

# Ignition Outcome Reports

To access these reports, navigate to **Reports > Output Reports** and click **Ignition Outcomes** in the **FPU Summary Output Reports** box. This generates two spreadsheet reports in a single .zip folder; one is the [Cumulative Fire Outcome Report](#) and the other spreadsheet contains the [Outcome Summary Reports](#).

## Cumulative Fire Outcome Report

This report summarizes the Initial Response Simulation (IRS) ignition outcomes for an entire Fire Planning Unit (FPU).

	A	B	C
1	Analysis ID :40096933	Analysis Name :Cal Test 2	Num Model Yrs :200.0
2	Alternative Name	Fuels Option: .Current, Preparedness Option: .Current	Fuels Option: Existing, Preparedness Option: .Current
3	Alternative ID	40096946	40096955
4	# Fires	1.40	1.40
5	ESL	0.85	0.85
6	Contained	0.55	0.55
7	Prevented	0.00	0.00
8	WFU	0.00	0.00
9	IA Success %	39.43	39.43
10	Avg Size Contained	6.54	6.57
11			

### Row Title Definitions

- **Analysis ID:** The system-generated analysis number for each alternative name run by the report.
- **Analysis Name:** The name of the analysis as entered in **Welcome > Select Team and Analysis**.
- **Num Model Yrs:** The number of years modeled for this Analysis ID.
- **Alternative Name:** Displays to the right, one or more investment alternatives (fuels options and preparedness option combinations) selected in **Run Models > Run All Models** for this analysis. Each investment alternative becomes a column heading for a single alternative.
- **Alternative ID:** Displays the system-generated investment alternative number for each alternative name run by the report.
- **# Fires:** Total number of fires for the Alternative ID.
- **ESL:** The number of fires that Exceed Simulation Limits (ESL) for the Alternative ID.
- **Contained:** The number of fires contained for the displayed Alternative ID.
- **Prevented:** The number of fires prevented for the displayed Alternative ID.
- **IA Success %:** Displays the initial attack success percentage for the Alternative ID.
- **Avg. Size Contained:** Average total acres burned annually as calculated for the IRS module.

# FPA User Guide

## Outcome Summary Report

### Outcome Summary Reports

#### Fire Status Report

This report displays the average number of fires per year across the number of years you select to analyze.

	A	B	C	D	E	F	G	H	I	J	K
1	AlternativeID :	36304645	Alternative Name :	Fuels Option: Current	Preparedness Option: Current						
2	FMU Name	FWA Identifier	Contained	ESL Time	ESL Size	Outrun	No Resources Sent	Prevented	WFU	Not Modeled	Contained + Prevented
3	SO_WI_FPU_NW_FINW_FMU_BIA_FWA										0.00
4	SO_WI_FPU_NW_FINW_FMU_NON_PART_FWA										0.00
5	SO_WI_FPU_NW_FINW_FMU_FWS_NPS_FWA							1.00			1.00
6	SO_WI_FPU_SO_FM_SO_FMU_FWS_FWA		1.00								1.00
7	SO_WI_FPU_SO_FM_SO_FMU_BIA_FWA		1.00								1.00
8	SO_WI_FPU_SO_FM_SO_FMU_NON_PART_FWA										0.00
9	Unassigned	Water									0.00
10											

#### Row Title Definitions

- **Alternative ID:** The system-generated investment alternative number associated with an alternative name.
- **Alternate Name:** Displays to the right, one or more investment alternatives (fuels options and preparedness option combinations) selected in **Run Models > Run All Models** for this analysis. Each investment alternative becomes a column heading for a single alternative.

#### Column Title Definitions

- **FMG Name:** The name of the Fire Management Group (FMG) associated with the Alternative ID.
- **FWA Identifier:** The name of the Fire Workload Area (FWA) associated with the Alternative ID.
- **Contained:** The number of fires contained in the Initial Response Simulation (IRS) model for the FWA.
- **ESL Time:** The Exceed Simulation Limit (ESL) Time in minutes per FWA. If this number is too low this means the IRS model does not have time to respond to fires prior to reaching this time limit. This results in these fires not being contained. If you have a 2-hour Callback Delay, try increasing the time up to 1200 minutes to maximize the use of resources. Navigate to the **Input Data > FWAs > Fire Attributes** screen and enter additional time to the **ESL Time** text box.
- **ESL Size:** The number of ESL acres per FWA. If the size (in acres) is too small compared to the rate of spread, fire resource arrival time, and production rate, the IRS model does not have enough acreage for a fire to grow before being contained. Navigate to the **Input Data > FWAs > Fire Attributes** screen and enter additional acres to the **ESL Acres** text box.
- **Outrun:** A fire becomes outrun when the available line building rates are no longer enough to contain a modeled fire event. The system may model a fire as outrun because resources have reached their 18-hour work shift limit and were pulled off a fire, or an increase in the diurnal coefficient increases Rate of Spread (ROS) beyond resource capabilities.

- **No Resources Sent:** Number of fires where no resources responded to a fire event. This could be due to commitments or multiple fires. If this number does not reflect what occurs in the Fire Workload Area (FWA), check the Dispatch Logic table associated with the FWA (navigate to **Input Data > FWAs > Dispatch Logic**) to verify this table is the best choice. Also, check that the Dispatch Locations (navigate to (**Input Data > FWAs > Dispatch Associations**)) are associated with the FWA.
- **Prevented:** The number of fires prevented in the FWA associated with the Alternative ID.
- **Not Modeled:** Currently not in use.
- **Contained + Prevented:** The total number of contained and prevented fires for the FWA.

### Contained by Fire Intensity Level (FIL)

This report indicates the number of fires and acres that may be above damaging Fire Intensity Level (FIL.)

1	A	B	C	D	E	F	G	H	I	J	K
2	AlternativeID :	36304645	Alternative Name :	Fuels Option:	Current, Preparedness Option:	Current					
3		ANY FIL	ZERO TO TWO FEET	TWO TO FOUR FEET	FOUR TO SIX FEET	SIX TO EIGHT FEET	EIGHT TO ...				
4	Average Acres	# of Fires	Average Acres	# of Fires	Average Acres	# of Fires	Average Acres	# of Fires	Average Acres	# of Fires	Average Acres
4	SO_WI_FPU_NW_FNNW_FMU_BIA_FWA										
5	SO_WI_FPU_NW_FNNW_FMU_NON_PART_FWA										
6	SO_WI_FPU_NW_FNNW_FMU_FWS_NPS_FWA										
7	SO_WI_FPU_SO_FNSO_FMU_FWS_FWA							181.80	1.00		
8	SO_WI_FPU_SO_FNSO_FMU_BIA_FWA						97.54	1.00			
9	SO_WI_FPU_SO_FNSO_FMU_NON_PART_FWA										
10	Unassigned	Water									

#### Row Title Definitions

- **Alternative ID:** The system-generated investment alternative number associated with an alternative name.
- **Alternate Name:** Displays to the right, one or more investment alternatives (fuels options and preparedness option combinations) selected in **Run Models > Run All Models** for this analysis.
- **ANY FIL:** The FIL size in two feet increments. This output report displays all FIL sizes.

#### Column Title Definitions

- **Average Acres:** For each FIL size, the number of acres burned annually for the FMG/FWA combination and the number of years run.
- **# of Fires:** For each FIL size, the number of fires annually for the FMG/FWA combination and the number of years run.

### Contained by Fire Class

This report displays the fire history distribution by fire size class. The reported values are approximations, so they may not exactly match your distributions.

# FPA User Guide

## Outcome Summary Report

	A	B	C	D	E	F	G	H	I	J	K
1	AlternativeID :	36304645	Alternative Name :	Fuels Option: Current, Preparedness Option: Current							
2	FMU Name	FWA Identifier	A		B		C		D		
3			Average Acres	# of Fires	Average Acres	# of Fires	Average Acres	# of Fires	Average Acres	# of Fires	Average Acres
4	SO_WI_FPU_NW_FINW_FMU_BIA_FWA										
5	SO_WI_FPU_NW_FINW_FMU_NON_PART_FWA										
6	SO_WI_FPU_NW_FINW_FMU_FWS_NPS_FWA										
7	SO_WI_FPU_SO_FNSO_FMU_FWS_FWA										
8	SO_WI_FPU_SO_FNSO_FMU_BIA_FWA					97.54	1.00		181.80	1.00	
9	SO_WI_FPU_SO_FNSO_FMU_NON_PART_FWA										
10	Unassigned	Water									

### Row Title Definitions

- **Alternative ID:** The system-generated investment alternative number associated with an alternative name.
- **Alternate Name:** Displays to the right, one or more investment alternatives (fuels options and preparedness option combinations) selected in **Run Models > Run All Models** for this analysis.

### Column Title Definitions

- **FMG Name:** The name of the Fire Management Group (FMG) associated with the Alternative ID.
- **FWA Identifier:** The name of the Fire Workload Area (FWA) associated with the Alternative ID.
- **A-G:** The fire class size.
- **Average Acres:** For each FIL size, the number of acres burned annually for the FMG/FWA combination and the number of years run.
- **# of Fires:** For each FIL size, the number of fires annually for the FMG/FWA combination and the number of years run.

### Ignitions Totals Per Year

This report displays the number of years modeled for each FWA and summarizes the number of fires by containment status.

	A	B	D	E	F	G	H	I	J
1	AlternativeID :	36304645							
2	Fuel Option :	.Current							
3	Prep. Option :	.Current							
4	FMU Name	FWA Identifier	Model Year	# ESL	# Contained	# WFU	# Prevented	Total	
5	SO_WI_FPU_NW_FINW_FMU_BIA_FWA		1	0	0	0	0	0	0
6	SO_WI_FPU_NW_FINW_FMU_NON_PART_F		1	0	0	0	0	0	0
7	SO_WI_FPU_NW_FINW_FMU_FWS_NPS_F		1	0	0	0	1	1	1
8	SO_WI_FPU_SO_FNSO_FMU_FWS_FWA		1	0	1	0	0	1	1
9	SO_WI_FPU_SO_FNSO_FMU_BIA_FWA		1	0	1	0	0	1	1
10	SO_WI_FPU_SO_FNSO_FMU_NON_PART_F		1	0	0	0	0	0	0
11	Unassigned	Water	1	0	0	0	0	0	0
12									

### Row Title Definitions

- **Alternative ID:** The system-generated investment alternative number associated with an alternative name.

- **Fuel Option:** The name of the fuels option associated with the Alternative ID.
- **Prep. Option:** The name of the preparedness option associated with the Alternative ID.

**Column Title Definitions**

- **FMG Name:** The name of the Fire Management Group (FMG) associated with the Alternative ID.
- **FWA Identifier:** The name of the Fire Workload Area (FWA) associated with the Alternative ID.
- **Model Year:** The year as reflected by the number of years modeled for this Alternative ID. For example, if you are modeling 15 years and the year number displayed under **Model Year** is 11, it means information for that row reflects modeled activity for the 11th year of the 15-year period.
- **# ESL:** The number of fires that annually Exceed Simulation Limits (ESL) for the Alternative ID and number of years run.
- **# Contained:** The number of fires contained annually for the displayed Alternative ID and number of years run.
- **# Prevented:** The number of fires prevented for the displayed Alternative ID.
- **Total:** The total number of annual ESL, Contained, and Prevented fires for the displayed Alternative ID and number of years run.

**Deployed Fire Resources Report**

For further information, see [Resource Utilization Report](#).

**IR Contained Ignitions**

	A	B	E	F	G	H
1	Alternative ID:	48651939				
2	Fuel Option:	plus 60%				
3	Prep. Option:	M20				
4	<b>FMU Name</b>	<b>FWA Identifier</b>	<b>Avg Total WUI Acres Burned Annually</b>	<b># WUI Fires</b>	<b>Avg Total HVR Acres Burned Annually</b>	<b># HV</b>
5	FS_General_Forest	FS_GF_01_North_End	35.45	1.99		0.00
6	FS_General_Forest	FS_GF_02_Hughes_Isl	88.62	1.21		0.00
7	FS_General_Forest	FS_GF_03_Farles	12.25	0.59		0.00
8	FS_Military_Use	FS_MU_01_Bombing_Rng	0.00	0.00		0.00
9	FS_Military_Use	FS_MU_02_Artlry_Rng	0.00	0.00		0.00
10	FS_Mixed_Ownership	FS_MO_01_Hog_Valley	115.85	1.92		0.00
11	FS_Mixed_Ownership	FS_MO_02_Lake_Kerr	162.60	4.37		0.00
12	FS_Mixed_Ownership	FS_MO_03_Lynn	140.82	8.50		0.00
13	FS_Mixed_Ownership	FS_MO_04_Electra	343.06	14.63		0.00
14	FS_Mixed_Ownership	FS_MO_05_Nicotoon_Lk	269.65	6.44		0.00
15	FS_Mixed_Ownership	FS_MO_06_Alexander_C	276.68	15.52		0.00
16	FS_Threat	FS_T_01_Rodman	0.05	0.18		0.00
17	FS_Threat	FS_T_02_Eureka	34.27	1.17		0.00
18	FS_Threat	FS_T_03_Moss_Bluff	6.11	0.81		0.00
19	FS_Threat	FS_T_04_Linadale	40.53	1.61		0.00
20	FS_Threat	FS_T_05_Paisley	41.79	2.20		0.00
21	FS_Threat	FS_T_06_Volusia	0.53	0.20		0.00
22	FS_Threat	FS_T_07_Ferry	1.56	0.18		0.00

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## Outcome Summary Report

### Column Title Definitions

- **FMG Name:** The name of the Fire Management Group (FMG) associated with the Alternative ID.
- **FWA Identifier:** The name of the Fire Workload Area (FWA) associated with the Alternative ID.
- **Avg Total WUI Burned Annually:** Average number of WUI acres burned annually.
- **# WUI Fires:** Total number of annual WUI fires for the Alternative ID.
- **Avg. Total HVR Acres Burned Annually:** Average number of HVR acres burned annually
- **# HVR Fires:** Total number of annual HVR fires for the Alternative ID.
- **Avg. Total Damaging HVR Acres Burned Annually:** Average number of Damaging HVR acres burned annually

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