# Division of Water

Leveraging Partnerships
Collaboration & Cooperation

Kenneth Smith, PE Interim Director Division of Water



2021 Water Summit
Regional Planning Forum



# **DNR FOCAL POINTS**

CUSTOMER SERVICE

FISCAL RESPONSIBILITY

COMMUNICATION

DIVERSITY & SUCCESSION PLANNING

Personal Growth

FLATTER ORGANIZATION

ENHANCE THE DNR BRAND

Division of Water Summary Annual Report July 1, 2020 – June 30, 2021

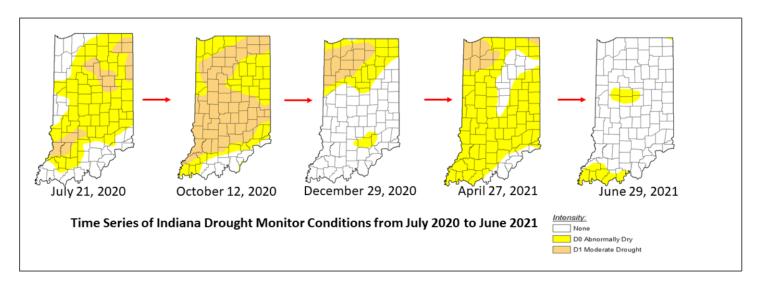


THE DIVISION OF WATER'S MISSION

SERVE AS STEWARDS OF INDIANA'S
SURFACE AND GROUND WATER RESOURCES
FOR THE BENEFIT OF
PRESENT AND FUTURE GENERATIONS.



# STATE OF THE WATER RESOURCE



# STATE OF FLUVIAL EROSION HAZARDS

The Indiana Fluvial Erosion Hazard (FEH) Initiative (a multi-agency, public, private, and academia partnership) continues to respond to reports of increasing stream and river erosion around the state. The Division of Water and the IUPUI Center for Earth and Environmental Science (CEES) are contracted together in support of this awareness and documentation project.

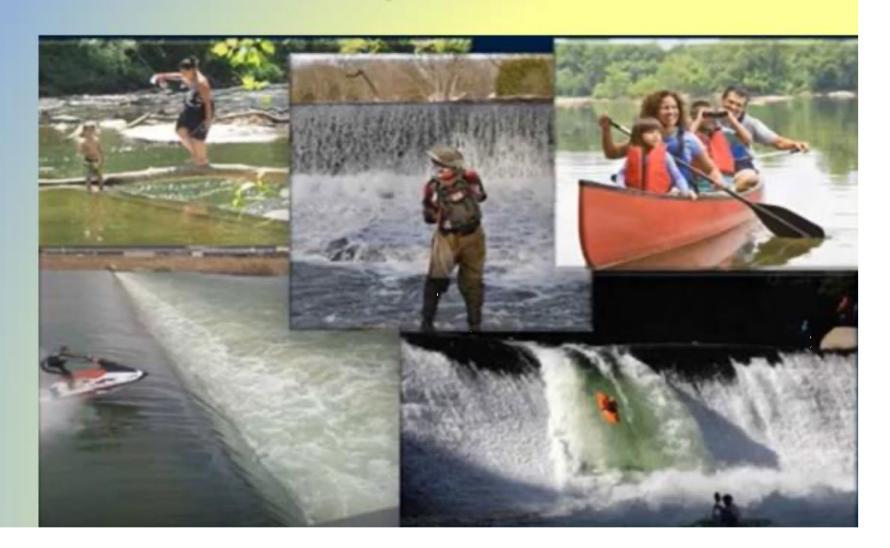


# BRIEF HIGHLIGHT OF 2020-2021 SUCCESSES

Initiated the newly enacted low head dam program
Creation and NRC approval of the Low Head Dam Roster, which can now be found on the NRC
Nonrule Policy Document page at https://www.in.gov/nrc/nonrule-policy-documents-npd/
Creation of the internal Water Awareness Task Team (WATT)
Participation in the Drought Monitoring Advisory Committee and creation of weekly drought
monitoring reports
Participation in the Central Indiana Water study
Technically reviewed and processed more than 1,000 applications for construction activities
along the shorelines of public freshwater lakes and in the floodways of streams.
For the public, lake associations, local floodplain administrators, and conservation officers,
conducted over a dozen virtual training sessions hosted by staff on various topics
For public and private dam owners, dam safety officials, and emergency responders,
participated in the 2021 Statewide "Dam Information Resources and Training" Seminar (DIRT



# The Changing View Dams are Becoming - Public Destinations













# INDIANA SILVER JACKETS LOW HEAD DAM TEAM



# **Diverse Partners**

- Dam Owners
- Many Agencies
- 1st Responders
- Habitat Restoration
- Public & Private
   Professionals & Groups
- Recreation Groups
- Survivors
- Victim's Families
- Non-Profits
- Private Donors
- Educators & Students
- Academia



# Hidden Dangers and Public Safety at Low-head Dams

BRUCE A TSCHANTZ, PE KENNETH R. WRIGHT, PE

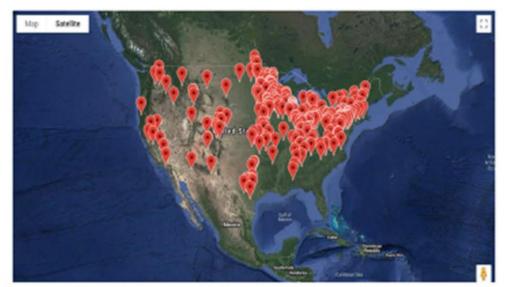
Low head drawn, a.k.s. "killer drawn" or "downing machines," often mente a refer hannel as the public became of their shelley so may of the need for policies, numberly, regulations, and invition make during and to reprince a flow country responsibility to posters the public from property densign and hose of life to event of amount fallow. Furty mise many and all fished spinetachering corporabiles for date safety have program to regular the

# Research



## Locations of Fatalities at Submerged Hydraulic Jumps

The interactive distabase was designed and built by Ed Kern, a masters student at BYC. Toka Gopmon, a former BVU graduate student, control at \$250 handson, and according to book than 500 findation, recorded. There are many store locations that need to we are entiring to obtain public contributions. If there are any false or imagersprine entire please report them to Life East. We have received significant contributions from several encarse, including Dr. Bruce Tucknetz who has supplied the data be has been red daspen or leve head dams, and Charlier Wallerdge from the American Walterwave Association who has given us the data that they have been collecting at association who have

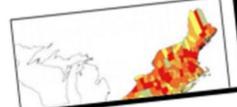


# What We Know (and Don't Know) **About Low-head Dams**

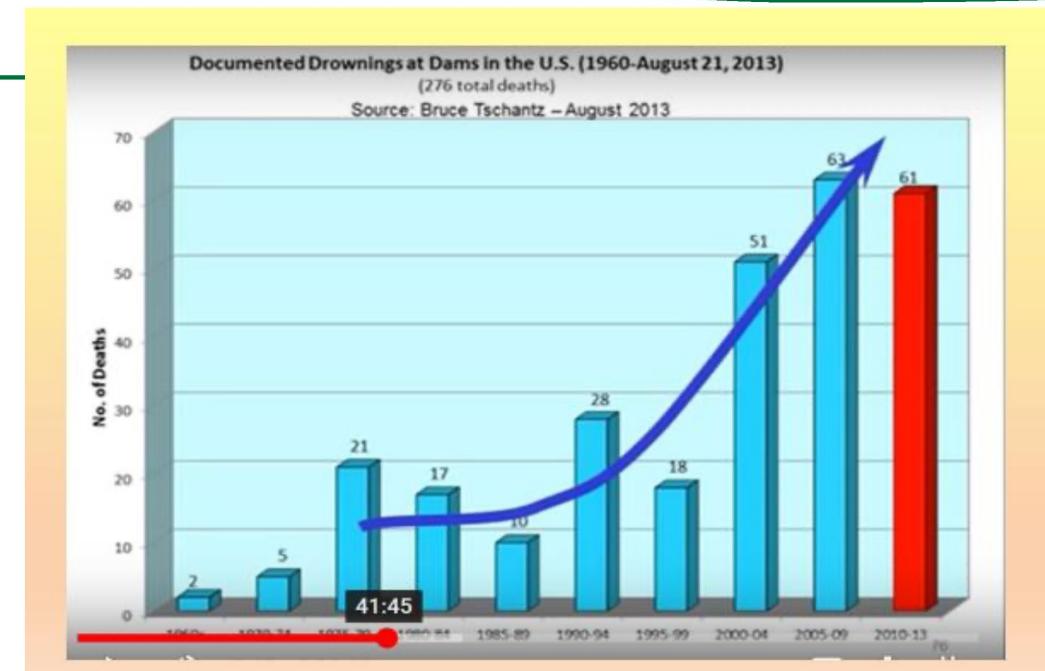
**BRUCE TSCHANTZ** 

### INTRODUCTION

Low-head, or run of the cives, types of duties - usually spanning the contractions on stream - can prove a safety hazard to the public became of their capability to produce dangerous recirculating current, large hydrachic forces, and other hazardous conditions milliones to trap and drawn victims immediately downstream from the overflowing water. Theoreus ho of these dams, mostly of concess or masonry construction and ranging up to about fidure for in









# Outreach

- PBS stations throughout the country
- Universities
- Conferences
- Businesses
- Professional Organizations
- Magazines
- TV News Coverage



United Come The Killer to Dur Klyere - Printer

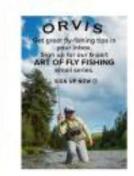
Video: Over, Under, Gone: The Killer in Our Rivers

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policities. The main stratification has become drawn with we are duting, and it is that find of confidence that satisfiant gave

### Share on Social





### Sevis Fly Flahing Gase

- e Notes
- w. Phy Steelle





# NEW - IC 14-27-7.3 Low Head Dams

- Driven by Local Champion
- DNR ROSTER of Regulated LHDs
- Owners' Warning Standards
- Oners' yearly proof of a Million Dollar Liability Insurance
- Person may not access LHD or within 50 feet, wade, boat, or swim,
   Class C infraction





# **Indiana News**

Dam Removals Completed in 2020

Martinsville – IPL/AEP Dam Starke Co. – Hook Ditch Muncie – 3 dams removed or modified

Scheduled for 2021

Crawfordsville – Sugar Creek Logansport – 9th and 10th St Dams Silver Creek – Clark County



