



Town of Portland (Coon Creek)

August 28, 2018 – Flood Event



Jersey Valley – Dam Breach – (Kickapoo)

Table 1. Small Flood Control Dams Installed by NRCS Programs *

1948 - 1995

State	Pilots	RC&D	PL-566	PL-534	Total
AL		7	100		107
AK					0
AR	24	2	144		170
AZ	2	2	21		25
CA			10		10
co	32	1	77		110
CT		1	30		31
DE					0
FL			9		9
GA	12	10	218	117	357
н			6		6
ID			3		3
IL	11		53		64
IN		2	118		120
IA	28	33	659	426	1146
KS	38	16	714		768
KY	16	1	178		195
LA			36		36
ME			16		16
MD			16		16
MA		1	28		29
MI			13		13
MN	8	5	29		42
MS	3	5	183	388	579
МО	26	25	531		582
MT		1	18		19

State	Pilots	RC&D	PL-566	PL-534	Total						
NE NV NH	93 2 8 10 15	18 1 2 5 5	541 8 24 19 73 48 72 35 42		652 8 24 20 77 53 85 45						
						NJ					
						NM NY NC ND OH					
57											
OK							6	9	965	1114	2094
OR							7 2 5	2 21 1	5 81 4 77 32 124		5 86 0 4 0 86 55
PA PB											
						PR					
RI											
SC SD											
	TN										
TX	60	43	695	1293	2091						
UT			28 4		28 4						
VT											
VA	3		102	28	133						
WA	7	4	6 74	78	6 163						
wv											
WI	1	1	83		86						
WY		2	11		13						
TOTAL	420	221	8257	2444	10450						

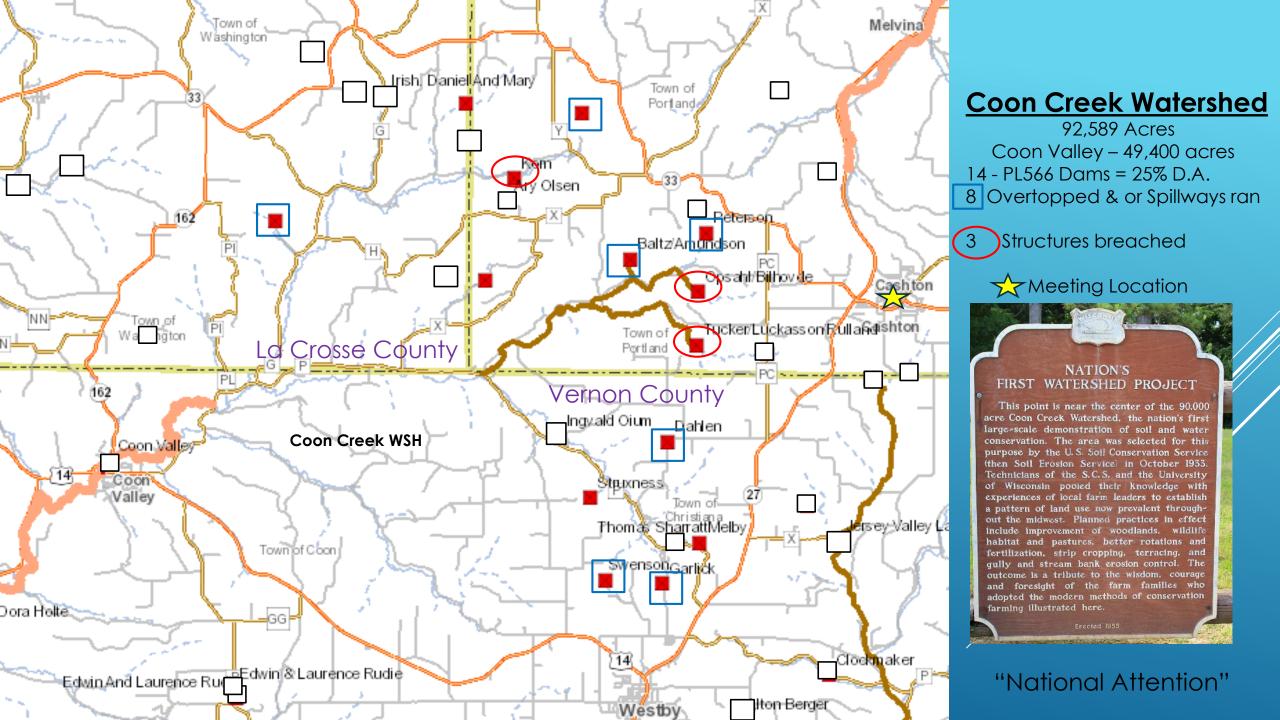
Wisconsin - 88

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Monroe County

8-PL566 Structures Coon Creek – 7 Kickapoo - 1









THE FUTURE:

- 1.) RE-BUILD DAMS?
- 2.) RE-BUILD TO NEW STANDARDS?
- 3.) NEW WATERSHED APPROACH?
- 4.) DEVELOP CC WATERSHED PLAN?



Damage Assessment - NRCS

- 1. Trip Report Inventory/walk-over complete
- 2. Eng. Investigation Total Station survey complete
- 3. Geology on-going
- 4. Failure Analysis February report
- 5. Funding Eligibility on-going
- 6. Reclassify CC 23 & 25 on-going





Funding - (3 dam repairs)

- 1. Federal (FEMA, NRCS??) 75%
- 2. State (DNR) 12.5%
- 3. County (LCD) 12.5%
- 4. Non Agency Sources?

1.) CC31 - Mashak Dam

PL566 Dams with Approximate Hydraulic Shadows Breeched Dams in Red Map Key NEBRASKA AVE NAPOLEON AVE Coon Creek Structure #23 HYDRAULIC SHADOW City-Village-Town Boundar PRIVATE RD OARLOCK AVE OCTAGON AVE 0 0.25 0.5 Monroe County LIO ROGNSTAD RIDGE RD Date: 9/26/2018

Year Built: 1960-61
D.A. 371 acres
Dam ht. 34.5 ft.
Storage 46 ac. ft.
2019 Repair – County Funding



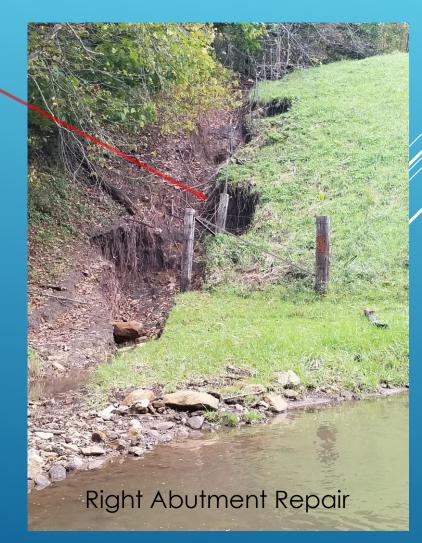


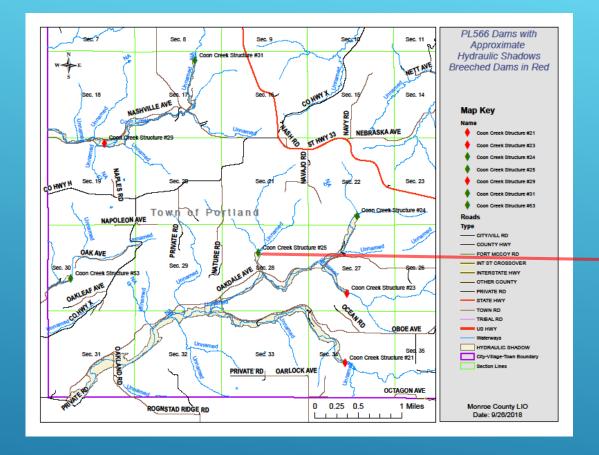
2.)CC24 - Peterson Dam

2019 Repair - NRCS/County Funding Emergency Watershed Protection (EWP)









3.) CC25 - Baltz/Amundson Dam

2019 Repair - NRCS/County Funding



Emergency/Auxiliary Spillway Repair



LEFT ABUTMENT BREACH - 28,000 CU.YD

CC21 - LUCKASSON DAM

Year Built: 1962-63 D.A. 2,022 acres Dam ht. 40 ft.

Storage 271 ac. ft.

Combined spillway capacity 655 c.f.s.





Left Abutment Breach -17,000 cu.yds.

CC23 - Blihovde Dam

Year Built: 1960-61

D.A. 909 acres

Dam ht. 36.5 ft.

Storage 96 ac. ft.

Combined spillway capacity 623 c.f.s.



PL566 Dams with Approximate Hydraulic Shadows Breeched Dams in Red Map Key NEBRASKA AVE NAPOLEON AVE TO W. n of Portland Coon Creek Structure #53 Coon Creek Structure #23 OBOE AVE Sec. 35 Coon Creek Structure #21 PRIVATE RD OARLOCK AVE OCTAGON AVE 0 0.25 0.5 Monroe County LIO Date: 9/26/2018 ROGNSTAD RIDGE RD

CC29 - Korn Dam

Year Built: 1960-61 D.A. 1,843 acres Dam ht. 39 ft. Storage 175 ac. ft. Combined spillway capacity 635 c.f.s





Left Abutment Breach - 25,000 cu.yds.

Auxiliary Spillway



2019 Action Plan

4.) Head cut stabilization, debris removal & free principle pipe outlets on CC21, CC23, & CC29

Funding = NRCS/County







Pipe Outlet

5.) Reclassify Coon Creek 23, & 25 High Hazard Dams

- Meet DNR-333 (100 year principle, 1,000 year total)
- Meet NRCS PMP (Probable Max. Precipitation)
- Options Rebuild dams to new standard or remove buildings?





6.) Coon Creek Watershed Plan - 2019

- NRCS Funding
- Outsource
- Big Picture

WATERSHED WORK PLAN

COON CREEK WATERSHED

La Crosse, Monroe and Vernon Counties, Wisconsin



April 1958

What has Changed in 61 years?

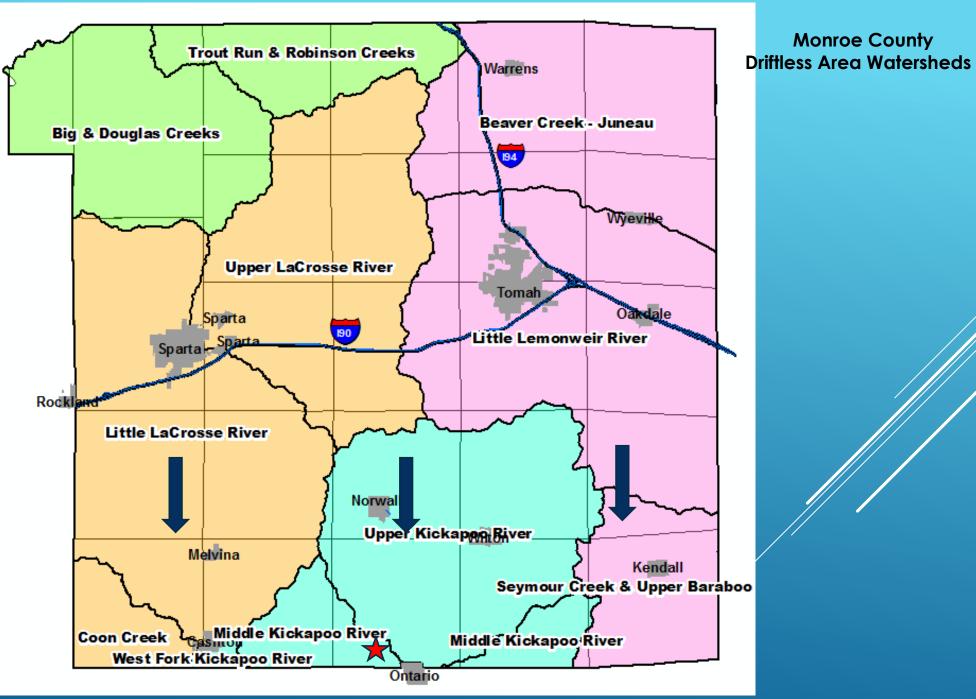
Land use

- 60% landowners/farmers implement conservation measures
- Agriculture rotation/tillage/livestock
- Technology farming practices, conservation practices design, science, etc.
- Forest parcelization/high grading/access roads
- Development private and commercial
- County and Town infrastructure
- Population
- Flood Plain roads, structures, cropping, etc.
- Base Flow/Springs -



Ave. Annual Rainfall = 33" April 3rd - Dec. 31, 2018 **★** 60.79"





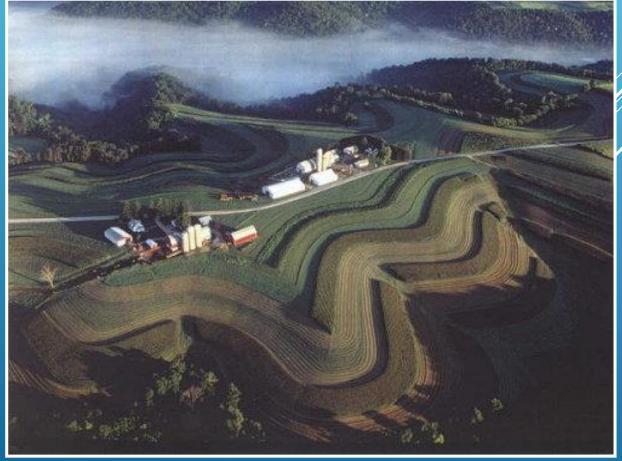
Monroe County





Flood <u>Control</u> – Manage precipitation Impact on the landscape & flood risk!!

Re-Active vs. Pro-Active

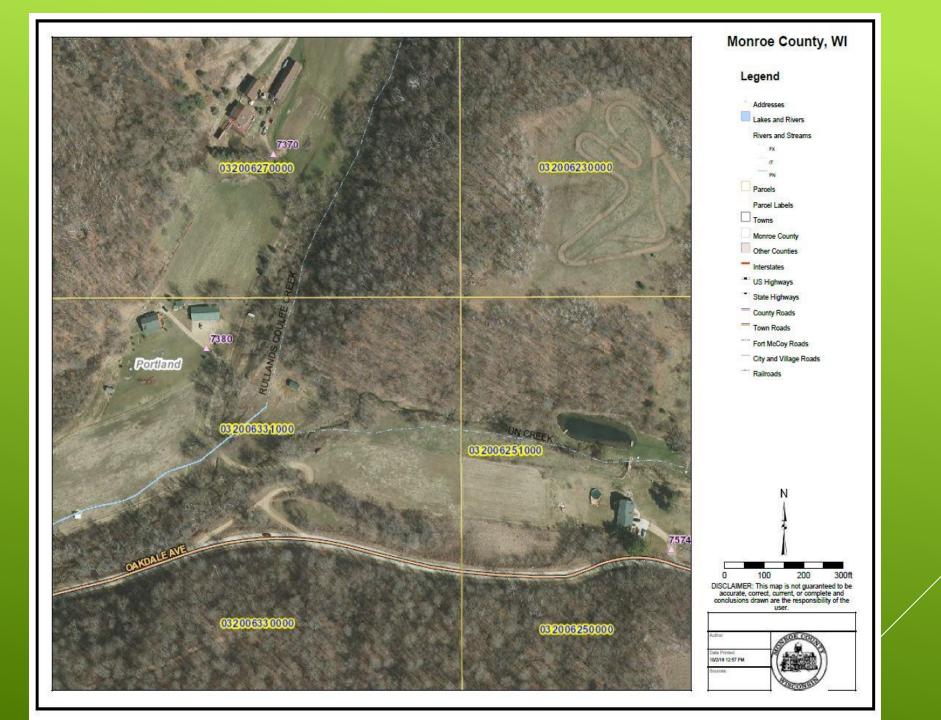


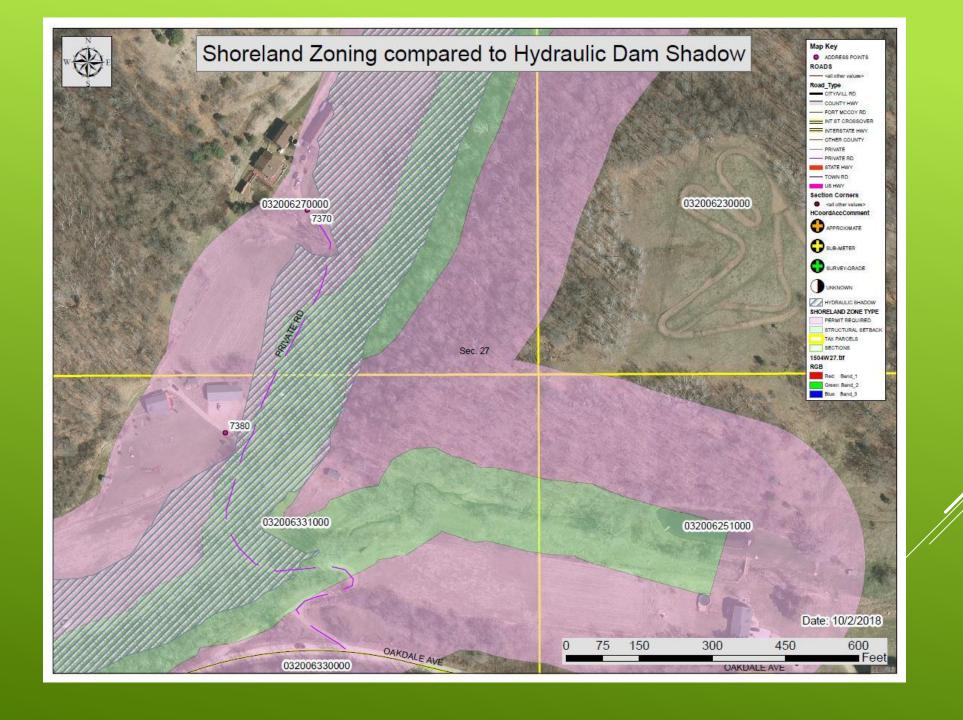


MONROE COUNTY ZONING DEPARTMENT

SHORELAND VS FLOOD SHADOW SETBACK

- ▶ 1. Shoreland 75' minimum setback from water body
- ▶ 2. Flood shadow of breach during "1% Chance of Flooding" event (100yr flood)





CITIZEN QUESTIONS AND CONCERNS?