

KANSAS

FLOODPLAIN MANAGEMENT

TIPS



June 2019

Don't Fence Me In

Privacy fences are a popular project for homeowners across Kansas. An apocryphal saying quoted by Robert Frost in his classic poem "Mending Wall" states that "good fences make good neighbors." However, improperly built fences in the floodplain can push water onto nearby properties and disrupt neighborly relationships.

The process of installing a fence represents a "man-made change to improved or unimproved real estate" covered by the definition of "development" in 44 Code of Federal Regulations (CFR) 59.1. Therefore, it requires a floodplain development permit. If you are using the Kansas Dept. of Agriculture-Division of Water Resources (KDA-DWR) sample permit, check the "Other" box and use the blank space to briefly describe the fence project.

Since state permit requirements are distinct from local floodplain permit requirements, check with KDA-DWR engineer Janelle Phillips at Janelle.phillips@ks.gov or 785-564-6656 to determine whether or not a state permit would also be required. As a rule, a KDA-DWR permit is required for any privacy fence within a floodplain, but KDA-DWR does not require permits for chain link or barbed wire fence. All activity requiring local floodplain development permitting should have a written determination from KDA-DWR prior to issuing a permit.

To limit the amount of debris in floodwaters, fences in the floodplain must be adequately anchored to resist flotation and be constructed of flood-resistant materials. However, they do not to be elevated in the manner of a structure.

Fences in the floodway can be an especially challenging issue. Property owners often ask if they require a "no-rise" certification in addition to local and state permits. The Federal Emergency Management Agency (FEMA) 480 manual states that "Barbed wire farm fences that will be pushed over or ripped out early in the flood may

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Above: This privacy fence in the Special Flood Hazard Area (SFHA) needs a local floodplain permit and potentially a state floodplain permit.



Above: This fence became an obstacle to the conveyance of water.

Don't Fence Me In (cont.)

also be permitted without a [no-rise] certification; however, larger more massive fences could be an obstruction to flood flows and may require an engineering study and certification.” For instance, a chain-link fence may seem easily permeable to the flow of water. However, just as the air filter in a car engine or air conditioner can quickly become clogged in dusty conditions, a chain-link fence can easily trap debris during a flood. This creates an impromptu dam that can cause a damaging increase in upstream water surface elevations. Therefore, even chain-link fences can only be constructed in the floodway if an engineer's encroachment analysis provides a “no-rise” certification.



Above: Fences, like sheds, often appear in the floodplain without proper permits. It is a good idea to publicize your community's permitting requirements to avoid surprises.

Another aspect of fences to keep in mind is the potential for privacy fences to block views of violations. It is important to be sure that property owners don't take advantage of hidden areas to build non-compliant structures. However, it is also important to avoid violating property owners' Fourth Amendment right to be protected from unreasonable searches. One way to streamline the inspection process is to stipulate consent to inspection as a condition of having a permit or variance approved.

ASFPM Conference

From May 20-23, the KDA-DWR Floodplain team attended the Association of State Floodplain Managers (ASFPM) 2019 annual conference in Cleveland, OH. At the conference, team members learned about the latest developments in the field and discussed successful Kansas programs with mapping and mitigation leaders from across the country. Presentation sessions covered themes including Risk Communication, Warning Systems, Floodplain Management, Mitigation, Mapping, Modeling, Stormwater, Dams/Levees, Natural Functions of Floodplains, Technology, and Post-Disaster Operations. Speakers included experts such as David Maurstad, the Federal Emergency Management Agency Deputy Associate Administrator for Insurance and Mitigation and the Chief Executive of the National Flood Insurance Program (NFIP). Conference participants also visited stormwater management, stream restoration, and hazard mitigation infrastructure sites during Technical Tours.

State NFIP Coordinator Steve Samuelson delivered a presentation titled “First Steps to Correcting Violations.” He also moderated a presentation session regarding “Floodplain Management Policy and Regulations” and co-moderated a National Policy Discussion regarding changes to flood insurance rating methods. Additionally, Floodplain Mapping Coordinator Tara Lanzrath presented “Community Technical Assistance: A Model for Mitigation Action,” and NFIP Specialist Martin Koch presented “How State Assistance with GIS Helps Communities Say ‘Yes’ to CRS.” Next year's conference will be held in Fort Worth, TX. Local floodplain managers are encouraged to attend; for more information, visit <https://www.floods.org/>



Above: This “green infrastructure” site was featured on an ASFPM Conference Technical Tour. It helps absorb stormwater and prevent combined sewer overflows.

Flood Preparations

The best time to make preparations for a flood is well in advance of the event. Sign up for your community's emergency notification system, and identify sources of weather information such as local media, weather radio, and smartphone apps with weather radar displays.

Flood insurance policies typically take 30 days from the date of purchase to go into effect. However, FEMA has established two basic exemptions based on common scenarios. There is no waiting period if the initial purchase of flood insurance is linked to the issuance of a loan. The waiting period is only 1 day if the initial purchase of flood insurance is made within 13 months of a revision or update of a Flood Insurance Rate Map for the community,

An additional step to protect your property is shutting off utilities. Learn where the appropriate switches and valves are located and if any special tools are required ahead of time. This also helps protect first responders from gas leaks and live wires. Water and electricity don't mix—electrocution is the second-leading cause of fatalities during flood incidents.

To avoid being trapped in a hazardous area, create an evacuation plan ahead of time. Figure out where you can stay on short notice, where you would meet, and how you would travel if high water blocks primary routes. Also be sure to have an evacuation kit ready with materials such as a first aid kit, canned food and bottled water, cash, waterproof boots and gloves, and electronic supplies such as a flashlight or cell phone charger. An N95 or better breathing mask with a flexible metal nosepiece is a cheap way to help protect your health when re-entering flooded buildings. Potentially-hazardous mold can grow in as little as 48 hours. Keep in mind that these safety procedures are just as important for you and your family as they are for your citizens.

New Floodplain Faces

Our office is proud to welcome two new team members. Both plan to attend the 2019 Kansas Association for Floodplain Management (KAFM) conference, so feel free to introduce yourself if you meet them.

Floodplain Mapping Specialist Joanna Rohlf is a Certified Floodplain Manager (CFM) and a certified Geographic Information Systems Professional (GISP). She started her career at Garmin International, and waded into the floodplain world more than 10 years ago at the engineering firm Wood (formerly known as AMEC). At Wood, Joanna worked on GIS and communication tasks for KDA-DWR floodplain mapping projects. She brings a vast reservoir of experience-based knowledge to her new state government position and was ready to “hit the ground running” from day one! Joanna holds a B.S. in Geography from Kansas State University and a M.A. in Environmental Studies, with a focus on Public Administration, from the University of Illinois.

Floodplain Mapping Specialist William (Bill) Pace is the most recent hire to the program. He is currently working on responding to BFE requests, editing stream lines for Coordinated Needs Management System (CNMS) updates, and with learning the ins and outs of floodplain mapping and floodplain management. Prior to his employment with KDA-DWR, he worked as a contracted GIS Technician for a natural gas company in Ohio and worked as an Environmental Protection Specialist focusing on air quality monitoring for the Government of the District of Columbia. He holds a Master's degree in Geography from East Carolina University and a Bachelors in meteorology from the University of North Carolina at Charlotte.



Above: Your emergency kit should include copies of important documents, such as insurance policies. Printing can be difficult if electric service has been interrupted by flood damage.



Training Opportunities

The Floodplain Management Program will host the following training sessions throughout Kansas. If you are interested in any of the no-cost training opportunities, please contact Martin Koch at 785-296-0854 or Steve Samuelson at 785-296-4622. A training registration form is in this newsletter.

Basics of the National Flood Insurance Program

This class is for officials responsible for administering their local floodplain management ordinance. The focus is on the National Flood Insurance Program (NFIP) and concepts of floodplain management, maps and studies, ordinance administration, and the relationship between floodplain management and flood insurance. Provides 3.5 hours Continuing Education Credit (CEC) toward the Certified Floodplain Manager (CFM) credential. Limited to 20 participants.

- **S. Hutchinson—Tuesday, June 4th, 2019 from 8:30 a.m.—12:30 p.m.**
- **Lawrence—KAFM Conference (visit www.kafm.org for details)**

Violations and Enforcement

This free class is intended for community officials responsible for enforcing floodplain management regulations. The course will focus on various types of violations, steps toward correcting violations, and enforcement procedures. Provides 3.5 hours Continuing Education Credit (CEC) toward the Certified Floodplain Manager (CFM) credential. Limited to 20 participants.

- **Ellinwood—Thursday, July 11th, 2019 from 8:30 a.m.—12:30 p.m.**

Floodplain Management—'The Things They Don't Teach You' (NEW)

This free class will feature four 45-minute sessions with a variety of important technical and policy-oriented topics. Floodplain managers with a range of responsibilities can learn about "Record-Keeping," "How to Fill Out a Permit," "KDA-DWR Online Resources/BFE Portal," and "Managing Local Politics." Provides 3.5 hours Continuing Education Credit (CEC) toward the Certified Floodplain Manager (CFM) credential. Limited to 20 participants.

- **Erie—Tuesday, August 13th, 2019 from 8:30 a.m.—12:30 p.m.**

Floodplain Design, Construction, and Impacts on Flood Insurance

This free 1-hour class provides insight into the importance of proper foundation flood vents and compliance with Building Codes and FEMA standards and how they can effectively prevent major damage to buildings due to flooding. The course will review applicable codes pertaining to foundation flood venting, including a complete review of FEMA's Technical Bulletin TB-1. Offered in collaboration with "Floodproofing.com" (an ASFPMA/AIA/CES Registered Provider). Provides 1 hour of Continuing Education Credit (CEC) toward the Certified Floodplain Manager (CFM) credential and includes a free lunch.

- **Valley Center—Wednesday, August 28th, 2019 from 12:00 p.m.—1:00 p.m.**

Find more information about floodplain management from Kansas Department of Agriculture
Division of Water Resources on line at:
<http://agriculture.ks.gov/divisions-programs/dwr/floodplain>

Email saves money on postage. The electronic newsletter also has links and the photos are in color. If you are getting this newsletter by postal mail and would prefer email please contact Martin Koch at Martin.koch@ks.gov.

Mark your calendar. The Kansas Association for Floodplain Management 2019 conference will be September 4 and 5 in Lawrence. More information will be posted at the website: www.kafm.org. Registration will be done through a link on the website. If you have questions about registration please contact Jon Bristor, Chairman, at 620-326-2207.

Kansas Department of Agriculture
Division of Water Resources
Floodplain Program
Training Registration Form

Name _____

Title _____

Organization _____

Address _____

City _____ State _____ Zip _____

Telephone _____ Fax _____

E-mail _____

Name, date and location of training you will attend _____

*Please share this invitation with anyone else who could benefit from the training.

**Classroom locations will be sent to registered participants one week before the training.

Please mail or fax your registration to:

KANSAS DEPARTMENT OF AGRICULTURE
FLOODPLAIN MANAGEMENT PROGRAM

6531 SE Forbes Ave., Suite B

TOPEKA, KS 66619

Fax to: 785-296-8298

For questions about training, please contact Martin Koch by email at martin.koch@ks.gov or by phone at 785-296-0854, or contact Steve Samuelson by email at steve.samuelson@ks.gov or by phone at 785-296-4622.

Please help us keep our records current. If the name that appears on this newsletter is for an individual no longer with your organization, please call 785-296-4622, or email steve.samuelson@ks.gov to report the change.

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Kansas Department of Agriculture
Division of Water Resources
Topeka Field Office
Floodplain Management
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ASFPM 2020 National Conference in Fort Worth

The 2019 Association of State Floodplain Managers National Conference will be June 7-11, 2020 in Fort Worth, Texas. This conference is an excellent opportunity for floodplain managers to receive training on mapping technologies, regulations, permitting, outreach and best practices. It is estimated the conference will be attended by more than 1,000 floodplain management professionals. This conference is great chance to meet people for networking and to learn the latest news in floodplain management. Visit www.floods.org for more information.

KDA/DWR Water Structures Floodplain Program Staff

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