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Table 3 Environmental covariates and other associated fields.

From: [The Canadian Fire Spread Dataset](#)

attribute	description	mean ± sd	source
ID	Fire ID	NA	NBAC ²⁶
DOB	Day of year burning	203 ± 28	CFSDS ²⁵
year	Year	2012 ± 5.7	NBAC ²⁶
fireday	Day of fire (ignition day = 1)	21.9 ± 21.1	CFSDS ²⁵
firearea	Fire growth this day (ha)	571 ± 2383	CFSDS ²⁵
ecozone	Ecozone (see Table 4)	NA	ESWG (1996) ⁴⁵
fwi	Fire weather index	11.1 ± 9.7	CFSDS ²⁵ , ERA5-Land ³⁶
isi	Initial spread index	4.1 ± 3.4	CFSDS ²⁵ , ERA5-Land ³⁶

attribute	description	mean \pm sd	source
ffmc	Fine fuel moisture code	79.0 \pm 15.8	CFSDS ²⁵ , ERA5-Land ³⁶
dmc	Duff moisture code	36.7 \pm 26.5	CFSDS ²⁵ , ERA5-Land ³⁶
dc	Drought code	285 \pm 127	CFSDS ²⁵ , ERA5-Land ³⁶
bui	Buildup index	51.6 \pm 31.4	CFSDS ²⁵ , ERA5-Land ³⁶
prec	24-hr precipitation (mm)	1.5 \pm 3.2	ERA5-Land ³⁶
vpd	Daily max vapour pressure deficit (hPa)	15.8 \pm 6.4	ERA5-Land ³⁶
tmax	Maximum daily temperature (°C)	20.9 \pm 4.9	ERA5-Land ³⁶
ws	Noon windspeed at 10 m elevation (km/h)	9.4 \pm 4.7	ERA5-Land ³⁶
rh	Noon relative humidity (%)	45.8 \pm 11.9	ERA5-Land ³⁶
fwi_prev1	Fire weather index from previous day	11.0 \pm 9.6	CFSDS ²⁵ , ERA5-Land ³⁶
fwi_prev2	Fire weather index from 2 days prior	10.9 \pm 9.6	CFSDS ²⁵ , ERA5-Land ³⁶

Table 3 Environmental covariates and other associated fields.

attribute	description	mean ± sd	source
rh_prev1	Noon relative humidity from previous day (%)	47.3 ± 12.6	ERA5-Land ^{36}
rh_prev2	Noon relative humidity from 2 days prior (%)	48.4 ± 13.3	ERA5-Land ^{36}
d_fwi	Fire weather index anomaly	5.1 ± 8.8	CFSDS ^{25} , ERA5-Land ^{36}
d_isi	Initial spread index anomaly	1.4 ± 3.2	CFSDS ^{25} , ERA5-Land ^{36}
d_ffmc	Fine fuel moisture code anomaly	7.8 ± 15.7	CFSDS ^{25} , ERA5-Land ^{36}
d_dmc	Duff moisture code anomaly	16.4 ± 22.3	CFSDS ^{25} , ERA5-Land ^{36}
d_dc	Drought code anomaly	83.7 ± 70.5	CFSDS ^{25} , ERA5-Land ^{36}
d_bui	Buildup index anomaly	21.6 ± 25.5	CFSDS ^{25} , ERA5-Land ^{36}
d_prec	Precipitation anomaly (mm)	−1.0 ± 3.2	ERA5-Land ^{36}
d_vpd	Daily max vapour pressure deficit anomaly (Pa)	6.5 ± 4.7	ERA5-Land ^{36}
d_tmax	Maximum daily temperature anomaly (°C)	6.0 ± 4.5	ERA5-Land ^{36}

attribute	description	mean ± sd	source
d_ws	Noon windspeed anomaly (km/h)	2.2 ± 4.2	ERA5-Land ^{36}
d_rh	Noon relative humidity anomaly (%)	6.5 ± 21.8	ERA5-Land ^{36}
Biomass	Total live aboveground biomass (t/ha)	53 ± 46	SCANFI ^{39}
Closure	Crown closure (%)	41 ± 16	SCANFI ^{39}
prcD	Deciduous component (%)	11 ± 13	SCANFI ^{39}
prcC	Conifer component (%)	89 ± 13	SCANFI ^{39}
peatCl	Peatland class	NA	Thompson <i>et al.</i> ^{41}
peatland	Modeled probability of peatland presence (0–100)	29 ± 19	Thompson <i>et al.</i> ^{41}
hydrodens2k	Proportion surface water within 2 km window	0.09 ± 0.12	CanVec Hydro ^{40}
hydrodens5k	Proportion surface water within 5 km window	0.11 ± 0.12	CanVec Hydro ^{40}
hydrodens10k	Proportion surface water within 10 km window	0.12 ± 0.12	CanVec Hydro ^{40}

attribute	description	mean \pm sd	source
hydrodens25k	Proportion surface water within 25 km window	0.13 \pm 0.12	CanVec Hydro ^{40}
roaddens2k	Road density within 2 km (km/km ²)	0.03 \pm 0.12	CanVec Transport ^{43}
roaddens5k	Road density within 5 km (km/km ²)	0.03 \pm 0.10	CanVec Transport ^{43}
roaddens10k	Road density within 10 km (km/km ²)	0.03 \pm 0.10	CanVec Transport ^{43}
roaddens25k	Road density within 25 km (km/km ²)	0.03 \pm 0.09	CanVec Transport ^{43}
roaddist	Distance to major road or railway line (m)	39000 \pm 39180	CanVec Transport ^{43}
dem	Elevation (m)	557 \pm 384	ASTER Global Digital Elevation ^{40}
slope	Slope (degrees)	5.0 \pm 6.4	ASTER Global Digital Elevation ^{40}
twi	Topographic wetness index	5.6 \pm 0.5	ASTER Global Digital Elevation ^{40}
aspect	Aspect (degrees, 0–359)	181 \pm 103	ASTER Global Digital Elevation ^{40}
cumuarea	Cumulative fire area (ha, NBAC ^{26})	14450 \pm 39510	CFSDS ^{25}

attribute	description	mean ± sd	source
pctgrowth	Percent growth this day (%) (NBAC ²⁶)	113 ± 1950	CFSDS ²⁵
prevgrow	Fire growth on prior fireday (ha)	617 ± 2463	CFSDS ²⁵
sprdistm	Daily fire spread (m)	453 ± 1063	CFSDS ²⁵
lat	Latitude (m) (EPSG 4269)	−112 ± 16	CFSDS ²⁵
lon	Longitude (m) (EPSG 4269)	58 ± 5	CFSDS ²⁵

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