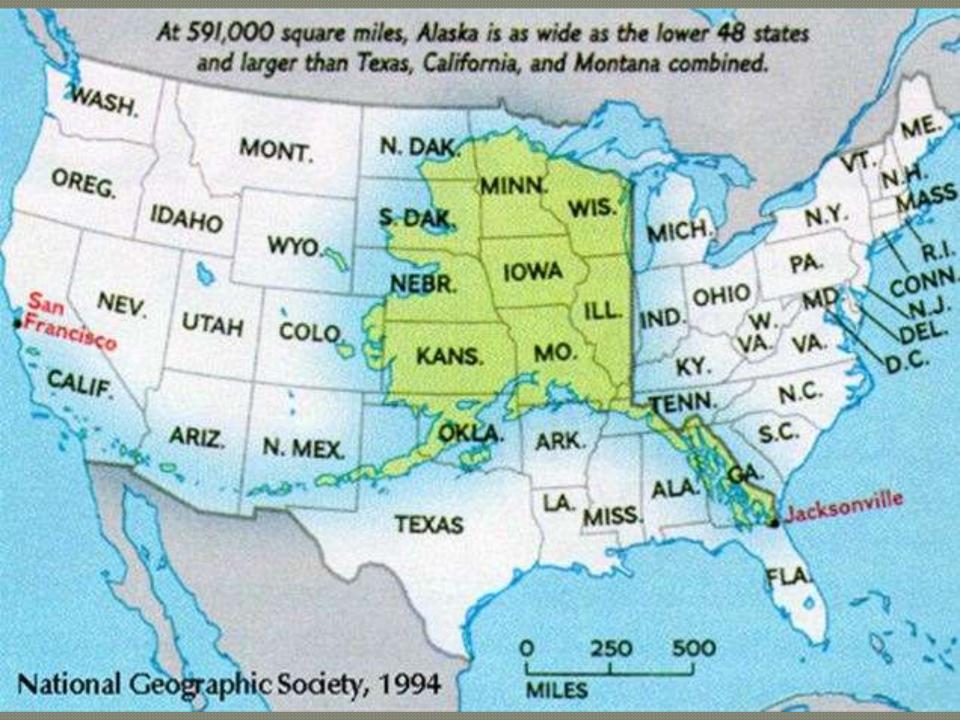
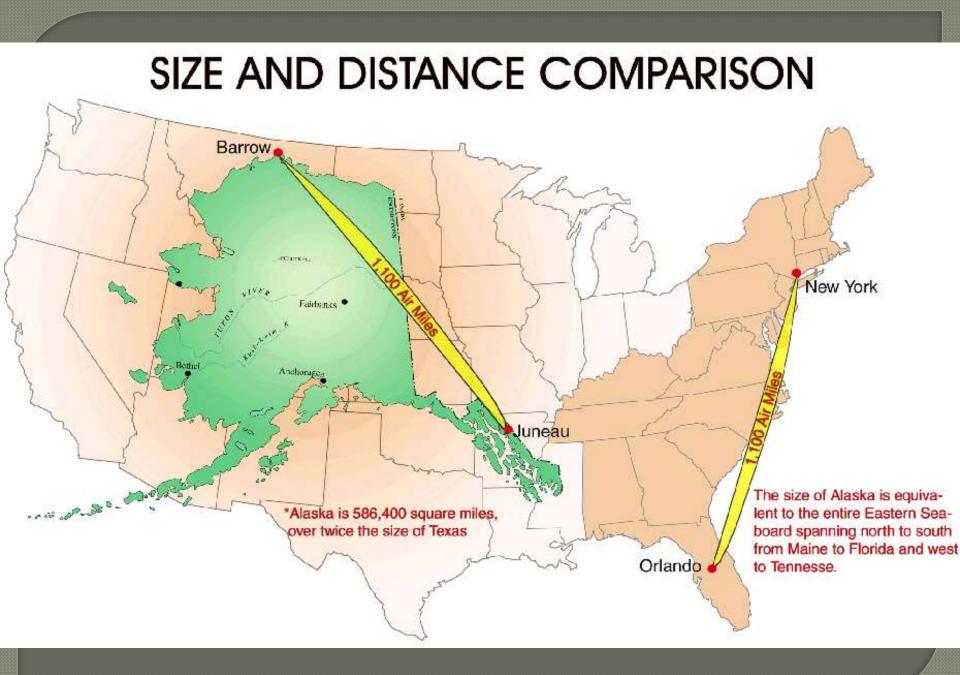
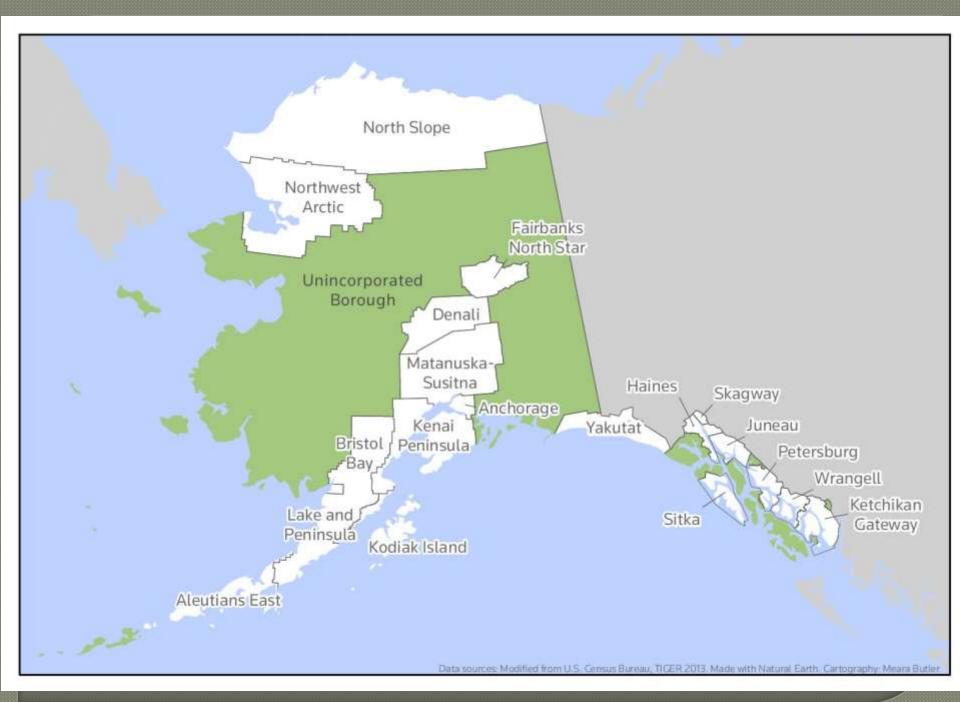
Communicating Flood Risk with a Story Map

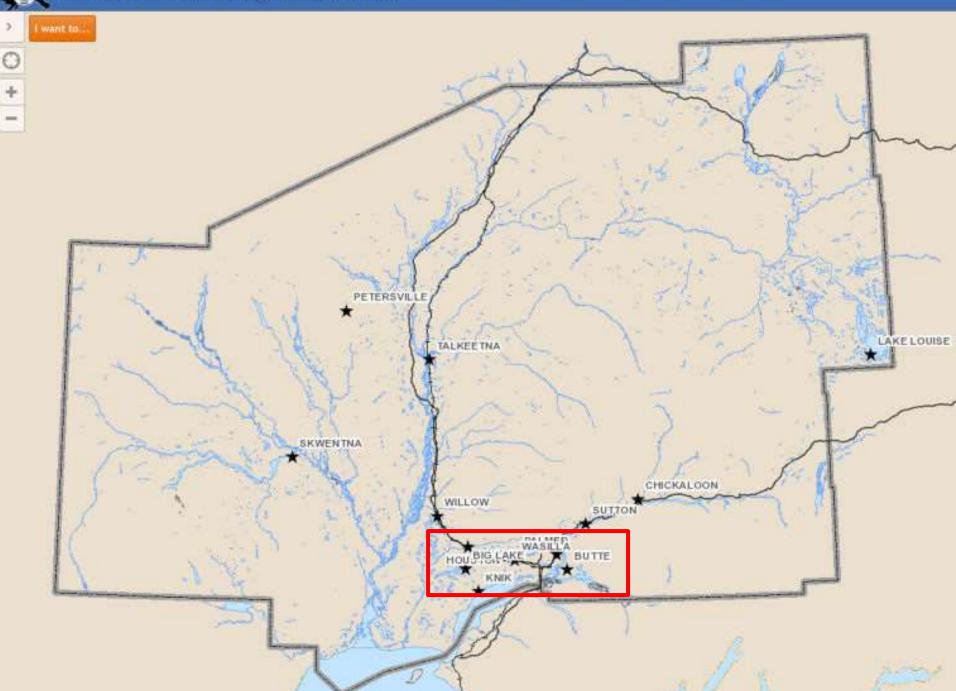


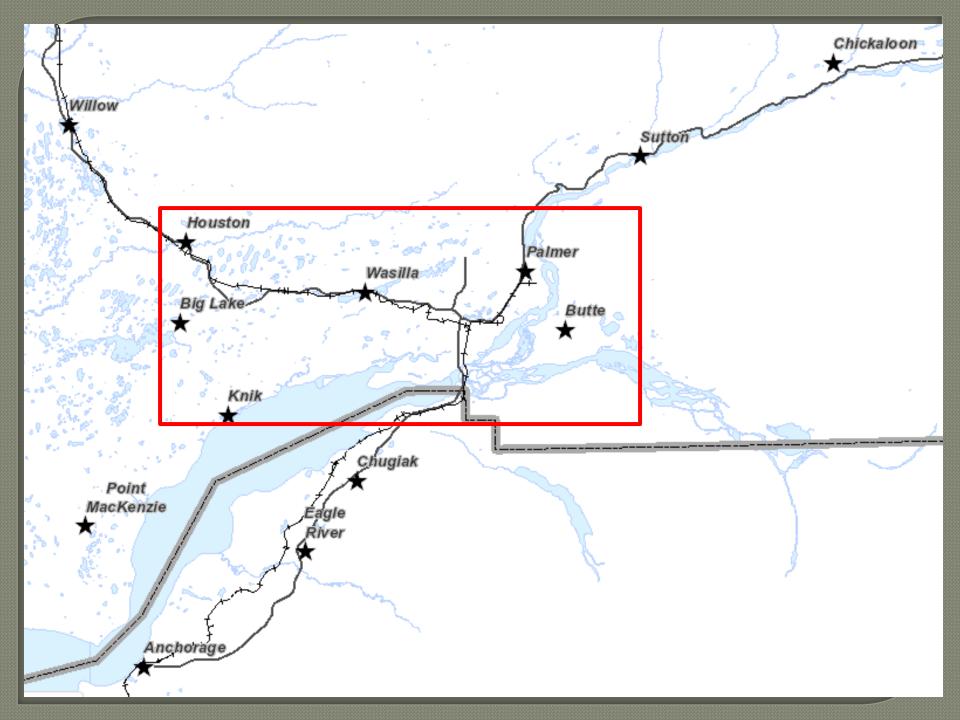






Matanuska-Susitna Borough Parcel Viewer





، بر الم	sitna Borough, Alaska
Location in the U.S. state of Alaska Alaska's location in the U.S. January 1, 1964 ^{[1][2]}	
Seat	Palmer
Largest city	Wasilla
Area	
• Total	25,258 sq mi (65,418 km²)
• Land	24,608 sq mi (63,734 km ²)
• Water	650 sq mi (1,683 km²), 2.6%
Population (est.)	
• (2016)	102,598
Density	3.6/sq mi (1/km²)

State of West Virginia



Nickname(s): Mountain State (Appalachian Mountains)





Official language	De jure: English ^[1]
Demonym	West Virginian
Capital (and largest city)	Charleston
Largest metro	Huntington
Area	Ranked 41st
• Total	24,230 sq mi (62,755 km ²)
Width	130 miles (210 km)
Length	240 miles (385 km)
 % water 	0.6
Latitude	37° 12' N to 40° 39' N
Longitude	77°43' W to 82°39' W
Population	Ranked 38th
Total	1,844,128 (2015 est)[2]

Flood Mapping History

Init FIRM

Curr Eff

Reg-Emer

No

Federal Emergency Management Agency Community Status Book Report

ALASKA

Communities Participating in the National Flood Program

Init FHBM

Community Name County Identified Identified CID Map Date Date Tribal 020021# MATANUSKA-SUSITNA, BOROUGH MATANUSKA-SUSITNA 02/28/78 05/01/85 03/17/11 05/01/85 OF BOROUGH INCLUDES THE INCORPORATED AREAS OF THE CITIES OF HOUSTON. PALMER AND WASILA. APPROXIMATE SCALE IN FEET ZONE A ZONE A F(101) BM10 [] RM13 NATIONAL FLOOD INSURANCE PROGRAM ZONE Topography at this time was LANDE ZOME C FIRM **USGS** Ouads and late some FLOOD INSURANCE RATE MAP ZOME (ZOME C refinement to 3 meter accuracy. MATANUSKA SUSITNA BOROUGH, ALASKA ZONE C (MATANHSKA SUSITNA DIVISION 25 ZONE C PANEL 9740 G ZONE C ZONEC 2011 – Digital conversion with PANEL NUMBER with detailed study in 2009 of MAP REVISEN-JUNE 3, 1986 Talkeetna.



*

MAT-SU LiDAR & Imagery Project 2011-2012

General Information

The MSB LiDAR & Imagery Project is a collection of high-resolution elevation data and aerial imagery for 3680 square miles of the Matanuska-Susitna Borough (MSB) as well as the development of a number of ancillary datasets. For data management purposes the project has been divided into 7 blocks/areas: Matanuska, Core Area, Point MacKenzie, Willow, Caswell Lakes, Talkeetna, & North Susitna.

The project is being managed by the MSB in collaboration with the US Geological Survey (USGS) and US Fish and Wildlife Service (USFWS). The following partners have contributed funding and/or resources to the project:

- Coastal Impact Assistance Program (CIAP);
- United States Geological Survey (USGS);
- Alaska Energy Authority (AEA);
- United States Fish and Wildlife Service (USFWS);
- The Nature Conservancy (TNC);
- National Oceanic and Atmospheric Administration (NOAA) Mat-Su Salmon Partnership;
- United States Army Corps of Engineers (USACE);
- Alaska Pacific University (APU) &
- Matanuska Susitna Borough (MSB).



State of Alaska > Commerce > Community & Regional Affairs > Planning & Land Management > Risk MAP > Matanuska-Susitna Borough Risk MAP Study

Planning & Land Management Links

- Planning & Land Mgmt Home Page
- Alaska Climate Change Impact Mitigation Program
- Alaska Community Coastal Protection Project
- Alaska Risk MAP Program
- Community Coastal Impact

ALASKA RISK MAP PROGRAM

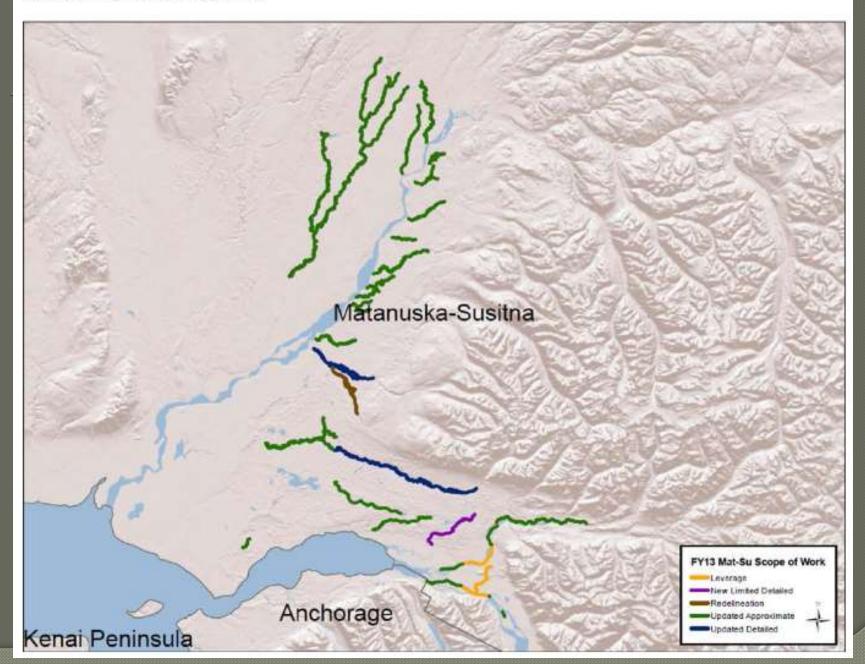
COMMUNITY RISK MAP STUDIES

Matanuska-Susitna Borough

FEMA and the State of Alaska are conducting a Risk MAP Study in the Matanuska-Susitna Borough that began in 2013.

MAP OF MATANUSKA-SUSITNA BOROUGH STUDY SCOPE

Click on image to open larger map



STUDY SCOPE

The scope of work of the Matanuska-Susitna Borough Risk MAP Study includes (see also the map below):

Detailed hydrology and hydraulic modeling to include 71.9 miles of riverine study, perform approximate riverine analysis for 316.6 miles, and delineate 15.4 miles of existing areas. Floodplain boundaries will be updated for the 1-percent and 0.2-percent-annual-chance (100- and 500-year) flood events. The rivers to be updated include:

- · Updated detailed modeling (Zone AE) will be completed for:
 - Little Susitna River (including Split Flows 1-3) = 39.2 mile
 - Willow Creek = 13.3 miles
 - Willow Creek Tributary = 7.1 miles
- · Limited detail modeling (Zone A with structures) will be completed for:
 - Wasilla Creek = 10.7 miles
- Updated Approximate Studies (Zone A) will be completed for:
 - Upper Matanuska River = 14 miles
 - Point MacKenzie = 2 miles roughly from Walsop Road to 2 miles downstream of Walsop Road
 - Various Zone A = 289.9 miles
- Redelineation of Effective Detailed Studies (Zone AE) will be completed for:
 - Deception Creek and Tributaries 1-3 = 15.4 miles
- US Army Corps of Engineers (USACE) Studies (Leverage Zone AE) will also be incorporated to include:
 - Matanuska River = 3.9 miles
 - Knik River = 2.7 miles
 - Bodenburg Creek = 5.7 miles

Activity	Actual or Projected End Date
Discovery Interview	March 11, 2013
Discovery Meeting	April 23, 2013
Flood Study Kick-Off Meeting	December 13, 2013
Draft Work Maps Issued	August 28, 2015
Flood Risk Review Meeting	January 20, 2016
Preliminary DFIRM/FIS Release	August 19, 2016
Consultation Coordination Officers (CCO) Meeting	January 4, 2017
Draft Multi-Hazard Risk Report	January 10, 2017
Public Meeting/Workshop	March 15-16, 2017
90-Day Appeal Period Starts	May/June 2017*
90-Day Appeal Period Ends	August/September 2017*
Risk MAP Resilience Workshop	Fall 2017*
Delivery of Final Risk Report and Risk Assessment Database	TBD*
Letter of Final Determination	October/November 2017*
Maps and FIS become Effective	April/May 2018*
*All projected dates are subject to revision as the project progresses	



Q

MATANUSKA-SUSITNA BOROUGH

EXIT

Budget Public Hearings

April 24, 25, 27

3 Public Hearings 6 pm on Budget



Flood Mapping Update

The Borough's flood maps are being updated for the first time since 1985! Click above to see how your property is affected.



FY 2018 Borough Budget

The budget is back. With State spending shortfalls, the Borough is finding the best way forward.



Know Before you Fly

Prospective operators want to fly, and fly safely, but many don't know the rules.



Lifestyle -

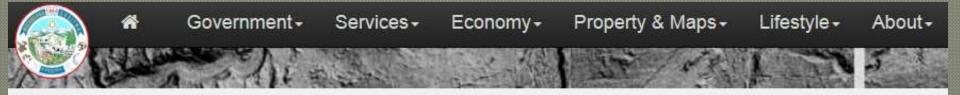
Flood Mapping Update

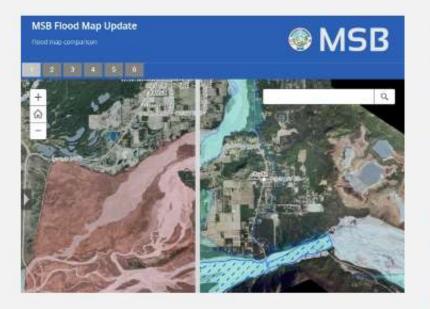
The Borough's flood maps are being updated for the first time since 1985! The preliminary 2016 FEMA flood map update is now ready for public review. You can pan and zoom to see the changes or search for your property by typing your address into the search tool in the upper right corner.

To compare the existing floodplain to the new, simply grab the line near the center of the page and slide it back and forth. Sliding the line to the right shows the existing flood data and sliding the line to the left reveals the new proposed data.

You can also use the numbered tabs towards the upper left of this page to take a tour that highlights some of the changes that come with the new data. Comments and questions can be directed to the Permit Center at 861-7822 or email permitcenter@matsugov.us







Compare with Aerial Imagery

Compare with Hillshades

You can pan and zoom to see the changes or search for your property by typing your address into the search tool in the upper right corner.

To compare the existing floodplain to the new, simply grab the line near the center of the page and slide it back and forth. Sliding the line to the right shows the existing flood data and sliding the line to the left reveals the new proposed data.

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Lucille Creek with Imagery

MSB Flood Map Update

Existing Flood Layers

MSB

1 2 3 4 5 6

Lucille Creek

By focusing in, you can see that the new data has very squiggly lines compared to the old data which has smoother wavy lines. The reason for this is that the new data follows contours and ground features more accurately, depicting what an actual flooded area would look like.

The boundaries represent a flood event having a one percent chance of being equaled or exceeded in any given year. This is the regulatory standard also referred to as the "100-year flood," "base flood, or "special flood hazard area."

Legend		
Parcels	Parcels	
المصار		
Existing	Preliminary	
Floodway	Floodway	
Floodplain	Floodplain	
		~



Lucille Creek with Hillshade

MSB Flood Map Update Hillshade

Flood map comparison



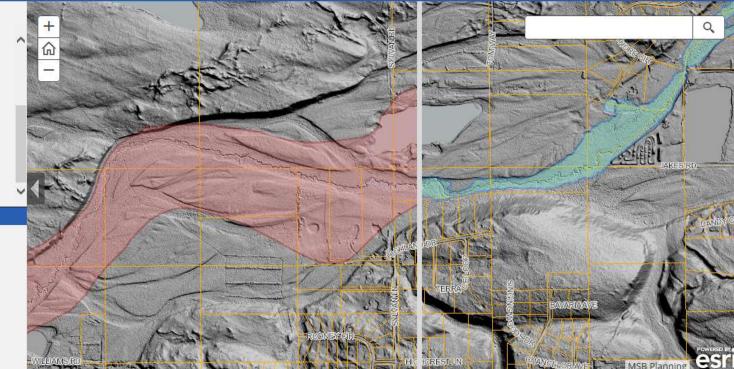
1 2 3 4 5 6

Lucille Creek

The boundaries represent a flood event having a one percent chance of being equaled or exceeded in any given year. This is the regulatory standard also referred to as the "100-year flood," "base flood, or "special flood hazard area."

The base flood is the national standard used by the National Flood Insurance Program (NFIP) and all Federal agencies for the purposes of requiring the purchase of flood insurance and regulating new development.

Legend		
Existing	Preliminary	
Floodway	Floodway	
Floodplain	Floodplain	



Little Susitna River

MSB Flood Map Update Hillshade

Flood map comparison

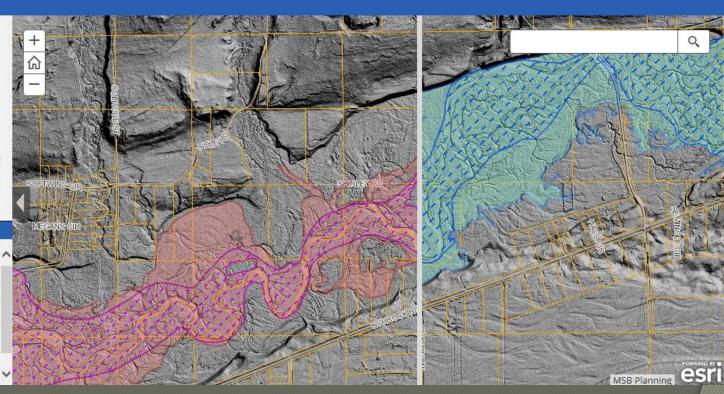


1 2 3 4 5 6

Little Susitna River

Many water bodies, including the Little Susitna, were derived from a detailed hydraulic analysis using input from ground surveys. Water bodies that have a detailed study will have an additional layer that is referred to as a "Regulatory Floodway." The floodway is the channel of a river or stream and the overbank areas that must remain open to carry the deeper, faster moving water during a flood. Regulatory floodways have higher permitting standards than the special flood hazard areas.

Legend	
Existing	Preliminary
Floodway	Floodway
Floodplain	Floodplain



Talkeetna

MSB Flood Map Update

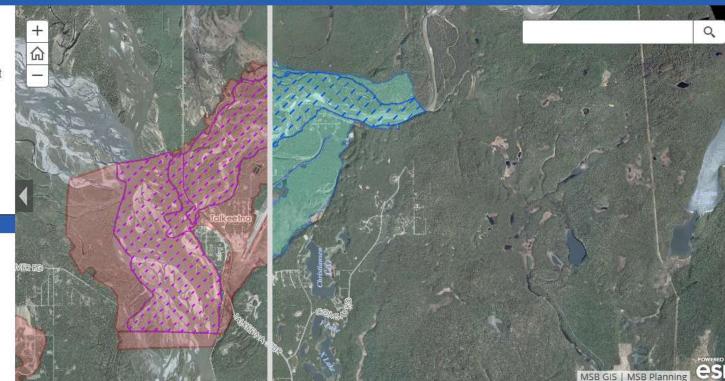
Existing Flood Layers





A detailed study of Talkeetna was conducted in 2009. Flood boundaries for this area became effective March 17, 2011 and will not be changed as part of this recent study.

Legend		
Existing	Preliminary	
Floodway	Floodway	
Floodplain	Floodplain	



Montana Creek and Kroto Creek

MSB Flood Map Update

Existing Flood Layers

MSB

1 2 3 4 5 6

Montana Creek & K Montana Creek & Kroto Creek

Parts of Montana and Kroto are mapped for the first time. Roughly 300 miles of new floodplain are being developed for this project; mostly in areas with sparse development. The flood maps and associated data will be a tool to ensure future development within these areas are built in a manner that minimizes loss of life and property.

Legend	
Existing	Preliminary
Floodway	Floodway
Floodplain	Floodplain



Bodenburg Butte

MSB Flood Map Update Hillshade

Flood map comparison

MSB

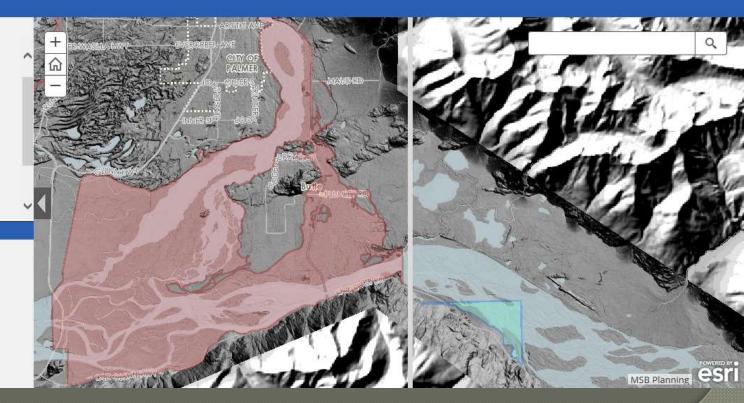
1 2 3 4 5 6

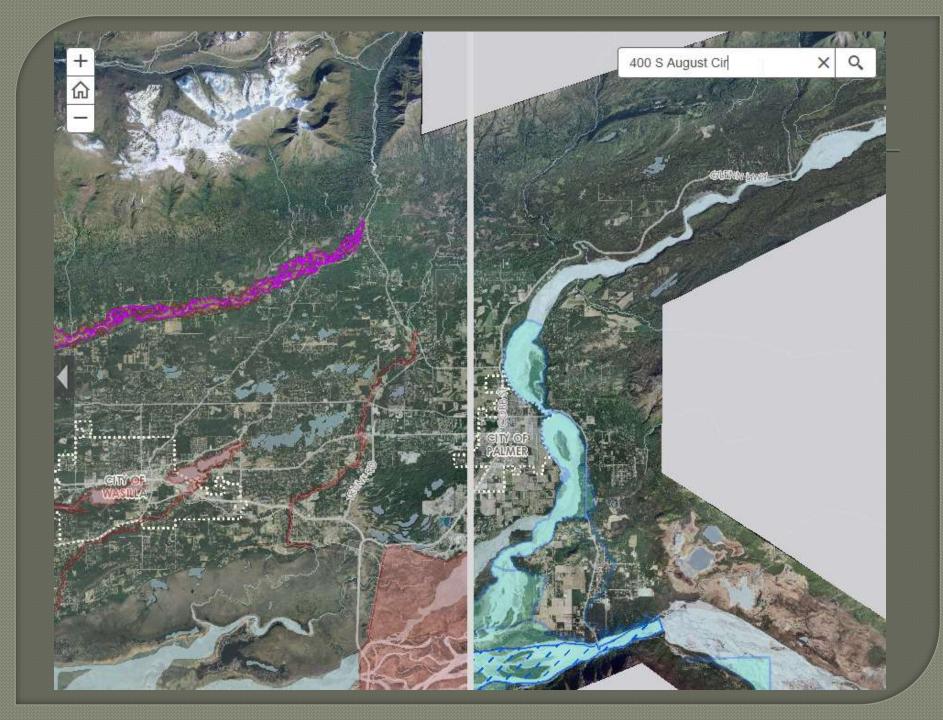
Bodenburg Butte

Existing maps are based on an event in 1971 when a break-out flood from an unnamed lake on Granite Creek (approximately 30 miles northeast of the Butte) breached the embankment of the Old Glenn Highway, causing widespread flood damages to the area.

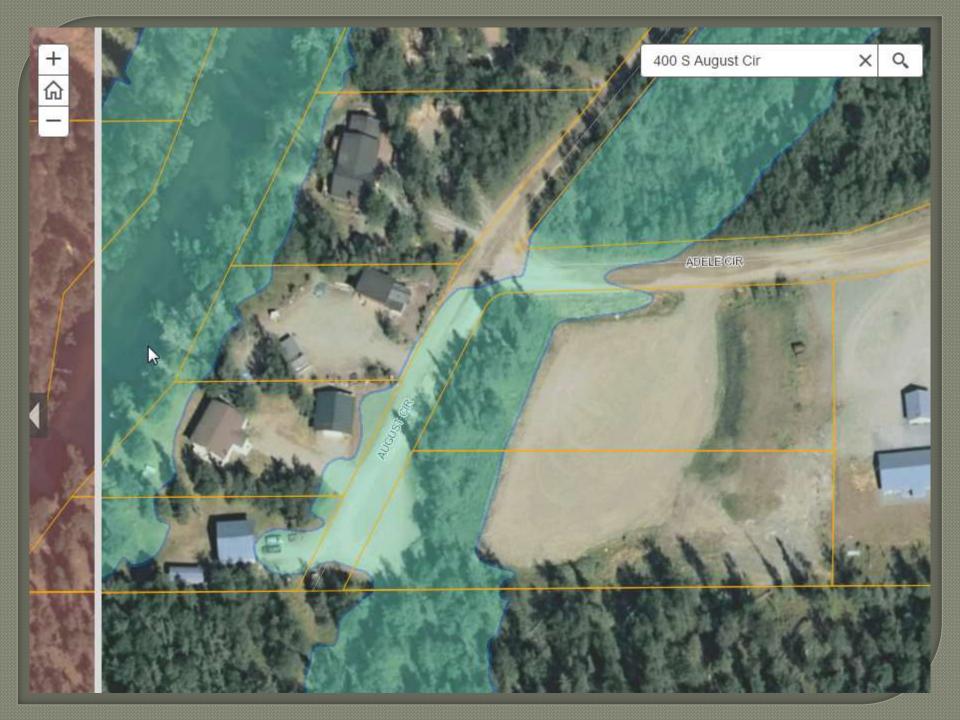
Conditions at the time which caused the event no longer exist. As a result, proposed flood boundaries along Bodenburg Creek are greatly reduced in comparison to the existing flood boundaries.

Legenu	
Existing	Preliminary
Floodway	Floodway
Floodplain	Floodplain









Who uses the story maps?

EVERYONE

- Permit Center
- Real Estate Agents
- Insurance Agents
- Financial Institutions
- Developers
- Contractors
- Surveyors
- Public / Residents

Questions?

Matanuska – Susitna Borough (Mat-Su)

Taunnie Boothby, CFM Planner II

350 E. Dahlia Ave Palmer, Alaska 99645

taunnie.boothby@matsugov.us Phone: 907-861-8526

https://www.matsugov.us/