



October 4, 2019

[Property Owner]
[Mailing Address]
[Mailing Address 2]
[Mailing Address 3]
[Mailing Address 4]
[Zip-Zip4]

Re: MyAlerts – Flood Alerts for [Watercourse Name]

Dear [Property Owner]:

Your property at [Property Address] is in a floodplain.

The Pima County Regional Flood Control District (District) wants to help keep you and your family safe when the next flood happens, but if we can't reach you, we can't alert you.

We need you to take a simple action now so we can send you important messages later.

The Pima County Office of Emergency Management (OEM) has recently implemented an emergency alert system known as **MyAlerts**, which can alert you to various emergency situations. The Regional Flood Control District (District) has determined that the MyAlerts system provides an excellent opportunity to provide important flood alert and safety messages in Near Real Time to citizens in certain highly floodprone areas. In coordination with OEM, the District has established flood alert notifications through MyAlerts for the [Watercourse name], which affects your property. The enclosed MyAlerts pamphlet includes information on how to sign up.

While this represents a significant leap forward in providing potentially lifesaving messages to you, I must stress to you that **floods are dynamic, the variables that affect the size and extent of a flood are numerous, and that no flood warning system is perfect.** If you sign up for MyAlerts, the District will do its best to provide you with timely, accurate alerts, but wants you to be prepared for the unpredictability of floods. A flood may impact areas that have not received an alert and alerts may be sent for a flood that ends up not affecting all flood alert recipients. However, we feel that if we have the ability to provide flood alerts, and give people an opportunity to take action to protect themselves or their property, we should do so.

It is important to understand that MyAlerts is a voluntary, opt-in emergency alert system that is separate from the National Weather Service alerts that you may already receive. You must sign up for MyAlerts in order to take advantage of the emergency messages that the District is now able to provide you. Please sign up for MyAlerts now at myalerts.pima.gov.

Suzanne Shields, P.E., Director

201 N. Stone Avenue, 9th Floor, Tucson, Arizona 85701-1207 • Phone: 520-724-4600 • Fax: 520-724-4621

I would also like to encourage you to take this time to create an emergency response plan for your home or business. Floods and other emergencies may occur when you least expect them so preparedness is your key to protecting yourself, your loved ones, your co-workers, and your property. Your emergency response plan should include having an emergency supply kit and a plan for everyone in the home or business including a safe rallying point, a point of contact outside the immediate area, and important medical information. Protecting your pets should also be included in your plan. Your plan should cover not only evacuation, but also sheltering in place, which may be a safer option. My staff can provide detailed flood information to help you decide.

The enclosed information will tell you more about MyAlerts and how to sign up, as well as give you details about the alerts you will receive in the event of a flood and what they mean. This information can also be found at: <http://www.pima.gov/FloodAlerts/> This website is your source for the latest information for your area and should be checked at least annually for any updates.

Sincerely,



Suzanne Shields, P.E.
Director

SS/tj

Enclosure(s): Flood Alerts Fact Sheet
MyAlerts Pamphlet
Emergency Response Plan Guide

Cañada del Oro Wash Inundation Areas

ALERT Gage 1103

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Cañada del Oro Wash. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Cañada del Oro Wash, based on computer modeling

- Flow breaks out of the primary channel near Golder Ranch Road at around 1500-2000 cfs.
- Overton Road is a dip crossing where the Cañada del Oro crosses it. It can experience significant flows due to rainfall far up in the watershed. Flash flooding may occur with no sign of rain in the immediate area. The road is frequently closed due to flow across the road.
- Some residents on the east side of the wash may be isolated during high flows. These residents should always be prepared and have adequate supplies to get through a few days without getting out.

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

BE PREPARED

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

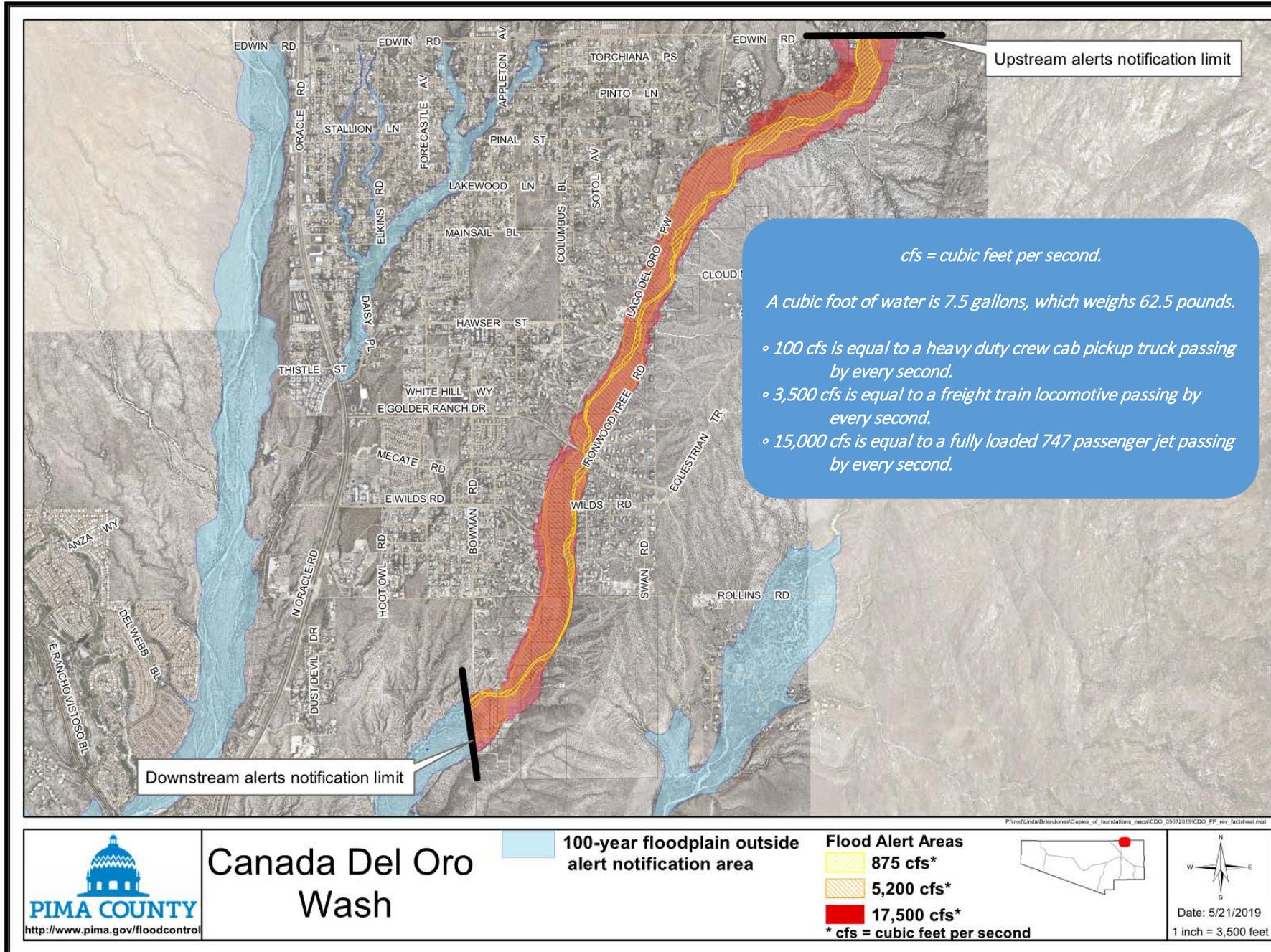
An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts.

Additional information and interactive maps can be found at:

<http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=465665>



Flood Alert Messages



875 cfs Not Applicable. A Flood Alert is not anticipated at this level.

What you need to know: At-grade crossings may be impassible. Plan to travel on alternate routes. Flow may still be rising. Pay attention for future alerts and be prepared to initiate your emergency response plan.

5,200 cfs Flooding on Cañada del Oro Wash is expected out of banks. Flooded homes possible. Expect hazardous road conditions. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: Home flooding possible north of Cloud Nine Dr. and south of Rollins Rd. Pima Pistol Club and Spirit Dog Ranch likely affected. Residents east of the wash may be isolated. Be aware of your surroundings and be prepared to protect yourself.

17,000 cfs Flooding on Cañada del Oro Wash is expected out of banks. Flooded homes expected. Home flooding is most likely north of Cloud Nine Dr. and south of Rollins Rd. Expect hazardous road conditions. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: Flood waters expected to approach the full extent of the inundation area shown on the inundation map. Home flooding expected. Be aware of your surroundings and be prepared to protect yourself.



Franco Wash Inundation Areas

ALERT Gage 6213

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Franco Wash. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Franco Wash, based on computer modeling:

- The lack of all-weather roads in this area makes travel extremely difficult and potentially hazardous. Proceed with extreme caution.
- Do not cross flooded washes. Where Franco Wash crosses Old Vail Connection Road is especially dangerous.

BE PREPARED

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

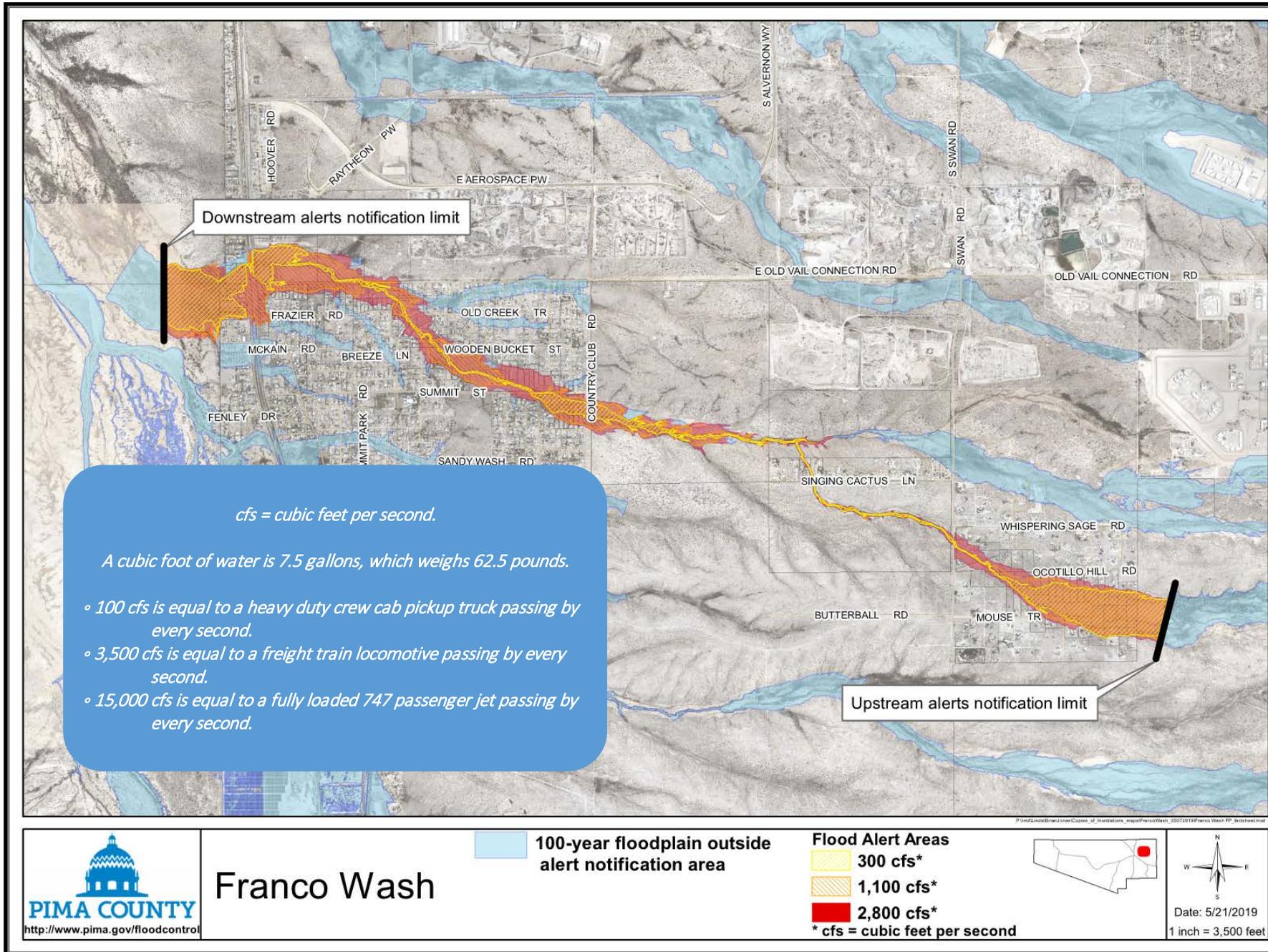
We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts. Additional information and interactive maps can be found at: <http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=465677>



Flood Alert Messages



300 cfs Not Applicable. A Flood Alert is not anticipated at this level.

What you need to know: Flow in the wash will be hazardous at at-grade crossings, which will likely be closed. Find alternate routes, wait until flow recedes or shelter in place.

1,100 cfs Flooding on Franco Wash is expected out of banks. Do not cross flooded roads. Flooded homes possible, particularly in the vicinity of Old Vail Connection Rd and Nogales Hwy. Expect hazardous road conditions. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: The lack of all-weather roads in this area makes travel extremely difficult and potentially hazardous. Proceed with extreme caution. Do not cross flooded washes. Where Franco Wash crosses Old Vail Connection Road is especially dangerous.

2,800 cfs Flooding on Franco Wash is expected out of banks. Do not cross flooded roads. Flooded homes expected, particularly in the vicinity of E Old Vail Road and S Old Nogales Hwy. Expect hazardous road conditions. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: Flood waters expected to approach the full extent of the inundation area shown on the map. Road conditions expected to be hazardous. Travel in the area may be extremely difficult.

Pima Wash Inundation Areas

ALERT Gage 1253

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Pima Wash. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Pima Wash, based on computer modeling:

- Homes in Pima Hollow Patio Homes (Integrity Dr.) and Pueblo Villas Townhomes (Pueblo Villas Drive) are at particular risk of flooding as flow rates rise above 3,000 cfs.

BE PREPARED

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts. Additional information and interactive maps can be found at: <http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=468261>

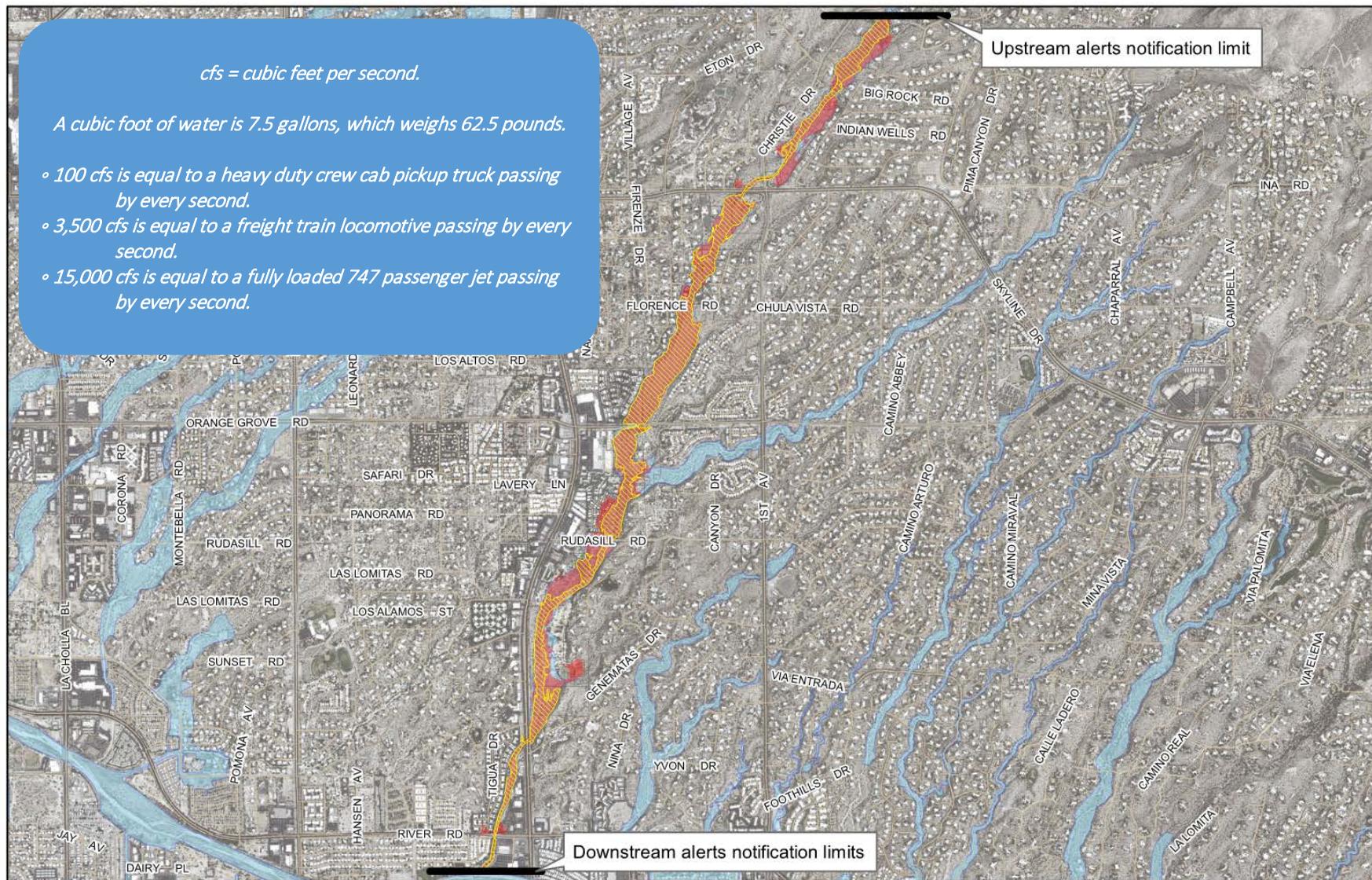


Flood Alert Messages

cfs = cubic feet per second.

A cubic foot of water is 7.5 gallons, which weighs 62.5 pounds.

- 100 cfs is equal to a heavy duty crew cab pickup truck passing by every second.
- 3,500 cfs is equal to a freight train locomotive passing by every second.
- 15,000 cfs is equal to a fully loaded 747 passenger jet passing by every second.



3,000 cfs Flooding on the Pima Wash is expected out of banks. Do not cross flooded roads. Flooded homes possible, particularly south of Ina Rd near E Deone Ln and E Florence Rd. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: Out of bank flooding may impact residences South of Ina near E Deone Ln and Florence Rd. Flow in the wash will be hazardous at at-grade crossings.

5,800 cfs Severe flooding is expected along Pima Wash. Flooded homes expected, particularly south of Ina Rd near E Deone Ln and E Florence Rd. Hazardous road conditions are expected. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: This flooding level exceeds the 100-year flood. Flooding expected to approach full extents shown on the inundation map. Flooding may impact residences South of Ina near E Deone Ln and Florence Rd, near Integrity Drive (Pima Hollow Patio Homes) and near Pueblo Villas Dr. (Pueblo Villas Townhomes). Homes adjacent to the wash along its entire course may be at risk of flooding.



Pima Wash

100-year floodplain outside alert notification area (light blue)

Flood Alert Areas

- 3,000 cfs* (yellow)
- 5,800 cfs* (red)

* cfs = cubic feet per second

Map Details: Includes a north arrow, a scale of 1 inch = 3,000 feet, and a date of 5/21/2019.



Sabino Creek Inundation Areas

ALERT Gage 2163

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Sabino Creek. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

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Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Sabino Creek, based on computer modeling:

- There are erosion concerns on Sabino Creek near Cloud Road.

BE PREPARED

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

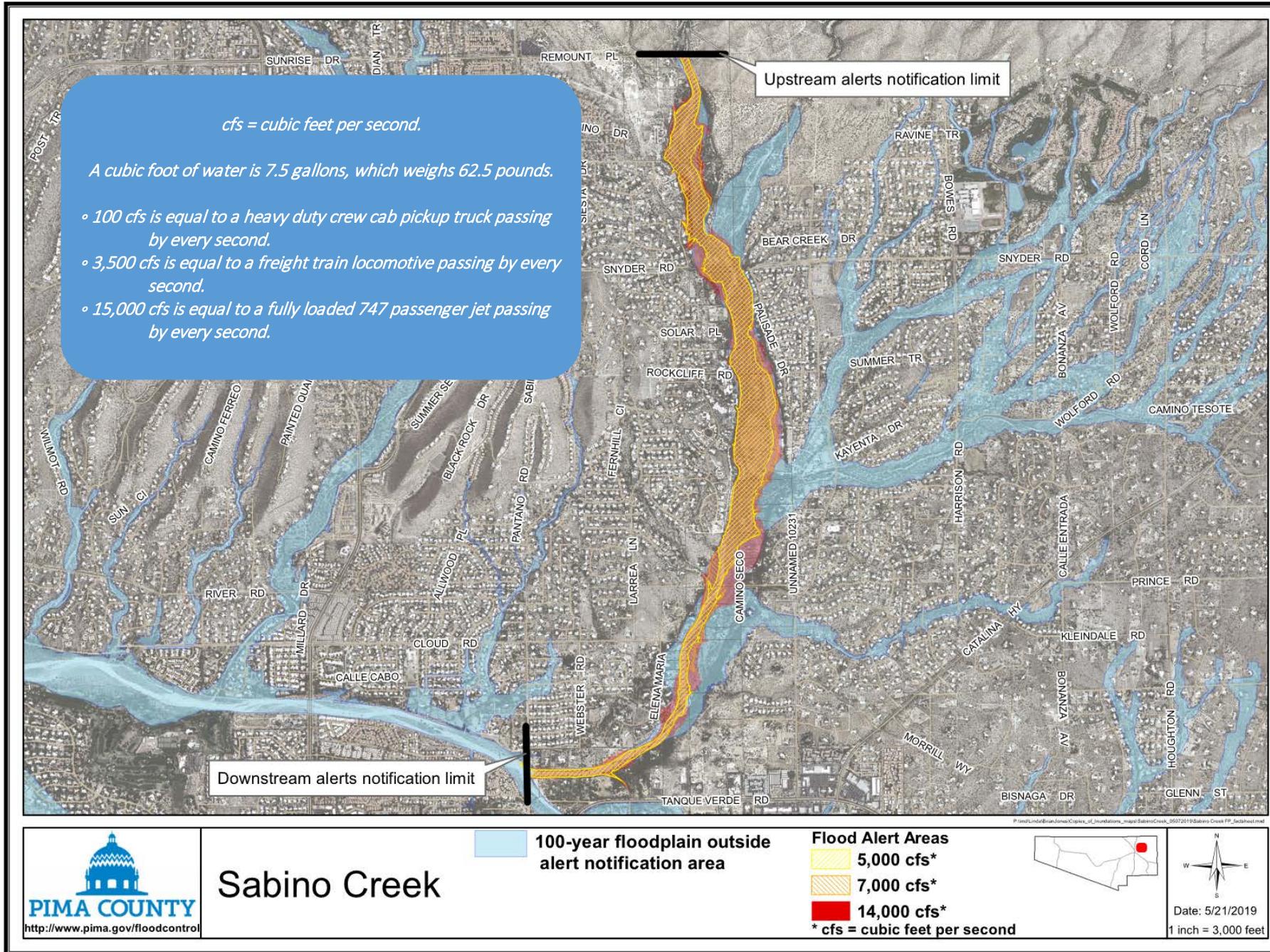
We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts. Additional information and interactive maps can be found at: <http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=468270>



Flood Alert Messages



5,000 cfs	<p>Flooding on Sabino Creek expected out of banks. Flooded homes possible. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.</p> <p>What you need to know: Flooding on Sabino Creek may result in home flooding or cause residences to be isolated with no safe route to safety. Areas of concern are along N Palisades Dr and Bear Creek Rd.</p>
7,000 cfs	<p>Flooding on Sabino Creek expected out of banks. Flooded homes expected. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.</p> <p>What you need to know: As flood waters rise, more homes will be at risk of flooding.</p>
14,000 cfs	<p>Severe flooding along Sabino Creek. Flooded homes expected. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.</p> <p>What you need to know: Near-historic record level flooding on Sabino Creek is expected to result in home flooding or cause residences to be isolated with no safe route to safety. Areas of concern are along N Palisades Dr and Bear Creek Rd.</p>



Upper Santa Cruz River Inundation Areas

ALERT Gage 6049

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including the Santa Cruz River. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Since floods are dynamic, actual inundation areas may be different than these estimates shown. Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Upper Santa Cruz River, based on computer modeling:

- Flood waters of the Santa Cruz River are expected to be swift and hazardous.
- Flood water may contain many floating hazards.
- In areas where no bank protection exists, the Santa Cruz River has a high capacity to erode channel banks. Stay well back from the water's edge.

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

BE PREPARED

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

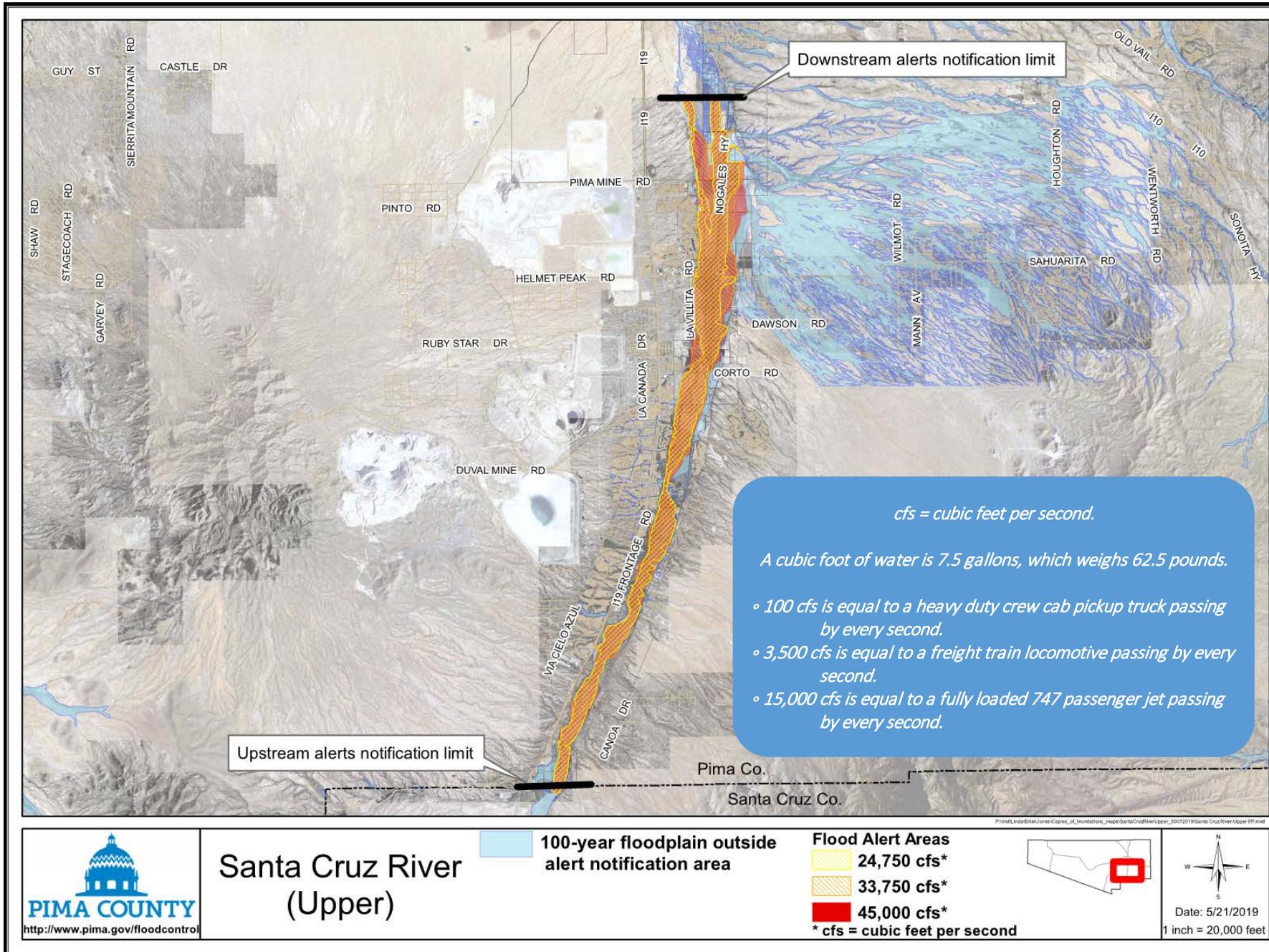
An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts.

Additional information and interactive maps can be found at:

<http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=468276>



Flood Alert Messages



24,750 cfs Flooding on the Santa Cruz River expected out of banks south of W San Xavier Rd and extending south through Green Valley. Do not drive into flooded washes. Be aware of your surroundings. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: Flooding on the Santa Cruz River is expected out of bank. Roads near the river may be impassible. Isolated home flooding is possible.

45,000 cfs Flooding on the Santa Cruz River is out of banks south of Tucson extending through Green Valley. Flooded homes expected. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. Bridges may be closed. Avoid the area around the river.

What you need to know: Severe flooding on the Santa Cruz River south of Tucson. Flooded homes expected. Roads and bridges near and over the river likely to be impassible.



Lower Tanque Verde Creek Inundation Areas

ALERT Gage 2123

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Tanque Verde Creek. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Lower Tanque Verde Creek, based on computer modeling:

- Tanque Verde Creek breaks out of the channel on the south bank at Houghton Road around 12,000 cfs.
- Tanque Verde Creek breaks out on the north overbank onto Woodland Road around 13,000 cfs.
- Tanque Verde Creek breaks out of the channel at Tanque Verde Loop Road around 14,000 cfs.
- Hazardous driving conditions exist at the dip crossing of Tanque Verde Creek at Tanque Verde Loop Road and Wentworth Road whenever flows are present.

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

BE PREPARED

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

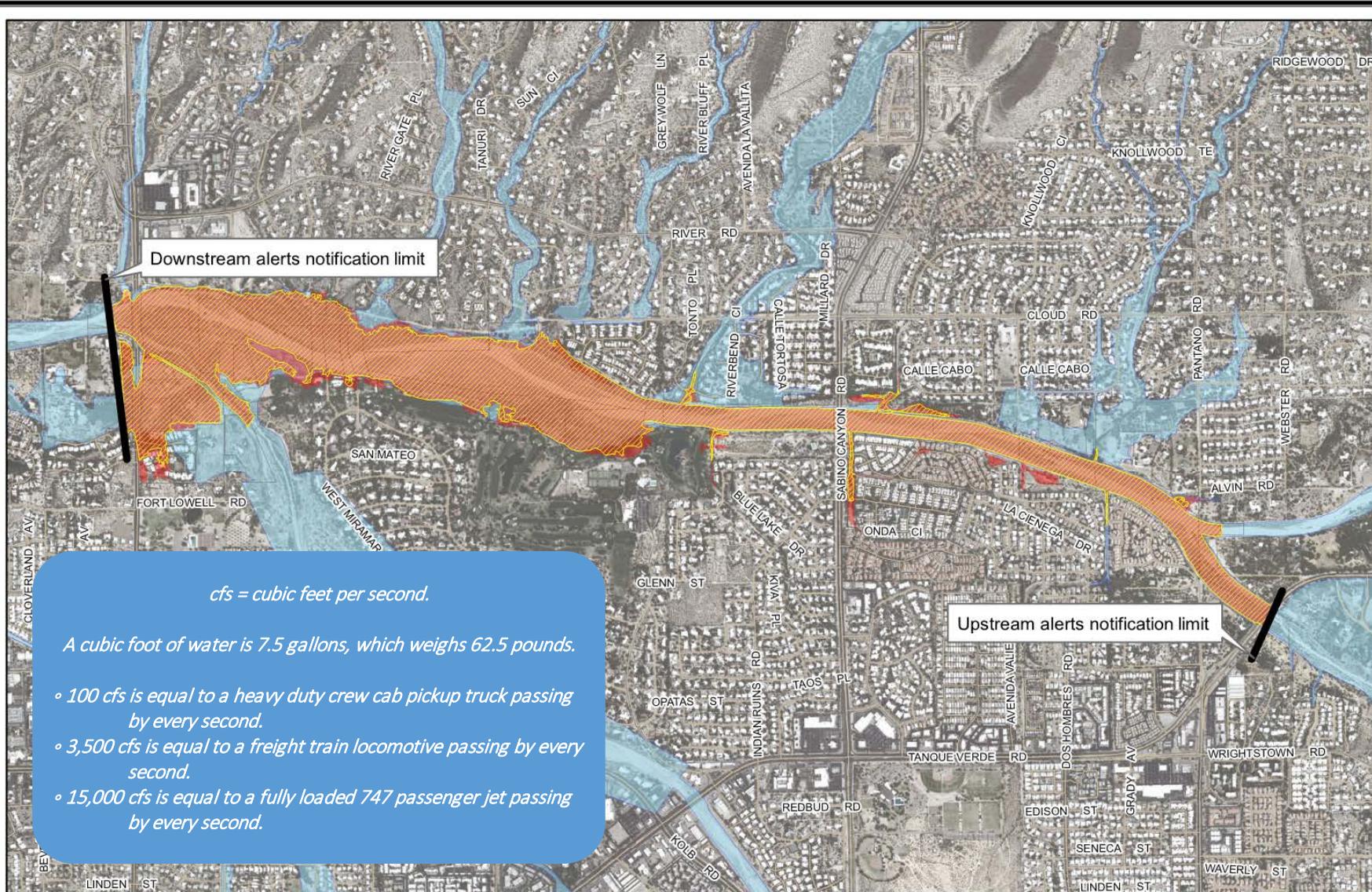
An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts.

Additional information and interactive maps can be found at:

<http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=465584>



Flood Alert Messages



cfs = cubic feet per second.

A cubic foot of water is 7.5 gallons, which weighs 62.5 pounds.

- 100 cfs is equal to a heavy duty crew cab pickup truck passing by every second.
- 3,500 cfs is equal to a freight train locomotive passing by every second.
- 15,000 cfs is equal to a fully loaded 747 passenger jet passing by every second.

<p>30,000 cfs</p>	<p>Flooding on the Tanque Verde Creek is expected out of bank. Flooded homes possible, especially south of the wash near Craycroft Road including The Gregory School, Castlehill Country Day School and E Placita Del Mesquite Rd. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.</p> <p>What you need to know: Homes south of the river near N Craycroft Rd may start to flood at around 30,000 cfs.</p>
<p>40,000 cfs</p>	<p>Not Applicable. A Flood Alert is not anticipated at this level.</p> <p>What you need to know: Homes south of the river near N Craycroft Rd may start to flood at around 30,000 cfs.</p>



Tanque Verde Creek (Lower)

100-year floodplain outside alert notification area

Flood Alert Areas

- 30,000 cfs*
- 40,000 cfs*

* cfs = cubic feet per second

Date: 5/21/2019
1 inch = 2,000 feet



Middle Tanque Verde Creek Inundation Areas

ALERT Gage 2109

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Tanque Verde Creek. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Since floods are dynamic, actual inundation areas may be different than these estimates shown. Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Middle Tanque Verde Creek, based on computer modeling:

- Tanque Verde Creek breaks out of the channel on the south bank at Houghton Road around 12,000 cfs.
- Tanque Verde Creek breaks out on the north overbank onto Woodland Road around 13,000 cfs.
- Tanque Verde Creek breaks out of the channel at Tanque Verde Loop Road around 14,000 cfs.
- Hazardous driving conditions exist at the dip crossing of Tanque Verde Creek at Tanque Verde Loop Road and Wentworth Road whenever flows are present.

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

BE PREPARED

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

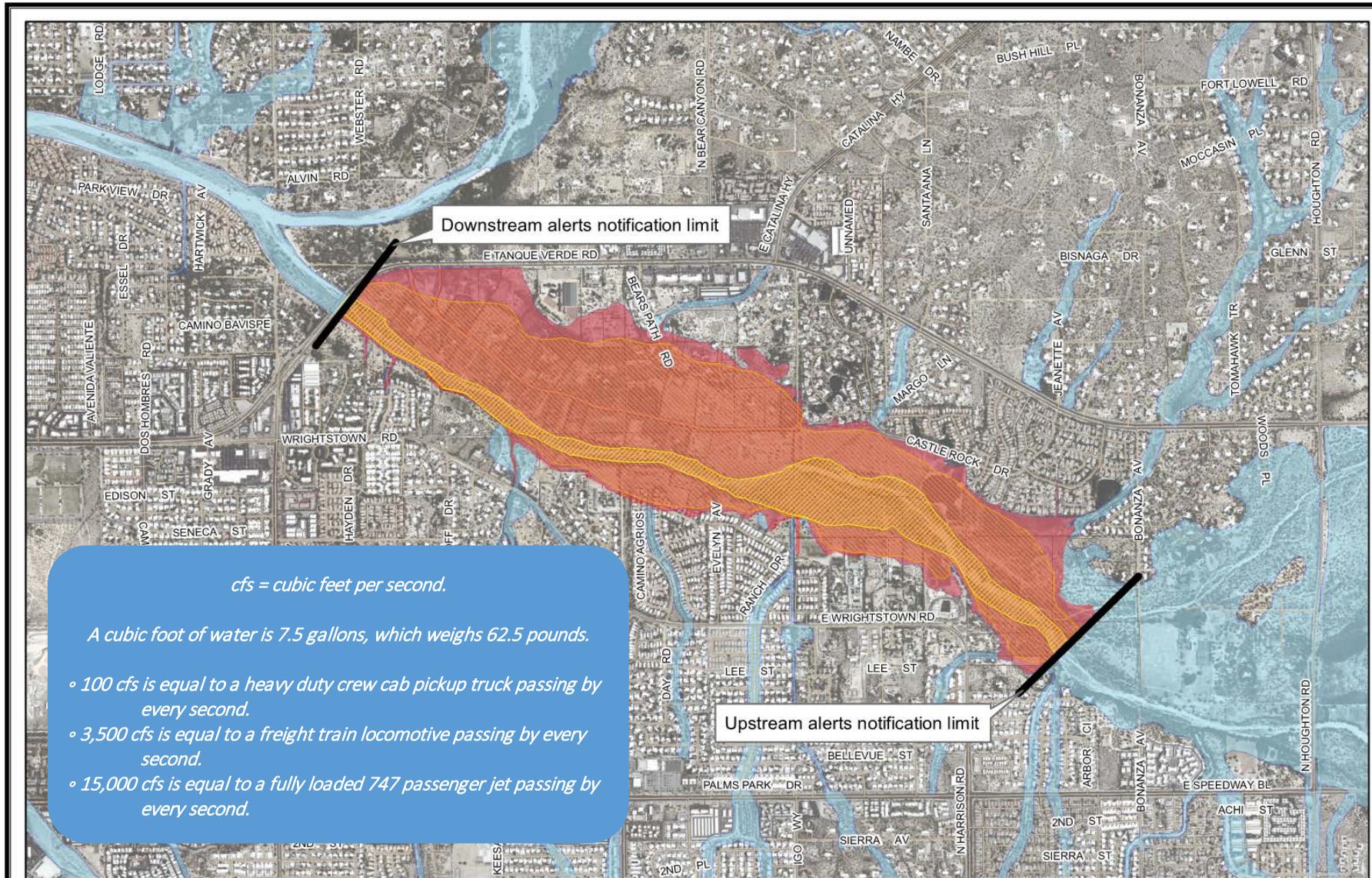
An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts.

Additional information and interactive maps can be found at:

<http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=464661>



Flood Alert Messages



15,400 cfs	<p>Not Applicable. A Flood Alert is not anticipated at this level.</p> <p>What you need to know: Flow in the wash will be hazardous at at-grade crossings.</p>
20,000 cfs	<p>Flooding on Tanque Verde Creek expected out of banks. Flooded homes possible, particularly along Woodland Rd. Expect hazardous road conditions. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.</p> <p>What you need to know: Flow may still be rising. Pay attention for future alerts and be prepared to take emergency action. Make sure your flood preparedness and evacuation supplies are handy.</p>
28,000 cfs	<p>Severe flooding is expected along Tanque Verde Creek. Flooded homes expected particularly along Woodland Rd. Expect hazardous road conditions. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.</p> <p>What you need to know: Homes near the wash likely to be flooded, especially along Woodland Road.</p>



Tanque Verde Creek (Middle)

100-year floodplain outside alert notification area

Flood Alert Areas

- 15,400 cfs*
- 20,000 cfs*
- 28,000 cfs*

* cfs = cubic feet per second



Date: 5/21/2019

1 inch = 2,000 feet



Upper Tanque Verde Creek Inundation Areas

ALERT Gage 2093

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Tanque Verde Creek. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Since floods are dynamic, actual inundation areas may be different than these estimates shown. Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Upper Tanque Verde Creek, based on computer modeling

- Tanque Verde Creek breaks out of the channel on the south bank at Houghton Road around 12,000 cfs.
- Tanque Verde Creek breaks out on the north overbank onto Woodland Road around 13,000 cfs.
- Tanque Verde Creek breaks out of the channel at Tanque Verde Loop Road around 14,000 cfs.
- The southern part of 49ers Subdivision is subject to overbank flooding from Tanque Verde Creek at around 14,000 cfs.
- Hazardous driving conditions exist at the dip crossing of Tanque Verde Creek at Tanque Verde Loop Road and Wentworth Road whenever flows are present.

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

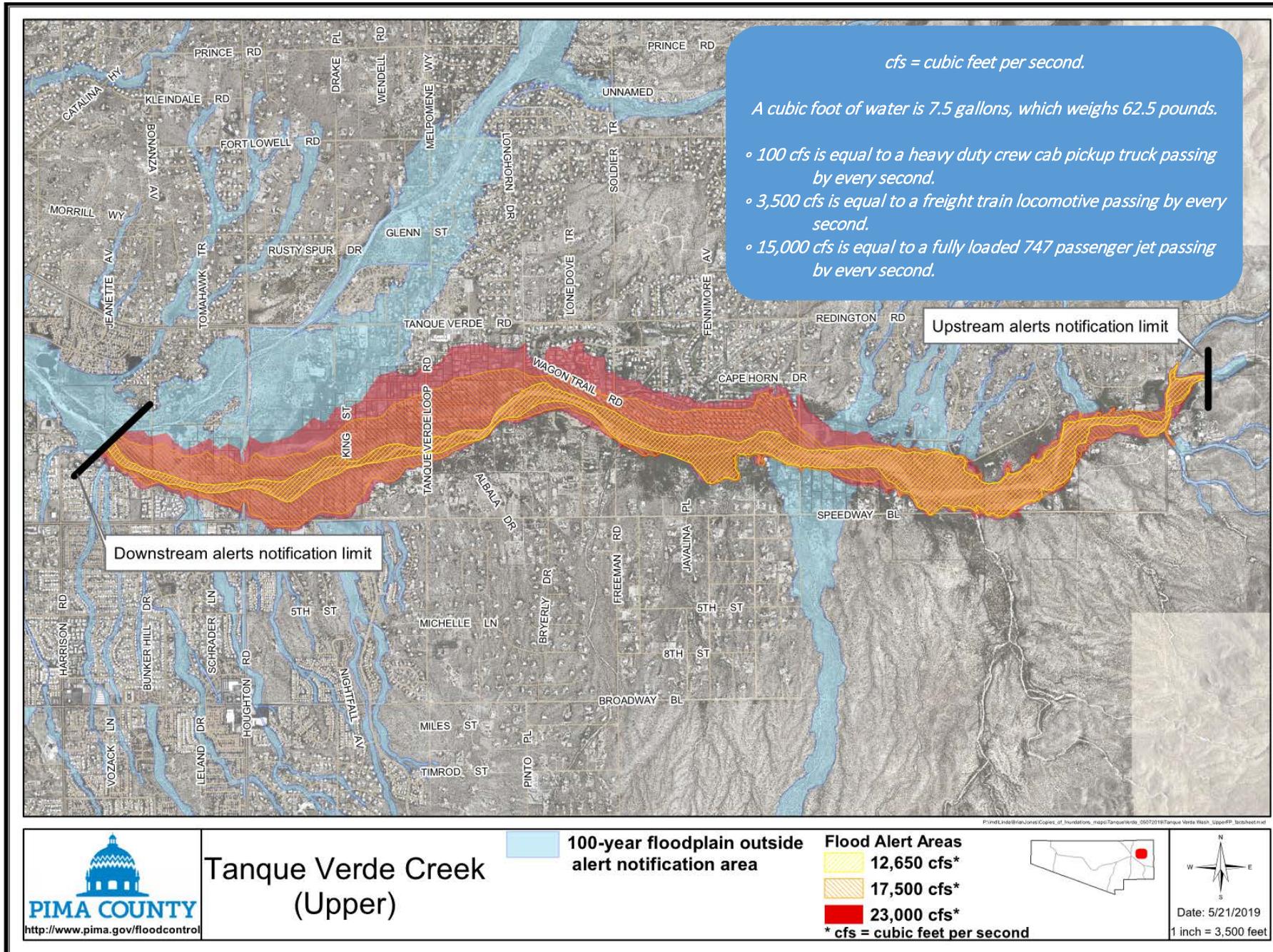
BE PREPARED

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts. Additional information and interactive maps can be found at: <http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=457327>



Flood Alert Messages



12,650 cfs Flooding on Tanque Verde Creek expected out of banks. Flooded homes possible. Expect hazardous road conditions. Be aware of your surroundings. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: Homes near the creek and the southern edge of 49ers subdivision at risk. Be prepared to protect your home from flooding and/or evacuate before roads become impassable. Gather valuables and flood preparedness supplies.

17,500 cfs Flooding on Tanque Verde Creek expected out of banks. Flooded homes expected, particularly in southern 49ers Country Club, near Houghton Road, Tanque Verde Loop Road, and the Woodland Road area. Expect hazardous road conditions. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. This message is from the Pima County Office of Emergency Management.

What you need to know: Flooding is expanding, mainly north, affecting more homes.

23,000 cfs Severe flooding is expected along Tanque Verde Wash. Flooded homes and hazardous road conditions are expected. Be prepared to activate your emergency response plan. If you are experiencing flooding and feel like you are in danger call 911. If emergency responders are present, follow their instructions. This message is from the Pima County Office of Emergency Management.

What you need to know: Flood waters expected to reach full extent of the inundation area shown on the map below. Exercise extreme caution if you evacuate. Road conditions will be hazardous.



Ventana Canyon Wash Inundation Areas

ALERT Gage 2173

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Ventana Canyon Wash. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Ventana Canyon Wash, based on computer modeling

- Ventana Canyon Wash is susceptible to flash floods. Waters will arrive quickly and rise quickly.

BE PREPARED

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

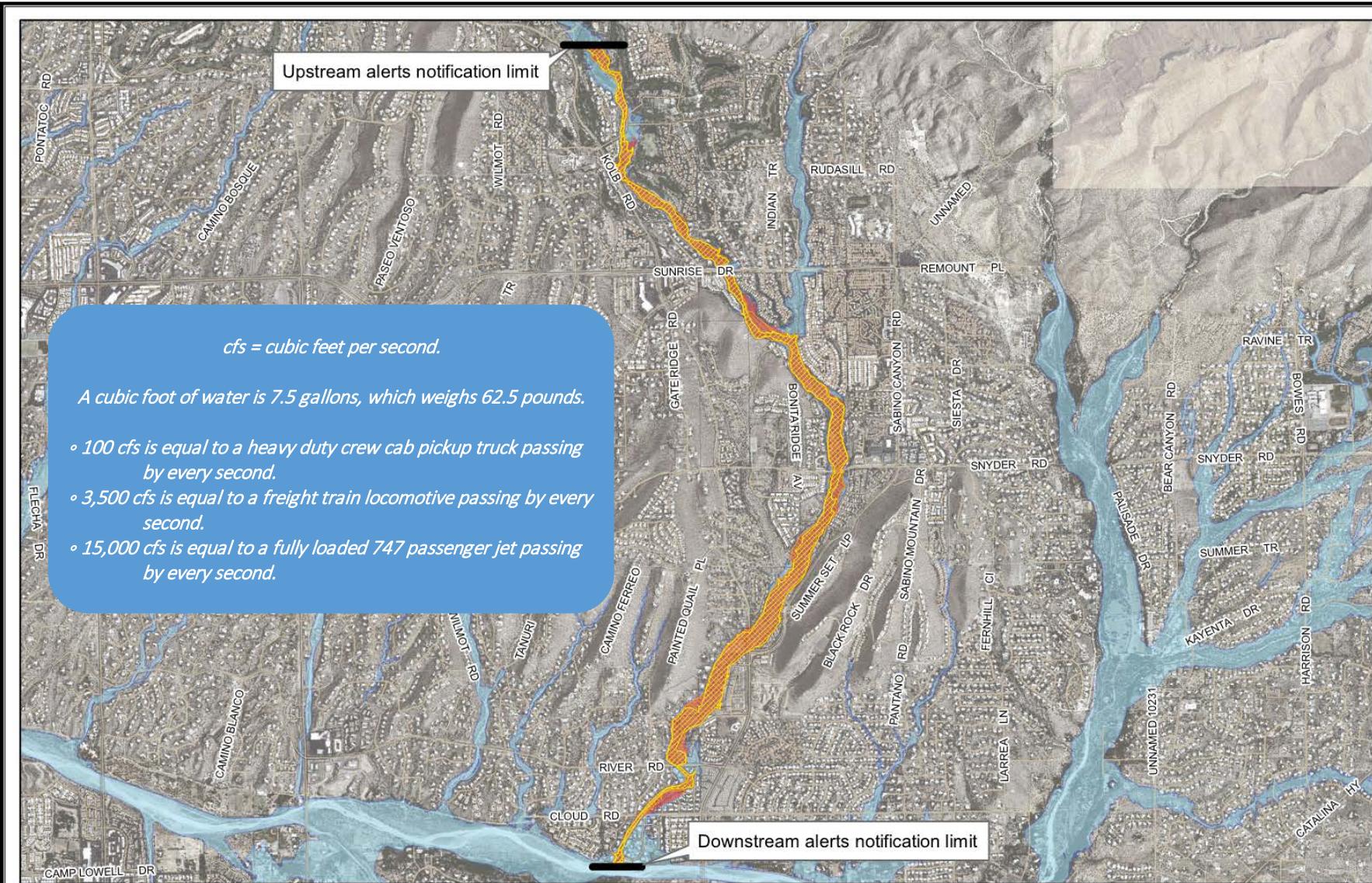
An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts.

Additional information and interactive maps can be found at:

<http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=468836>



Flood Alert Messages



cfs = cubic feet per second.

A cubic foot of water is 7.5 gallons, which weighs 62.5 pounds.

- 100 cfs is equal to a heavy duty crew cab pickup truck passing by every second.
- 3,500 cfs is equal to a freight train locomotive passing by every second.
- 15,000 cfs is equal to a fully loaded 747 passenger jet passing by every second.

2,075 cfs	Not Applicable. A Flood Alert is not anticipated at this level.
What you need to know: Flow in the wash will be hazardous at at-grade crossings.	
3,100 cfs	Not Applicable. A Flood Alert is not anticipated at this level.
What you need to know: Flow in the wash will be hazardous at at-grade crossings.	
4,340 cfs	<p>Flooding on the Ventana Canyon Wash expected out of banks. Home flooding possible. Do not cross flooded roads. If you are experiencing flooding and feel like you are in danger call 911. If emergency responders are present, follow their instructions. This message is from the Pima County Office of Emergency Management.</p> <p>What you need to know: Snyder Road likely impassable.</p>



Ventana Canyon Wash

100-year floodplain outside alert notification area

Flood Alert Areas
 2,075 cfs*
 3,100 cfs*
 4,340 cfs*
 * cfs = cubic feet per second

Date: 5/21/2019
1 inch = 3,500 feet



Agua Caliente Wash Inundation Areas

ALERT Gage 2253

Pima County Regional Flood Control District (District) operates a flood monitoring system that measures the depth and discharge (flow volume) of select watercourses, including Agua Caliente Wash. The District has mapped areas that may become flooded (inundation areas) at different flow levels to help determine when to send timely flood warning and safety messages to MyAlerts (sign up at myalerts.pima.gov/) subscribers in those areas. These messages can help subscribers that may be impacted by flooding take action to protect themselves, their loved ones, and their property. The mapped inundation areas are based on a flood discharge measured in cubic feet per second (cfs) at a specific stream gage. It's important to know that flood alerts will be sent at a lower discharge than the inundation area discharge to provide message recipients time to react. Since floods are dynamic, actual inundation areas may be different than these estimates shown.

MyAlerts

Opt in to MyAlerts to receive the messages on the back of this page. The messages are examples of what you can expect to receive when flows of the stated magnitude at the stream gage for this area are observed. Actual messages may vary slightly depending on conditions.

Floods in Pima County can develop quickly and there are many factors that affect the extent of flooding that are unpredictable. It is possible that you may receive a warning and the events described do not occur. It is also possible that flooding occurs in areas that did not get an alert. Even though these uncertainties exist, the District believes that it is better to alert people that a flood is coming, if possible. However, please remember that no message can guarantee your safety. It is your responsibility to use sound judgment in and around flood waters.

Additional Predicted Flood Hazard Information for Agua Caliente Wash, based on computer modeling

- Inundation of homes adjacent to the main watercourse may start at 5,000 cubic feet per second (cfs), recorded at Tanque Verde Road Gage (Gage 2203).
- Homes located on both sides of the wash north of the spur dike and south of Ft. Lowell Road may flood as flows approach 7,000 cfs. Flows greater than 7,000 cfs are likely to go around the spur dike.
- Homes immediately upstream of Fort Lowell Road are expected to flood as flows reach 13,000 cfs.
- This area contains numerous wash crossings that may become impassable, namely Milagrosa Lane, Soldier Trail, Limberlost Road, and Fort Lowell Road.
- Tanque Verde Road will flood during 100-year flood.

NOTE: The alerts provided err on the side of caution. It is possible that you may receive a warning and the events described do not occur. This is, in part, because floods in Pima County can develop so quickly that we have to anticipate possible events early in order to give the public reasonable time to react to the potential threat. In addition, there are many factors that affect the extent of flooding that are unpredictable. Flood damage may be lower or higher than what we expect. The District strives to provide the best possible information based upon the best available data and is not liable for errors. No message can guarantee your safety.

We will occasionally be wrong, but that does not mean that the safety messages should be ignored. It is your responsibility to use sound judgment in and around flood waters.

BE PREPARED

- Know your routes to high ground
- Establish a safe meeting spot for family members
- Prepare a kit with medications, water, snacks, first-aid supplies, flashlights and batteries
- Plan for evacuating pets
- Move valuables to high areas
- Make sure all family members know how to turn off electricity, gas, and water

An inundation map is attached (on reverse side) showing the estimated floodprone areas at the flood magnitudes used for MyAlerts. Additional information and interactive maps can be found at: <http://webcms.pima.gov/cms/one.aspx?portalId=169&pageId=457662>





MyAlerts.pima.gov

During an emergency, urgent messaging is effective only if it reaches you quickly. That's what Pima County's new mass notification system can do.

Our Everbridge system can quickly and reliably push emergency messages to numerous devices, making it the go-to tool for keeping the public informed. Everbridge subscribers receive emergency alerts and information when it counts.

How it works

Go to MyAlerts.pima.gov to create a profile and start receiving notifications. Subscribers can specify how they want to be notified.

Emergency notifications are issued based on geographic location. The more information included in a profile, the more specific the notifications will be. Messages could warn of potential safety hazards, law enforcement situations or any number of emergency situations.

Information provided is confidential and will not be shared.

To learn more, visit MyAlerts.pima.gov



**Signing up for emergency alerts is free, but standard text messaging fees from your cell carrier may apply.*



Emergency Response Plan Guide

There are a lot of great examples on the internet to help you create an emergency response plan. We'll highlight a few from respected sources and give you some flood specific tips for you to include in your plan for your home or business. Go to <http://www.pima.gov/BeFloodSafe/> for additional resources to help you create your plan. If you have questions about flooding in your area and safe driving routes, contact the Pima County Flood Control District or your city or town floodplain management office.

For Your Home

- Flood waters can arrive very quickly on desert washes, so it's important to have a "Go Kit" handy at all times in case you need to evacuate at a moment's notice. Keep water, shelf stable food, a flashlight, spare phone charger and other essentials in it at all times, then add things like medications to it when you have to evacuate.
- Don't forget to include pet supplies in your Go Kit.
- Establish a family rallying point well outside the floodplain. Make sure there is a safe travel route from your home, work, or school to that location so that everyone can get there.
- Establish a reliable person outside your immediate area for everyone to contact and relay messages through in case phone systems are down or someone's cellphone battery dies. Make sure everyone memorizes the email and phone number of your designated contact person.
- Have sandbags handy. You can also search "sandless sandbags" for other alternatives that may work better for you.

For Your Business

- Have a plan for closing the business down in an emergency.
- Keep a list of employee phone numbers and let them know when not to come to work due to flooding.
- Make sure employees establish safe travel routes to and from work in times of flooding.
- Your plan should include being prepared for employees remaining at work until it is safe to leave.
- Have sandbags handy. You can also search "sandless sandbags" for other alternatives that may work better for you.

Medical Care, Assisted Living, Child Care, Utilities, or other Critical Facilities

There are special considerations for medical facilities, assisted living facilities, schools, day care facilities, or other locations considered to be vital in an emergency, like utilities providers.

- If your facility includes individuals who will not be self-sufficient in an emergency (patients, elderly, children), make sure to discuss your plan with your regulator agency.
- Utility companies should have a continuity of operations plan.

Internet Resources

The District recommends looking at each of the resources below and picking one that works best for you.

Ready.gov – <https://www.ready.gov/make-a-plan>

Red Cross – <https://www.redcross.org/get-help/how-to-prepare-for-emergencies/make-a-plan.html>

FEMA – <https://www.fema.gov/media-library/assets/documents/89518>