Department of **Biodiversity, Conservation and Attractions**

GOVERNMENT OF WESTERN AUSTRALIA

PARKS AND WILDLIFE SERVICE

Fire Datasets: Look Up Tables

The Annual Fire Event Dataset (AFED) is a geodatabase depicting the areas affected by prescribed burning and bushfires each financial year. The spatial data is linked to a table containing the identity and location of each burn, as well as other information required for corporate reporting. The information provided within the AFED is then processed to produce the departments Fire History and Fuel Age datasets.

The following tables provide a guide to the codes and terminology used within the attribution of these datasets.

Attribute	Description	Example
fih_fire_s	Fire season (YYYY/YYYY)	2012/2013
fih_year1	Calendar year of the fire	2013
fih_season	If a date is available, derive season from that based on Season LUT. Where there is no exact date or season available, the following default values for 'Season' should be allocated: Forest Regions, South Coast, Wheatbelt, Midwest: PB = Spring, WF = Summer Where there is no firetype available the default value of 999 can be assigned to 'season'.	SU
fih_distri	District code. See District and region LUT for official codes	PIL
fih_hist_d	Full district name	PILBARA
fih_number	The bushfire or burn number. Mark historic records as '999' if blank. One entry per bushfire or burn.	PIL_016 or BF_2019_PIL_001
fih_fire_t	Choice of the following: Wildfire/Bushfire Prescribed Burn Mining Rehabilitation Area Plantation (clearfell) Area Unknown (historic fire event)	 WF PB MR PL 999
fih_date1	The date must match any other temporal information of the record, such as 'Year' or 'Season'. For records that have no date information a date has to be assigned to a given record. Do not use 'various'. If a burn is ignited multiple times in a financial year, set the date of the first ignition. See table of default values for 'Date' is available. 1945/46, Autumn 1945/46, Spring 1945/46, Winter 1945/46, Summer 1945/46, Wet 1945/46, Dry 1945/46, 999	 1/04/1946 16/09/1945 1/07/1945 1/01/1946 1/12/1945 1/04/1946 16/09/1945
fih_cause	Fire cause as derived from the Bushfire cause LUT	1
fih_ignit_	Ignition type of the fire, see the Ignition type LUT	HB
fih_capt_m	Capture method as derived from the Capture method LUT	HCGPS
	Description	Example
fih_author	Person adding/digitising the fire boundary	amandaf

fih_poly_t	Choice of the following: Gross planned treatment boundary Lighting plan treatment boundary Actual burnt area (Burnt and unburnt pockets)	 Gross Treatment Cell Treatment Actual Burnt
fih_commen	Any additional comments	
fih_name	Bushfire/ burn name	MEENTHEENA
fih_burn_p	Burn purpose, see Burn purpose LUT	PRT
fih_master	Not applicable	
fih_perime	Perimeter, calculated in kilometres	24.264
fih_hectar	Area, calculated in hectares	458.245
Shape_Leng	Not applicable	
Shape_Area	Not applicable	

Season LUT

Season	Abbreviation	Month start	Date start	Month finish	Date finish
Winter	*WI*	July	1/07/2002	September	15/09/2002
Spring	*SP*	September	16/09/2002	December	31/12/2002
Summer	*SU*	January	1/01/2003	March	31/03/2003
Autumn	*AU*	April	1/04/2003	June	30/06/2003
Wet	*WT (Kimberley only)*	December	1/12/2003	March	31/03/2002
Early Dry	*EDR (Kimberley only)*	April	1/04/2003	June	30/06/2003
Late Dry	*LDR (Kimberley only)*	July	1/07/2003	November	30/11/2003
None	*999*	September	16/09/2003	December	31/12/2003

District and region LUT

Region	District	Code	Historical
Goldfields	Goldfields	GLD/KAL*	
Kimberley	East Kimberley	EKM	EKI
Kimberley	West Kimberley	WKM	WKI
Midwest	Murchison	MUR	GER, GTN
Midwest	Turquoise Coast	TCD	MOR, MRA
Midwest	Gascoyne	GAS	SHB, SHK
Pilbara	Exmouth	EXM	
Pilbara	Pilbara	PIL	
South Coast	Albany	ALB	
South Coast	Esperance	ESP	
South West	Wellington	WTN	WEL
South West	Blackwood	BWD	
Swan	Perth Hills	PHS	PHL
Swan	Swan Coastal	SWC	
Warren	Donnelly	DON	
Warren	Frankland	FRK	
Wheatbelt	Wheatbelt	WHB	GRS, GSN, MER, CWB, SWB

*GLD is used for the bushfire number and KAL is used for the burn number.

Bushfire cause LUT

Cause	Fire Cause Description
0	no cause, event was a PB
1	Deliberate
2	Escape from DBCA/CALM prescribed burn
3	Escape from other burning off (not DBCA/CALM)
4	Accidental by timber industry
5	Accidental by other industry
6	Accidental by recreation/public
7	Lightning
8	Unknown
9	Cause not listed (Other specified in Bushfire Report System)
10	Railway
11	Powerline
999	Unknown (historic data)

Capture method LUT

Capture method	Capture method description (CAPT_DESC)
AN	Anecdotal (+/- 1 km)
AGPS	Aerial GPS Capture (older method)
BIP	Buffered Ignition Point
HIM	Historic maps digitized (+/- 500 m)
MM	Mud map (+/- 500 m)
RFM	Reference map or photo (50 k) (+/- 250 m)
FWGPS	Fixed Wing GPS capture (+/- 100m)
HCGPS	Helicopter GPS capture (+/- 50m)
GGPS	Ground GPS capture
GPSND	GPS - Non-Differential (+/- 5-10 m)
GPSD	GPS - Differential (+/- 2-5 m)
RS1000	Remote Sensing, spatial resolution 1000 meters (NOAA)
RS500	Remote Sensing, spatial resolution 500 meters (MODIS)
RS30	Remote Sensing, spatial resolution 30 meters (Landsat)
RS25	Remote Sensing, spatial resolution 25 meters (Landsat)
RS10	Remote Sensing, spatial resolution 10 metres (Sentinel)
RS20	Remote Sensing, spatial resolution 20 metres (Sentinel)
RS60	Remote Sensing, spatial resolution 60 metres (Sentinel)
999	Unknown

Burn purpose LUT

Burn Purpose	Burn purpose description
PRT	Strategic Protection (formerly Protection)
BIO	Biodiversity Management
VEG	Vegetation Management
SIL	Silviculture
RES	Research
CUL	Cultural
0	No cause, event was a bushfire
999	Unknown (historic data)

Ignition type LUT

Ignition type	Ignition type description
0	No ignition type, event was a bushfire
HB	Hand Burn
HC	Helicopter Burn
FW	Fixed Wing Burn
999	Unknown (historic data)