

# HI-5 DATABASE

Successor to WLIS

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# Hi-5 DB

## What is it

- A plot summary database
- Includes all high-elevation 5-needle pines in western US and Canada
- Internet-based with real-time updates
- Has geospatial capability
- Has query and report writing capabilities
- Simplifies data entry with standard template and utility upload

# Log-In



United States Department of Agriculture

Forest Service — FOREST HEALTH TECHNOLOGY ENTERPRISE TEAM

Log In	
User Name:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Log In"/>	

# Home Page

USDA United States Department of Agriculture  
Forest Service

FOREST HEALTH TECHNOLOGY  
ENTERPRISE TEAM

Home | FHTET | CONTACT US

Welcome **gdenitto** to the High Five Database - Web Data Portal

Manage Users Logout

Manage Data

Upload Transect Data

Print

Refresh

Empty CSV Template



# Plot Viewing

USDA United States Department of Agriculture Forest Service FOREST HEALTH TECHNOLOGY ENTERPRISE TEAM

USDA Plot Data

Source: Hops Valley Co. Idaho USA FPL: 1622

Administration Unit: National Forest Service

Survey Date: Mon. 1922 Year: 1922 Plot Type: Beechwood? Elevation: 7925 Feet Date: 2012 Aspect: 200 Deg

Year Filter: 1922 2013 Source-Year: Hoppers, 2008 Record 1 of 2131

View & Icons: New View, Modify, Delete, Refresh, Settings

Identity of Five Needle Pines

SNP basal Area: 1.000

SNP Trees / Area: 222

SNP Species in Region

Region of Five Needle Pine

SNP basal Area: 1.000

Region of Other Species

Regeneration Definition: 30 (1.5m) in total height

Live SNP TPA: 11.0 Dead SNP TPA: Live % Infected: 0

View Plot Data in GridView

View by Unique ID: [8C86696-FEE9-495B-9EDC-0565D06CDA18]

Created by: gsm010 Date: 06/17/2013

# Simple Data Query



**Hi5Db Plot Data**

Source: [Help](#) Fergus Co. Montana USA FIPS: 30027

Burns, unpublished data

Coordinates:  
Latitude: 46.79563  
Longitude: -109.50102  
Methodology: XY Estimated  
Projection Details:  
Dist. Deg. DMS  
Datum: NAD83  
Scale: None

Administration Unit:  Disturb Plot Location?

<b>Survey Date</b>	<b>Perm. Plot</b>	<b>Elevation</b>	<b>Slope</b>
Mon: 8 Year: 2007	Yes No Year Est. 2007	6575 Fe. M.	77 % % Deg.

<b>Plot Type</b>	<b>Remeasure?</b>	<b>Fuels Data</b>	<b>Aspect</b>
Fla. Van. Obs.	Yes No	Yes No	216 Deg.

**Five Needle Pine Species Present**

Whitebark  Limber  Rocky Mountain bristlecone  Great Basin bristlecone  Foxtail  Southwestern White

<b>White Pine Blister Rust Present</b>	<b>% Mort from Blister Rust</b>	<b>% Mortality from All Causes</b>
Yes No Not Evaluated	Yes No Not Evaluated	Yes No Not Evaluated

**Percent Infection** 0 %  
by BA by TPArea

**BR Mortality** 1 %  
by BA by TPArea

**All Mortality** 1 %  
by BA by TPArea

**Density of Five Needle Pines** Measured Not Evaluated

**SNP Basal Area** 22  
Sq. Ft. / Acre Sq. M. / Hectare

**SNP Trees / Area** 100  
by Acre by Hectare

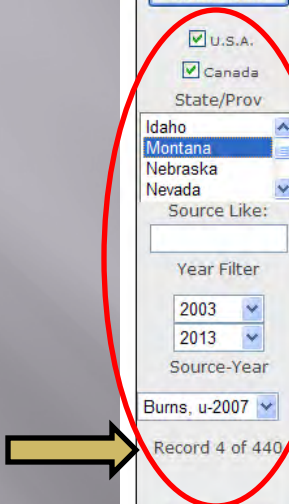
**SNP Species in Regen** "PSME, PIFL2" PIFL2

**Regen of Five Needle Pine**

**Regen of Other Species** Twig Beetle, Other  
None Not Evaluated Animal Competition Dwarf Mistletoe Mountain Pine Beetle Needle Disease

Record 4 of 440

View & Browse:  
 New Plot  
 Modify  
 Delete  
 Revisit



# Plot Data Entry



**HSDB Home**

U.S.  
 Canada  
State/Prov

Alpha  
Success  
Comments

Source Link

Year Filter

View & Browse  
 Main Plot  
 Modify  
 Refresh

**HSDB Plot Data**

Index

Latitude:   
Longitude:   
Methodology:   
Projection Defaults:  
 Dist. Deg.  DMS  
 UTM  
 State Plane

Administration Unit:  Desert Plot Location?

Survey Date: Mon.  Year:   
Perm. Plot:  Yes  No  
Elevation:  Slope:  %  Deg  
Plot Type:  Fir  Spruce  Pine  
Succession:  Yes  No  
Fuels Data:  Yes  No  
Aspect:  Deg

Five Needle Pine Specific Present  
 whitebark  limber  Rocky Mountain bristlecone  Great Basin bristlecone  foxtail  southwestern white

White Pine (Water Rust) Present  
 Yes  No  Not Evaluated  
% Mort from Blister Rust  
 Yes  No  Not Evaluated  
% Mortality from All Causes  
 Yes  No  Not Evaluated

Percent Infection:  %  
 by BA  by T/Infs  
% Component Other Species  
 Measured  Not Evaluated  
Other Species:  % Component  
 by Pl. / Area  by M. / Infs

Other Insect/Agents  
Dwarf Mistletoe  
Mountain Pine Beetle  
Needle Disease  
Fire  
Drought  
Windthrow  
Other

Density of Five Needle Pines  
 Measured  Not Evaluated  
SRP Basal Area:   
 Sq. Ft. / Acre  Sq. M. / Hectare  
SRP Density Area:   
 by Acre  by Hectare

SRP Species by Region  
whitebark  
limber  
Rocky Mountain bristlecone  
Great Basin bristlecone  
foxtail  
southwestern white

Regen of Five Needle Pine  
 Yes  No  Not Evaluated  
Regeneration Definition:   
Live SRP TPA:   
Dead SRP TPA:   
Live % Infected:

Live Non-SRP TPA:   
Dead Non-SRP TPA:

# Plot Revisit

USDA United States Department of Agriculture Forest Service FOREST HEALTH TECHNOLOGY ENTERPRISE TEAM

**Plot Data**

State: ID County: Blaine USFS: R200

Coordinates: Latitude: 45.0400136 Longitude: -115.09536598

Administrative Unit: National Forest Service

Survey Date: Parcel Plot: Elevation: Slope: 7010 72 %

Year: 2008

Plot Type: Aspect: Forest Data: Aspect

Fire Needle Pine Species Present:  whitebark  limber  Rocky Mountain bristlecone  Great Basin bristlecone  foxtail  southwestern white

White Pine Bark Beetle Present:  Yes  No  Not Evaluated

Percent Infestation:  %  By BA  By TBA

Level of Fire Needle Pine:  Measured  Not Evaluated

30% Bark Area:   By % / Area  By H / Hectare

30% Trees / Area:   By Acre  by Hectare

30% Species in Reges: whitebark, limber, Rocky Mountain bristlecone, Great Basin bristlecone, foxtail, southwestern white

Reges of Fire Needle Pine:  Yes  No  Not Evaluated

Reges of Other Species:  Measured  Not Evaluated

Other Injurious Agents: None, Not Evaluated, Armad, Competition, Dwarf Mistle, Mountain Pine Beetle, Needle Disease

Live 30% Yrs:  Dead 30% Yrs:  Live % Infested:

Navigation: Home, Back, Forward, Print, Close

Source Links:  U.S.A.  Canada State/Prov

Year Filter:

Year & Browse:  New Plot  Modify  Delete  Review



# Data Download

Source Like:

Year: 2008 Year Est.: 2008

Year Filter: 1922 2013

Source-Year: Hoppus,-2008

Record 1 of 2131

<<< >>>

View & Browse

- New Plot
- Modify
- Delete
- Revisit

Submit

**Plot Type** **Remeasure?** **Fuels Data** **Aspect**

310 Deg.

**Five Needle Pine Species Present**

whitebark  limber  Rocky Mountain bristlecone  Great Basin bristlecone  foxtail  southwestern white

**White Pine Blister Rust Present** **% Mort from Blister Rust** **% Mortality from All Causes**

64 % 3 % 21 %

**Percent Infection** **BR Mortality** **All Mortality**

**Density of Five Needle Pines** **% Component Other Species** **Other Injurious Agents**

UNK 70 % Component

**SNP Basal Area** **Other Species**

300

**SNP Trees/Area** **Regen of Five Needle Pine** **Regen of Other Species**

whitebark limber Rocky Mountain bristlecone Great Basin bristlecone foxtail southwestern white

Regeration Definition: <4.5' (1.4 m) in total height

Live SNP TPA: 154.9

Dead SNP TPA:

Live % Infected: 0

View Plot Data in GridView

View by Unique Id: {8C8B686-FEE9-495B-9EDC-0565D06CDA1B}

Created by: gdenitto Created on: 1/25/2013

# Data Download

Regeneration Definition: Ind. 2011 0 and 0 based on...

Live 300 TPA:  310 Y

Dead 300 TPA:  310 Y

Log by Interval:

View Plot Data in GridView | Clear Grid | **Download**

Source	SurveyYear	PermPlot	PermPlot	PermPlot	PlotType	Elevation	Elev_Units	Slope	Slope_Units	Aspect	FuelsData	PIA1	PIA2	PIA3	PIA4	PIA5	PIST1	PIST2	PIST3	Nation	StateProv	CountyMun	FIPS	AdminLat	Latitude	Longitude	GPS_Merit	WP86Pris	WP86Peri
Hopper, Benjamin F. (M.S. Forest Resources Thesis, 2009, University of Idaho) 7 Blister Rust, Mountain Pine Beetle, and Fuels in Whitebark Pine Forests in the Frank Church River of No Return Wilderness Area	2008	Y	2008	N	F	7510	ft	72	%	310	Y									USA	Idaho	Valley	16085	National Forest Service	45.0406	-115.086	Field GPS	Y	64

View by Unique Id: (BC8B6866-FEE9-4958-9EDC-0565D06CDA1B)

ReportName(S) - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC				
1		Source	SurveyMo	SurveyYea	PermPlot	PermPlot	PermPlot	PlotType	Elevation	Elev_Units	Slope	Slope_Units	Aspect	FuelsData	PIA1	PIA2	PIA3	PIA4	PIA5	PIST1	PIST2	PIST3	Nation	StateProv	CountyMun	FIPS	AdminLat	Latitude	Longitude	GPS_Merit	WP86Pris	WP86Peri	
2		Hopper B	7	2008	Y	2008	N	F	7510	ft	72	%	310	Y										USA	Idaho	Valley	16085	National Forest Service	45.0406	-115.086	Field GPS	Y	64





# Using CSV Template



Ready to Submit: C:\Documents and Settings\jodenette\My Documents\denette\Whitebark Pine\Wb\H5DB\_Submit\ Data\H5DB\_Test.csv

Records:

Decimal Degrees

H5DB Name

Submit

## Universal Upload Utility

Press the 'Browse' button to navigate to your camera-delimited data file and then push the 'Read Header Row' button. Your custom field names will display in the left-hand column and in the 'Your Fields' pulldown boxes. Map your fields to the corresponding fields in the High Five Needle Pine Data Structure by selecting each from the 'Your Fields' pulldown boxes. Selected field names will be removed from the other pulldowns when they are selected. Push the 'Map Data' button to establish the critical data relationships, and

Your Fields	H5DB Data Structure
	Source
	Survey Month
	Year
	Perm Plot Y or N
	Perm Plot Year
	Perm Plot Remeasure Y or N
	Plot Type
	Elevation
	Elevation Unit
	Slope
	Slope Unit
	Aspect
	Fuels Data Y or N
	MultispeciesField
	Whitebark Pine Y or N
	Lambert pine Y or N
	Rocky Mt. bristlecone Y

**Message from webpage**

 Congratulations, your data file column headers exactly match the High Five Data Structure. You may attempt upload now by pressing the 'Submit' button.

OK

# Checking for Duplicate Records

```
Pepps_NOV_9_12_Laifong_Corrected_LogFile[1].txt - Notepad
File Edit Format View Help
Warning: Abbrev Plot: 'Bedwell, J.L. and T.'. A Plot Record for year 1929 already exists in the database at within 100 feet of these exact
coordinates!
Survey Month = ''
Survey Year = '1929'
Created by: 'gdenitto'
StateProv: 'BC'
County/Municipality: 'SQUAMISH-LILLOOET, SUBD. B'
Latitude: '49.97104167'
Longitude: '-123.1429222'
Created on: '2/13/2013 12:00:00 AM'
Warning: Abbrev Plot: 'Bedwell, J.L. and T.'. A Plot Record for year 1930 already exists in the database at within 100 feet of these exact
coordinates!
Survey Month = ''
Survey Year = '1930'
Created by: 'gdenitto'
StateProv: 'BC'
County/Municipality: 'SQUAMISH-LILLOOET, SUBD. B'
Latitude: '49.97104167'
Longitude: '-123.1429222'
Created on: '2/13/2013 12:00:00 AM'
Warning: Abbrev Plot: 'Bedwell, J.L. and T.'. A Plot Record for year 1931 already exists in the database at within 100 feet of these exact
coordinates!
Survey Month = ''
Survey Year = '1931'
Created by: 'gdenitto'
StateProv: 'BC'
County/Municipality: 'SQUAMISH-LILLOOET, SUBD. B'
Latitude: '49.97104167'
Longitude: '-123.1429222'
Created on: '2/13/2013 12:00:00 AM'
Warning: Abbrev Plot: 'Bedwell, J.L. and T.'. A Plot Record for year 1932 already exists in the database at within 100 feet of these exact
coordinates!
Survey Month = ''
Survey Year = '1932'
Created by: 'gdenitto'
StateProv: 'BC'
County/Municipality: 'SQUAMISH-LILLOOET, SUBD. B'
Latitude: '49.97104167'
Longitude: '-123.1429222'
Created on: '2/13/2013 12:00:00 AM'
Warning: Abbrev Plot: 'Bedwell, J.L. and T.'. A Plot Record for year 1933 already exists in the database at within 100 feet of these exact
coordinates!
Survey Month = ''
Survey Year = '1933'
Created by: 'gdenitto'
StateProv: 'BC'
County/Municipality: 'SQUAMISH-LILLOOET, SUBD. B'
Latitude: '49.97104167'
Longitude: '-123.1429222'
Created on: '2/13/2013 12:00:00 AM'
Warning: Abbrev Plot: 'Bedwell, J.L. and T.'. A Plot Record for year 1934 already exists in the database at within 100 feet of these exact
coordinates!
Survey Month = ''
Survey Year = '1934'
Created by: 'gdenitto'
StateProv: 'BC'
County/Municipality: 'SQUAMISH-LILLOOET, SUBD. B'
Latitude: '49.97104167'
Longitude: '-123.1429222'
Created on: '2/13/2013 12:00:00 AM'
Warning: Abbrev Plot: 'Bedwell, J.L. and T.'. A Plot Record for year 1935 already exists in the database at within 100 feet of these exact
coordinates!
Survey Month = ''
Survey Year = '1935'
Created by: 'gdenitto'
StateProv: 'BC'
County/Municipality: 'SQUAMISH-LILLOOET, SUBD. B'
Latitude: '49.97104167'
Longitude: '-123.1429222'
```

# Mapping File Headers

## Universal Upload Utility

Press the 'Browse' button to navigate to your comma-delimited data file and then push the 'Read Header Row' button. Your custom field names will display in the left-hand column and in the 'Your Fields' pulldown boxes. Map your fields to the corresponding fields in the High Five Needle Pine Data Structure by selecting each from the 'Your Fields' pulldown boxes. Selected field names will be removed from the other pulldowns when they are selected. Push the 'Map Data' button to establish the critical data relationships, and

Please map all pertinent fields in: C:\Documents and Settings\jdenitto\My Documents\jdenitto\Whitebark Pine\Wk\H5Test2.csv

6 Record(s)

Decimal Degree

H5Db Home

Map Data

New Enclosure

View Log File

Your Fields	H5Db Data Structure
	Score
	Survey Month
	Year
	Perm Plot Y or N
	Perm Plot Year
	Perm Plot Remeasure Y or N
	Plot Type
	Elevation
	Elevation Low
	Slope
	Slope Unit
	Aspect
	Fuels Data Y or N
	MultiSpeciesField
	Whitebark PPM Y or N
	Lumber pine Y or N
	Rocky Mt. brnHazardous T

### Message from webpage



Your data file headers do not match the High Five data structure. Please map your fields to that of the High Five database before attempting upload.

OK



### Universal Upload Utility

Press the 'Browse' button to navigate to your comma-delimited data file and then push the 'Read Header Row' button. Your custom field names will display in the left-hand column and in the 'Your Fields' pulldown boxes. Map your fields to the corresponding fields in the High Five Needle Pine Data Structure by selecting each from the 'Your Fields' pulldown boxes. Selected field names will be removed from the other pulldowns when they are selected. Push the 'Map Data' button to establish the critical data relationships, and push the 'Submit'

Please Map all pertinent fields in: C:\Documents and Settings\gdenitto\My Documents\denitto\Whitebark Pine\Wlis\Hi5Test2.csv

6 Record(s)

Distort Plot Location?

Decimal Degrees

Your Fields	Hi5Db Data Structure
<input type="button" value="v"/>	Source
<input type="button" value="v"/>	Survey Month
<input type="button" value="v"/>	Year
<input type="button" value="v"/>	Perm Plot Y or N
<input type="button" value="v"/>	Perm Plot Year
<input type="button" value="v"/>	Perm Plot Remeasure Y or N
<input type="button" value="v"/>	Plot Type
<input type="button" value="v"/>	Elevation
<input type="button" value="v"/>	Elevation Unit
<input type="button" value="v"/>	Slope
<input type="button" value="v"/>	Slope Unit
<input type="button" value="v"/>	Aspect
<input type="button" value="v"/>	Fuels Data Y or N
<input type="button" value="v"/>	MultiSpeciesField
<input type="button" value="v"/>	Whitebark Pine Y or N
<input type="button" value="v"/>	Limber pine Y or N
<input type="button" value="v"/>	Rocky Mt bristlecone Y

# Mapping File Headers



# Acknowledgements

- Our thanks to everyone who has contributed their data to WLIS and to the Hi5DB.
- Thanks to John Popp, RMRS, for data searching and populating Hi5DB
- Questions?