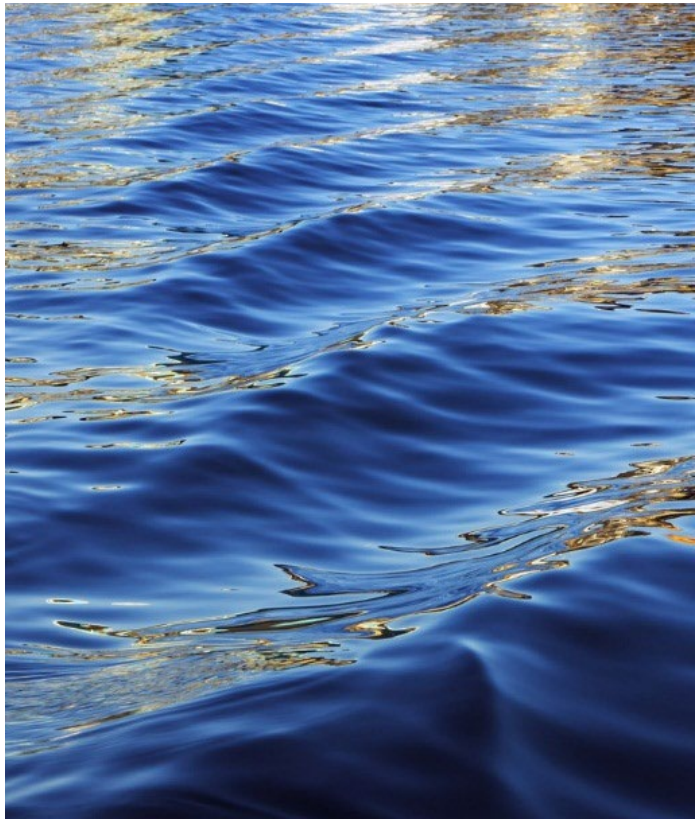
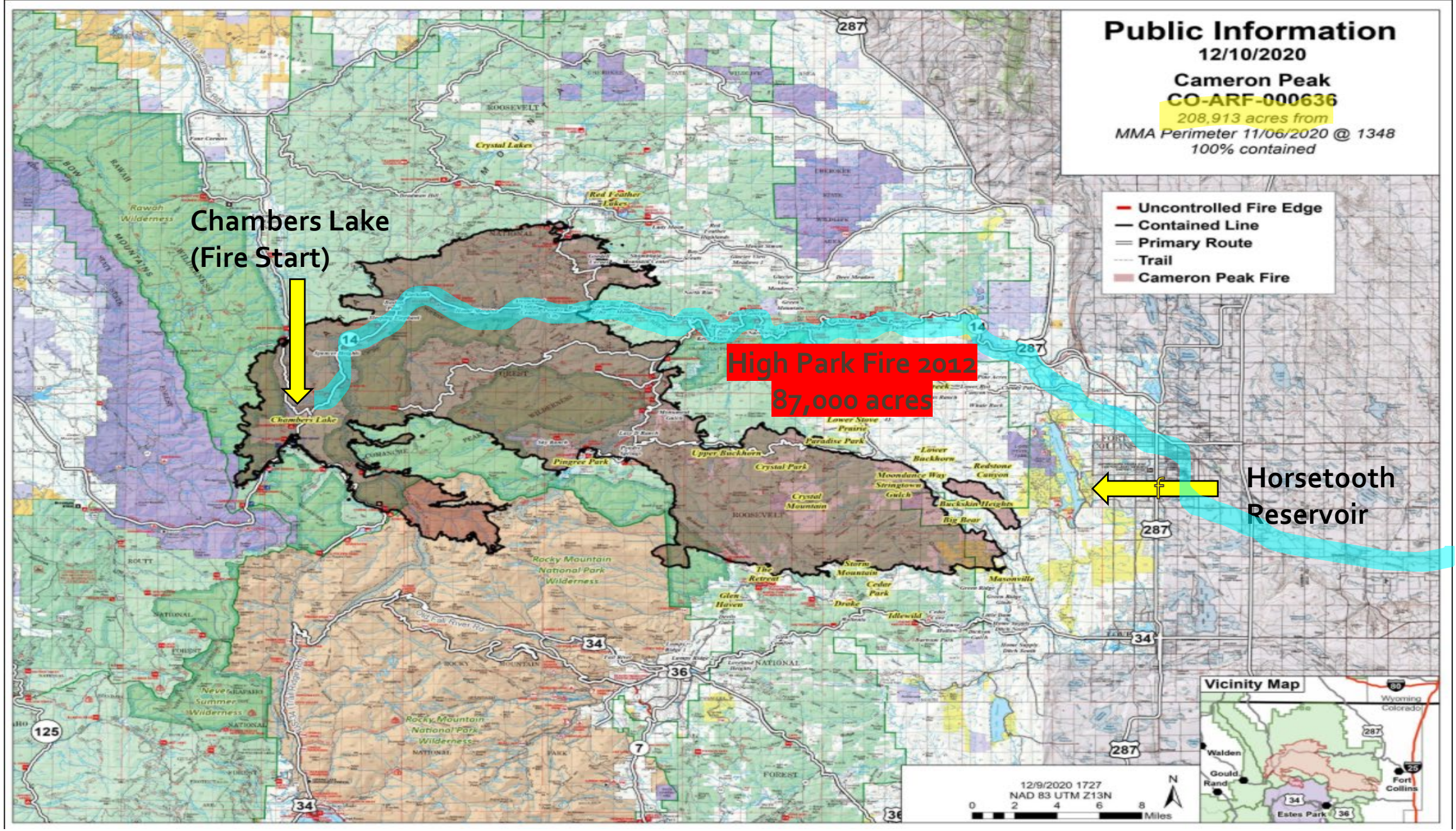
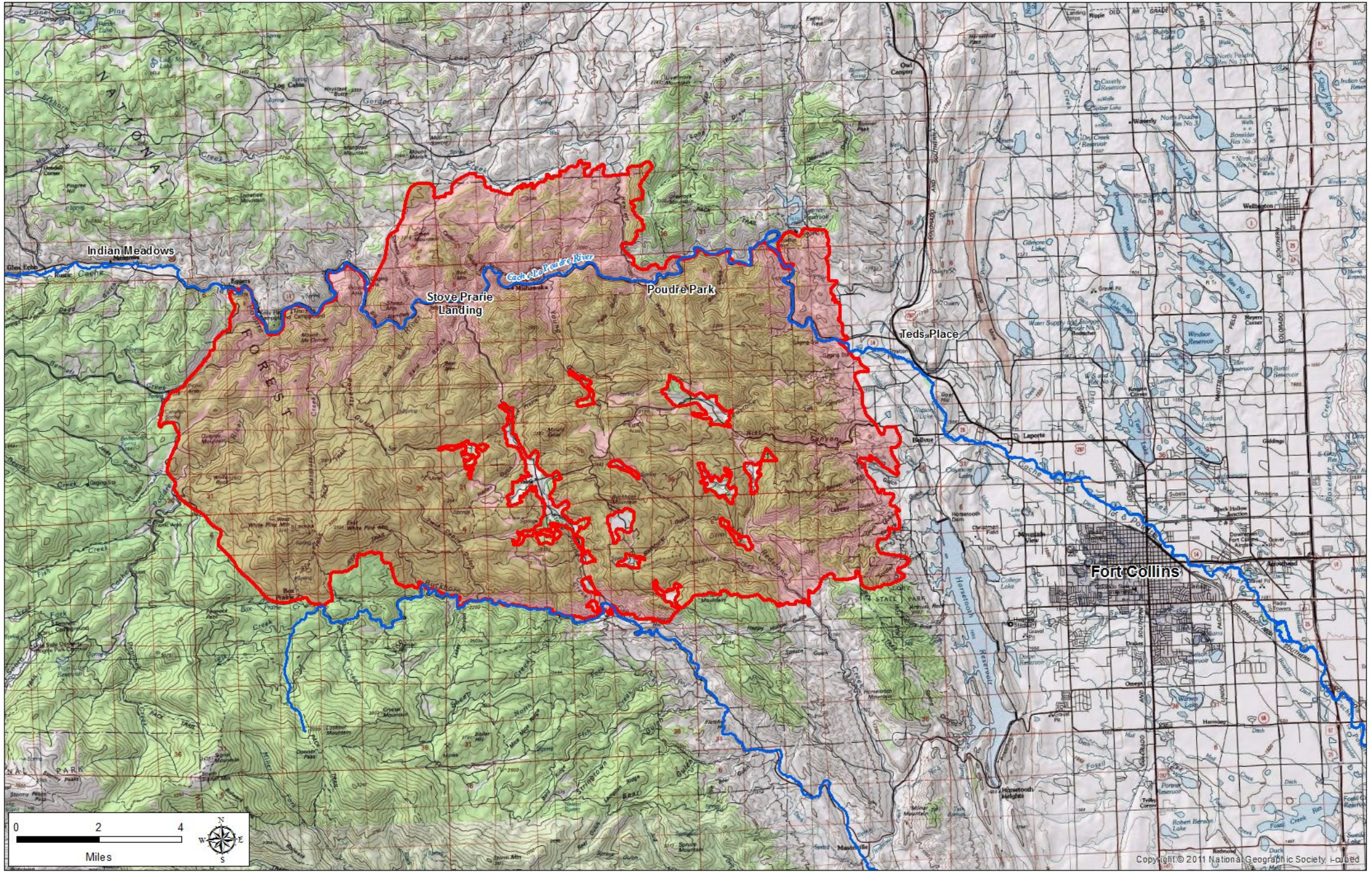
Fire Impacts:
North Poudre Irrigation Company

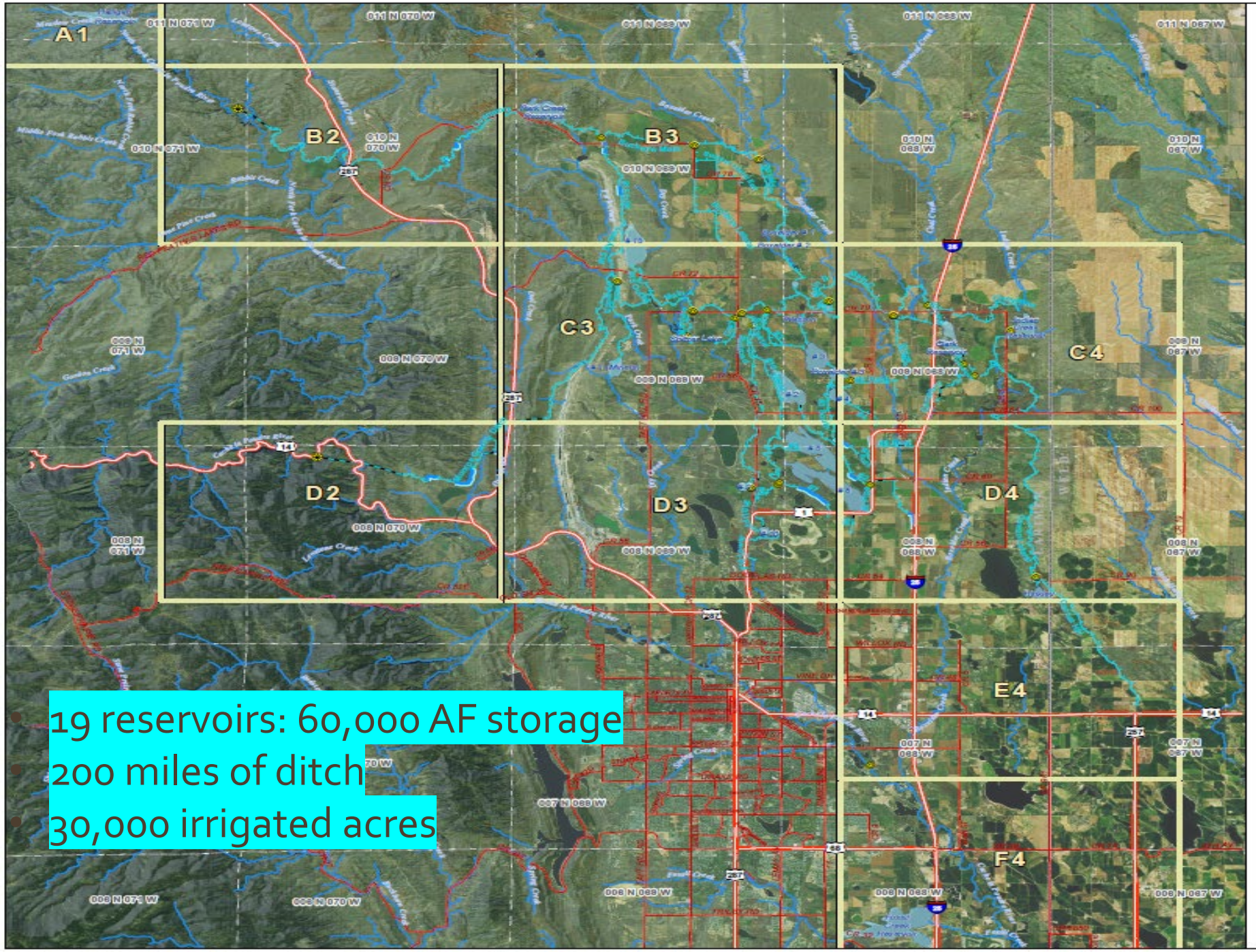




Map Via: inciweb.com


Indian Meadows
Stove Prarie Landing
Poudre Park
Teds Place
Fort Collins
Cache La Poudre River
0
2
4
Miles
N
E
S
W
Copyright © 2011 National Geographic Society, i-cubed

Smoke from Cameron Peak fire over Fort Collins
View from NPIC Fossil Creek Reservoir



- 19 reservoirs: 60,000 AF storage
- 200 miles of ditch
- 30,000 irrigated acres

North Poudre Irrigation Company 2005 Feasibility Study

Attachment 1 Irrigation System Map Gazetteer

0 1 2 4 6 8

Miles

1:120,000

Projection: Transverse Mercator
Horizontal Datum: NAD 27

Coordinate System: UTM
Zone: 13

The data portrayed in this gazetteer was obtained in part from the South Platte Decision Support System, developed by the Colorado Water Conservation Board and the Division of Water Resources

Map Gazetteer Legend

- Main Diversion Structures
- Decreed Irrigation Wells >50gpm From Colorado's HydroBase Database

NPIC Headgates
- Headgate
- Turnout
- Abandoned Turnout

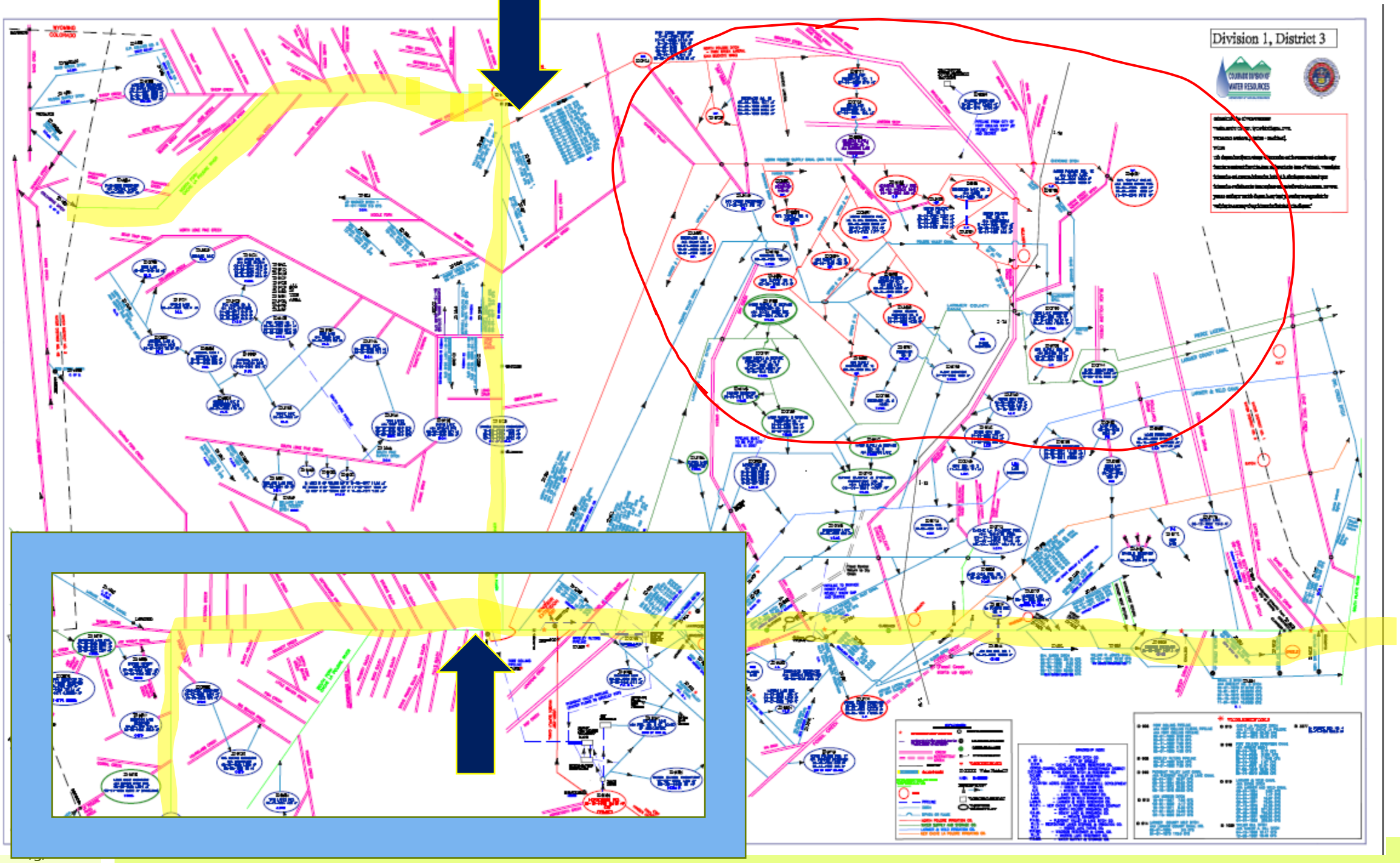
NPIC Canals and Laterals
- Pipeline
- Concrete Lined
- Rock Lined
- Unlined
- Streams

- Highways
- Roads
- NPIC Reservoirs

2001 Irrigated Parcels
- Parcels Not Irrigated by NPIC Turnout
- Parcels Irrigated by Ground Water Only
- All Other Parcels Color Coded by NPIC Turnout
- Township & Range
- Sections
- Counties

Prepared By:

Riverside Technology, inc.
Water Resources Engineering and Consulting


Division 1, District 3

Joe Wright Res (FC)

Chambers (WSS)

Long Draw (WSS)

N Fk CLP

Munroe Canal

Munroe Diversion

Cache La Poudre

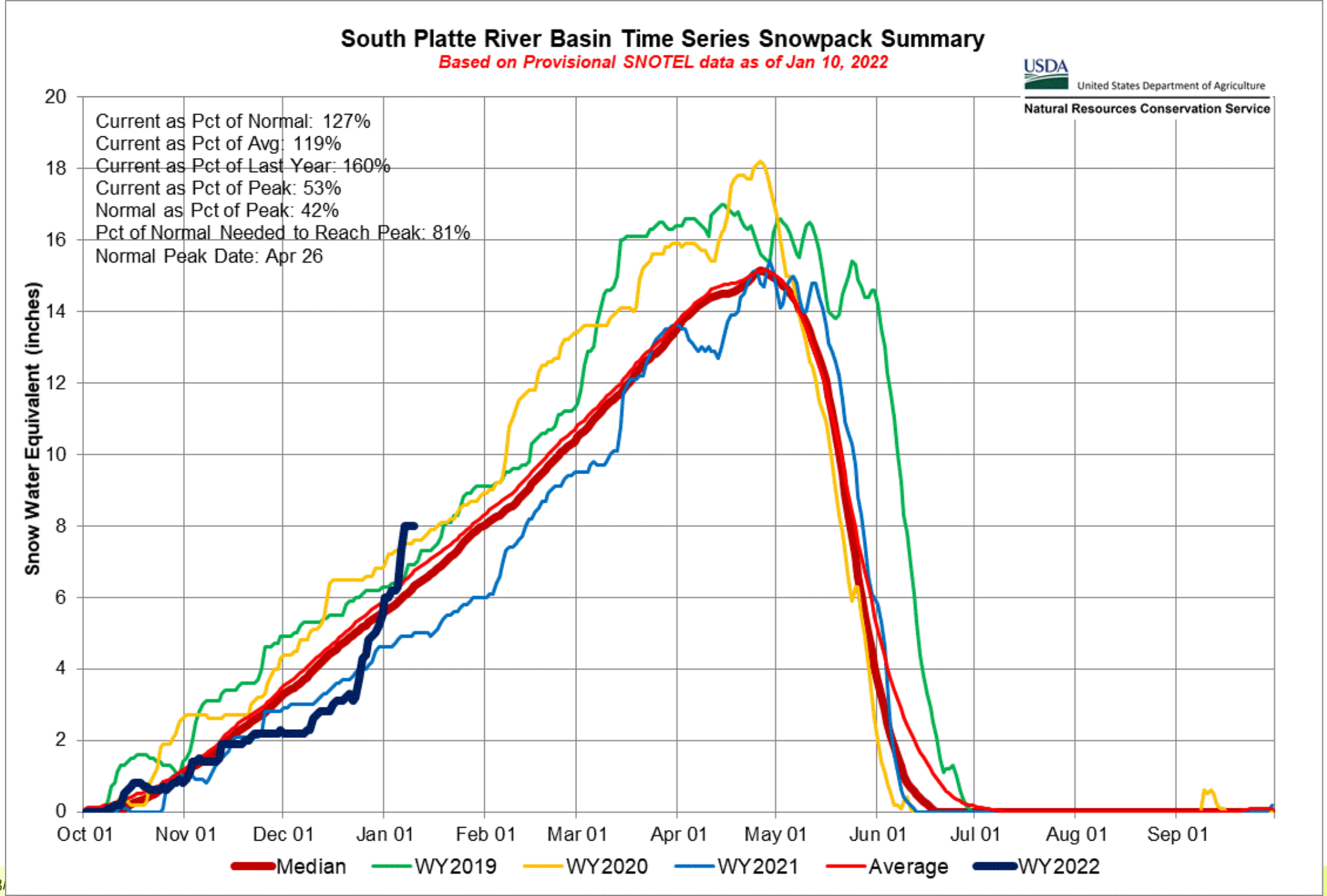
WTP

Hansen Canal

Horsetooth (Northern)

AG vs MU Water

- NPIC: Mutual ditch company 10,000 shares
  - Majority municipal owned
- NPIC Allocation per Share
  - **AG**: Agricultural Water (storage + direct flow decrees)
  - **MU**: Multiple Use Water (Horsetooth CBT)
    - Example: 3 AF MU + 2.5 AF AG = 5.5 AF allocation per share
- Impacts
  - Municipal shareholders can only utilize MU water
    - (ie 3 MU / 5.5 AF total allocation)
  - Farms can use MU + AG, **but** many do not own enough shares to operate off their allocation
  - Good water year municipals will rent AG + some MU
    - (ie 2.5 AG + 1 MU rented to agricultural users)
  - Bad years (ie fire impact / drought), municipals will hold onto all or more MU


South Platte River Basin Time Series Snowpack Summary
Based on Provisional SNOTEL data as of Jan 10, 2022
USDA
United States Department of Agriculture
Natural Resources Conservation Service
Current as Pct of Normal: 127%
Current as Pct of Avg: 119%
Current as Pct of Last Year: 160%
Current as Pct of Peak: 53%
Normal as Pct of Peak: 42%
Pct of Normal Needed to Reach Peak: 81%
Normal Peak Date: Apr 26
Snow Water Equivalent (inches)
0
2
4
6
8
10
12
14
16
18
20
Oct 01
Nov 01
Dec 01
Jan 01
Feb 01
Mar 01
Apr 01
May 01
Jun 01
Jul 01
Aug 01
Sep 01
Median
WY2019
WY2020
WY2021
Average
WY2022

Poudre Canyon Slope Stabilization Summer 2020

Flash Flood Debris

Munroe Diversion
Gateway Natural Area
14
14
14
Poudre Canyon Rd
Daybreak Criations Alpacas

Summary: Impacts of Uncertainty

- Active Fire Impacts
  - Infrastructure access / operation
  - Decreased municipal use of river water
  - Debris / silting
- Post Fire Impacts
  - Faster run off period
  - Flash flooding
    - Infrastructure risk
    - River debris
  - Decreased municipal use of river water
    - Less rental water
  - Silting