



Supplement of

**Measurement report: Emission factors of NH_3 and NH_x
for wildfires and agricultural fires in the United States**

Laura Tomsche et al.

Correspondence to: Armin Wisthaler (armin.wisthaler@kjemi.uio.no)

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25 **Table S1: Main fuels of the six wildfires in the Western US that were sampled during FIREX-AQ 2019 and for which EF_{NH_3} values were obtained.**

| Fire | Major fuel types (%) | Fuel (FCCS 2014) 30m |
|----------------------------|--|---|
| Shady | Modified and managed mesic timber litter 3 (34.4%), modified and managed xeric grass shrub 1 (21.5%), modified and managed xeric timber litter 3 (18.0%), modified and managed xeric understory 2 (10.8%), Urban-Barren (6.5%) | Modified or Managed Xeric Understory 2 |
| Williams Flats 3.8.2019 | Douglas-fir-Pacific ponderosa pine/oceanspray forest (29.3%), Idaho fescue-bluebunch wheatgrass grassland (19.6%), Sagebrush shrubland – post prescribed burn (12.8%), Wheatgrass-cheatgrass grassland – exotic species (10.4%), Ponderosa pine savanna (8.0%) | Sagebrush shrubland - post prescribed burn |
| Williams Flats 6.8.2019 | Douglas-fir-Pacific ponderosa pine/oceanspray forest (56.5%), Idaho fescue-bluebunch wheatgrass grassland (9.2%), Wheatgrass-cheatgrass grassland – exotic species (6.5%), Idaho fescue-bluebunch wheatgrass grassland – post fire (5.5%), Douglas-fir/ceanothus forest (5.3%) | Sagebrush shrubland - post prescribed burn |
| Williams Flats 7.8.2019 | Douglas-fir-Pacific ponderosa pine/oceanspray forest (55.2%), Idaho fescue-bluebunch wheatgrass grassland (12.4%), Wheatgrass-cheatgrass grassland – exotic species (6.8%), Idaho fescue-bluebunch wheatgrass grassland – post fire (5.1%), Ponderosa pine savanna (5.0%) | Sagebrush shrubland - post prescribed burn |
| Castle 12.8.2019 | Ponderosa pine-two-needle pinyon-Utah juniper forest (24.4%), Douglas-fir-Pacific ponderosa pine/oceanspray forest (24.4%), modified and managed xeric shrub (6.8%), Madrean pine-oak forest (6.0%), modified and managed xeric grass shrub 1 (6.0%) | Modified or Managed Xeric Timber Litter 3 |
| Castle 13.8.2019 | Ponderosa pine-two-needle pinyon-Utah juniper forest (24.4%), Douglas-fir-white fir-ponderosa pine forest (13.7%), Madrean pine-oak forest (12.3%), Quaking aspen forest (10.9%), Interior Douglas-fir-ponderosa pine/gambel oak forest (7.8%) | Modified or Managed Xeric Timber Litter 3 |
| Ridge Top | Bluebunch wheatgrass-bluegrass grassland (66.2%), Ponderosa pine savanna (7.4%), modified and managed xeric grass shrub 1 (7.3%), sagebrush shrubland - post prescribed burned (7.2%), Greasewood shrubland (5.9%) | Modified or Managed Xeric Grass Shrub |
| Mica/Lick Creek | Grand fir-Douglas-fir forest (69.9%), Douglas-fir-Pacific ponderosa pine/oceanspray forest (11.3%), Showy sedge-black alpine sedge grassland (7.0%), Black cottonwood-Douglas-fir-quaking aspen forest (4.9%), modified and managed xeric shrub 2 (2.6%) | Mica Creek: Grand fir-Douglas-fir forest Lick Creek: Modified or Managed Mesic |
| Horsefly | Subalpine fir-lodgepole pine-whitebark pine-Engelmann spruce forest (42.8%), Douglas-fir-Pacific ponderosa pine/oceanspray forest (27.6%), Mature lodgepole pine forest (14.1%), Interior ponderosa pine-Douglas-fir forest (3.1%), Whitebark pine/subalpine fir forest (3.0%) | Subalpine fir-lodgepole pine |