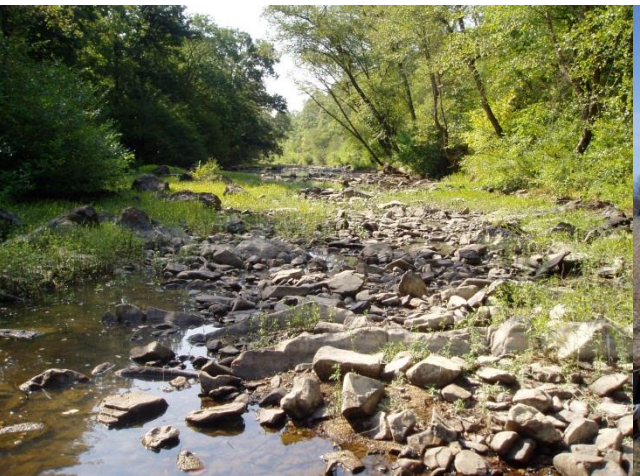


Oklahoma Nonpoint Source Management Plan Update: 2013

Oklahoma Conservation Commission

September 24, 2013



Review of July 2013 meeting

- Reviewed Dec. 2012 meeting
  - Discussed new 319 Guidance from EPA
  - Reviewed reasons to update plan
  - Discussed funding limitations
- Reviewed suggested changes to current NPS Watershed Prioritization Ranking Criteria
  - Sent ballot to all group members for input on changes
- Discussed changing from HUC 11 watershed to HUC 12
  - Working to develop map with all necessary layers

Topics for Today

- Discuss long- and short-term goals
- Review HUC 12 map
- Discuss ballot results and changes that will be made to NPS Watershed Prioritization Ranking Criteria
- Next steps

NPS Management Plan Goals (from 2006 Update)

- Long-term Goal of NPS Management Plan
  - *"By 2015, the State of Oklahoma's NPS Program will establish a State-approved Watershed Based Plan, TMDL, or implementation plan (unless the original basis for listing a waterbody is no longer valid) to restore and maintain beneficial uses in all watersheds identified as impacted by NPS pollution in the 1998 303(d) List. The 1998 303(d) List identifies 8,156 miles of stream and 291,293 acres of lake area as impaired or fully supporting but threatened. By 2020, the State will have implemented actions in each of those watersheds to move towards attainment and maintenance of beneficial uses in waterbodies listed on the 1998 303(d) list as threatened or impaired by NPS pollution."*

NPS Management Plan Goals (from 2012 Addendum)

- By 2020, the State of Oklahoma's NPS Program will establish a State-approved Watershed Restoration Action Strategy, TMDL, or implementation plan (unless the original basis for listing a waterbody is no longer valid) to restore and maintain beneficial uses in all watersheds identified as impacted by NPS pollution in the 1998 303(d) List (Appendix A). The 1998 303(d) List identifies 8,156 miles of stream and 291,293 acres of lake area as impaired or fully supporting but threatened. By 2040, the State will attain and maintain beneficial uses in waterbodies listed on the 1998 303(d) list as threatened or impaired solely by NPS pollution.

Short-Term Goal 1

- Oklahoma will follow the priorities established by the Unified Watershed Assessment, TMDL schedule, and the NPS Working Group per schedules in Table 1 to reduce NPS loading in priority watersheds with accepted plans by the percentages shown therein. This effort will address 487 stream miles (five percent of the 303(d) listed streams and one percent of the state's total stream miles) and affect loadings to 79,312 acres of lakes (14% of the impaired lake acres and twelve percent of the state's total lake acres).

Short-Term Goal 2

- The OCC will identify pollutant sources within watersheds monitored by the NPS Rotating Basin Monitoring Program. These potential sources of impairment will be included in the OCC's submission of data for the State's integrated Report.

Short-Term Goal 3

- Oklahoma will work to introduce the Blue Thumb Program to all 87 Oklahoma Conservation Districts as a model program to meet their environmental education needs. Blue Thumb will then work with each Conservation District who requests assistance to develop and maintain a Blue Thumb program in their area. Blue Thumb will work to maintain a coverage of water quality enhanced education programs that include at least 100 consistently monitored stream sites maintained by volunteers and at least five active Blue Thumb groups in each of the five Conservation District Areas (i.e., 40 active Conservation District Blue Thumb Programs statewide). Blue Thumb will also work to maintain active programs in each of the State's NPS Priority Watersheds listed in Table 1 as part of recommended Watershed Based Plan implementation efforts.

Short-Term Goal 4

- The State will draft and update Watershed Restoration Action Strategies or Watershed Based Plans (WBP) in NPS impaired watersheds with sufficient data. These plans will be drafted as requests are made by local stakeholder groups and as funds become available for plan development.

Short-Term Goal 5

- The NPS program will work with other State and Federal programs to identify alternative sources of funding to target and implement practices to achieve the long-term goal of beneficial use attainment by 2040 based on implementation plans developed by the State.

Current NPS Watershed Prioritization Ranking Criteria

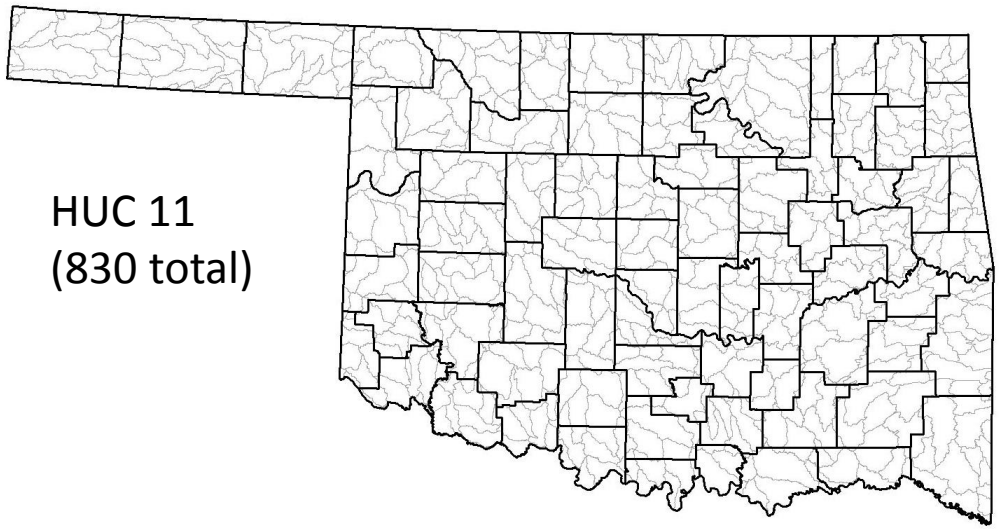
RANKING CRITERIA		POINTS	15	10	5	3	0
% Waterbodies on 303d list in HUC			≥85%	<85 to 65%	<65 to 45%	<45 to 25%	≥25%
Pollutant severity score of HUC			> 75% quartile	Median to 75% quartile	25%quartile to median	< 25% quartile	no impairments
Federal T & E species in HUC[1]			≥3	2	1		
Highest designated protected waterbody			Scenic R./ORW	HQS	SWS		
Est. decrease in wetlands, 1982 to 2002			gain or <1%	1 to 5%	>5 to 10%	>10% to 20%	>20%
USF&WS priority wetland present					YES		NO
App. B, % of HUC					upper 50th percentile	lower 50th percentile	no appendix B areas
NRCS Local emphasis areas					YES		NO
		POINTS	7.5	5	2.5	1.5	
# of PWS intakes in HUC			≥4	3	2	1	0
# of PWS customers served in HUC			≥100,000	999,999 - 10,000	9,999 - 1,000	999 - 1	0

1- includes habitat for Federally threatened or endangered aquatic and semi-aquatic organisms only.

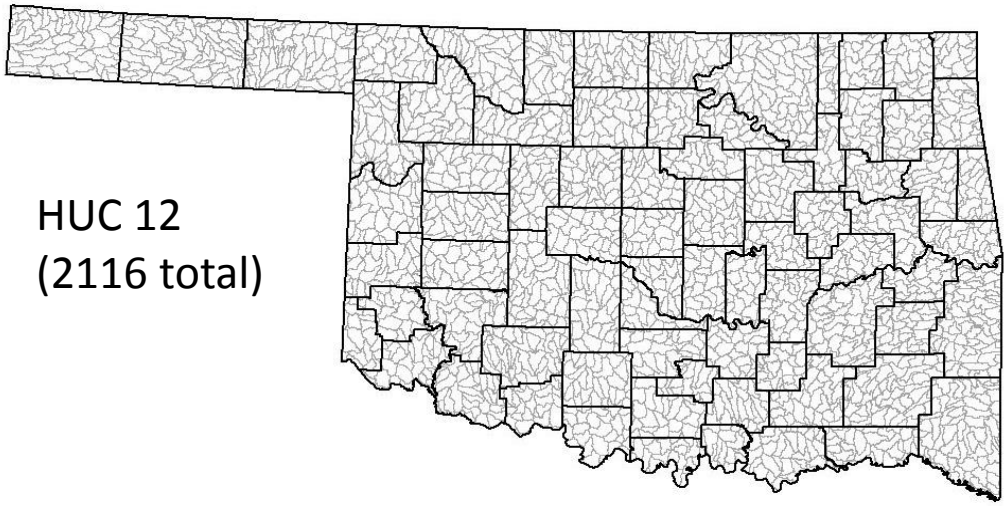
Changes for 2014 Update (so far)

- Move from HUC 11 watersheds to HUC 12
- Make changes to rankings based on group feedback
- Update long- and short-term goals

UWA - Watershed Frame



HUC 11
(830 total)



HUC 12
(2116 total)

Ballot Results

- **NRCS Local emphasis areas**
  - 1. Should we include other programs besides the NRCS Local Emphasis Areas in the ranking? Possibilities:
    - Source Water Protection Program; Conservation Security Program; Wetland Reserve Program; Grasslands Reserve Program; Fish and Wildlife Partners; Land Legacy; Others?
  - Results: passed 10 – 0
    - Therefore additional programs will be included in the ranking as data is available

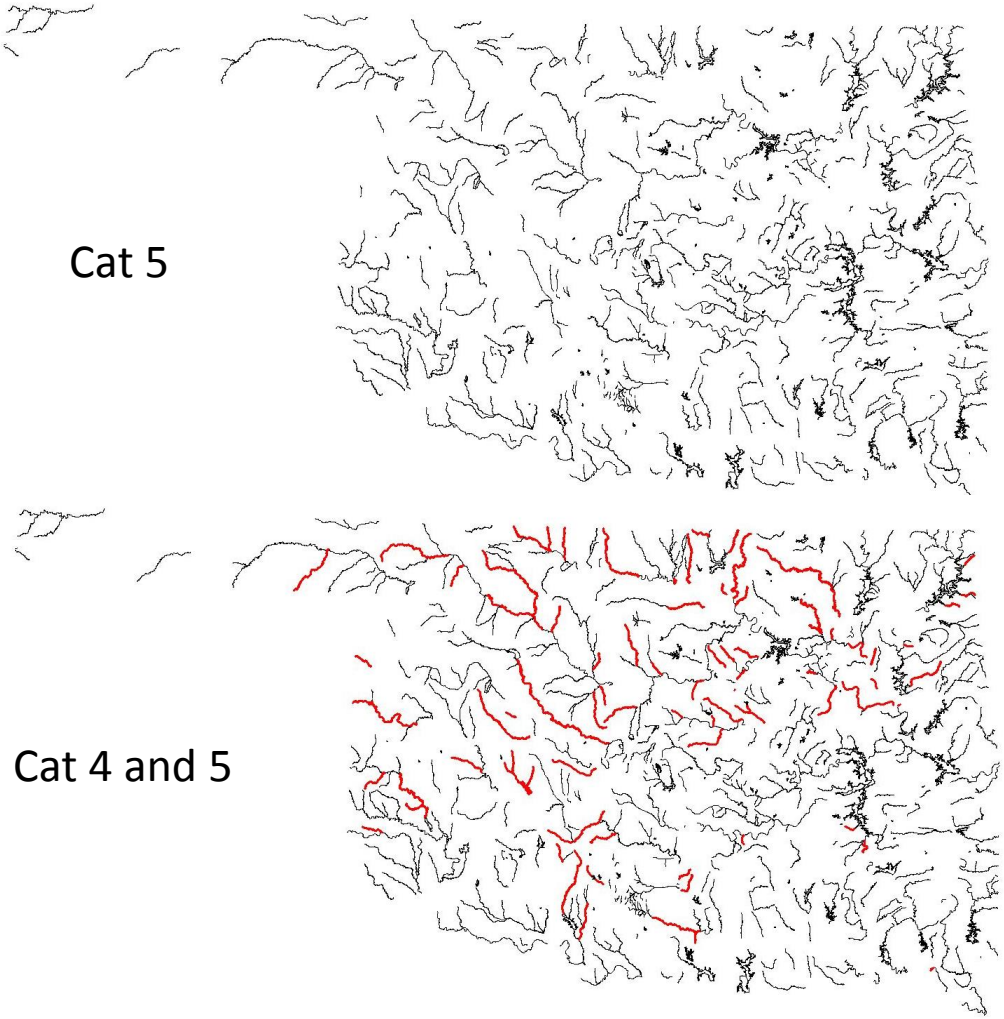
Ballot Results – continued-

- **NRCS Local emphasis areas**
  - 1 a. Should there be a change in the point value for this metric? Currently 5 points are assigned if there is an LEA and 0 points if none. Additional areas could increase the score up to a maximum of 15 pts. (e.g., 2-3 programs = 10 pts; 4+ programs = 15 pts).
- Results: passed 7 – 3
  - Points value will change to
    - ≥ 4 programs – 10 pts
    - 2-3 programs – 5 pts
    - 1 program only – 3 pts

Ballot Results – continued-

- **% Waterbodies on 303d list in HUC**
  - 1. Should the metric be changed from % waterbodies on 303(d) list (Cat. 5 only) to "% waterbodies impaired (includes both Cat. 4 & 5)?
- Results: passed 10 -1
  - Will include Category 4a waterbodies

IR 2012 - Category Difference



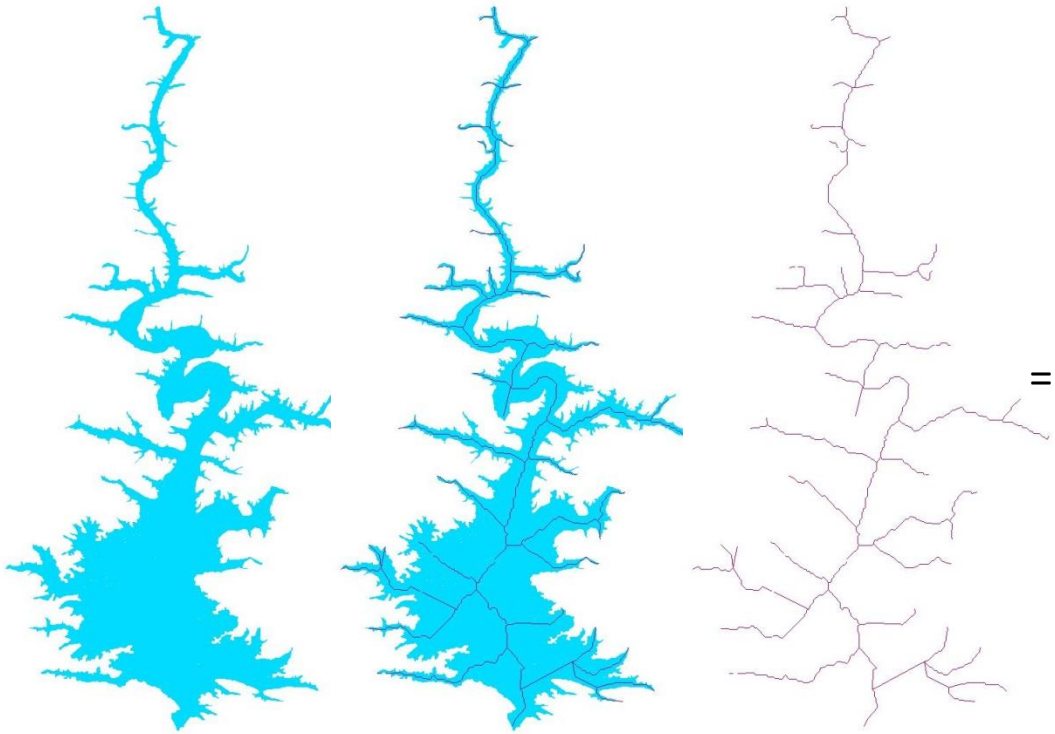
Ballot Results – continued-

- **% Waterbodies on 303d list in HUC**
  - 1 a. Should units of lake impairment be changed from stream length equivalence (currently based on a formula) to miles of stream(s) impounded?
- Results: passed 7 – 2
  - Therefore units of lake impairment will be changed from the stream length equivalence to actual miles of stream impounded

Lake to Stream Equivalence

Current method = 57,465,597 m^2 X 0.028618 = 1,644,550 m = **1022 miles**

Proposed method =



= **71.4 miles**

Determine actual drainage network length

Ballot Results – continued-

- **% Waterbodies on 303d list in HUC**
  - 1 b. Should there be a change in the point scheme for % Impaired? If yes, please include proposed scheme. Current scheme:
    - Total % Impaired Points

Total % Impaired	Points
85	15
65	10
45	5
25	3
0	0

- Results: failed 2 – 7
  - Therefore the point scheme will remain as above

Ballot Results – continued-

- **Federal T & E species in HUC**
  - 1. Should State T & E aquatic species in a HUC be included in the calculations?
- Results: passed 7 – 2
  - State T & E will be included
- 1 a. Should there be a change in the point scheme for T&E Species? If yes, please include proposed scheme.
- Results: Failed 4 – 5
  - State T&E will be added but point scheme will remain
  - Current point scheme:

# T& E Species	Points
≥3	15
2	10
1	5

Ballot Results – continued-

- **Highest designated protected waterbody**
  - Should Nutrient Limited Watersheds be included in the current scheme?
- Results: passed 7 – 3
  - NLW will be included in the ranking based on the next question

Ballot Results – continued-

- **Highest designated protected waterbody**
  - 1 c. Should Nutrient Limited Watersheds be included and scored as a separate metric? If yes, propose score in comments.
- Results: passed 7 – 3
  - NLW will be included as a separate metric and given 10 points if present in the watershed .

Ballot Results – continued-

- **Highest designated protected waterbody**
  - 1 a. Should Sensitive Water Supplies be combined with High Quality Waters for 10 points?
- Results: passed 7 – 4
  - Therefore Sensitive Water Supplies will be combined with HQW for 10 pts
  - 1 b. Should Sensitive Water Supplies be combined with Scenic Rivers and Outstanding Resource Waters for 15 points?
- Results: failed 3 – 8

Ballot Results – continued-

- Proposed Scoring Scheme for highest protected waterbody:

Current:

Highest Designated Protected Waterbody	Point
Scenic R/ORW	15
HQW	10
SWS	5

Proposed:

Highest Designated Protected Waterbody	Point
Scenic R/ORW	15
HQW/SWS	10

Ballot Results – continued-

- **# of PWS intakes in HUC**
  - 1. Should watersheds with source water protection areas be included and scored as a separate metric? If yes, propose score in comments (15, 10, 5, or 3 pts)
- Results: tied 5 – 5
  - SWPAs will be included in the additional programs reflected in the first ballot question

Ballot Results – continued-

- **Pollutant Severity Score**
  - Should the pollutant score be re-ranked to reflect greater weight toward priority NPS pollutants (nutrients, sediment, and related)?
- Results: passed 8 – 2
  - Therefore the pollutant severity score will be adjusted as outlined in the next question

Pollutant	Group Ave. Score
Toxics/Bioassay	73
Pesticides	58
Low D.O.	55
Biocriteria	49
Pathogens	43
Metals	42
Phosphorus	37
Ammonia	32
Nitrate	26
Turbidity	19
Oil and grease	15
Cl/TDS/SO_4	13
Taste and Odor	13
pH	12

Ballot Results – continued-

- **Pollutant Severity Score**
  - 1.a. Should the Pollutant Severity Score be removed and replaced with a different scheme to better reflect the goals of the NPS Management Plan?
- Results: passed 10 – 1
  - Therefore this will be changed to the following

Phosphorus, Nitrate, Turbidity, Pathogens & Low DO	15 pts
Toxics/Bioassay, Pesticides and Biocriteria	10 pts
Metals, Ammonia, Oil & Grease, CI/TDS/SO_4, Taste & Odor, and pH	5 pts

NEXT STEPS

- Working to assemble data layers to update UWA
- Will rework the UWA based on current data and revised scheme
- Circulate a draft revised UWA to group
- Another webinar to update the group and discuss feedback (proposed date?)
- Questions/Comments?
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