
1.0 IDENTIFY RECOMMENDED SUB-WATERSHEDS

To identify HUC12 sub-watersheds to recommend for additional management of nonpoint source pollution under this plan, available information was used to rank the HUC12 sub-watersheds of the Upper White River watershed with at least 50% of their area in Arkansas, in terms of water quality and habitat concerns. Three sets of water quality-related information were used to rank 69 HUC12 sub-watersheds. The following information was used to rank the HUC12 sub-watersheds:

- Water quality impairment,
- Modeled loads, and
- Water quality natural resource concerns from the NRCS State Resources Assessment.

Scores were developed for each HUC12 sub-watershed based on this information. The methods used to develop these scores are described in the following subsections. The HUC12 sub-watersheds were then ranked based on a total score calculated by summing the scores from all of the information categories (see Section 1.4).

1.1 Water Quality Impairment

Over 135 miles of streams and over 3,000 acres of Beaver Lake in the Upper White River watershed were classified as impaired on the final 2018 and/or draft 2020 Arkansas 303(d) lists (DEQ 2020, 2021). There are HUC12 sub-watersheds with more than one impaired assessment unit, and HUC12 sub-watersheds where assessment units are impaired due to more than one pollutant. To rank the HUC12 sub-watersheds, scores were assigned to each sub-watershed based solely on whether or not there are any impaired waterbodies present. HUC12 sub-watersheds with one or more impaired waterbodies were assigned a score of one. All other sub-watersheds were assigned a score of zero. Figure 1 summarizes the water quality impairment scores for each of the HUC12 sub-watersheds. Both the final 2018 303(d) List and the draft 2020

303(d) List were used to assign scores. Scores were first assigned based on the 2018 303(d) List. Then, scores of one were added to sub-watersheds that did not have impaired waterbodies on the 2018 303(d) List but did have impaired waterbodies on the 2020 303(d) List.

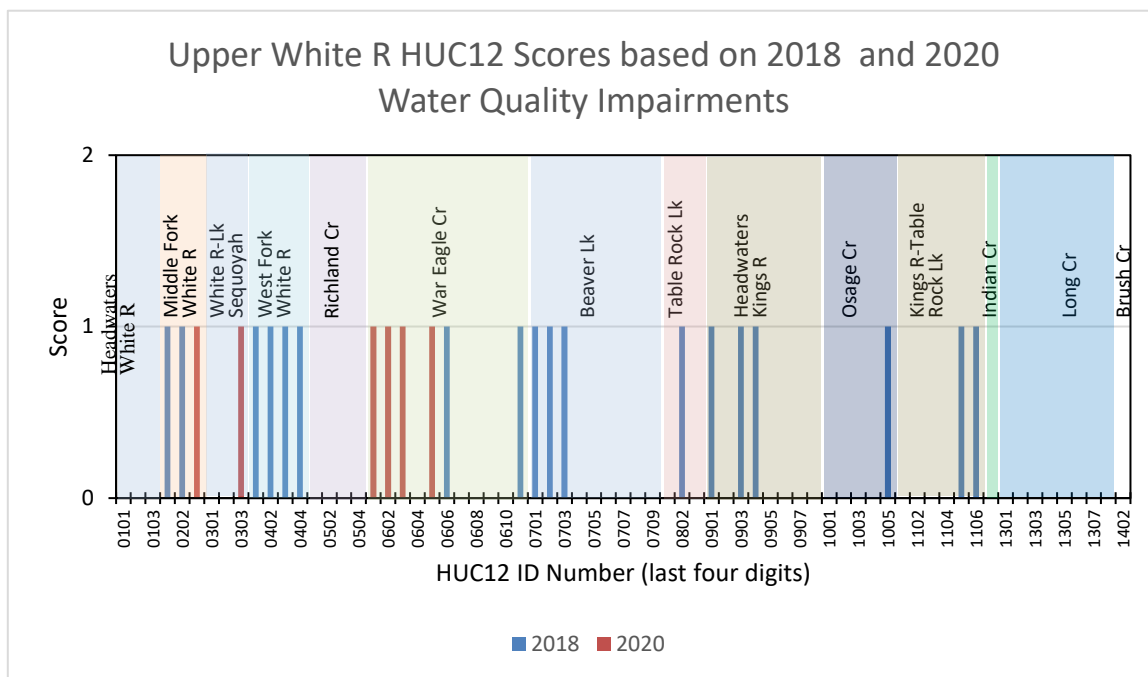


Figure 1. Summary of scores based on final 2018 303(d) and draft 2020 303(d) list.

1.2 Modeled Nonpoint Source Pollutant Yields

A recent SWAT modeling project of the Upper White River watershed estimated average annual nonpoint source yields (loads per unit of watershed area) of total nitrogen, total phosphorus, and suspended sediment from each of the HUC12 sub-watersheds (reference FTN SWAT report). The modeled nonpoint source yields for the HUC12 sub-watersheds were normalized by dividing each value by the maximum value from all the sub-watersheds. For example, total nitrogen yield scores were calculated by determining the highest total nitrogen yield from all of the sub-watersheds and then dividing the total nitrogen yield for each HUC12 sub-watershed by that maximum yield. Separate scores were assigned to the HUC12 sub-watersheds for total nitrogen, total phosphorus, and sediment yields. The three scores for each HUC12 sub-watershed were then summed to get a total score for the sub-watershed. The

total scores were then normalized by dividing by the maximum total score from all the HUC12 sub-watersheds. These calculations are shown in Attachment 1. Normalized total scores for each of the HUC12 sub-watersheds based on this characteristic are graphed in Figure 2.

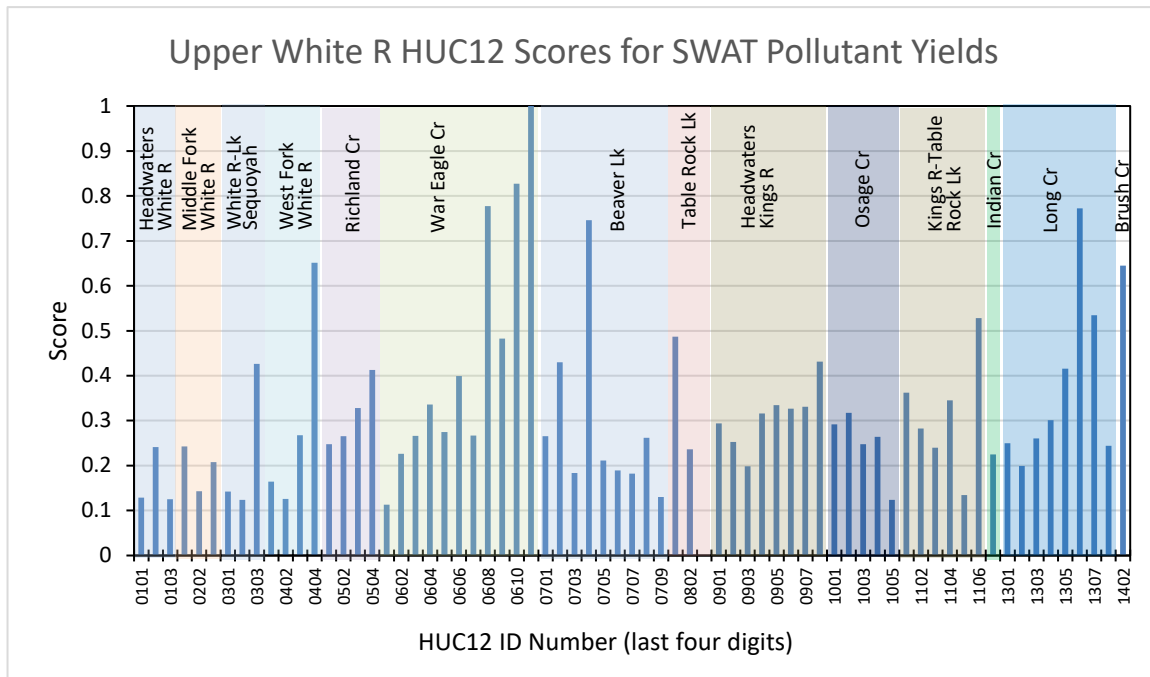


Figure 2. Summary of HUC12 scores based on simulated nonpoint source yields of nutrients and sediment.

1.3 Natural Resources Assessment Water Quality Concerns

Scores were assigned to HUC12 sub-watersheds based on area-weighted risks assigned to HUC12 sub-watersheds for water quality degradation resource concerns in the US Natural Resources Conservation Service (NRCS) 2015 Arkansas State Resource Assessment (NRCS 2016). Area-weighted risks for five water quality degradation natural resource concerns were summed for each HUC12 sub-watershed:

- Excess nutrients in surface water and groundwater;
- Excess sediment in surface water;

- Petroleum, heavy metals, and other pollutants transported to receiving water sources;
- Pesticides and herbicides transported to surface water and groundwater; and
- Excess pathogens and chemicals from manure, biosolids, or compost applications.

Scores for each HUC12 sub-watershed were calculated by dividing the sum of the risks for each sub-watershed by the maximum sum of risks from all the sub-watersheds. Score calculations for this characteristic are shown in Attachment 2. HUC12 sub-watershed scores for this characteristic are graphed in Figure 3.

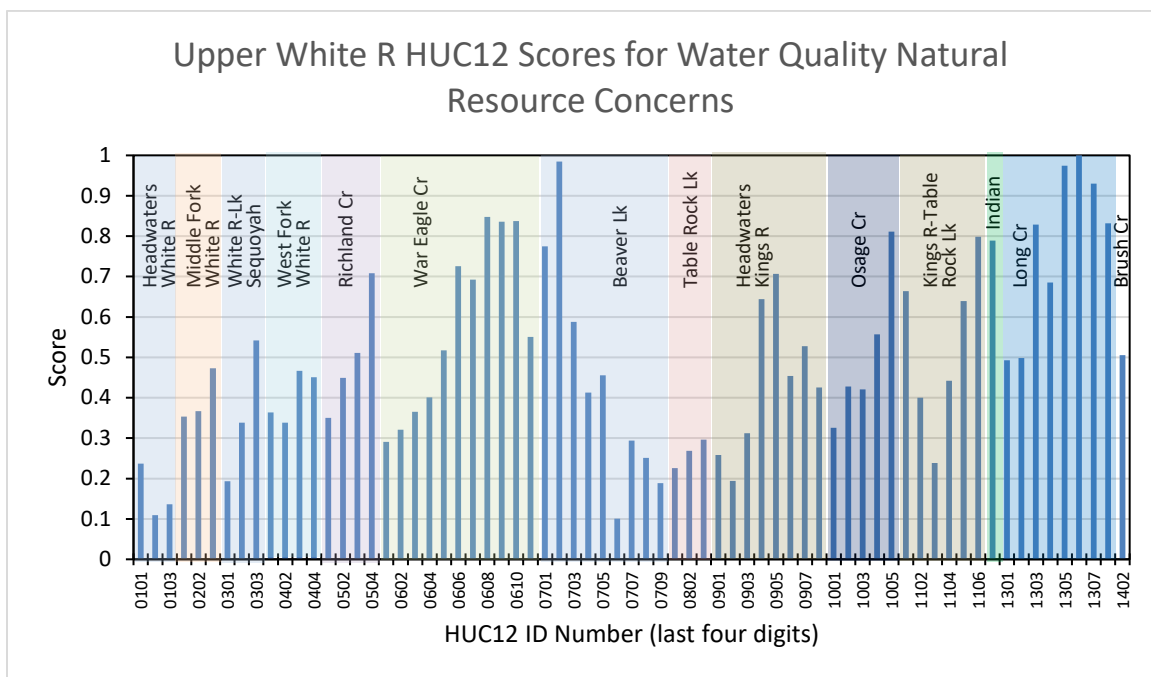


Figure 3. Summary of HUC12 scores based on NRCS water quality natural resource concerns risks.

1.4 Ranking of HUC12 Sub-watersheds

Scores for all the ranking characteristics were summed to identify HUC12 sub-watersheds with the greatest number of water quality-related concerns. Total scores for each of the HUC12 sub-watersheds are graphed in Figure 4. A scoring summary table for all the HUC12 sub-watersheds is included as Attachment 3.

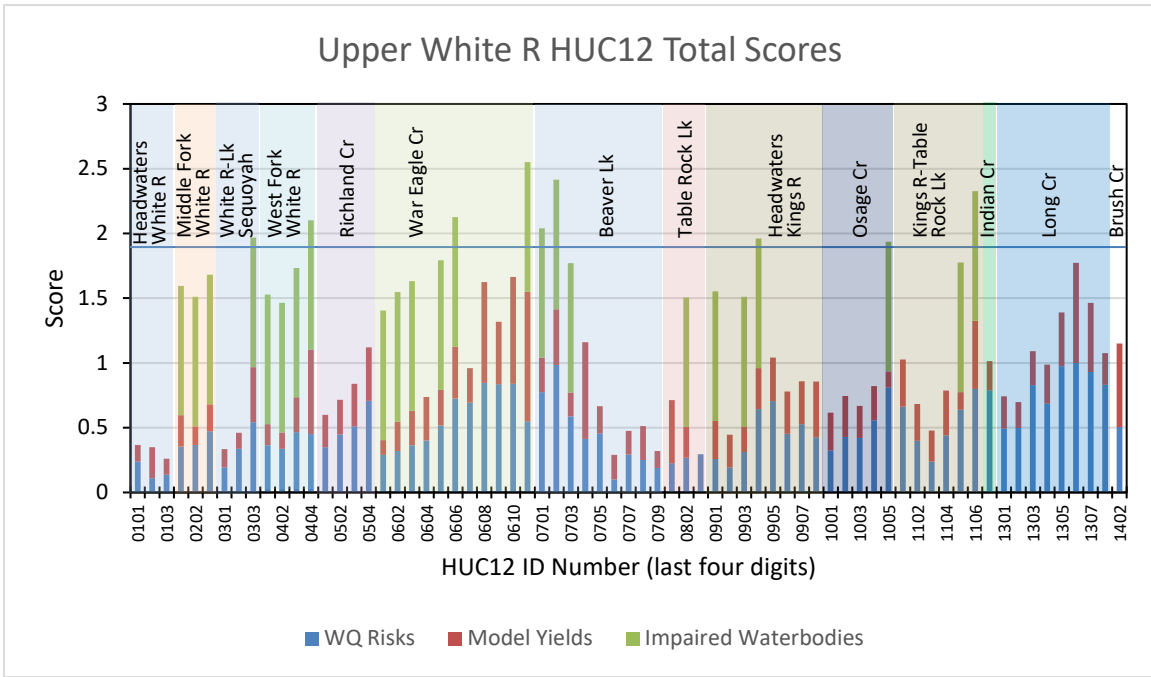


Figure 4. Summary of HUC12 total ranking scores.

There are nine HUC12 sub-watersheds with total scores greater than 1.9 (see blue line in Figure 4). These are the sub-watersheds that are recommended as the focus for the watershed management plan. The recommended sub-watersheds are listed in Table 1.

Table 1. HUC12 sub-watersheds recommended for focus in the Upper White River watershed.

HUC12 ID Number	HUC12 Name	Ranking Score
110100010303	Lake Sequoyah	1.97
110100010404	Town Branch-West Fork White River	2.10
110100010606	Holman Creek	2.12
110100010611	Beaver Lake-War Eagle Creek	2.55
110100010701	Roberts Creek-Beaver Lake	2.04
110100010702	Brush Creek-Beaver Lake	2.41
110100010904	Spanker Branch-Kings River	1.96
110100011005	Warden Branch-Osage Creek	1.94
110100011106	Clabber Creek-Kings River	2.33

2.0 REFERENCES

- DEQ. 2021. *2020 Draft 303(d) List*. Arkansas Division of Environmental Quality. Accessed January 2022.
https://www.adeq.state.ar.us/water/planning/integrated/303d/pdfs/2020/2020CombineCat4_&_5.pdf.
- . 2020. *Final 2018 303(d) List*. Arkansas Department of Energy and Environment Division of Environmental Quality. Accessed September 2020.
[https://www.adeq.state.ar.us/water/planning/integrated/303d/pdfs/2018/2018_303\(d\)_list.pdf](https://www.adeq.state.ar.us/water/planning/integrated/303d/pdfs/2018/2018_303(d)_list.pdf).
- <https://www.nrcs.usda.gov/wps/portal/nrcs/ar/technical/dma/NRCSEPRD1140008/>.

ATTACHMENT 1

Summary of Scoring for SAT Model Loads

Attachment 1

Summary of Scoring for SWAT Model Loads

HUC12 ID 11010001	Name	Total Nitrogen		Total Phosphorus		Sediment		total score	Normalized score
		Kg/ha/yr	score	kg/ha/yr	score	ton/ha/yr	score		
0101	East Prong White River-White River	2.43	0.13	0.31	0.07	0.75	0.02	0.22	0.13
0102	Fleming Creek-White River	6.46	0.34	0.21	0.05	0.81	0.03	0.41	0.24
0103	Mill Creek-Headwaters White River	2.26	0.12	0.31	0.07	0.83	0.03	0.22	0.12
0201	Dry Creek-Middle Fork White River	6.95	0.37	0.16	0.04	0.43	0.01	0.42	0.24
0202	Greasy Creek-Middle Fork White River	4.18	0.22	0.11	0.02	-0.04	0.00	0.25	0.14
0203	Koger Branch-Middle Fork White River	3.35	0.18	0.69	0.15	0.8	0.02	0.36	0.21
0301	Delaney Creek-White River	2.73	0.14	0.39	0.09	0.42	0.01	0.25	0.14
0302	Crosses Creek-White River	2.39	0.13	0.33	0.07	0.4	0.01	0.21	0.12
0303	Lake Sequoyah	2.08	0.11	2.35	0.53	3.11	0.10	0.73	0.43
0401	London Creek-West Fork White River	4.31	0.23	0.2	0.04	0.32	0.01	0.28	0.16
0402	Winn Creek-West Fork White River	3.33	0.18	0.13	0.03	0.34	0.01	0.22	0.13
0403	Rock Creek-West Fork White River	7.07	0.37	0.37	0.08	0.09	0.00	0.46	0.27
0404	Town Branch-West Fork White River	8.88	0.47	2.51	0.56	2.82	0.09	1.12	0.65
0501	Lollars Creek	3.92	0.21	0.82	0.18	1.11	0.03	0.43	0.25
0502	Hock Creek-Richland Creek	5.08	0.27	0.65	0.15	1.35	0.04	0.46	0.27
0503	Cherry Creek-Richland Creek	4.66	0.25	1.25	0.28	1.2	0.04	0.56	0.33
0504	Dry Creek-Richland Creek	6.38	0.34	1.65	0.37	0.08	0.00	0.71	0.41
0601	Dry Fork-War Eagle Creek	2.34	0.12	0.22	0.05	0.69	0.02	0.19	0.11
0602	Seals Creek-War Eagle Creek	4.32	0.23	0.56	0.13	1.12	0.03	0.39	0.23
0603	Jackson Creek-War Eagle Creek	5.41	0.29	0.65	0.15	0.84	0.03	0.46	0.27
0604	Wharton Creek	6.44	0.34	0.83	0.19	1.62	0.05	0.58	0.34
0605	Reed Creek-War Eagle Creek	5.38	0.29	0.83	0.19	0.07	0.00	0.47	0.28
0606	Holman Creek	8.63	0.46	0.95	0.21	0.55	0.02	0.69	0.40
0607	Berry Branch-War Eagle Creek	4.09	0.22	1.05	0.24	0.23	0.01	0.46	0.27
0608	Glade Creek-War Eagle Creek	18.86	1.00	1.22	0.27	2.09	0.06	1.34	0.78
0609	Clear Creek-War Eagle Creek	5.68	0.30	2.09	0.47	1.98	0.06	0.83	0.48
0610	Clifty Creek-War Eagle Creek	13.33	0.71	2.5	0.56	5.03	0.16	1.42	0.83
0611	Beaver Lake-War Eagle Creek	13.61	0.72	4.46	1.00	-8.43	0.00	1.72	1.00
0701	Roberts Creek-Beaver Lake	5.66	0.30	0.7	0.16	-5.33	0.00	0.46	0.27
0702	Brush Creek-Beaver Lake	10.63	0.56	0.61	0.14	1.29	0.04	0.74	0.43
0703	Beaver Lake	3.68	0.20	0.54	0.12	-0.79	0.00	0.32	0.18
0704	Phillips Creek-Beaver Lake	3.51	0.19	0.44	0.10	32.2	1.00	1.28	0.75
0705	Bear Creek-Beaver Lake	4.59	0.24	0.37	0.08	1.2	0.04	0.36	0.21

HUC12 ID 11010001	Name	Total Nitrogen		Total Phosphorus		Sediment		total score	Normalized score
		Kg/ha/yr	score	kg/ha/yr	score	ton/ha/yr	score		
0706	West Fork Little Clifty Creek-Beaver Lake	2.77	0.15	0.29	0.07	3.65	0.11	0.33	0.19
0707	Long Hollow-Beaver Lake	3.83	0.20	0.34	0.08	1.11	0.03	0.31	0.18
0708	North Fork North Clifty Creek-Beaver Lake	4.87	0.26	0.68	0.15	1.3	0.04	0.45	0.26
0709	Fords Creek-Beaver Lake	3.01	0.16	0.29	0.07	-8.29	0.00	0.22	0.13
0710	Beaver Dam-Beaver Lake	2.8	0.15	0.24	0.05	20.49	0.64	0.84	0.49
0802	Leatherwood Creek	4.71	0.25	0.4	0.09	2.16	0.07	0.41	0.24
0803	Cedar Creek-Table Rock Lake	-62.64	0.00	-11.05	0.00	-31.09	0.00	0.00	0.00
0901	Headwaters Kings River	4.16	0.22	0.93	0.21	2.46	0.08	0.51	0.29
0902	Felkins Creek	3.89	0.21	0.98	0.22	0.28	0.01	0.43	0.25
0903	Sweden Creek-Kings River	3.41	0.18	0.72	0.16	-1.51	0.00	0.34	0.20
0904	Spanker Branch-Kings River	5.56	0.29	0.72	0.16	2.81	0.09	0.54	0.32
0905	Big Onion Creek-Kings River	9.12	0.48	0.41	0.09	-0.78	0.00	0.58	0.33
0906	Upper Dry Fork	4.24	0.22	1.28	0.29	1.63	0.05	0.56	0.33
0907	Lower Dry Fork	4	0.21	1.47	0.33	0.91	0.03	0.57	0.33
0908	Pine Creek-Upper Kings River	5.28	0.28	1.57	0.35	3.55	0.11	0.74	0.43
1001	Kenner Creek	7.07	0.37	0.46	0.10	0.77	0.02	0.50	0.29
1002	Headwaters Osage Creek	7.47	0.40	0.56	0.13	0.81	0.03	0.55	0.32
1003	Dog Branch-Osage Creek	6.15	0.33	0.37	0.08	0.54	0.02	0.43	0.25
1004	Jackson Lake-Osage Creek	5.14	0.27	0.81	0.18	-0.01	0.00	0.45	0.26
1005	Warden Branch-Osage Creek	0.85	0.05	0.66	0.15	0.66	0.02	0.21	0.12
1101	Upper Piney Creek-Kings River	4.99	0.26	1.33	0.30	1.95	0.06	0.62	0.36
1102	Lower Piney Creek	4.03	0.21	0.99	0.22	1.62	0.05	0.49	0.28
1103	Rockhouse Creek-Kings River	3.08	0.16	0.77	0.17	2.49	0.08	0.41	0.24
1104	Keels Creek	4.43	0.23	1.37	0.31	1.69	0.05	0.59	0.35
1105	Pine Creek-Kings River	3.15	0.17	0.29	0.07	-2.11	0.00	0.23	0.13
1106	Clabber Creek-Kings River	5.31	0.28	2.8	0.63	-0.45	0.00	0.91	0.53
1201	Headwaters Indian Creek	3.16	0.17	0.89	0.20	0.64	0.02	0.39	0.22
1301	Bobo Creek-Long Creek	5.22	0.28	0.61	0.14	0.55	0.02	0.43	0.25
1302	Terrapin Creek	5.65	0.30	0.11	0.02	0.6	0.02	0.34	0.20
1303	Lick Branch-Long Creek	5.46	0.29	0.69	0.15	0.15	0.00	0.45	0.26
1304	South Fork Dry Creek-Dry Creek	5.49	0.29	0.94	0.21	0.53	0.02	0.52	0.30
1305	Callens Branch-Dry Creek	6.52	0.35	1.6	0.36	0.37	0.01	0.72	0.42
1306	Braswell Branch-Yucum Creek	18.82	1.00	1.38	0.31	0.72	0.02	1.33	0.77
1307	Yocum Creek-Table Rock Lake	13.63	0.72	0.82	0.18	0.46	0.01	0.92	0.53
1308	Long Creek-Table Rock Lake	5.99	0.32	0.42	0.09	0.28	0.01	0.42	0.24
1402	Cricket Creek-Table Rock Lake	9.44	0.50	2.72	0.61	-0.46	0.00	1.11	0.64

ATTACHMENT 2

**Summary of Scoring for NRSC 2015 State Resource Assessment
Water Quality Criteria**

Attachment 2

Summary of Scoring for NRCS 2015 State Resource Assessment Water Quality Concerns

HUC12 ID	Name	Heavy metals	Nutrients	Sediment	Pesticides	Pathogen	Sum of WQ risks	Score
110100010101	East Prong White River-White River	0.81	5.36	1.96	2.71	2.98	13.82	0.24
110100010102	Fleming Creek-White River	0.43	2.43	1.04	1.40	1.07	6.37	0.11
110100010103	Mill Creek-Headwaters White River	0.50	3.08	1.13	1.67	1.58	7.95	0.14
110100010201	Dry Creek-Middle Fork White River	0.81	7.95	2.16	2.99	6.66	20.58	0.35
110100010202	Greasy Creek-Middle Fork White River	0.99	8.24	2.68	3.47	6.00	21.39	0.37
110100010203	Koger Branch-Middle Fork White River	0.99	10.65	2.72	3.77	9.42	27.54	0.47
110100010301	Delaney Creek-White River	0.64	4.39	1.49	2.14	2.59	11.25	0.19
110100010302	Crosses Creek-White River	0.98	7.61	2.49	3.36	5.26	19.69	0.34
110100010303	Lake Sequoyah	0.96	12.31	2.35	3.97	11.96	31.55	0.54
110100010401	London Creek-West Fork White River	0.96	8.07	2.79	3.39	5.99	21.19	0.36
110100010402	Winn Creek-West Fork White River	1.00	7.56	2.82	3.41	4.93	19.71	0.34
110100010403	Rock Creek-West Fork White River	0.98	10.46	2.59	4.14	9.00	27.17	0.47
110100010404	Town Branch-West Fork White River	0.99	10.13	2.54	5.17	7.43	26.25	0.45
110100010501	Lollars Creek	1.00	7.86	2.52	3.53	5.51	20.41	0.35
110100010502	Hock Creek-Richland Creek	1.00	10.00	2.64	4.17	8.33	26.14	0.45
110100010503	Cherry Creek-Richland Creek	1.00	11.47	2.38	4.39	10.52	29.76	0.51
110100010504	Dry Creek-Richland Creek	0.00	15.96	2.48	6.46	16.34	41.24	0.71
110100010601	Dry Fork-War Eagle Creek	0.98	6.50	2.54	3.31	3.61	16.95	0.29
110100010602	Seals Creek-War Eagle Creek	0.98	7.20	2.57	3.31	4.64	18.70	0.32
110100010603	Jackson Creek-War Eagle Creek	1.00	8.13	2.70	3.62	5.83	21.28	0.37

HUC12 ID	Name	Heavy metals	Nutrients	Sediment	Pesticides	Pathogen	Sum of WQ risks	Score
110100010604	Wharton Creek	0.00	9.32	2.70	3.91	7.42	23.36	0.40
110100010605	Reed Creek-War Eagle Creek	0.99	11.56	2.45	5.20	9.92	30.12	0.52
110100010606	Holman Creek	1.00	18.51	2.74	6.64	13.37	42.27	0.73
110100010607	Berry Branch-War Eagle Creek	0.00	18.12	2.32	6.74	13.14	40.32	0.69
110100010608	Glade Creek-War Eagle Creek	1.00	18.25	2.49	7.81	19.80	49.36	0.85
110100010609	Clear Creek-War Eagle Creek	0.00	18.79	2.36	7.81	19.71	48.66	0.84
110100010610	Clifty Creek-War Eagle Creek	0.00	18.82	2.48	7.86	19.64	48.79	0.84
110100010611	Beaver Lake-War Eagle Creek	0.00	10.75	6.02	5.70	9.58	32.05	0.55
110100010701	Roberts Creek-Beaver Lake	0.96	15.43	6.98	6.30	15.47	45.14	0.77
110100010702	Brush Creek-Beaver Lake	1.00	20.23	7.48	7.34	21.30	57.35	0.98
110100010703	Beaver Lake	0.00	11.87	5.74	5.52	11.09	34.21	0.59
110100010704	Phillips Creek-Beaver Lake	0.00	7.84	5.37	5.09	5.75	24.04	0.41
110100010705	Bear Creek-Beaver Lake	0.00	8.54	6.91	6.15	4.92	26.52	0.46
110100010706	West Fork Little Clifty Creek-Beaver Lake	0.00	2.44	0.78	1.94	0.69	5.84	0.10
110100010707	Long Hollow-Beaver Lake	0.00	7.20	1.58	4.79	3.55	17.11	0.29
110100010708	North Fork North Clifty Creek-Beaver Lake	0.00	6.30	1.70	4.38	2.25	14.63	0.25
110100010709	Fords Creek-Beaver Lake	0.00	3.40	3.81	3.02	0.77	10.99	0.19
110100010710	Beaver Dam-Beaver Lake	0.00	5.19	1.79	4.18	1.98	13.13	0.23
110100010801	Butler Creek	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110100010802	Leatherwood Creek	0.00	6.82	2.32	5.13	1.40	15.66	0.27
110100010803	Cedar Creek-Table Rock Lake	0.00	7.13	2.49	5.18	2.45	17.24	0.30
110100010804	Haddock Creek-Table Rock Lake	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110100010806	Owl Creek-Table Rock Lake	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110100010901	Headwaters Kings River	0.70	5.78	1.77	2.56	4.25	15.06	0.26
110100010902	Felkins Creek	0.00	4.67	2.01	2.67	1.98	11.32	0.19
110100010903	Sweden Creek-Kings River	0.00	7.40	2.40	3.84	4.54	18.18	0.31
110100010904	Spanker Branch-Kings River	0.99	14.63	2.40	6.50	13.00	37.53	0.64
110100010905	Big Onion Creek-Kings River	0.00	15.72	2.47	7.31	15.64	41.15	0.71
110100010906	Upper Dry Fork	0.00	10.47	2.21	6.06	7.69	26.43	0.45
110100010907	Lower Dry Fork	0.00	12.19	2.36	6.44	9.72	30.72	0.53

ATTACHMENT 3

Listing of Scores for all Upper White River HUC12 Subwatersheds

Attachment 3

Listing of scores for all Upper White River HUC12 sub-watersheds

HUC12 Name	ID No.	Name of Main Stream	2018 303(d) Impaired	2020 303(d) Impaired (additional score)	SWAT yield	NRCS WQ concerns	Total score
East Prong White River-White River	0101	White R	0	0	0.13	0.24	0.37
Fleming Creek-White River	0102	White R	0	0	0.24	0.11	0.35
Mill Creek-Headwaters White River	0103	White R	0	0	0.12	0.14	0.26
Dry Creek-Middle Fork White River	0201	Middle Fork	1	0	0.24	0.35	1.60
Greasy Creek-Middle Fork White River	0202	Middle Fork	1	0	0.14	0.37	1.51
Koger Branch-Middle Fork White River	0203	Middle Fork	0	1	0.21	0.47	1.68
Delaney Creek-White River	0301	White R	0	0	0.14	0.19	0.34
Crosses Creek-White River	0302	White R	0	0	0.12	0.34	0.46
Lake Sequoyah	0303	White R	0	1	0.43	0.54	1.97
London Creek-West Fork White River	0401	West Fork	1	0	0.16	0.36	1.53
Winn Creek-West Fork White River	0402	West Fork	1	0	0.13	0.34	1.46
Rock Creek-West Fork White River	0403	West Fork	1	0	0.27	0.47	1.73
Town Branch-West Fork White River	0404	West Fork	1	0	0.65	0.45	2.10
Lollars Creek	0501	Richland	0	0	0.25	0.35	0.60
Hock Creek-Richland Creek	0502	Richland	0	0	0.27	0.45	0.71
Cherry Creek-Richland Creek	0503	Richland	0	0	0.33	0.51	0.84
Dry Creek-Richland Creek	0504	Richland	0	0	0.41	0.71	1.12
Dry Fork-War Eagle Creek	0601	War Eagle	0	1	0.11	0.29	1.40
Seals Creek-War Eagle Creek	0602	War Eagle	0	1	0.23	0.32	1.55
Jackson Creek-War Eagle Creek	0603	War Eagle	0	1	0.27	0.37	1.63
Wharton Creek	0604	War Eagle	0	0	0.34	0.40	0.74
Reed Creek-War Eagle Creek	0605	War Eagle	0	1	0.28	0.52	1.79
Holman Creek	0606	War Eagle	1	0	0.40	0.73	2.13
Berry Branch-War Eagle Creek	0607	War Eagle	0	0	0.27	0.69	0.96
Glade Creek-War Eagle Creek	0608	War Eagle	0	0	0.78	0.85	1.62
Clear Creek-War Eagle Creek	0609	War Eagle	0	0	0.48	0.84	1.32
Clifty Creek-War Eagle Creek	0610	War Eagle	0	1	0.83	0.84	1.66
Beaver Lake-War Eagle Creek	0611	War Eagle	1	0	1.00	0.55	2.55
Roberts Creek-Beaver Lake	0701	Beaver Lake	1	0	0.27	0.77	2.04
Brush Creek-Beaver Lake	0702	Beaver Lake	1	0	0.43	0.98	2.41
Beaver Lake	0703	Beaver Lake	1	0	0.18	0.59	1.77
Phillips Creek-Beaver Lake	0704	Beaver Lake	0	0	0.75	0.41	1.16
Bear Creek-Beaver Lake	0705	Beaver Lake	0	0	0.21	0.46	0.67
West Fork Little Clifty Creek-Beaver Lake	0706	Beaver Lake	0	0	0.19	0.10	0.29
Long Hollow-Beaver Lake	0707	Beaver Lake	0	0	0.18	0.29	0.48
North Fork North Clifty Creek-Beaver Lake	0708	Beaver Lake	0	0	0.26	0.25	0.51
Fords Creek-Beaver Lake	0709	Beaver Lake	0	0	0.13	0.19	0.32
Beaver Dam-Beaver Lake	0710	Beaver Lake	0	0	0.49	0.23	0.71
Butler Creek	0801	White d/s	0	0	#N/A	0.00	#N/A
Leatherwood Creek	0802	White d/s	1	0	0.24	0.27	1.50
Cedar Creek-Table Rock Lake	0803	White d/s	0	0	0.00	0.30	0.30
Haddock Creek-Table Rock Lake	0804	White d/s	0	0	#N/A	0.00	#N/A
Owl Creek-Table Rock Lake	0806	White d/s	0	0	#N/A	0.00	#N/A
Headwaters Kings River	0901	Kings	1	0	0.29	0.26	1.55
Felkins Creek	0902	Kings	0	0	0.25	0.19	0.45
Sweden Creek-Kings River	0903	Kings	1	0	0.20	0.31	1.51
Spanker Branch-Kings River	0904	Kings	1	0	0.32	0.64	1.96

HUC12 Name	ID No.	Name of Main Stream	2018 303(d) Impaired	2020 303(d) Impaired (additional score)	SWAT yield	NRCS WQ concerns	Total score
Big Onion Creek-Kings River	0905	Kings	0	0	0.33	0.71	1.04
Upper Dry Fork	0906	Kings	0	0	0.33	0.45	0.78
Lower Dry Fork	0907	Kings	0	0	0.33	0.53	0.86
Pine Creek-Upper Kings River	0908	Kings	0	0	0.43	0.43	0.86
Kenner Creek	1001	Osage	0	0	0.29	0.33	0.62
Headwaters Osage Creek	1002	Osage	0	0	0.32	0.43	0.75
Dog Branch-Osage Creek	1003	Osage	0	0	0.25	0.42	0.67
Jackson Lake-Osage Creek	1004	Osage	0	0	0.26	0.56	0.82
Warden Branch-Osage Creek	1005	Osage	1	0	0.12	0.81	1.94
Upper Piney Creek-Kings River	1101	Kings	0	0	0.36	0.66	1.03
Lower Piney Creek	1102	Kings	0	0	0.28	0.40	0.68
Rockhouse Creek-Kings River	1103	Kings	0	0	0.24	0.24	0.48
Keels Creek	1104	Kings	0	0	0.35	0.44	0.79
Pine Creek-Kings River	1105	Kings	1	0	0.13	0.64	1.77
Clabber Creek-Kings River	1106	Kings	1	0	0.53	0.80	2.33
Sweetwater Creek-Kings River	1107	Kings	1	0	#N/A	0.00	#N/A
Headwaters Indian Creek	1201	Indian	0	0	0.22	0.79	1.01
Indian Creek	1202	Indian	0	0	#N/A	0.00	#N/A
Little Indian Creek	1203	Indian	0	0	#N/A	0.00	#N/A
Bobo Creek-Long Creek	1301	Long	0	0	0.25	0.49	0.74
Terrapin Creek	1302	Long	0	0	0.20	0.50	0.70
Lick Branch-Long Creek	1303	Long	0	0	0.26	0.83	1.09
South Fork Dry Creek-Dry Creek	1304	Long	0	0	0.30	0.68	0.99
Callens Branch-Dry Creek	1305	Long	0	0	0.42	0.97	1.39
Braswell Branch-Yucum Creek	1306	Yocum	0	0	0.77	1.00	1.77
Yocum Creek-Table Rock Lake	1307	Yocum	0	0	0.53	0.93	1.46
Long Creek-Table Rock Lake	1308	Long	0	0	0.24	0.83	1.08
Cricket Creek-Table Rock Lake	1402	Table Rock	0	0	0.64	0.51	1.15
Brush Creek-Table Rock Lake	1403	Table Rock	0	0	#N/A	0.00	#N/A
Maximum Possible			1	1	1	1	3

Note regarding NAs. NA values for SWAT yield: yields were calculated only for HUC12s with more than 50% of their area in Arkansas. NA values in total score column when there is an NA value in the SWAT yield column.