available air resources. Consider activation of recommende d Air Group. 	\$60,000- 200,000/ day	 Aggressively initial attack any fire east of the avalanche chute w aviation resources. If fire is well-established, review predicted weather/fire behavior and consider initiation of MAP 3 tactical actions. Conduct Public Meeting 	

Management Action Points (MAPs)	Implementation Criteria	Management Intent	Resources Recommended	Estimated cost	Recommended Tactical Actions	Notes:
MAP 3 MAP 3 Divide ridge between Kootenai Creek and Brooks Face	Implementation Criteria	Management Intent actions. • Keep fire within the National Forest Boundary • Coordinate all suppression actions with local, county and state officials. • Update Fire Complexity Analysis	Resources Recommended • Brooks Group: -1 DIVS -1TFLD -1 SOFR -2 DOZB -2 Type 3 Doz -2 Type 1 IHC -4 Type 6 Eng -2 Type 2 WT If time allows: Substitute dozers for low-impact machinery (skid-steer clippers) and handline. Structure Protection Group: -1 STPS/DIVS -2 TFLD or STEN -2 SOFR -5 Type 3 End	Estimated cost \$30,000/ Day \$12,200/day	 Recommended Tactical Actions Construct and burn indirect line from Kootenai Creek to Bass Creek as directed by Incident Commander. Closely coordinate with Stevensville Rural Fire Department, Ravalli County Sheriffs Office and Montana DNRC. Time tag any evacuations. Conduct Public meeting Close Bass Creek Trail Consider activation of Structure Protection Group 	Notes:
			-5 Type 6 Eng -2 Tactical WT			N. N

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Management Action Points (MAPs)	Implementation Criteria	Management Intent	Resources Recommended	Estimated cost	Recommended Tactical Actions	Notes:
MAP 4 Divide ridge between Kootenai Creek and Bass Creek	Fire crosses the divide ridge and becomes well established north of the divide ridge and south of Bass Creek.	 Keep fire within the National Forest Boundary MAP 1 and MAP 2 remain the higher priorities 	 Initial Attack with locally available air resources. Consider activation of the recommende d Air Group. 	\$60,000- 200,000/ day	 If possible, suppress spot fire(s) with aerial resources. Once fire is established, disengage. Close Bass Creek Trail 	•
MAP 5 Fire is established south of Kootenai Creek	Fire becomes established south of Kootenai Creek on north aspect below St Mary. Potential for large fire growth is evident.	 Keep fire within the National Forest boundary Coordinate all suppression actions with local, county and state officials. Update Fire Complexity Analysis 	St Mary Group: -1 DIVS -1TFLD -1 SOFR -1 DOZB -1 Type 3 Doz -1 Type 1 IHC -4 Type 6 Eng -1 Type 2 WT. Structure Protection Group: -1 STPS/DIVS -2 TFLD or STEN -2 SOFR -5 Type 3 Eng -5 Type 6 Eng -2 Tactical WT	\$20,00/day +Aviation \$12,200/day	 Contain fire within road system along St Mary Face utilizing road system and natural barriers Closely coordinate with Stevensville Rural Fire Department, Ravalli County Sheriffs Office and Montana DNRC. Time tag any evacuations. Update SIP Consider activation of Structure Protection Group Close St Mary Trail Close road system along St Mary Face 	

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Management Action Points (MAPs)	Implementation Criteria	Management Intent	Resources Recommended	Estimated cost	Recommended Tactical Actions	Notes:
MAP 6 Fire is threatening or has crossed the divide ridge between Kootenai Creek and Big Creek (St Mary)	Fire behavior and/or fire location dictates a need for structure protection.	 Keep fire within the National Forest boundary. Fire spread to the south and/or east results an unwanted increase an incident complexity. Update Fire Complexity Analysis 			Update SIP	
MAP 7 New Fire Starts in the Planning Area	New fire starts within Kootenai Fire Planning Area	 Opdate SIP Manage fire in accordance with Response Level 1 Determine appropriate response with Duty Officer 			 Prior to initial attack, determine if the fire will be managed independently or as part of the Kootenai Creek Fire Planning Area 	

Type II IMT = \$250,000/day

Values at Risk Actions (see associated Management Action Point map) All actions must consider current and expected fire behavior

Management Action Points (MAPs)	Implementation Criteria	Actions (RL2 and 3)	Resources Recommended	Estimated cost to implement	Actions with Date Completed	References:			
V1 – MAP 2	If fire behavior	No water or foam.	2 Firefighters	\$ 1100					
Pictographs in	could be threatened	whap with the shielding							
Kootenai Creek	within 24 hours	,	· · · · · · · · · · · · · · · · · · ·						
V2 – MAP 7	If fire behavior	Construct handline	3 Firefighters	\$1100					
1	indicates that V3	around tree. Remove							
Look-out Tree	within 24 hours,	duit at base of tree.							
V3 – MAP 2/3	If fire behavior	Consider wetting or foaming structure							
Old Sawmill cabin	could be threatened	burn out operations,							
remnant	within 24 hours	and/or drop tank							
		w/pump and sprinklers							
V4 – MAP 7									
Bocky		н. На страна стр							
Mountaineers	Within 24 hours of a								
Shelter	fire threat	Wrap the shelter	3 Firefighters	\$1100					
V5 – MAP 7	If fire behavior					4			
	threatened within 24	Remove vegetation.							
Log Dam	hours.	Deploy soaker hose.	3 Firefighters	\$1100					
V6 – MAP 1/5	If fire behavior	Wrap cabin, remove							
L Bada da salata	indicates that V6	vegetation. Sprinklers							
Ruin	within 24 hours.	approved in needed	3 Firefighters	\$1100					
V7 – MAP 1/5	If fire behavior								
	indicates that V7	Wrap Cabin, remove							
	could be threatened	vegetation. Sprinklers	0 Firstinhtors	¢1100					
HISTORIC Cabin	within 24 nours	approved it needed.	SFILENGILLEIS	φιίου					
		1		1 1		1			

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Management Action Points (MAPs)	Implementation Criteria	Actions (RL2 and 3)	Resources Recommended	Estimated cost to implement	Actions with Date Completed	References:
V8 – MAP 1/5 St Mary's LO	If fire behavior indicates that V7 could be threatened within 24 hours	Monitor				St. Mary's is surrounded by a large rock cirque basin and should be evaluated if it needs to be wrapped.
V9 – MAP3/7 Bass Creek Cabin (not eligible for historic register)	· .					
V10 – MAP 3/7 Private structure located in-holding north of Bass Creek			1-STLD/TFLD 1-T6 Engine 5-FFT2	\$4250/day		

Medium Term	The ESPro 14 day dated 7/22/09 is the most current										
Simulation (RL2)	The For For F4 day dated 7/22/09 is the most current.										
Relative Risk Assessment (RL1, RL2 and RL3)	 Complete Steps 1 -3: Connect the left and right variables with a line. At the top of the chart, select the appropriate value; follow the line beneath this value down to its intersection with the line connecting the left and right variables. Take results as inputs to Step 4. Complete Step 4: Read the relative risk from the background area where 										
	the intersection occurs.										
STEP 1 Values	Location of Fire To Values Distant Moderate Adjacent										
	High High										
-	Natural/Cultural Resource Concerns Moderate Moderate										
	Rationale: - Location of Fires to Values: Wilderness, Stevensville										
	 Moderate to High Social/Economic concerns. Natural/Cultural Resource Concerns: moderate, Peregrine Falcon, Pictograph and Historic Cabins. 										
STEP 2 Hazard	 Moderate to High Social/Economic concerns. Natural/Cultural Resource Concerns: moderate, Peregrine Falcon, Pictograph and Historic Cabins. Fire Behavior Low Moderate High										
STEP 2 Hazard	 Moderate to High Social/Economic concerns. Natural/Cultural Resource Concerns: moderate, Peregrine Falcon, Pictograph and Historic Cabins. Fire Behavior Low Moderate High High Departure from Historic										
STEP 2 Hazard	 Moderate to High Social/Economic concerns. Natural/Cultural Resource Concerns: moderate, Peregrine Falcon, Pictograph and Historic Cabins. Fire Behavior Low Moderate High Departure from Historic Conditions Moderate Moderate Moderate Potential Medium Fire Size										
STEP 2 Hazard	 Moderate to High Social/Economic concerns. Natural/Cultural Resource Concerns: moderate, Peregrine Falcon, Pictograph and Historic Cabins. Fire Behavior Fire Behavior Moderate High Departure from Historic Conditions Moderate Low Moderate Low Low Smoll 										
STEP 2 Hazard	 Moderate to High Social/Economic concerns. Natural/Cultural Resource Concerns: moderate, Peregrine Falcon, Pictograph and Historic Cabins. Fire Behavior Low Moderate High Departure from Historic Conditions Moderate Low Conditions Moderate Low Size Smill Fire Behavior: Moderate due to "normal" yearly conditions. Time of year allows for increase in fire activity as fire season peaks. Departure from Historic Conditions: near historic conditions within										

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Decision Summary

Response Decision		-	
Initial Response Decision Rationale			
Signature (RL1)	N/A		
Response Decision (RL2)	N/A	nn	
Response Decision Rationale (RL2)	N/A		
Signature (RL2)			
()	District Ranger	Date:	
	District Ranger	Date:	
Response Decision (RL3)		4	
Response Decision			

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Rationale (RL3)		 ·····	
Signature			

Reports

Fire Report (RL1, RL2 and RL3)	To be completed by Stevensville Ranger District for their records.
FACTS Report	To be completed by the Bitterroot NF

Periodic Assessment/Validation

Assessment Frequency: Daily, as long as fire remains active & Type 3 organization/personnel are committed to the ground; to be reconsidered if conditions change. (To be documented in WFDSS by the District Ranger).

Validation Date(s): Asses daily based on fire location and SIP

Name/Title	Date	Objective s	Planning Respons e Level	Incident Manager Level
Cary Taylor/ICT 3	7/24/09	Keep fire north of Kootenai River	RL-2	ІСТЗ
		Keep fire from moving east of	RL-2	ІСТЗ
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INCIDENT NAME: 1	(ootenai C	reel	٢	,			NU	JME	BER: P1E	2K	3		
		<u></u>	ES	TIMA	TED COS	TS							
· · · · · · · · · · · · · · · · · · ·	RATE	Π	MAP 1	TT	MAP 2		MAP 3		MAP 4		MAP 5		MAP 6
CREW		#	COST	#	COST	#	COST	#	COST	#	COST	#	COST
Type I (Haz rate)	7193	Π				2	14386			1	7193		
Fed Type 2	7878						· · · ·						
AD Crew	3984	· ·											
Inmate Crew	1800				4								
Helitack	2490										,		-
Camp Crew	1716				-								
Contract T2	9004										,		
Overhead non-haz	553					3	1659			3	1659	1	553
Overhead Hazard	645	2	1290	2	1290	6	3870	2	1290	5	3225	6	3870
Casual	163												
Buying Team	2654												
Dispatch/Expand	384												
National Guard	300		-	T	i	· .							-
	4	· •							x				
Airfare	800												
Buses	832												
Caterer (ea pers)	48												
Repairs										ľ			
Fuel Truck/ No Fuel	1500												
Fuel Truck w/op&fuel	3636												
Garbage	60			T	•								
Generator/Electricty	769				. · ·								
Land Use	200					1	200					1	200
Mechanic w/truck	1192												
Ambulance	850										•		

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Office Service	1 1000					T	, T	1		1		1	· · · · · · · · · · · · · · · · · · ·
Office Trailer	500	┠──╂		++							·		
Pickups, Vans	130	┠──┼		++		-							· · · · · · · · · · · · · · · · · · ·
Showers(Avg. Daily	2925			+-+				1					
Toilets	80			++		1 1							
Portable Water	1312												
Refer	312												
Cache Items(pers)	50		,	\square		20	1000					20	1000
Phones	2000												
Pickup w/Opr	250								·				
Pickup Agency	72		******	\downarrow	<u> </u>					_			
SUV/Pickup Rental	85							ļ		 	·		I
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EQUIPMENT		#	COST	#	COST	#	COST	#	COST	#	COST	#	COST
Engine Fed T3	1357											5	6785
Engine Fed T4	1307												
Engine Fed T6	1169					4	4676	ľ.		4	4676	5	5845
Engine Cont T3	2082												
Engine Cont T4	2002												
Engine Cont T5	1920					Ī							
Engine Cont T6	1742												
Dozer Contract	1672					2	3264			1	1672		
Dozer Fed w.opr	1456				······								
Faller Module	1465												
Faller w/Saw & Trans	650			\Box									
Dozer Contract	1672			\prod									
Transport	1120								_				
Water Tender Contract	1440					.1	1440			1	1440	2	2880
Potable Water	1312												
	<u></u>											·R	

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AIRCRAFT		•								
*Retrieve daily aviation & retardant cost from the Aviation Business System (ABS) web site: http://www.fs.fed.us/business/abs /reports.php		200,000	200,000	·			200,000			
DOI - AMD Aircraft										
SEAT - Exc Use	1984								•	۰
SEAT - CWN	2386							 		
GRAND TOTAL/DAY		 201290	201290		30495		201290	 19865		30495
Remarks: Costs reflect local resources with no travel costs incurred.										
Strategic Risk Assessment Kootenai Creek Fire Bitterroot NF.

Reference the attached Kootenai Creek 215r Strategic Safety Analysis for Hazard Identification and Mitigation

Primary (Current) Course of Action-Confinement

Management Intent:

Suppress Fire/minimize firefighter exposure.

Strategy:

The fire is currently in confinement/monitor status utilizing air and ground resources as needed to support natural barriers. Utilize IR imagery/remote cameras on a scheduled basis to maintain situational awareness of current conditions.

Decision Point:

Fire is located rugged terrain and confined by Kootenai Creek to the south, the Kootenai creek/Bass Creek to the north, the Avalanche Chute to the east and wilderness to the west.. If fire crosses Kootenai Creek (MAP 1) or Avalanche Chute (MAP 2), move to Alternate Plan: Indirect Attack.

Tactical Action:

Depending on weather and fuel conditions, action may include, monitoring, aerial delivered water drops and handcrew suppression efforts. Recognize that access is limited to Kootenai Creek trail.

Exposure

Exposure is currently limited to one or more pilots and approximately 20 ground firefighters(s).

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Courstaall.			A ccentable/	
			Tolerable	
			Mitigation	
No. Alberta				

<u>Risk vs Gain</u>

Current fire behavior is in line with FMU Objectives for restoring fire into the wilderness. The fire is not considered a risk if it remains within the wilderness. The Risk involved is associated with the fire leaving the forest and threatening private land/structures. Gain is associated with positive fire effects within the wilderness.

Assessment

Firefighter Exposure: Occasional-Catastrophic/RED. Mitigation via standard fireline mitigation actions: Occasional-Hazardous/YELLOW

Aviation Exposure: Occasional-Catastrophic/YELLOW. With mitigation: Remote-Catastrophic/ YELLOW

Probability of Success

Based on the time of year, current fire behavior, forecasted weather and fire history, the Probability of success is marginal (<50%). However, the amount of firefighter exposure is minimal with some concern over helicopter operations.

Alternate Course of Action-Suppression (indirect line)

Management Intent:

Prevent fire from impacting private land/structures. Limit firefighter exposure in rugged terrain and focus efforts where the probability of success is high.

Strategy:

The fire has breached natural barriers described under the confinement course of action. Fire spread models demonstrate fire spread to east/north/south. Direct line is not considered to be a viable option due to safety concerns. Construct indirect line (see map) utilizing ground crews with aerial support.

Decision Point:

Fire has crossed Kootenai Creek (MAP 1) or Avalanche Chute (MAP 2). If fire threatens private land/structures consider MAP 4.

Tactical Action:

Construct fireline/fuelbreaks utilizing handcrews and mechanized equipment. Develop firing plan. Coordinate with local law enforcement and fire officials. Utilize tactical air support to check, direct and delay fire spread as needed to complete indirect line. Develop firing plan to begin at MAP 4.

Exposure

Exposure is based on indirect line construction for 50-100 firefighters, aircraft and mechanized equipment.

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<u>Risk vs Gain</u>

Action is in line with FMU Objectives for Roaded/WUI FMUs. The Risk is associated with the line construction tasks (chainsaws, machinery, driving, aviation, etc) and

firefighting efforts. Gain is associated with preventing damage to private/land structures and delaying fire spread until preparations are complete on indirect line.

Assessment

Firefighter Exposure: Remote-Catastrophic/YELLOW. Standard fireline mitigation practices apply. Exposure from fire reduced due to distance from fire.

Aviation Exposure: Occasional-Catastrophic/RED. With mitigation: Remote/Catastrophic YELLOW

Public Safety: Remote-Improbable/YELLOW. Perceived exposure from smoke should be addressed.

Socio-Political Exposure: Occasional/Major. Mitigation through aggressive Fire Information strategy.

Probability of Success

Based on the time of year, current fire behavior, forecasted weather and fire history, the Probability of success is High (>70%). The amount of firefighter exposure will increase as the number of firefighters increase. An indirect approach does (temporarily) remove the fire behavior threat. Exposure is associated with standard fireline construction hazards, which can be easily mitigated. Exposure will greatly increase if/when the fire reaches indirect line as the threat to the public increases. A greater degree of mitigation will be required and ultimately drive an increase in risk.

Incident Stra	Operational Period:				Incident:	Incident: Kootenai Creek						
Identification of Hazards, Assig Risk Assessment and Residual Risk Deleg incide Prima confi Altern			Assignmer Delegation incident o Primary S confineme Alternate	nt: Manag n of Autho bjectives trategy: C ent and di Strategy:	e fire con ority and i and requi combinatio rect attac Indirect a	sist den iren on k. atta	cent with Objective(s): Keep fir the east. As condition fire along Kootenai C degree practical, to b Area.	Objective(s): Keep fire from spreading outside of Wilderness to the east. As conditions allow, utilize direct attack to contain the fire along Kootenai Creek and eastern flank. Allow fire to the degree practical, to burn within the Selway-Bitteroot Wilderness Area.				
				Location			Mitigation	Post-mitigation				
Hazards	Likelihood	Severity	Risk Level	Direct Line	Indirect Line	Structure		Likelihood	Severity	Risk Level	Acceptable? Yes/No	
Weather	Remote	Major	Yellow	x	x		Obtain daily weather and spot weather forecasts. Monitor T-storm cell development.	Improbable	Major	Green	Yes	
WUI	Remote	Catastrophic	Red		x	x	Prepare evacuation plan. Identify management action points for 3 levels of notification (24hr/12hr/2hr). Ensure all residents are informed of plan. Identify management action points that would trigger the construction and burning out of contingency lines when conditions permit. Utilize aviation resources to keep fire in check on North, South and East flanks. Coordinate with local law enforcement and emergency management personnel.	Remote	Minor	Yellow	Yes	
Wildlife	Occasional	Catastrophic	Red	x	x		Brief resources on safe practices when working around bear and moose. Maintain clean camp.	Remote	Hazardous	Yellow	Yes	
Aviation	Remote	Catastrophic	Red	x	x	x	Utilize air attack. Flight-follow locally. Ensure ground contacts. Ensure clear targets.	Improbable	Catastrophic	Yellow	Yes	
Transportation	Occasional	Catastrophic	Red	x	x	x	Slow down. Post signs. Drive defensively. Monitor hours worked. Limit driving in darkness.	Remote	Hazardous	Yellow	Yes	
Snags/Hazard Trees	Occasional	Hazardous	Red	x	x		Identify, locate, isolate. Fall snags in work areas if practical/safe.	Remote	Hazardous	Yellow	Yes	
Fire Behavior	Remote	Catastrophic	Red	X	X	x	Identify fire and weather parameters for disengagement. Only use direct attack during periods of benign fire behavior. Identify escape routes. Ensure adequate safety zones are present. Assign FBAN and utilize pocket cards. Post lookouts and monitor by air attack.	Improbable	Catastrophic	Yellow	Yes	
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Operations Section Chief		Date / Time:			Safety Officer		Date / Tim	10:			
Heavy Equipment	Remote	Major	Yellow		X		Assign dozer bosses with radios	Improbable	Major	Yellow	Yes
Communications	Occasional	Catastrophic	Red	x	x	x	Establish human repeaters in effective locations, use air attack, use local frequencies as assigned.	Improbable	Catastrophic	Yellow	Yes
Terrain/walking	Occasional	Minor	Yellow	x	x		Use briefings and safety messages as opportunities to discuss terrain hazards	Occasional	Minor	Yellow	Yes
Human Factors	Occasional	Catastrophic	Red	x	x	x	Provide clear Leader's Intent. Communicate. Monitor fatigue and apply work/rest guidelines. Address complacency.	Remote	Hazardous	Yellow	Yes
Camp/Spike Camp	Occasional	Major	Yellow	x	x	x	Provide adequate food, water and shelter. Maintain sanitary conditions. Brief personnel on personal hygiene.	Remote	Major	Yellow	Yes

ICS 215A NIMO (June 2009)

Likelihood/Probability

5 Frequent- Occur Many Times
4 Occasional- Occur Sometimes
3 Remote- Unlikely, But Possible to Occur
2 Improbable- Very Unlikely to Occur
1 Extremely Improbable- Almost inconceivable

Severity/Consequences

5 Catastrophic- Equipment destruction/multiple Fatalities

4 Hazardous- Serious Injury, Major Equip Damage

3 Major- Serious Injury, Serious Accident

2 Minor- Nuisance, Use of Emergency procedures

1 Negligible- Little Consequence