**LIFE database metadata**

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| **Tab in the spreadsheet** | | | | | | | | | | |  |
| **Source** | | | **Case** | | | **Fire Practices** | | | **Governance** | | |
| **Column Heading** | **Description** | **Values** | **Column Heading** | **Description** | **Values** | **Column Heading** | **Description** | **Values** | **Column Heading** | **Description** | **Values** |
| **SID** | Source ID | Number from 1. Where several sources with the same author(s) speak to the same location(s) these have the same number and a roman numeral (e.g. 1.i, 1.ii, 1.iii etc.) | **CID** | Case ID | Source ID number plus a letter. E.g. 1.a, 1.b, 1.c. New ID for each case study location for which data is presented separately in the corresponding source(s) | **FID** | Fire practice ID | Case ID plus a number. E.g. 1.a.1, 1.a.2. New ID for each ‘type’ of fire use, or fire control/extinction/prevention. Control/ extinction/prevention measures associated with a specific fire use are part of the same record as the fire use. | GID | Governance ID | Source ID number (or numbers where multiple sources discussed the same governance examples) plus a roman numeral for each governance example |
| **RF** | Reference | Full Harvard reference of source | **FD** | Fieldwork dates | Year(s) in which any fieldwork took place | **TYPE** | Type of practice | US: fire use  USCO: fire use with information about accompanying control  CO: fire control not associated with particular type of fire use  OP: Opportunistic use of fires or burned area ignited by lightning or other people | A AUT | Actor from which the authority or imperative for governance originates | S: State  N: Non-state organization (including NGOs and businesses)  C: Fire user community  U: Unknown |
| **NP** | Number of papers in set | Where more than one source speaks to the same location(s) the number of sources in the group of papers is indicated. | **CO** | Country | Country of case study | **PU DES** | Purpose(s) | Brief description. A practice might have multiple purposes. | A IMP | Actor enforcing or implementing governance | S: State  N: Non-state organization (including NGOs and businesses)  C: Fire user community  U: Unknown |
| **YR** | Year of publication | Year of publication | **LC** | Location | Description of case study location in as much detail as possible. | **FUPU1** | Level one purpose for fire use practices | One or more of:  A: Agriculture  P: Pastoralism  HF: Hunting and fishing  G: Gathering  C: Charcoal or fuelwood production  M: Movement  HW: Protection of human health, wellbeing and resources  S: Social signals  O: Other  U: Unknown  X: Not a fire use practice | TY | Governance type | R: Regulation: A rule set down by an authority where the contravention of the rule carries a proscribed punishment. Or an explicit exemption from such a rule based on specific criteria, e.g., geographical area/ cultural group.  E: Economic incentive: The receiving of material benefit or granting of relief from an otherwise expected payment, conditioned upon a particular behavior.  V: Voluntary: Any mechanism that seeks to change behavior, but does not directly change the actor’s material incentives, i.e., there is no explicit reward or punishment. This includes, for example, informational campaigns, training, or community agreements.  U: Unknown |
| **RM** | Research method(s) | One or more of:  E: Ethnography/ participant observation  I: Semi-structured or unstructured interview  F: Focus groups  Q: Questionnaire or structured interview  R: Remote Sensing/ aerial photography/ GIS  P: Participatory methodologies/ workshops  A: Archival or secondary sources  S: Scientific measurement or observation  O: Other  U: Unknown | **LC TYPE** | Type of location | V1: 1 settlement  V23: 2-3 settlements  V45: 4-5 settlements  R: Region including more than 5 settlements  U: Unknown | **FUPU2** | Level two purpose for fire use practices | One or more of:  A1: Clear vegetation for swidden or semi-permanent agriculture  A2: Clear vegetation for permanent agriculture  A3: Clear weeds and/or crop residues during growing season, before harvest  A4: Clear crop residues and/or weeds after harvest to enable planting of next crop  A5: Reduce crop pests  AO: Agriculture- other  AU: Agriculture- unknown  P1: Clear vegetation to establish new pasture areas  P2: Enhance forage for grazing livestock (on long timescales by excluding woody growth, on shorter timescales by bringing up fresh shoots)  P3: Herd livestock  P4: Reduce livestock pests and animals that predate on livestock (either by directly killing them or reducing their habitat/hiding places)  PO: Pastoralism- other  PU: Pastoralism - unknown  HF1: Create or improve habitat for hunted species  HF2: Renew forage for hunted species to draw animals into a particular area  HF3: Improve visibility or access specifically for hunting or fishing  HF4: Drive animals when hunting  HF5: Kill, injure or tire animals when hunting  HFO: Hunting and fishing- other  HFU: Hunting and fishing - unknown  G1: Enhance productivity of foraged resources, e.g. by reducing competition from other plants, inducing flowering, germination or fruiting, reducing pests and diseases.  G2: Ease the collection of foraged resource, e.g. by improving visibility or access.  G3: Drive wild bees away from hives for honey collection  GO: Gathering- other  GU: Gathering- unknown  C1: Produce charcoal  C2: Produce fuelwood for gathering, or enable gathering of fuelwood  CO: Charcoal or fuelwood production- other  CU: Charcoal or fuelwood production- unknown  M1: Maintain and open trails and waterways for general access  MO: Movement- other  MU: Movement- unknown  HW1: Reduce animals that are dangerous to or unwanted by humans (by directly burning them, or reducing their habitat/hiding places)  HW2: Reduce fuel loads to reduce risk of wildfires at a landscape-scale  HW3: Create firebreak using fire to protect e.g. specific resources, sacred sites, homes, farms from wildfires  HW4: Suppress a wildfire (fighting fire with fire)  HW5: To produce a more aesthetically pleasing landscape, or for enjoyment.  HWO: Health and wellbeing- other  HWU: Health and wellbeing- unknown  S1: Communicate about current activity  S2: Show disapproval or protest  S3: For ritual or ceremonies  S4: Assert/ maintain cultural identity associated with fire practice  SO: Social signal- other  SU: Social signal- unknown  OO: Other  UU: Unknown  X: Not a fire use practice | PE | Potential or intended effect on fire use. | R: Reduction or elimination of fire use practice(s)  C: Making fire use practice(s) conditional  M: Maintenance or expansion of fire use practice(s) not already existing in the area  U: Unknown |
| **LA** | Language | Language in which source is written | **LA** | Latitude | Latitude in decimal degrees | **MAR** | Relationship of practice to markets | One or more of:  S Linked to subsistence only, or subsistence-oriented with excess product marketed.  M: Linked to a product gathered or produced predominantly for the market.  P: Fire practice itself is marketed as a service (e.g. through REDD+ schemes).  N: Not directly linked to subsistence or market production | INT | Is governance intentionally related to fire? | D: Direct – intention of governance is related to fire use  I: Indirect: intention of governance is not related to fire use  U: Unknown |
| **NO** | Notes | Any other notes | **LO** | Longitude | Longitude in decimal degrees | **FR** | Fire return interval (time until a patch burns again, or control measures are taken in the same area) | One or more of:  0: One-off  1: Multiple times each year  2: 1-2 years  3: 2-4 years  4: 4-8 years  5: 8-15 years  6: 15-25 years  7: 25+ years  U: Unknown | PA | Is governance specific to protected area(s)? | Y: Yes  N: No |
|  | | | **GR** | Group of people to whom the case study applies | Brief description of the group of people to whom the case study applies and their livelihoods | **FR AVE** | Average fire return interval (mean, median or mode as given in source) | Number of years | DESCRIPTION | Description of governance example | Free text |
| **ER** | Ecoregion | Record [WWF ecoregion](https://en.wikipedia.org/wiki/List_of_terrestrial_ecoregions_(WWF)) ([see list here](https://en.wikipedia.org/wiki/List_of_terrestrial_ecoregions_(WWF))) | **FR MIN** | Minimum fire return interval | Number of years |  | | |
| **BI** | Biome | Record [WWF biome](https://en.wikipedia.org/wiki/List_of_terrestrial_ecoregions_(WWF)) ([see list here](https://en.wikipedia.org/wiki/List_of_terrestrial_ecoregions_(WWF))) | **FR MAX** | Maximum fire return interval | Number of years |
| **SG** | State fire governance | Brief description of laws or policies controlling fire use, whether they are national or local policies, when they were introduced, how they are enforced or incentivised. | **FR UNSP** | Fire return interval- approximate figure given in source without specifying that it is a calculated average | Number of years |
| **NO** | Notes | Any other notes | **FR RG** | Fire return interval range (maximum fire return interval minus minimum fire return interval) | Number of years |
|  | | | **FR AN** | Fire return interval - best figure for analysis - either average, mid-point of range, or unspecified number given in source, depending on which information is available | Number of years |
| **MO** | Month(s) in which practice takes place | Month(s) |
| **SE DES** | Season(s) in which practice takes place | Description of season(s) in which practice takes place |
| **CB** | Cues for practice | Description of social and/or environmental cues used to determine when the practice takes place (e.g. second week in May, in midday sun) |
| **PA** | Participation (individual/group) | One or more of:  I: Individual  SG: Small group 2-4 people  LG: Large group 5+ people  U: Unknown |
| **PG** | Participation (gender) | One of:  M: Male only  F: Female only  B: Mixed genders  U: Unknown |
| **PO** | Participation (other factors) | Description of any other factors limiting participation (age, status etc.) |
| **AP** | Fire application method | (If applicable)  Description of how fire is applied to the landscape (e.g. as backing fire, by pile burning) |
| **CM** | Fire control, extinction, or suppression measures | Description of any control, extinction or suppression measures taken, either in association with fire use, or to mitigate wildfires. |
| **COTYPE** | Type of fire control | One or more of:  M: Modify fire use in different environmental conditions, for better control.  D: Do not use fire in environmental conditions in which it would be hard to control the fire.  R: Reduce fuel loads to limit spread and intensity of fires at the landscape scale.  B: Create firebreak around a specific entity to protect it from wildfires or prevent escape of fire being used.  TC: Use water or tools to control spread of a fire.  TE: Use water or tools to extinguish a fire.  FC: Use fire to control spread of a fire.  FE: Use fire to extinguish a fire.  G. Involve a team of people to allow for better fire control  S: Stay on site until the fire is extinguished  U: Unknown |
| **AB** | Area burned per ignition | One of:  1: 1-10 m2  2: 10-100 m2  3: 100-1000 m2  4: 1000 m2 -1 ha  5: 1-2 ha  6: 2-10 ha  7: 10-100 ha  8: >100 ha  U: Unknown  X: Not a fire use practice |
| **AB AVE** | Average burned area per ignition (mean, median or mode as given in source) | Number of hectares  X – not a fire use practice |
| **AB MIN** | Minimum burned area per ignition | Number of hectares  X – not a fire use practice |
| **AB MAX** | Maximum burned area per ignition | Number of hectares  X – not a fire use practice |
| **AB UNSP** | Burned area per ignition - approximate figure given in source without specifying that it is a calculated average | Number of hectares  X – not a fire use practice |
| **AB RG** | Burned area per ignition range (maximum fire return interval minus minimum fire return interval) | Number of hectares  X – not a fire use practice |
| **AB AN** | Burned area per ignition - best figure for analysis - either average, mid-point of range, or unspecified number given in source, depending on which information is available | Number of hectares  X – not a fire use practice |
| **FK** | Form of knowledge | Description of how fire knowledge is held and transmitted/learned |
| **SS** | Social relevance | Description of any wider social processes into which this fire practice fits, or cultural relevance the practice has (e.g. if participation in hunting fire is part of initiation into a kinship group) |
| **LG** | Local governance | Description of any local customs or rules surrounding this fire practice. |
| **MB** | Mobilisation | Description of any ways in which local fire practices or knowledge have been mobilised in support of state/ NGO agendas (e.g. in the management of a national park). |
| **CH** | Changes to practice/knowledge | Description of any noted changes to fire practices, noted drivers of change, and the time-period over which they have taken place |
| **STP** | Status based on proportion of population participating in the practice | I: Practice increasing  D: Practice declining  L: Practice lost  R: Practice is being (re)introduced  U: Still in practice, but unknown whether increasing or decreasing |
| **STA** | Status based on proportion of landscape burned in a given year | I: Practice increasing  D: Practice declining  L: Practice lost  R: Practice is being (re)introduced  U: Still in practice, but unknown whether increasing or decreasing |
| **STF** | Status based on fire return interval in a given patch of the landscape | I: Practice is becoming more frequent  D: Practice is becoming less frequent  L: Practice has been lost  R: Practice is being (re)introduced  U: Still in practice, but unknown whether increasing or decreasing in frequency |
| **NO** | Notes | Any other notes |