

Interagency Dispatch Implementation Project (IDIP)

Dispatch GIS Support - Addendum

Computer Aided Dispatch Geospatial Data Clearinghouse

This document identifies authoritative sources of geospatial data that is often used within a computer-aided dispatch (CAD) system for wildfire incident response & support.

It provides information regarding the layer name, update cycle & last date updated, data format & type, the authoritative hosting source for the data layer, links to the data layer download and details (metadata for example). The intent is two fold: first to provide a source location of available geospatial data layers that may be downloaded for existing CADs including WildCAD. The second is to provide a base geospatial data layer business requirement for a new national CAD system.

Data Layer Name	EGP / WFDSS Layer?	Current WildCAD Layer?	Needed in National CAD?	Update Cycle & (Month)	Geospatial Data Format	Data type	Last Date Updated	Source Location	Authoritative Data Source	Data Source Link	Layer Details
Base Layers											
WFDSS Topos	Yes	No	Yes	Not Available		Raster	N/A	National	WFDSS		
Google Maps	Yes	No	Maybe	Web Service		Raster	N/A	National	Google		
Google Physical	Yes	No	Maybe	Web Service		Raster	N/A	National	Google		
USGS National Map Topo	Yes	No	Yes	Web Service			N/A	National	USGS		
USGS National Map Imagery w/labels	Yes	No	Maybe	Web Service		Raster	N/A	National	USGS		
USGS National Map Imagery w/labels	Yes	No	Maybe	Web Service		Raster	N/A	National	USGS		
Fire Related											
Incidents	Yes	No	Maybe	Internal		Vector- point	N/A	National / Local	IRWIN		
Active MODIS	Yes	No	Yes	Data Service	Map Service	Vector-polygon	N/A	National	USGS	http://wildfire.cr.usgs.gov/ArcGIS/rest/services/geomac_dyn/MapServer	
Lightning	Unknown	No	Yes	Web based				National		This used to work in WildCAD but does not anymore.	
RAWS Stations	Yes	No	Yes	Data Service	Shapefile download	Vector	N/A	National	WIMS / Predictive Services	http://psgeodata.fs.fed.us/download.html	Base/Key RAWS Stations
Fire Weather Zones	Yes	No	Yes	See Website (as available)	Shapefile download	Vector		National	NWS / Predictive Services	http://psgeodata.fs.fed.us/download.html	Base/Fire Weather Forecast Zones
Retardant Avoidance (USFS lands only)	Yes	Yes	Yes	Scheduled Annual (April)				National	USFS GSTC	http://apps.fs.fed.us/arcx/rest/services/EDW_FEATURE	AerialFireRetardantAvoidanceAreas
Significant Fire Potential	Yes	No	Maybe	Data Service	Image Service	Raster	N/A	National	Predictive Services	http://apps.fs.fed.us/arcx/rest/services/RDW_Wildfire	
Wildfire Urban Interface	No	Maybe	Yes					??	??	There are numerous WUI layers - will have to refine further	
Fire Prevention Zones	No	Yes	Yes					Local	??	???	

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Firefighter Safety / Risk Management											
Estimated Ground MedEvac Time	Yes	No	Yes	Annual (?)			1/24/2013	National	NPS	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/EstimatedGroundEvacTime.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_Est_Grd_Medevac_Time.html
Military Airspace (MTR/MOA)	Unknown	Yes	Yes	??			??	Local	??	???	
H2S areas	Unknown	Yes	Yes					Local		May be related to the Mines & Gas/Oil layers below - if not, then need separate layer	
Airspace - VORs	Unknown	Unknown	Yes					National? / Local			
Airspace - Initial Attack Frequency Zone Boundaries	Unknown	Unknown	Yes	Annual (March)			5/1/2016	National	NIRSC		
Aerial Hazards	No	Yes	Yes	?				??	???	???	
Disturbance History											
Historical Fires - 2014	Yes	No	Yes	Annual (April)	Download - shapefile	Vector-polygon	8/7/2015	National	WFDSS via inter-agency submissions	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/WFDSS_FirePerimeters_2014.zip	http://wfdss.usgs.gov/wfdss_help/WFDSS_Help_Historical_Fire_Data.html
Historical Fires – 2013	Yes	No	Yes	Annual (June)	Download - shapefile	Vector-polygon	7/1/2014	National	WFDSS via inter-agency submissions	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/WFDSS_FirePerimeters_2013.zip	http://wfdss.usgs.gov/wfdss_help/WFDSS_Help_Historical_Fire_Data.html
Historical Fires – 2010-2012	Yes	No	Yes	Annual (June)	Download - shapefile	Vector-polygon	7/1/2014	National	WFDSS via inter-agency submissions	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/WFDSS_FirePerimeters_2010_2012.zip	http://wfdss.usgs.gov/wfdss_help/WFDSS_Help_Historical_Fire_Data.html
Historical Fires – 2000-2009	Yes	No	Yes	Annual (June)	Download - shapefile	Vector-polygon	7/1/2014	National	WFDSS via inter-agency submissions	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/WFDSS_FirePerimeters_2000_2009.zip	http://wfdss.usgs.gov/wfdss_help/WFDSS_Help_Historical_Fire_Data.html
Historical Fires – 1990-1999	Yes	No	Yes	Annual (June)	Download - shapefile	Vector-polygon	7/1/2014	National	WFDSS via inter-agency submissions	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/WFDSS_FirePerimeters_1990_1999.zip	http://wfdss.usgs.gov/wfdss_help/WFDSS_Help_Historical_Fire_Data.html
Historical Fires – 1980-1989	Yes	No	Yes	Annual (June)	Download - shapefile	Vector-polygon	7/1/2014	National	WFDSS via inter-agency submissions	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/WFDSS_FirePerimeters_1980_1989.zip	http://wfdss.usgs.gov/wfdss_help/WFDSS_Help_Historical_Fire_Data.html
Historical Fires – 1979 & earlier	Yes	No	Yes	Annual (June)	Download - shapefile	Vector-polygon	7/1/2014	National	WFDSS via inter-agency submissions	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/WFDSS_FirePerimeters_1979_earlier.zip	http://wfdss.usgs.gov/wfdss_help/WFDSS_Help_Historical_Fire_Data.html
Fuel Treatments Polygons	Yes	No	Yes	Annual (February)		Vector-Polygon		National / Local	Interagency submissions		
MTBS Burn Severity	Yes	No	Unknown	Web Services	Service	Raster	N/A	National	RSAC	http://apps.fs.fed.us/arcx/rest/services/RDW_Wildfire	
Fire Occurrence	?	?	?	Annual	Download-Geodatabase	Vector- Point			USFS	http://www.fs.usda.gov/rds/archive/Product/RDS-2013-0009_3/	
VIIRS Fire Detection Data	Yes	No	Yes	Web Services			N/A	National	RSAC		

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Boundaries											
Dispatch Boundaries	Unknown	Yes	Yes	?	Shapefile download	Vector	?	National / Local	Predictive Services	http://psgeodata.fs.fed.us/download.html	Base/Geographic Area Dispatch Areas
Response Areas	Unknown	Yes	Yes			Vector		Local			
Dispatch Locations	Unknown	Yes	Yes			Vector		Local	GACC		
FMUs / Strategic Objective Shapes	Yes	Yes	Yes	Annual (see website)	MapServer			National? / Local	EGP	https://egp.nwcg.gov/arcgis/rest/services/FireCOP/USFSFireCOP_FireManagementUnits/MapServer	must have EGP login
Fire District Boundaries	Unknown	Yes	Yes	??		Vector		Local	??	<i>This may be the same as FMUs above although there may be non-Federal fire districts that have been identified</i>	
Public Land Survey System (PLSS)	Unknown	Yes	Yes	??			??	National / Local	??		
Ownership	Unknown	Yes	Yes			Vector		Local		<i>Is this maybe the PLSS layer?</i>	
Jurisdictional Agencies	Yes	Yes	Yes	Annual (May)	Map Service	Vector	11/21/2013	National / Local	BLM – NOC	https://gis.blm.gov/arcgis/rest/services/lands	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_SMA_Layer.html
Responsible Agencies (Protection)	Yes	Yes	Yes	Annual (June)			9/23/2015	National / Local	AK, CA, ID, MT, MN, NM	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/ResponsibleAgencies.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_Admin_Boundaries_Data.html
Alaska Jurisdictional Agencies	Yes	Yes	Yes	Annual (February)				National / Alaska	BLM Alaska Fire Service / NPS		
Agency Base Maps	No	Yes	Yes			Raster		Local	BLM, USFS	some availability- Contact BLM-NOC	BLM 100k image service - internal to BLM
Boundaries – Federal Administrative Areas											
BIA / Tribal	Yes	Yes	Yes	Annual (?)			7/9/2011	National / Local	BIA	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/BIAAdminBoundaries.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_Admin_Boundaries_Data.html
BLM	Yes	Yes	Yes	Annual (?)	Map Service	Vector-polygon	4/13/2011	National / Local	BLM	https://gis.blm.gov/arcgis/rest/services/admin_boundaries/BLM_Natl_AdminUnit/MapServer	
NPS	Yes	Yes	Yes	Annual (March)	Map Service	Vector-polygon	7/23/2015	National / Local	NPS	https://services1.arcgis.com/fbc8EJBxQRMchlei/ArcGIS/rest/services/NPS_Boundaries/FeatureServer	
USFS	Yes	Yes	Yes	Annual (March)			2/5/2015	National / Local	USFS		
USFWS	Yes	Yes	Yes	Annual (March)			3/13/2014	National / Local	USFWS	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/USFWSAdminBoundaries.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_Admin_Boundaries_Data.html
TNC Lands	Yes	Unknown	Yes	Annual (March)				?	TNC		
Geographic Areas	Yes	No	Yes	As Available (January)	Shapefile download	Vector-Polygon		National	Predictive Services	http://psgeodata.fs.fed.us/download.html	Base/Geographic Areas
Counties	Yes	Yes	Yes	Annual (?)		Vector	2/5/2011	National	TIGER	http://www.wfmrda.nwcg.gov/SpatialData/data/downloads/Counties.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_Counties.html
Landscape Source	Yes	No	Unknown	WFDSS Internal			N/A	National	LANDFIRE		

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Designated Areas											
Wilderness	Yes	Yes	Yes	Annual (April)			6/1/2015	National / Local	Wilderness.net	http://www.wfmrda.nwcg.gov/SpatialData/datadownloads/WildernessAreas.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHELP_Wilderness.html
Potential Wilderness											
Wilderness Study	Yes	No	Unknown	Annual (?)			9/20/2011	National	USFS, BLM	https://gis.blm.gov/arcgis/rest/services/landshttp://apps.fs.fed.us/arcx/rest/services/EDW_FEATURE	
Inventoried Roadless	Yes	No	Unknown	Annual (?)			9/20/2011	National / Local	USFS	http://www.wfmrda.nwcg.gov/SpatialData/datadownloads/InventoriedRoadlessAreas.zip	http://wfdss.usgs.gov/wfdss_help/6918.htm
Special											
National Recreation Areas	Yes	No	Yes	Annual (?)			9/20/2011	National / Local	USFS	http://www.wfmrda.nwcg.gov/SpatialData/datadownloads/NationalRecAreas.zip	http://wfdss.usgs.gov/wfdss_help/6925.htm
Other Designated Areas	Yes	No	Yes	Annual (?)			9/20/2011	National / Local	BLM, USFS, USFWS	http://www.wfmrda.nwcg.gov/SpatialData/datadownloads/OtherDesignatedAreas.zip	http://wfdss.usgs.gov/wfdss_help/6930.htm
BLM											
Horse & Burro Areas	Yes	No	Unknown	Annual (June)	Map Service	Vector-polygon		National / Local	BLM-NOC	https://gis.blm.gov/arcgis/rest/services/range/BLM_Natl_WHB_Geocortex/MapServer	
Oil & Gas Leases	Yes	Yes	Yes	Annual (June)		Tabular		National / Local	BLM		
Range Allotments	Yes	Yes	Yes	Annual (June)	Geodatabase	Vector-polygon		National / Local	BLM-NOC		coming soon- map service
Population											
Landscan Nighttime Population	Yes	No	Unknown	Annual (June)				National	HSIP / Oak Ridge National Lab		
Infrastructure											
Facilities											
Building Clusters	Yes	Unknown	Yes	Periodic (as data becomes available)				National	FGDC Cadastral Subcommittee		
BLM Buildings	Yes	Yes	Yes	Annual (?)	Geodatabase	Vector-points		National / Local	BLM-NOC		
NPS Buildings	Yes	Yes	Yes	Annual (February)			7/24/2015	National / Local	NPS – FMSS	http://www.wfmrda.nwcg.gov/SpatialData/datadownloads/NPSBuildings.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHELP_NPS_Building.html
USFS Buildings	Yes	Yes	Yes	Annual (February)			2/5/2015	National / Local	USFS – INFRA	http://www.wfmrda.nwcg.gov/SpatialData/datadownloads/USFSBuildings.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHELP_USFS_Struct_Data.html
Mines	Yes	Yes	Yes	As available (October)				National / Local	HSIP		
Campgrounds	Yes	Yes	Yes	Annual (February)				National / Local	BLM / USFS		
Communications											
Communication Towers	Yes	Yes	Yes	Annual (February)		Vector	3/13/2013	National / Local	FCC	http://www.wfmrda.nwcg.gov/SpatialData/datadownloads/CommunicationTowers.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHELP_FCC_Com_Towers.html

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Energy											
Power Plants	Yes	Yes	Yes	As available (October)	Download	Vector		National	HSIP		
Electric Sub Stations	Yes	Yes	Yes	As available (October)	Download	Vector		National	HSIP		
Transmission Lines	Yes	Yes	Yes	As available (October)	Download	Vector		National / Local	HSIP		
Oil & Gas Pipelines	Yes	Yes	Yes	As available (October)	Download	Vector		National / Local	HSIP		
Roads & Trails											
Roads	Yes	Yes	Yes	As available (January)		Vector- line		National / Local	NavTeq / HSIP		
Mileposts	Unknown	Yes	Yes			Vector- point		National? / Local			
Trails	Unknown	Yes	Yes			Vector- line		Local			
National Scenic Byways	Yes	Unknown	Yes	Annual (?)			None in 2015	National	NPS		
National Historic Trails	Yes	Unknown	Yes	Annual (?)	Map Service	Vector- line	None in 2015	National	NPS	https://services1.arcgis.com/fbc8EJBxQRMchlei/ArcGIS/rest/services/NationalTrailSystemCartographic/FeatureServer	
National Recreational Trails	Yes	Unknown	Yes	Annual (?)			None in 2015	National	NPS		
National Scenic Trails	Yes	Unknown	Yes	Annual (?)	Map Service	Vector- line	None in 2015	National	NPS	https://services1.arcgis.com/fbc8EJBxQRMchlei/ArcGIS/rest/services/NationalTrailSystemCartographic/FeatureServer	
USFWS Trails	Yes	Unknown	Yes	Annual (?)		Vector- line	None in 2015	National	USFWS		
Natural & Cultural Resources											
Air Quality											
Class I Airsheds	Yes	Unknown	Yes	Annual (?)			5/4/2009	National	NPS – Air Resources Division	http://www.wfmrda.nwcg.gov/SpatialData/dataset/downloads/ClassOneAirsheds.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_Class1_Airshed_Boundary.html
NAA Ozone	Yes	Unknown	Unknown	Annual (?)			1/29/2014	National	EPA	http://www.wfmrda.nwcg.gov/SpatialData/dataset/downloads/NAAOzone.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_NAA_Ozone.html
NAA Particulates	Yes	Unknown	Unknown	Annual (?)			1/29/2014	National	EPA	http://www.wfmrda.nwcg.gov/SpatialData/dataset/downloads/NAAParticulates.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_NAA_Participulates.html
Critical Habitat T&E (polygons)	Yes	Yes	Yes	Annual (January)		Vector-polygon	1/7/2015	National / Local	USFWS	http://www.wfmrda.nwcg.gov/SpatialData/dataset/downloads/CriticalHabitat.zip	http://wfdss.usgs.gov/wfdss_help/WFDSSHelp_Critical_Habitat.html
Critical Habitat T&E (lines)	Yes	Unknown	Yes	Annual (January)		Vector- line		National	USFWS		
Other Species											
Greater Sage Grouse Habitats Combined	Yes	Yes	Yes	Annual (May)	Map Service	Vector-polygon	Jun-16	National / Local	BLM – NOC	https://gis.blm.gov/arcgis/rest/services/wildlife	Raw data is here- annually Fire does a geodatabase "mashup"
Gunnison Sage Grouse	Yes	Maybe	Yes	Annual (May)	Download	Vector-polygon		National / Local	USFWS		

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Other Layers											
Other CAD layers											
Place Names	Unknown	Yes	Yes					National? / Local			<i>would this come from the Google layer? Supplied by WildCAD contractor?</i>
Local Unit interior boundaries (ie Ranger Districts)	Unknown	Yes	Yes					Local			<i>Not sure if the agency jurisdictional boundary maps go down to this level (USFS ranger districts, BLM Field offices, state forestry areas, etc)</i>
Addresses	Unknown	Some	Yes					Local			<i>This is for finding reported smoke reports based on home address or hwy mile marker. Not sure where this layer comes from</i>