LANDFIRE Reference Data

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U.S. Department of the Interior
U.S. Geological Survey

LANDFIRE Reference Data

- LANDFIRE has relied on a vast collection of geo-referenced data to help develop and update data products.

- LANDFIRE collects reference data through:

  1. Multi agency data calls.

  2. LANDFIRE personnel searching web-based data clearing houses and agency/corporate database systems.

LANDFIRE 2001 National Data Call

Focused on collecting vegetation and fuel plot data

Data processed into the LANDFIRE Reference Database (LFRDB)

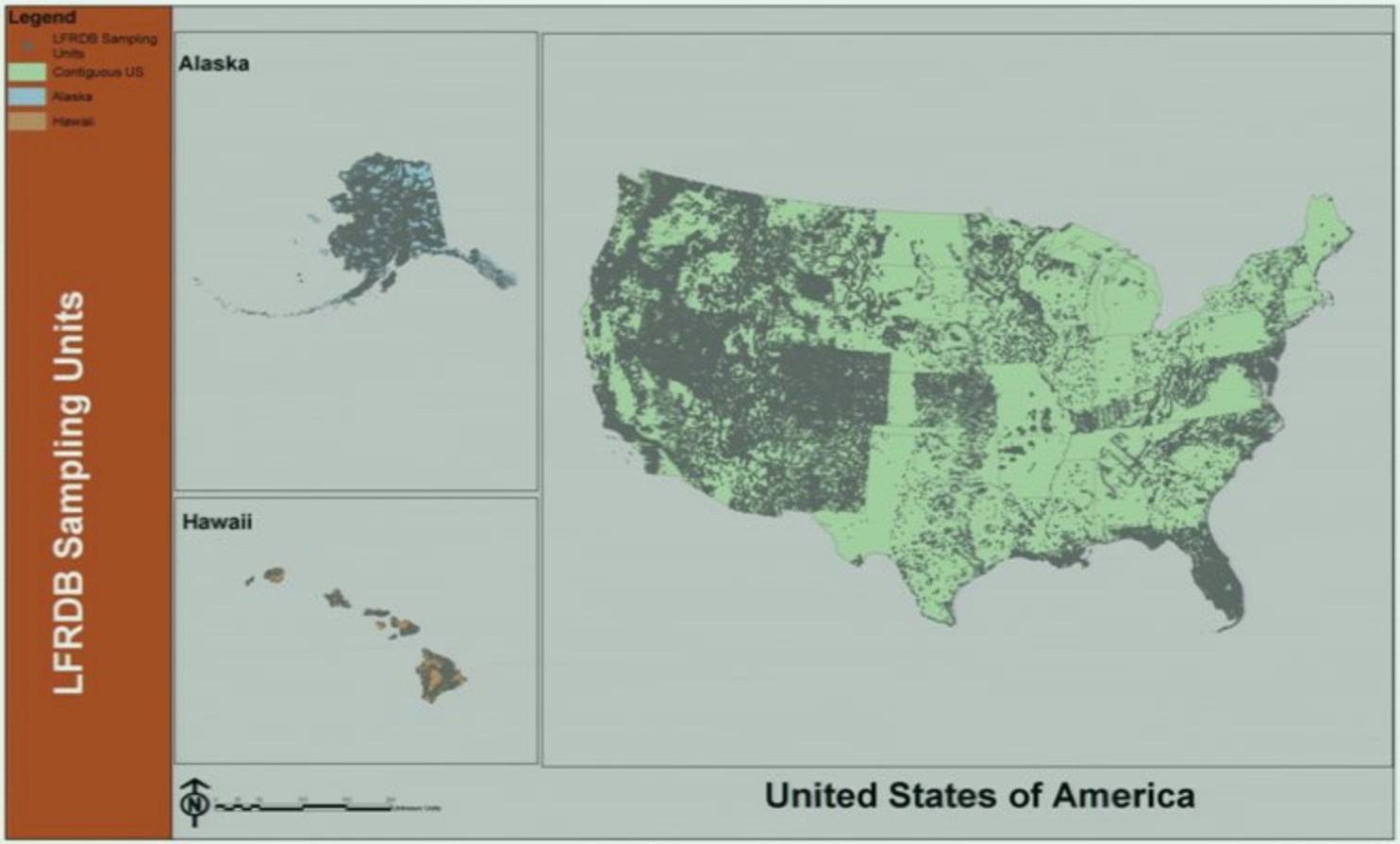
LANDFIRE Reference Database (LFRDB)

- Compilation of geo-referenced field data describing vegetation and fuel attributes.
- Data were collected from many different sources and sampling methods and converted into a common database structure.
- Several key attributes were derived from the acquired data and incorporated in the LFRDB, including existing and potential vegetation type based on Nature Serve's Ecological Systems.

LFRDB: Overview

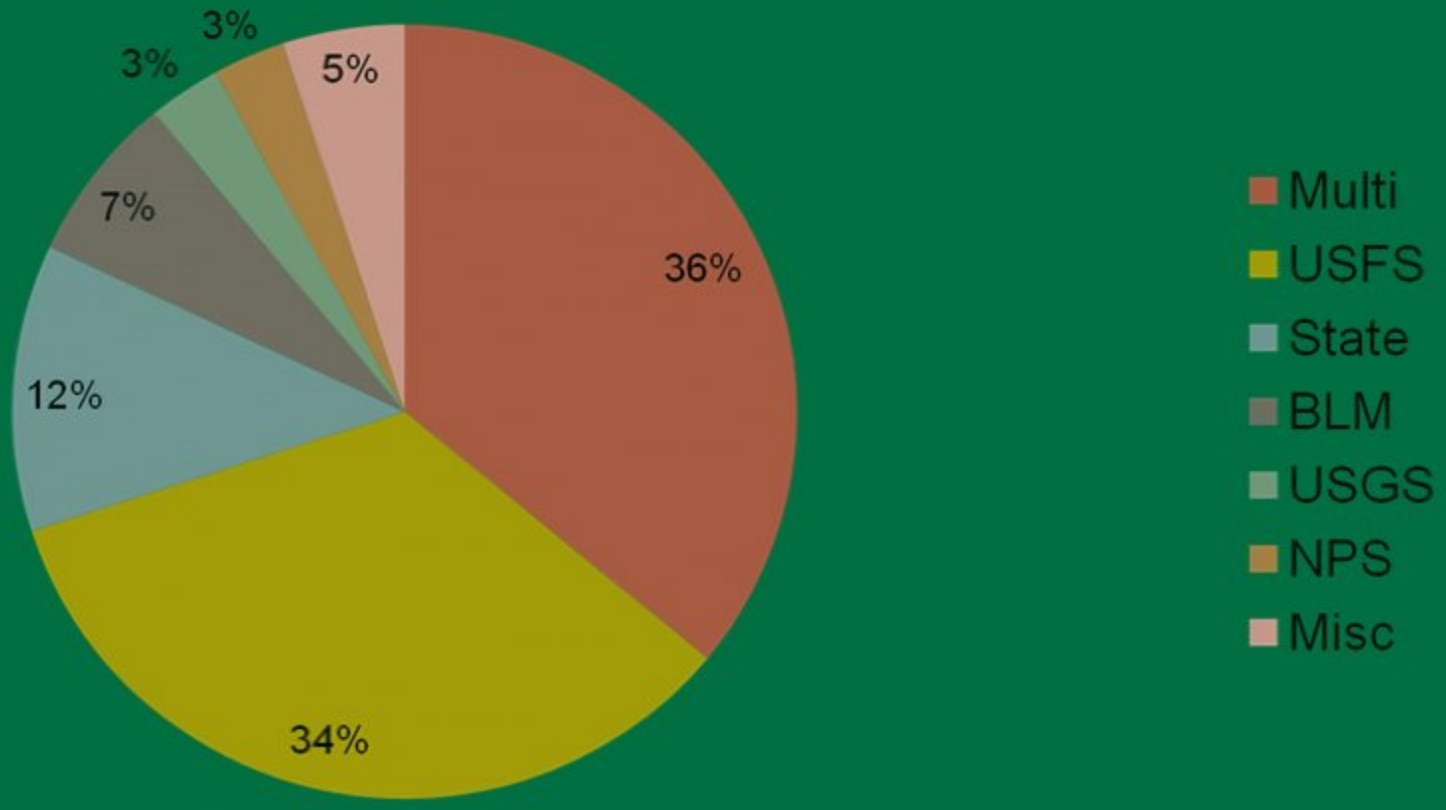
- 817,393 geo-referenced plots in the LFRDB
- 629 different sources of data contributed by federal, state, local, and private entities
- 45% of the data acquired through the data call
  55% acquired by LANDFIRE personnel

LFRDB: Sampling Locations



This map does not show the locations of data with confidential coordinates such as Forest Inventory and Analysis (FIA) data.

LFRDB: Data Contributor Affiliation

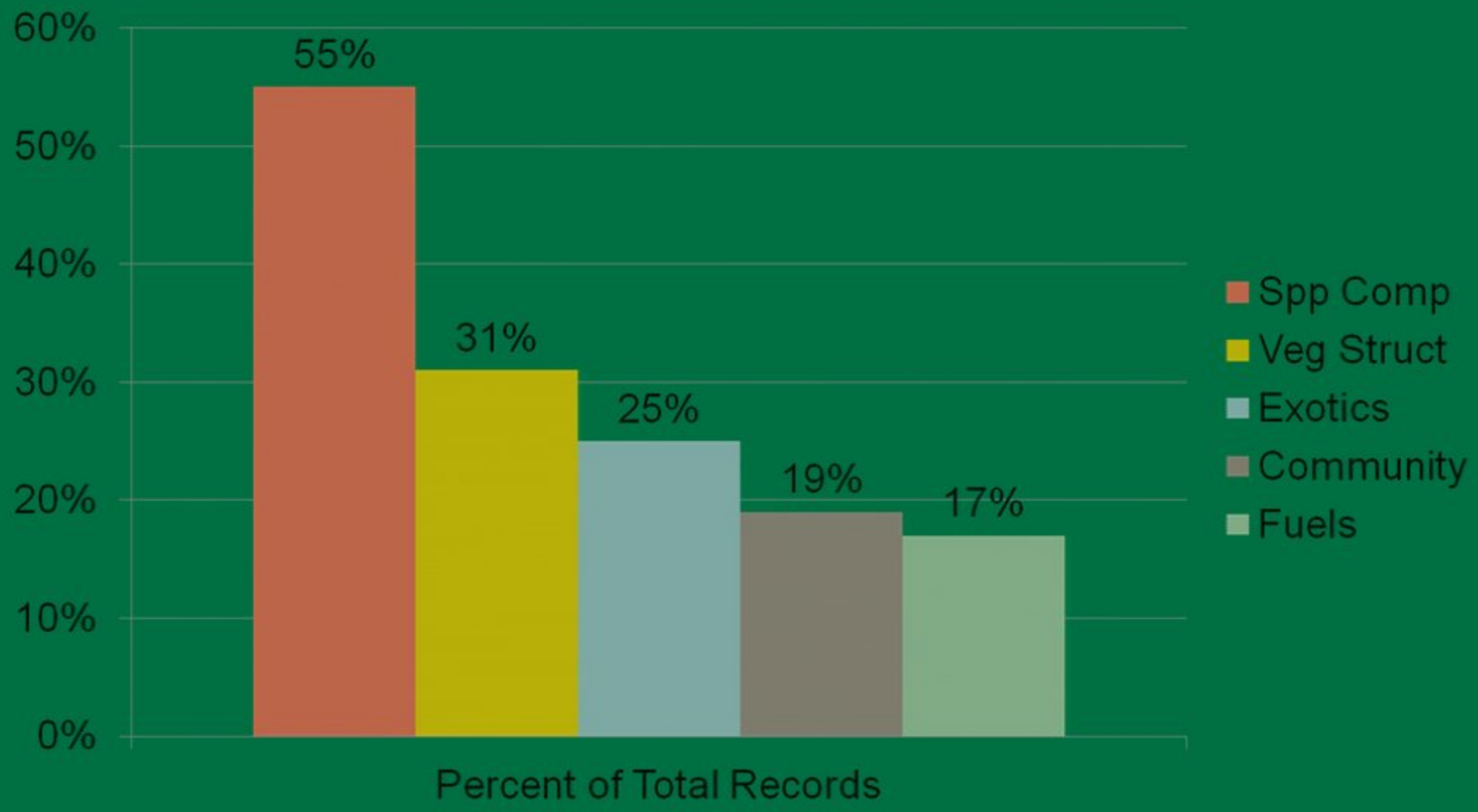


Percent of total records

LFRDB: Data Types

- Types of data in the LFRDB
  - Species Composition Data
  - Community Occurrence Data
  - Vegetation Structure Data
  - Exotic Plant Data
  - Fuels Data

LFRDB: Data Types



LFRDB: Product Development

The LFRDB provides ground-truth data for mapping and modeling vegetation patterns and conditions and for calibrating models developed by the LANDFIRE team.

LFRDB: Public Version

- A subset of the field-sampled data used in the production of LANDFIRE National deliverables are available for public access.
- Public versions of the LFRDB can be downloaded by geographic region at www.landfire.gov.
- 276,111 geo-referenced plots in the public LFRDB that were collected from 260 different data sources.

LANDFIRE Updates

- Once LANDFIRE National was completed the LANDFIRE team established an Operations and Maintenance strategy for updating data products.
- LANDFIRE 2001/2008 Refresh (LF 1.0.5/LF 1.1.0) was the first phase of updates that LANDFIRE developed.
- During Refresh LANDFIRE updated vegetation and fuel layers to reflect landscape changes resulting from disturbances and vegetation/fuel treatments.

LANDFIRE Refresh Data Call

LANDFIRE disseminated a second data call to gather information that would help update vegetation and fuel data products.

- **Primary focus: collect perimeter data of disturbances and vegetation/fuel treatments and perimeter data of exotic plant locations.**
- **Secondary focus: continue to collect vegetation and fuel plot data and maintain and update the LFRDB on an as need basis.**

LANDFIRE Refresh Data Call: Events

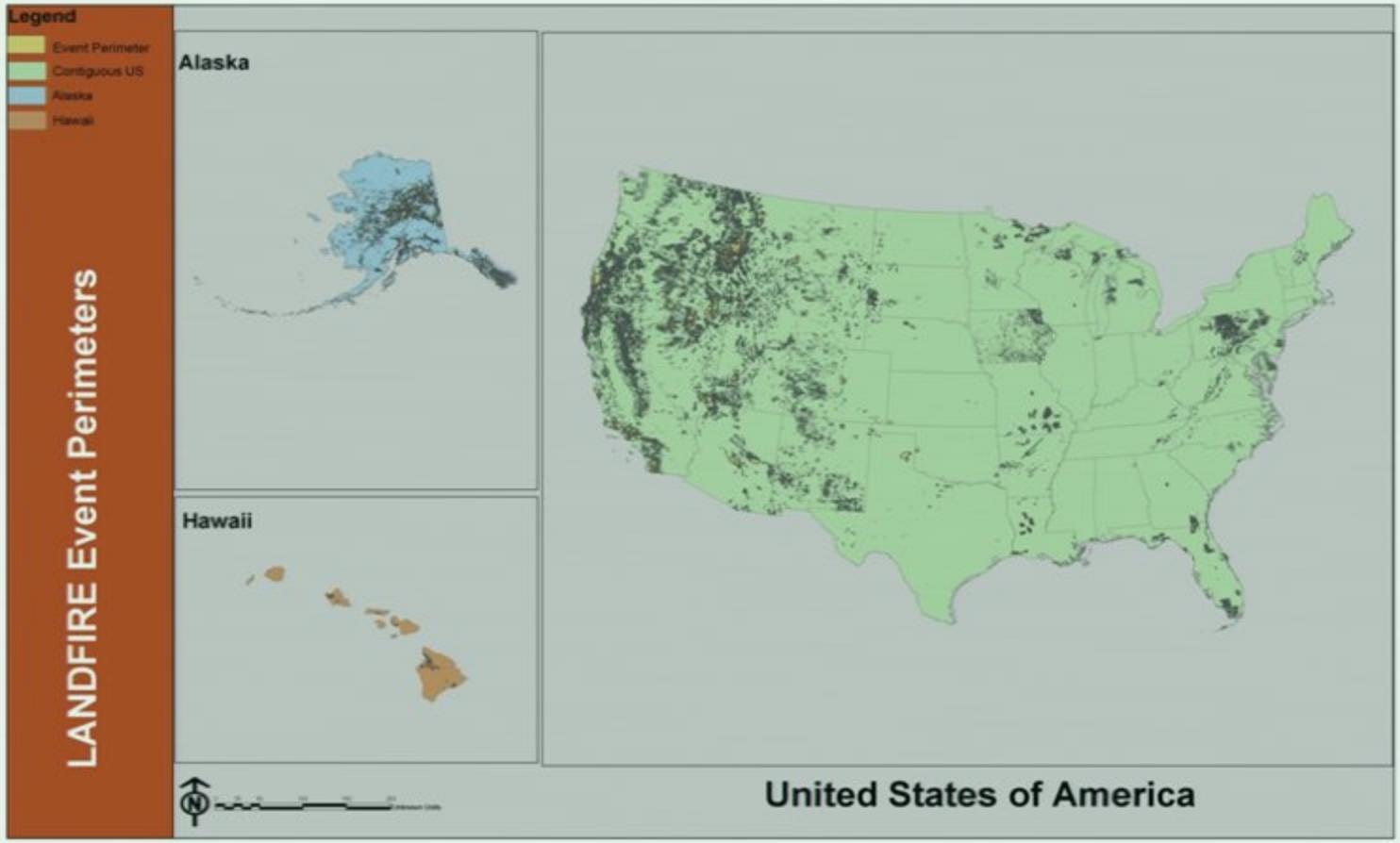
Perimeter data of disturbances and vegetation/fuel treatments (1999-2008)

Data processed into the LANDFIRE Events geodatabase

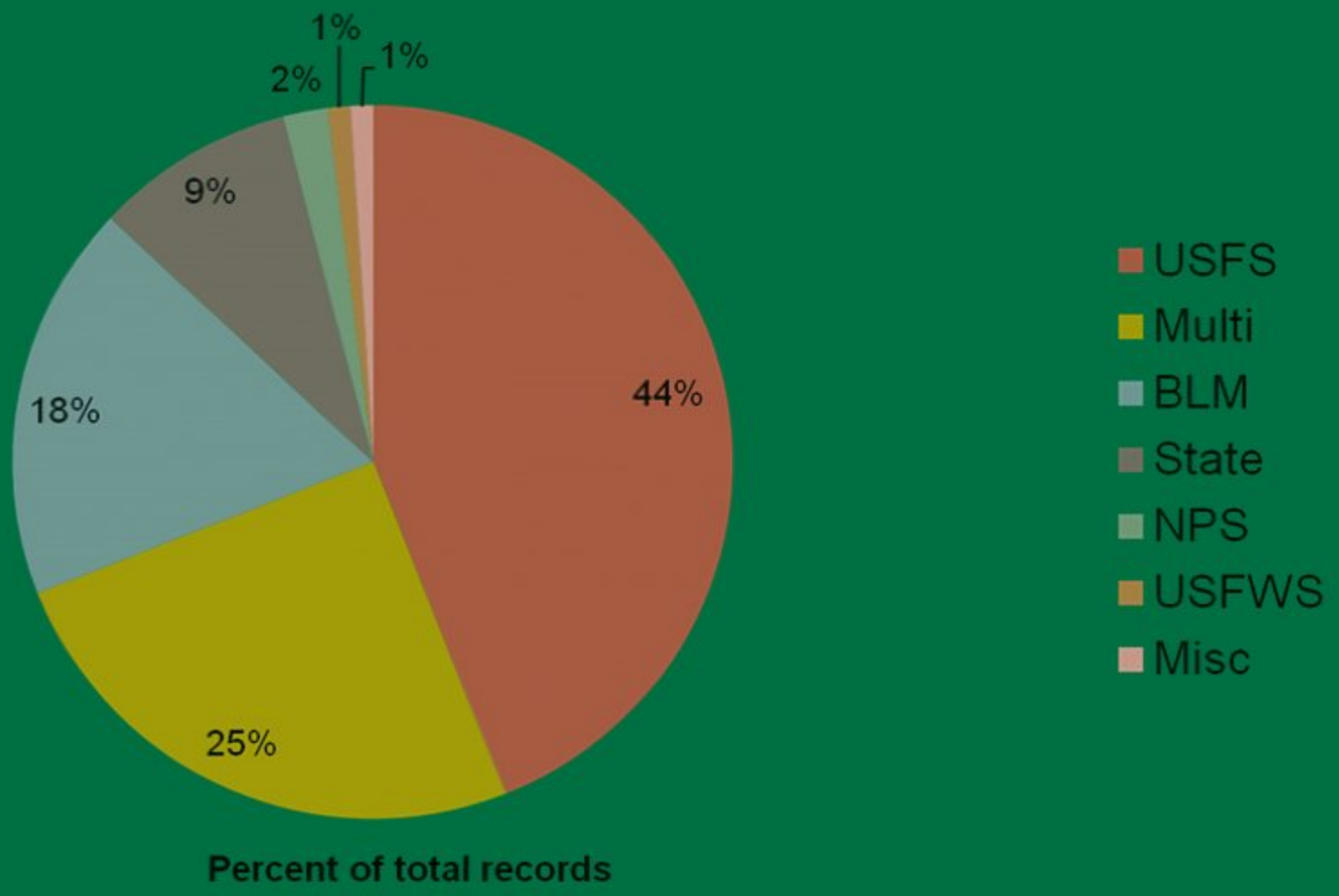
Events: Overview

- 599,698 disturbance/treatment perimeters compiled for Refresh
- 325 different sources of data contributed by federal, state, local, and private entities
- 43% of the data acquired through the data call
  57% acquired by LANDFIRE personnel

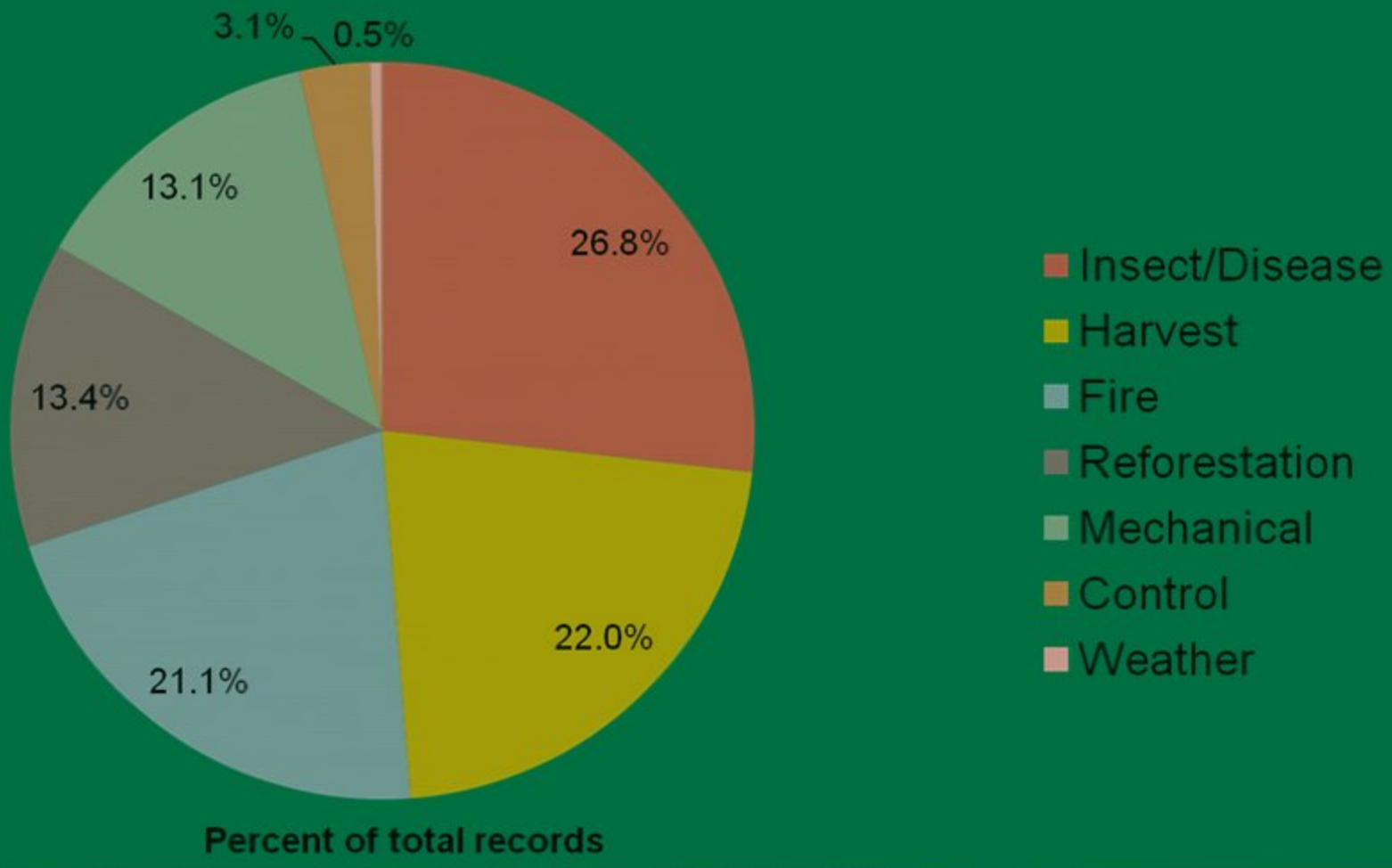
Events: Perimeter Locations



Events: Data Contributor Affiliation

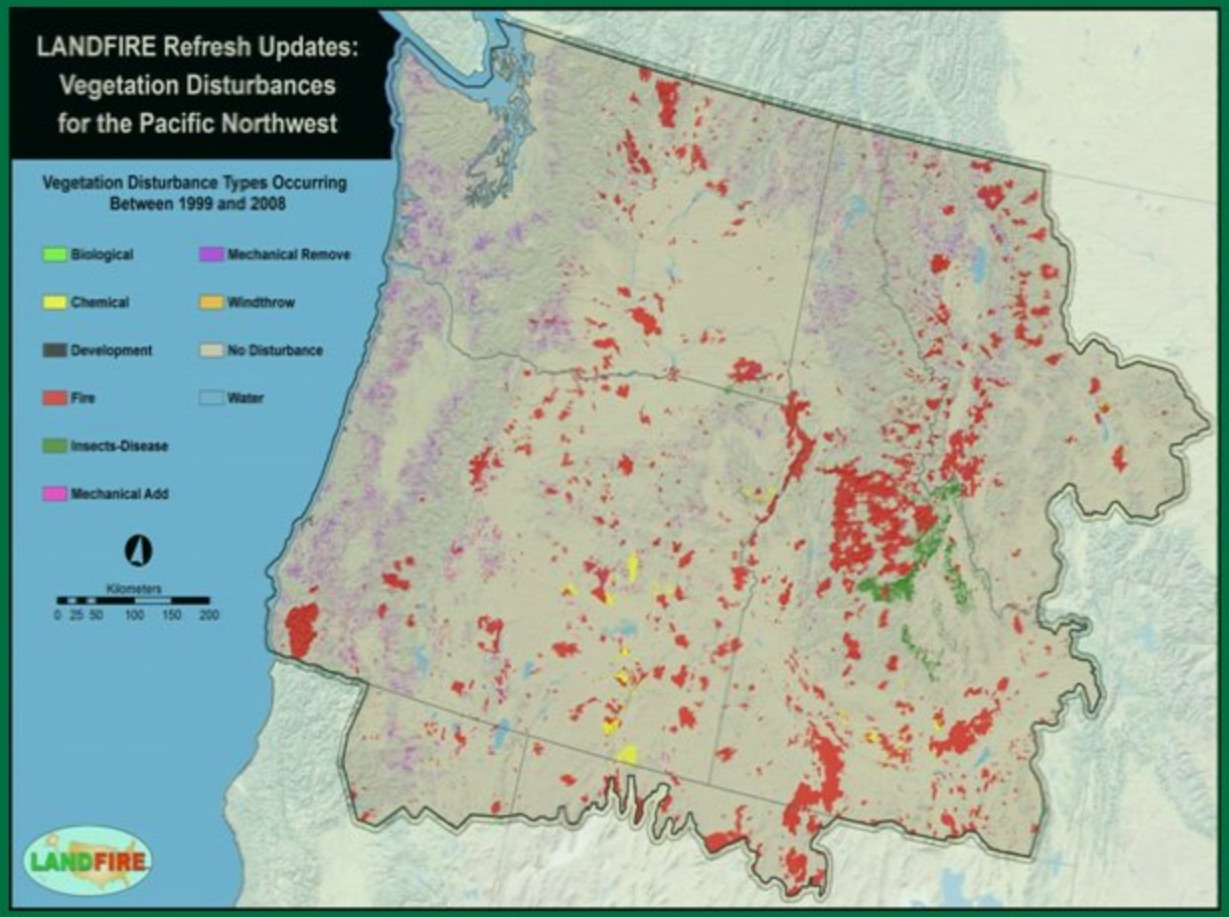


Events: Disturbance/Treatment Types



Events: Disturbance Development

Events data are a primary input for developing LANDFIRE Disturbance products which are used to update vegetation and fuel products



LANDFIRE Refresh Data Call: Exotics

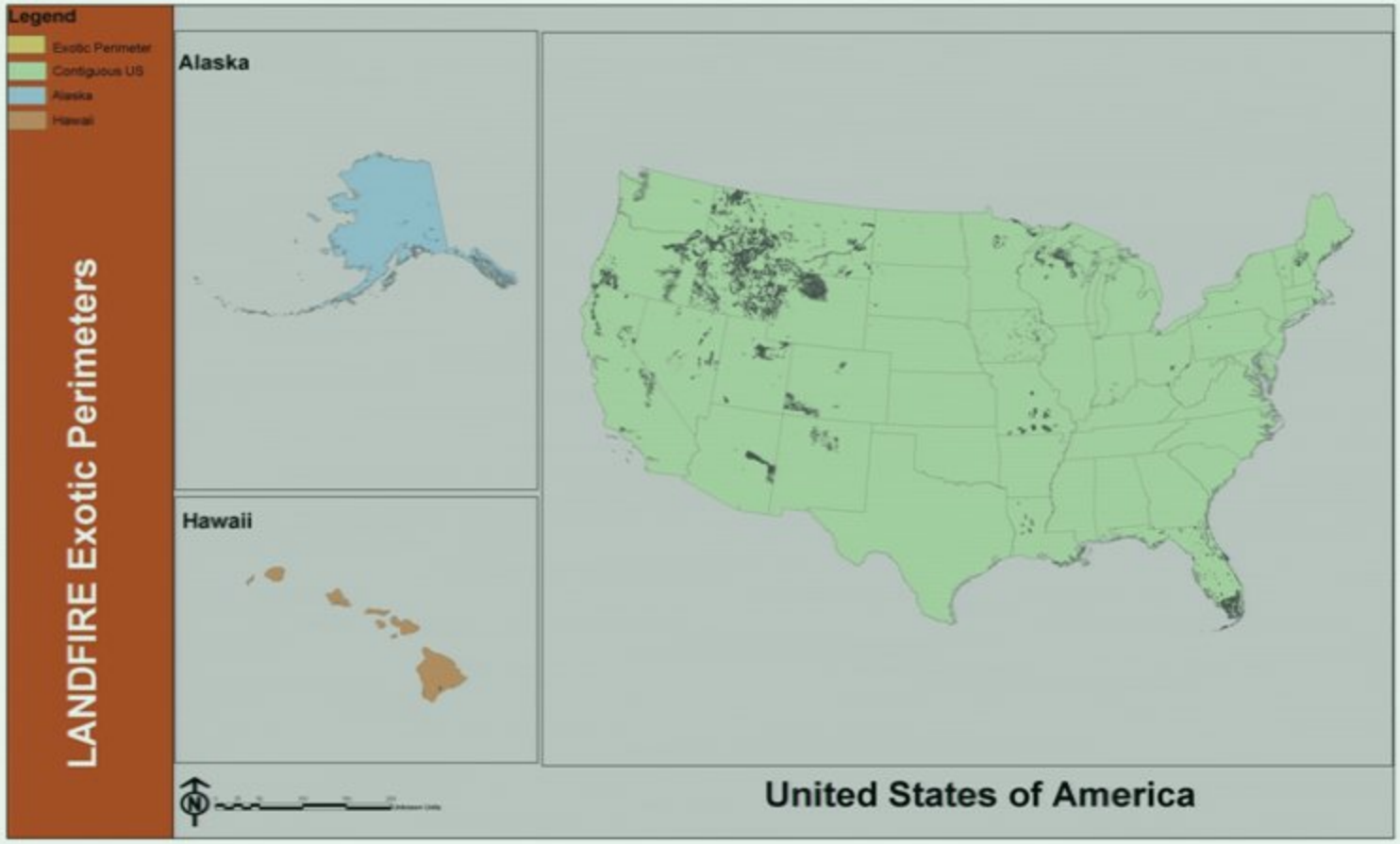
Perimeter data of exotic plant species (1999-2008)

Data processed into the LANDFIRE Exotics geodatabase

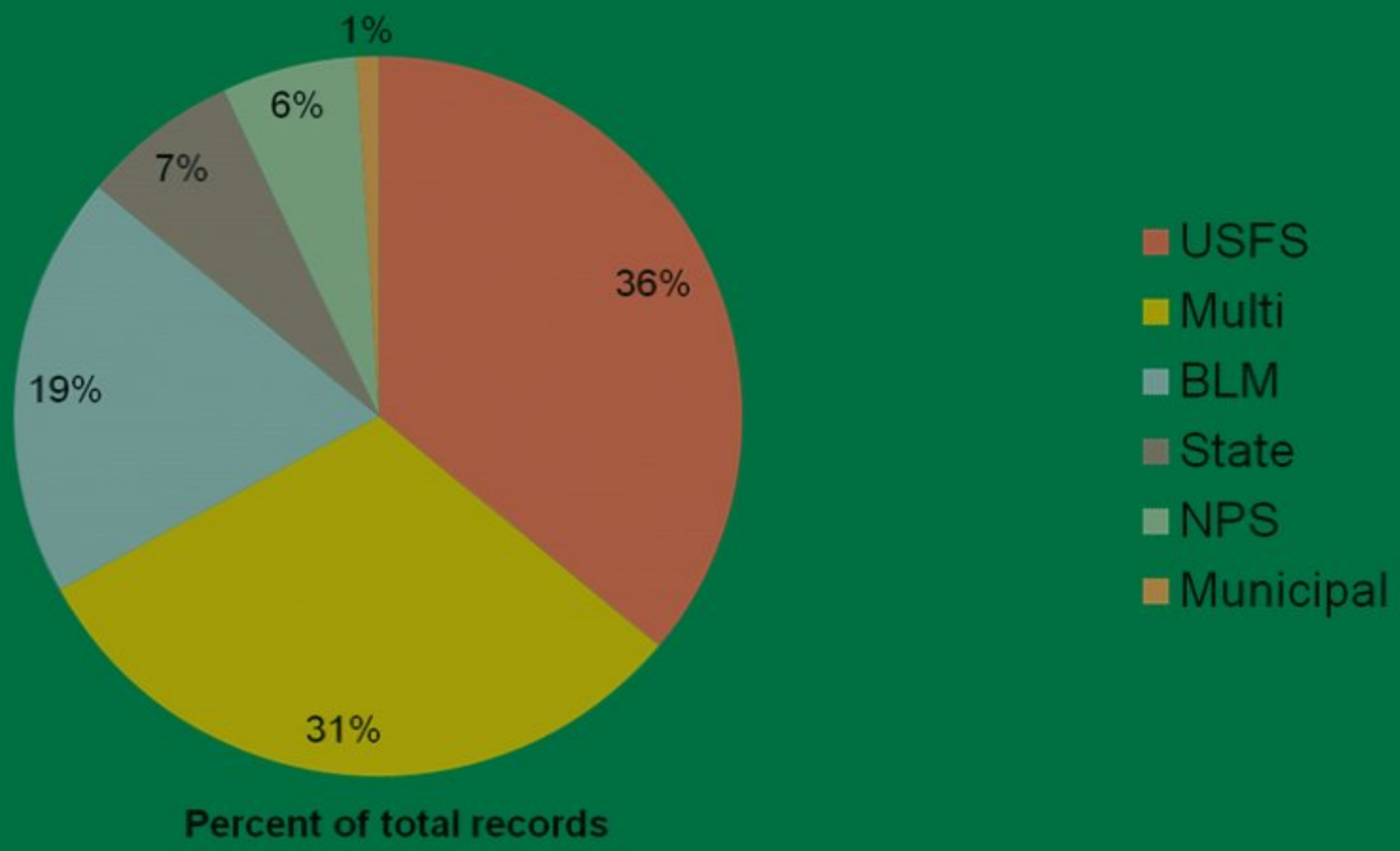
Exotics: Overview

- 329,569 exotics plant perimeters compiled for Refresh
- 83 different sources of data contributed by federal, state, and local entities
- 36% of the data acquired through the data call 64% acquired by LANDFIRE personnel

Exotic: Perimeter Locations



Exotics: Data Contributor Affiliation



Events and Exotics: Public Version

- A subset of the full suite of Events and Exotics data that were used in the production of LANDFIRE 2008 Refresh (LF 1.1.0) Program deliverables has been made available for public access.
- The Public version of the Events geodatabase includes Events and Exotics data layers.
- Public Events data can be downloaded by geographic region at www.landfire.gov.
- 538,912 Event records and 197,895 Exotics records occurring from 1999-2008 archived in the Public Events geodatabase.

LANDFIRE 2010

- LANDFIRE is currently working on the next update phase called LANDFIRE 2010.
- LANDFIRE has collected Event (disturbance and treatment data) and Exotics data through 2010.
- The data will be used to update LANDFIRE data products to circa 2010 conditions.
- The LFRDB will be maintained and updated as needed.

Participation

- LANDFIRE has transitioned to a yearly data call with a data submission due date of November 15.
- Primary focus: Event perimeter data (disturbance and treatment data) and Exotic plant perimeter data.
- Secondary focus: LANDFIRE will continue to accept contributions of vegetation and fuel plot data.

Feedback

- Another objective of the LANDFIRE updates is to address discrepancies between current map products and known field conditions.

- Feedback information on our data products lets LANDFIRE know where these discrepancies or issues exist and provide information that will help improve data products.

Contact Information

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