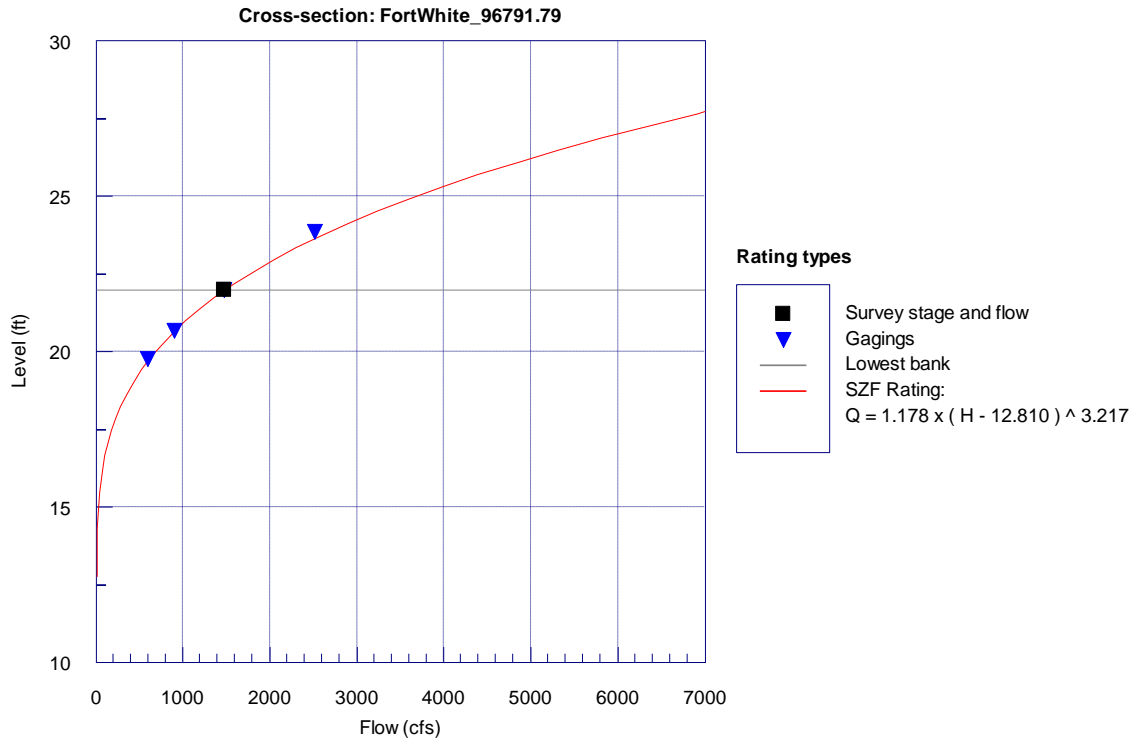
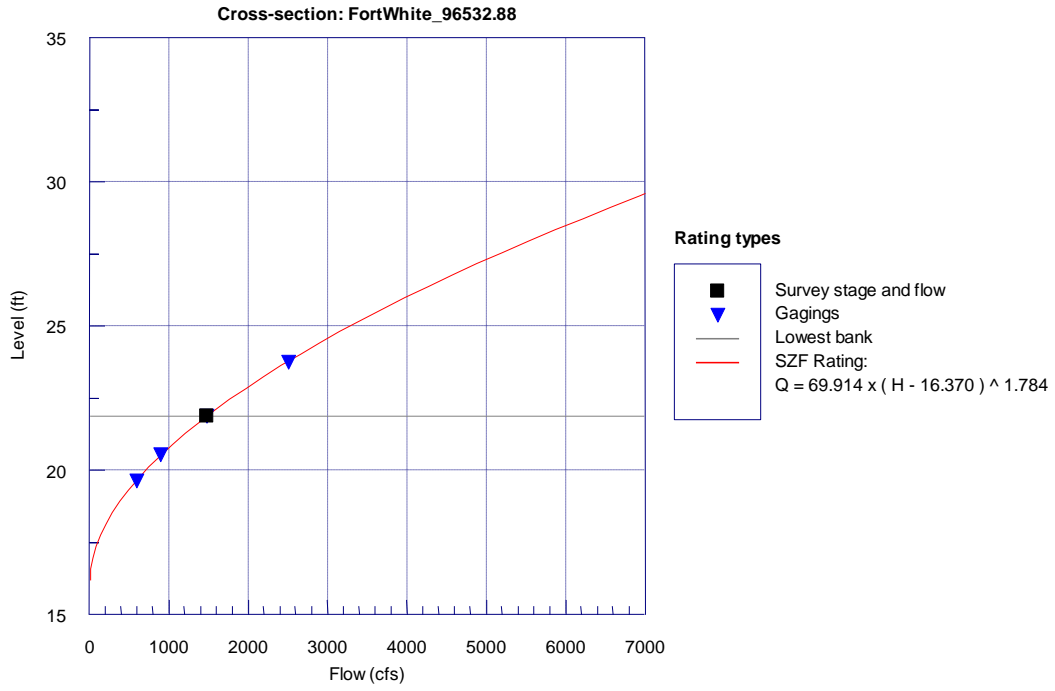
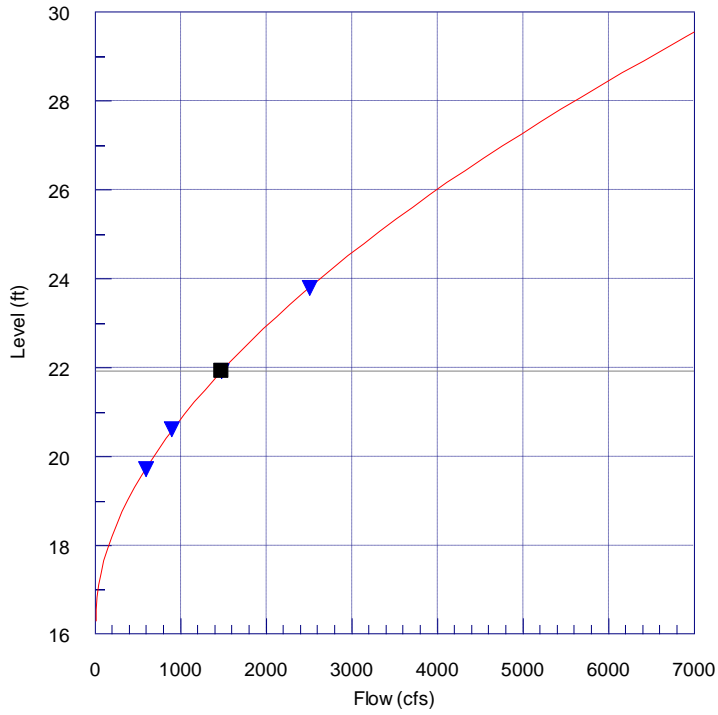


**Appendix F**  
**SEFA Rating Curves and Area Weighted Suitability Evaluation Results**

# Ft White Ratings



Cross-section: FortWhite\_96930.06

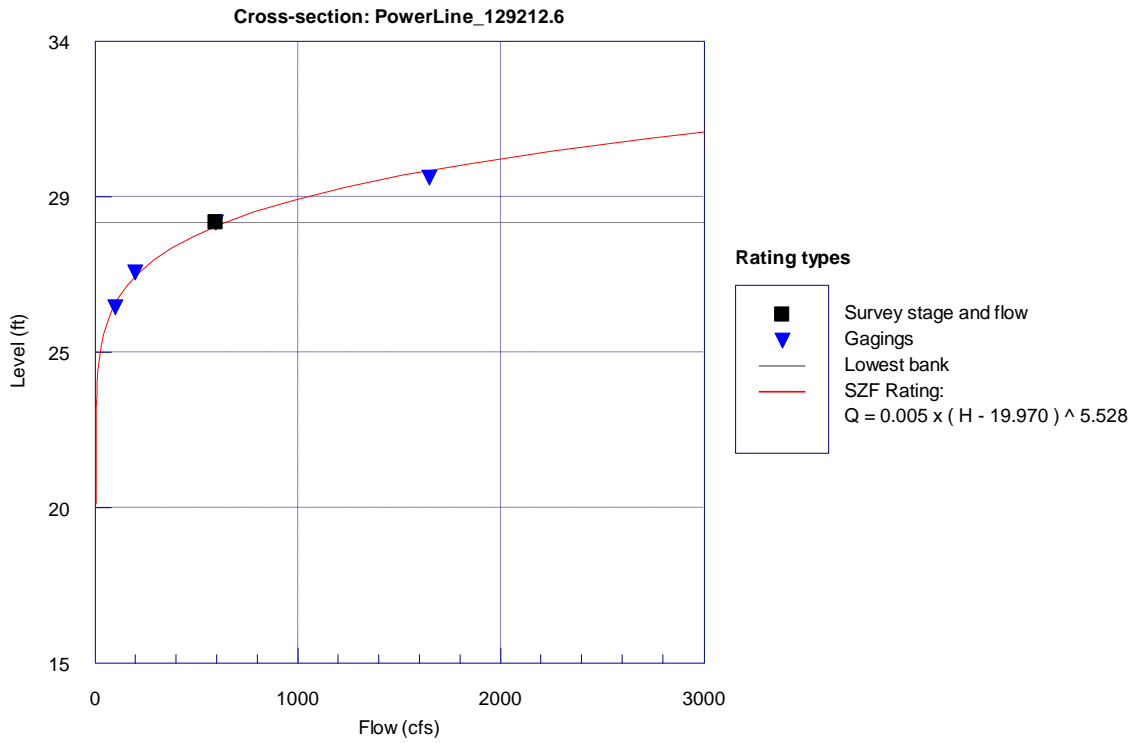
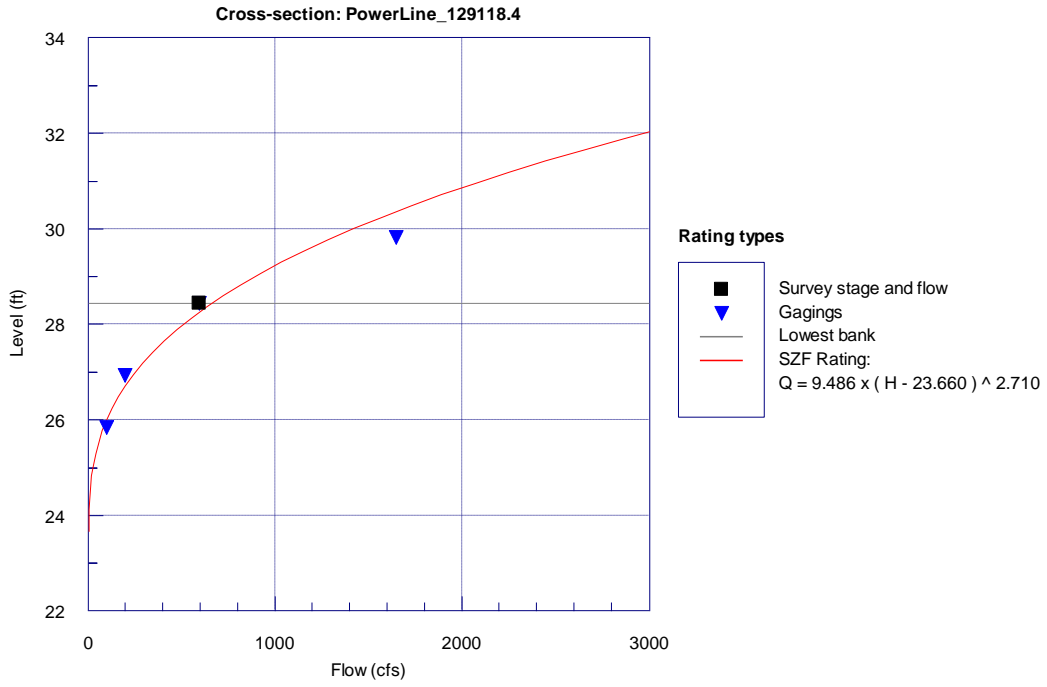


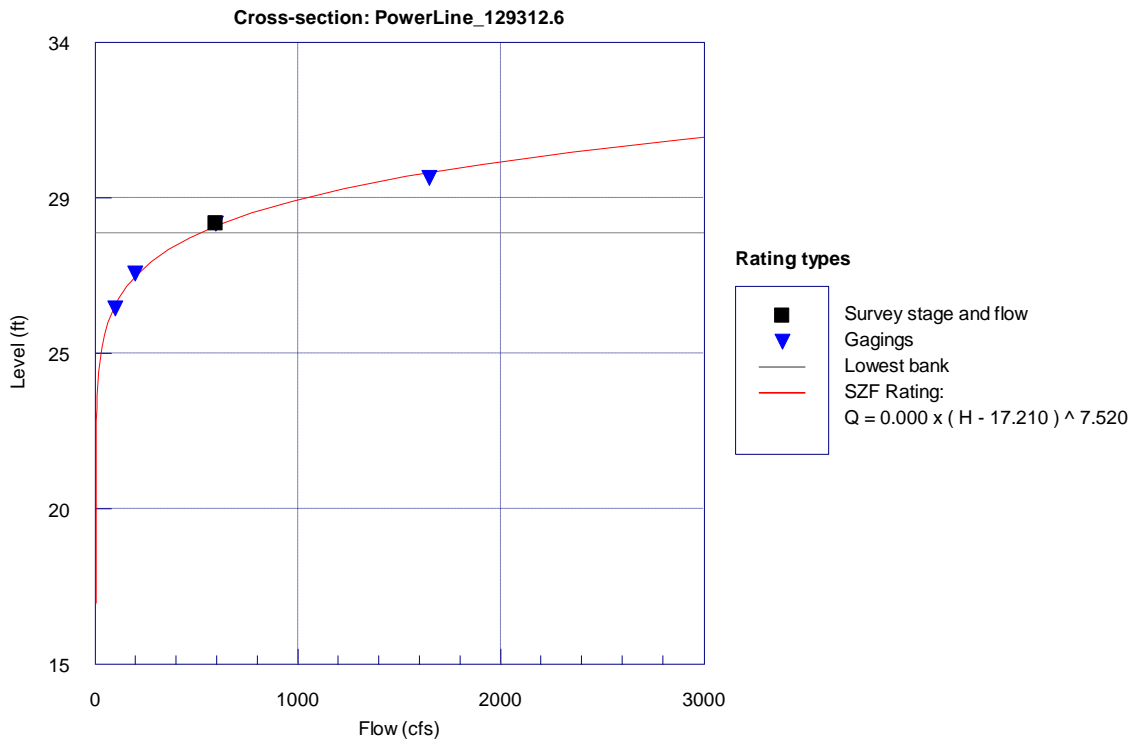
Rating types

- Survey stage and flow
- ▼ Gagings
- Lowest bank
- SZF Rating:  
 $Q = 74.301 \times (H - 16.530)^{1.771}$



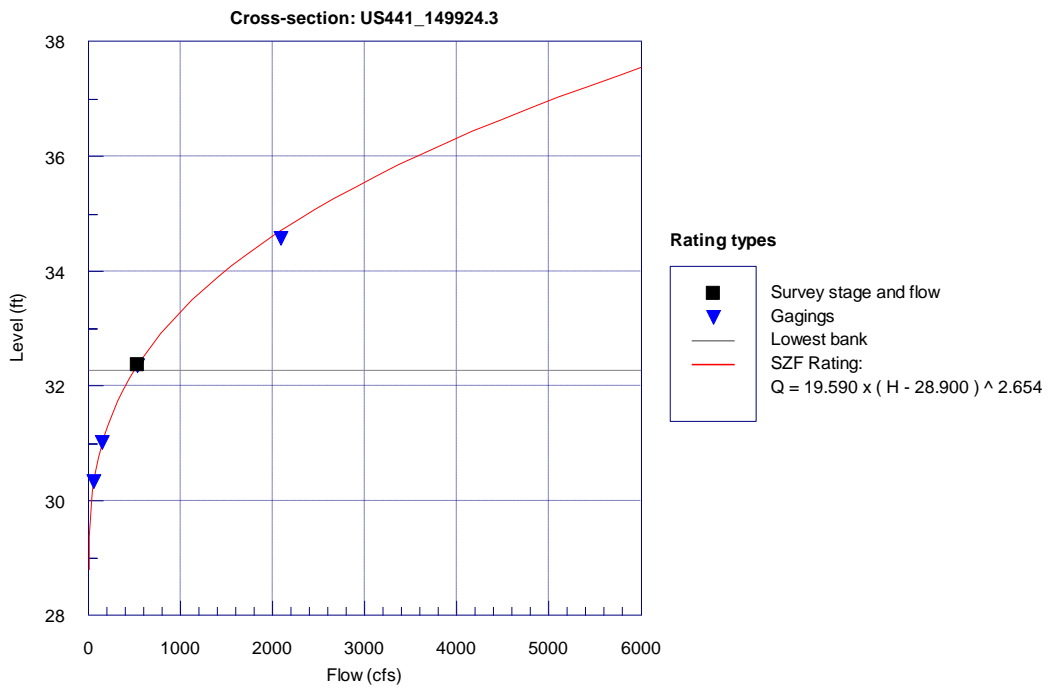
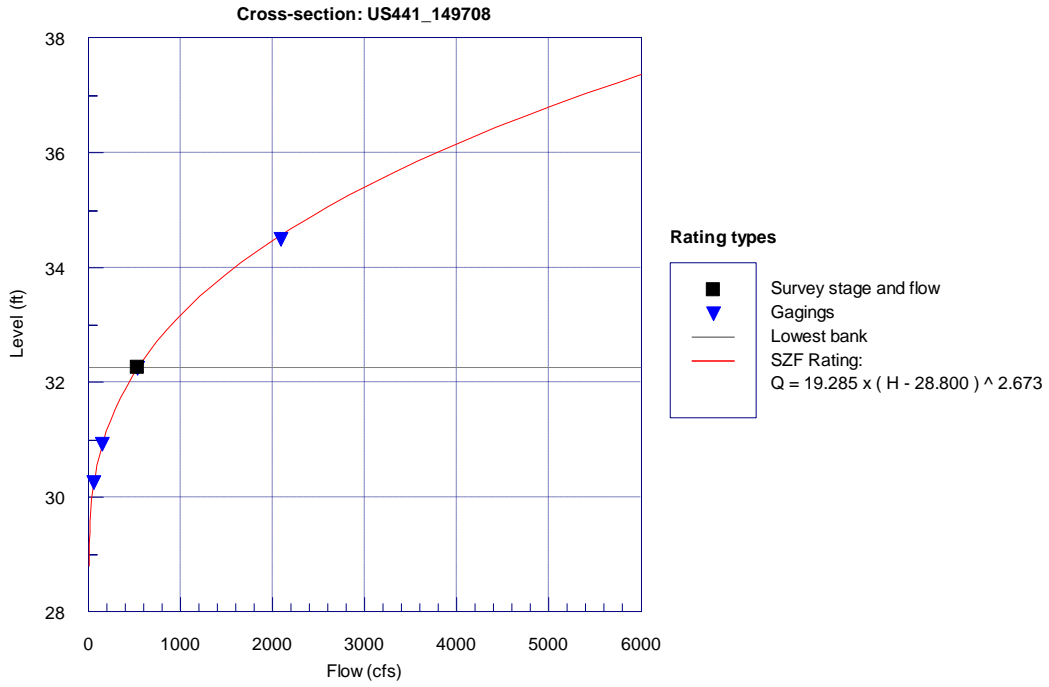
# Powerline Ratings



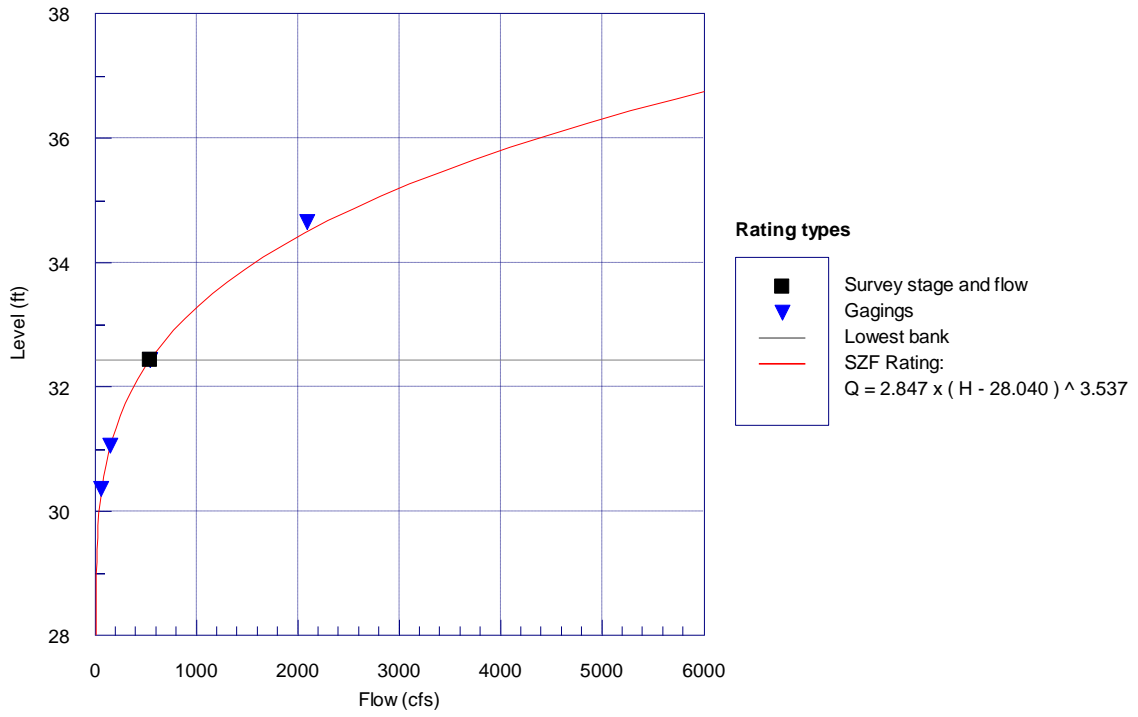


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# US441

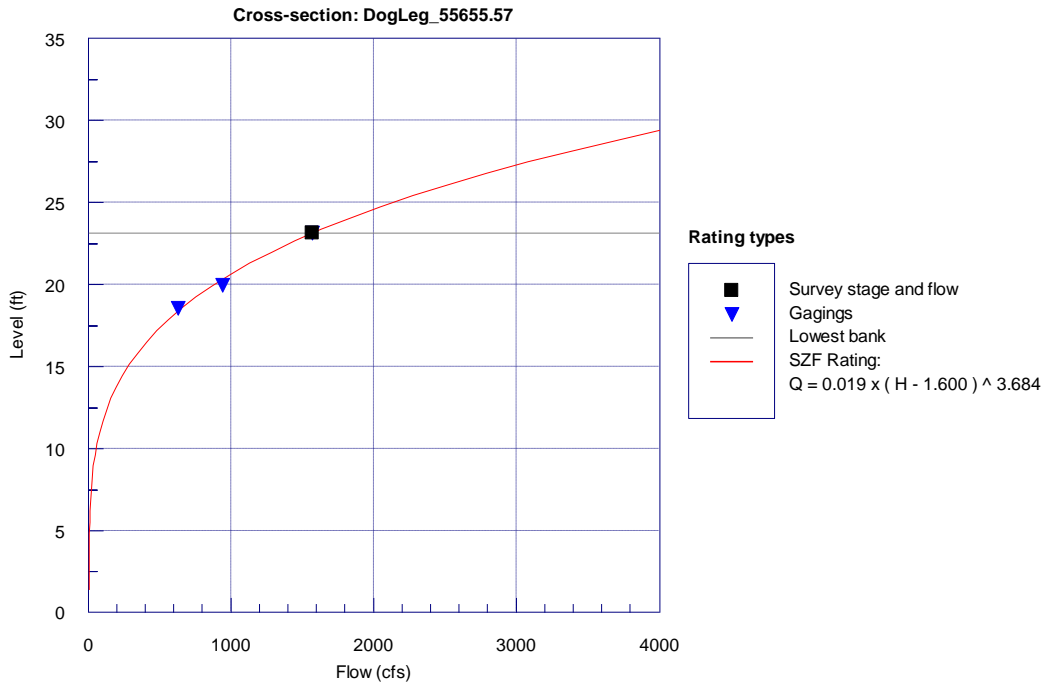
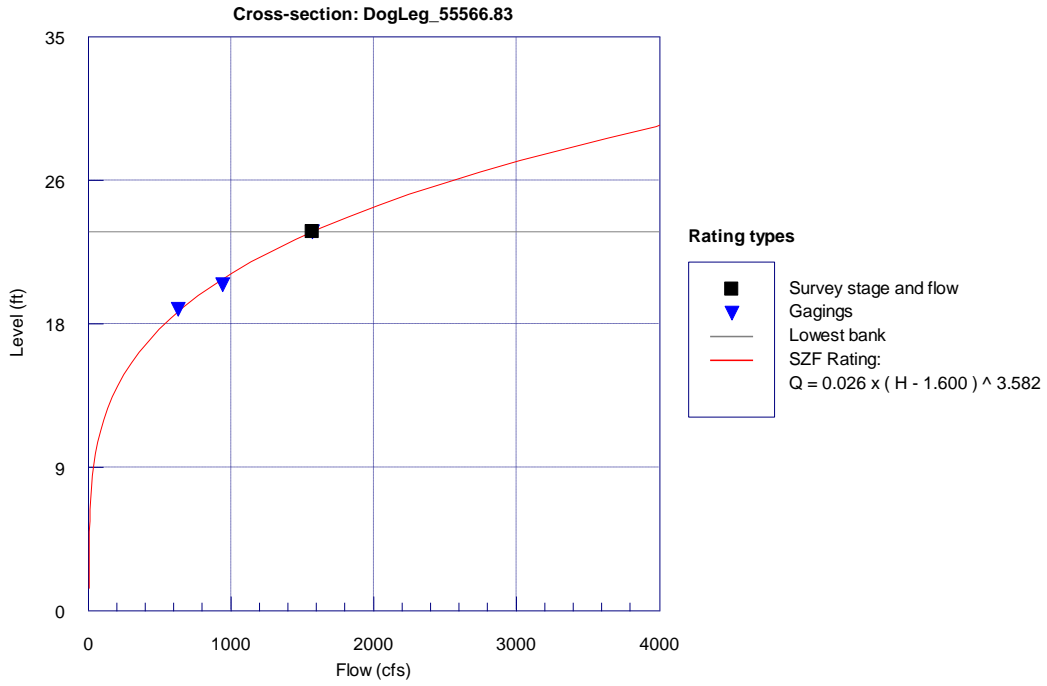


Cross-section: US441\_149924.3



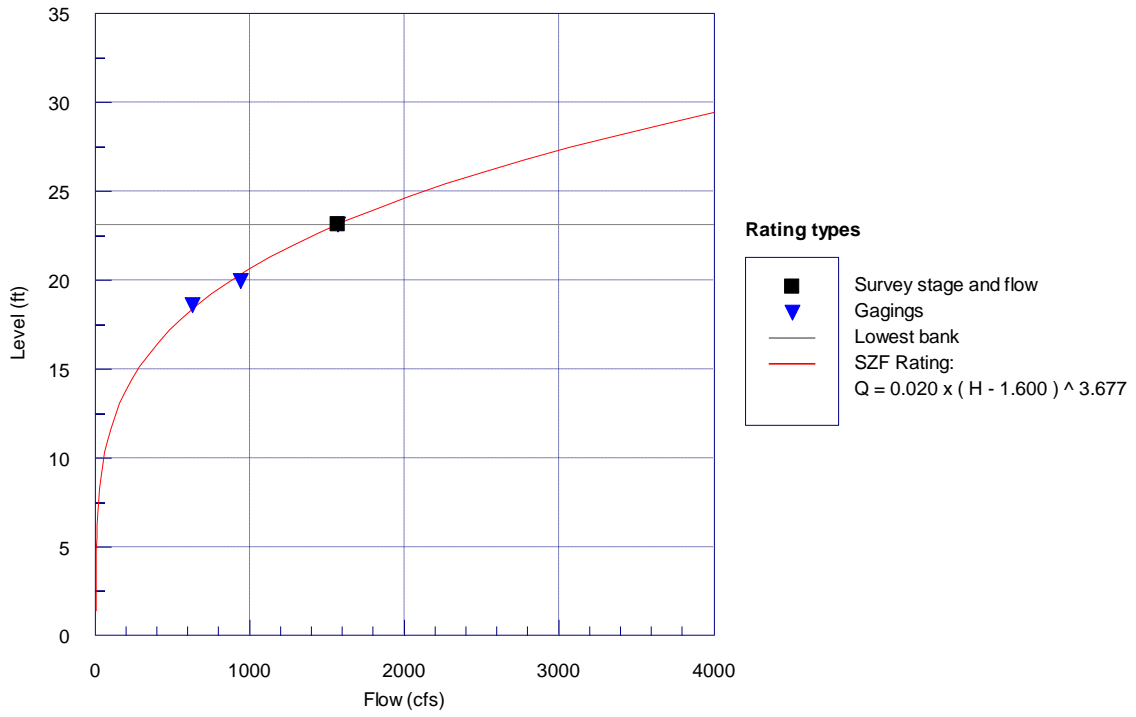
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# Dog Leg



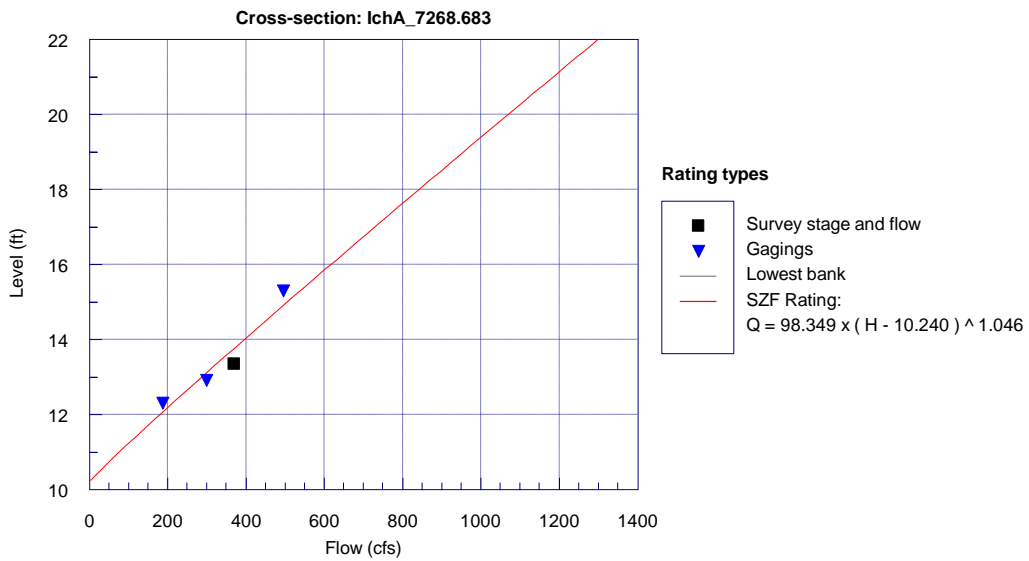
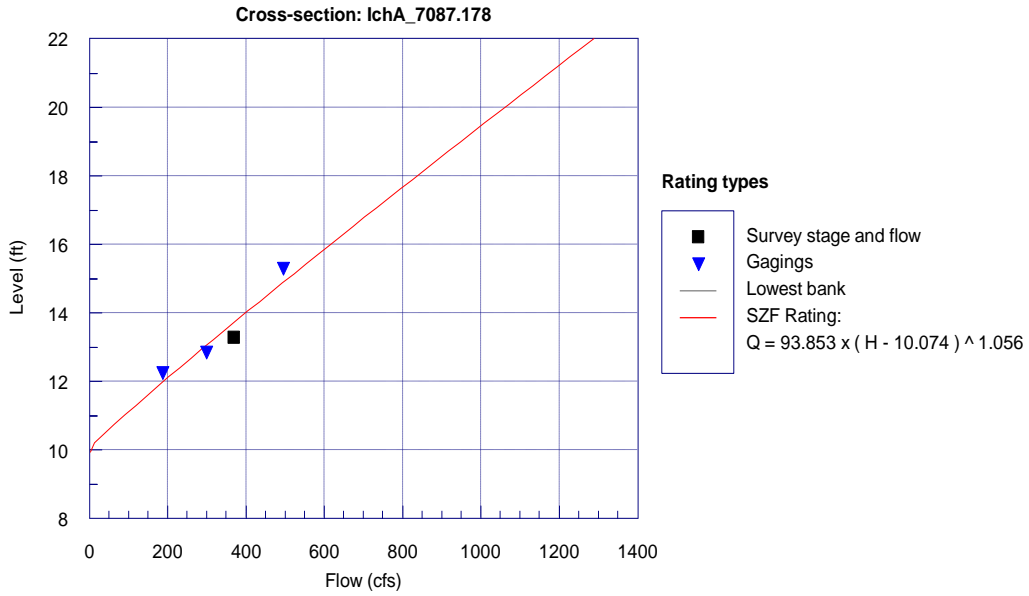


Cross-section: DogLeg\_55655.57

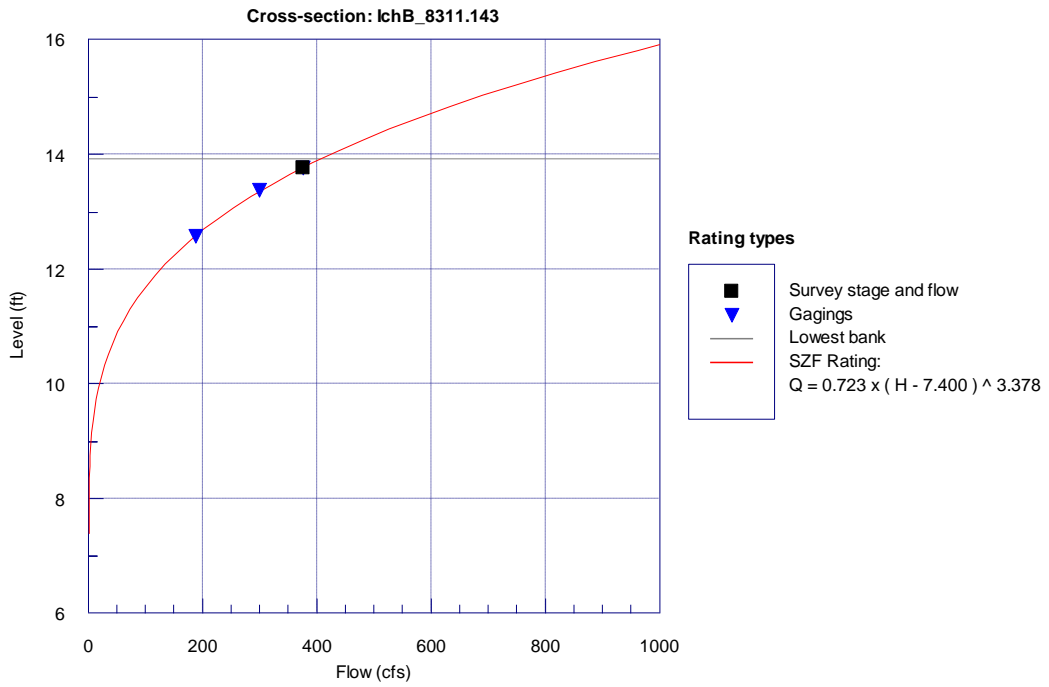
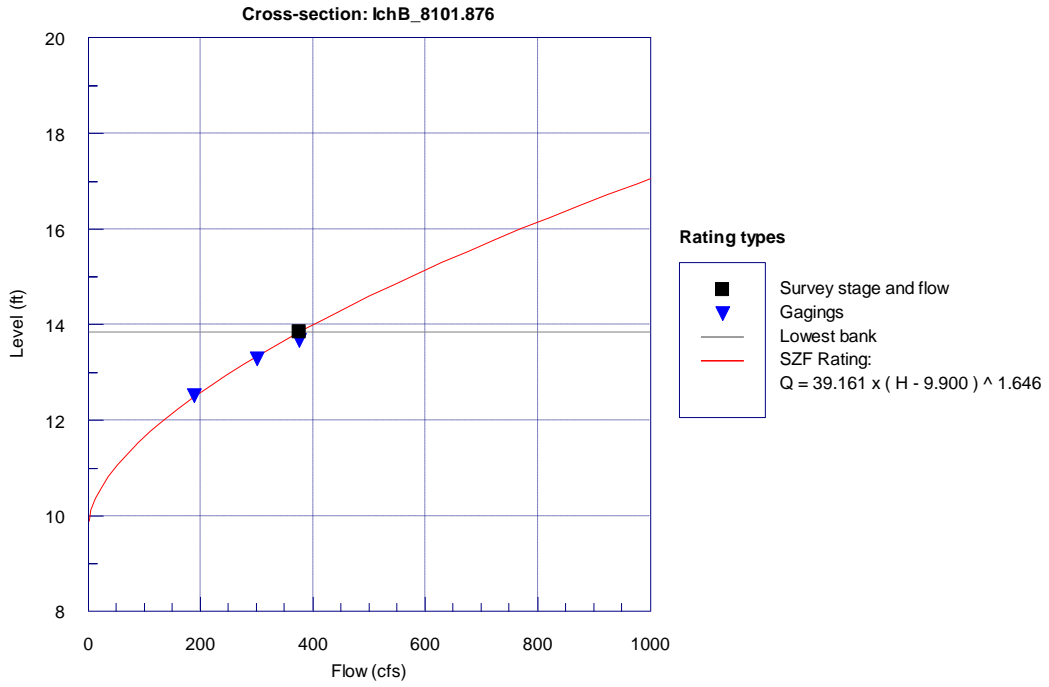


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# ICH-A



# ICH-B



**SEFA Area Weighted Suitability (AWS) Evaluation Summary**

## US441 SEFA Site Evaluation Summary

Table 1. Average AWS and relative flow reduction associated with a 15% reduction in AWS at the LSRF US441 SEFA site

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Tricoptera	120	20%
Ephemeroptera	110	20%
Habitat Guilds-DS	104	20%
Channel Catfish-fry	102	20%
Habitat Guilds-DF	98	20%
Redbreast Sunfish-adult	93	20%
Generic Darters-adult	88	20%
Cyprinidae -adult	88	20%
Plecoptera	86	20%
Redbreast Sunfish-juvenile	80	20%
EPT Total	75	20%
Redbreast Sunfish-spawning	73	20%
Bluegill -spawning	71	20%
Bluegill -juvenile	67	20%
Channel Catfish-JuvenileSpring	61	20%
Blackbanded Darter-adult	52	20%
Largemouth Bass-juvenile	46	20%
Spotted Sunfish-adult	46	20%
Largemouth Bass-spawning	44	20%
Channel Catfish-juvenileFall	37	20%
Habitat Guilds-SF	29	20%
Channel Catfish-juvenileWarmwater	24	20%
Suwannee Bass-adult	24	20%
Spotted Sunfish-spawning	23	20%
Spotted Sunfish-juvenile	23	20%
Channel Catfish-juvenile	23	20%
Channel Catfish-juvenileSummer	22	20%
Pseudocloeon ephippiatum-nymph	22	20%
Suwannee Bass-juvenile	18	20%
Channel Catfish-adult	18	20%
Habitat Guilds-SS	17	20%
Spotted Sunfish-fry	16	20%
Largemouth Bass-adult	15	20%
Channel Catfish-spawning	13	20%
Bluegill -fry	11	15%
Redbreast Sunfish-fry	11	20%
Hydropsychidae -Total	9	20%
Bluegill -adult	6	20%

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Largemouth Bass-fry	5	19%
Tvetenia vitracies-larvae	5	20%

Flow Reductions based on March 2019 RTF flows

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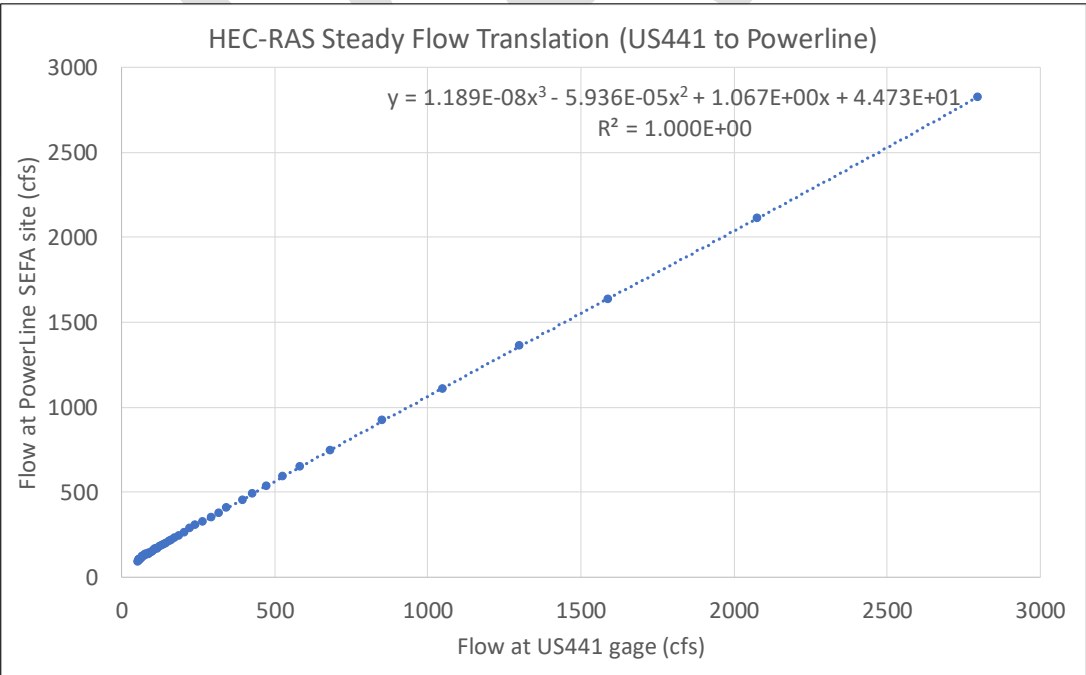
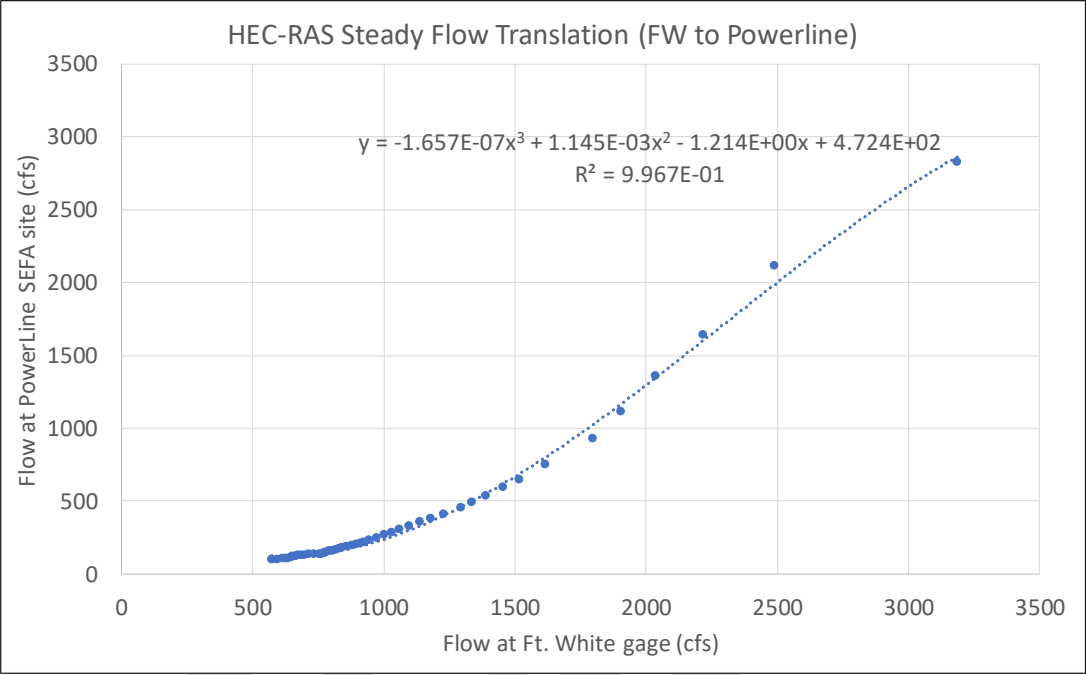
## Powerline SEFA Site Evaluation Summary

Table 2. Average AWS and relative flow reduction associated with a 15% reduction in AWS at the LSRF Powerline SEFA site.

Species / Lift Stage or Guild	Average AWS	Flow Reduction (%)
Trichoptera	103	20%
Channel Catfish-fry	75	20%
Redbreast Sunfish-adult	75	20%
Redbreast Sunfish-juvenile	65	20%
Ephemeroptera	60	20%
Habitat Guilds-DS	60	20%
Plecoptera	59	20%
Generic Darters-adult	50	20%
Largemouth Bass-juvenile	39	20%
Redbreast Sunfish-spawning	38	20%
Habitat Guilds-DF	37	20%
Cyprinidae -adult	36	20%
Bluegill -juvenile	36	20%
Suwannee Bass-adult	33	20%
Largemouth Bass-spawning	27	20%
Channel Catfish-JuvenileSpring	26	20%
Channel Catfish-adult	25	20%
Channel Catfish-juvenileSummer	22	20%
Bluegill -spawning	21	20%
Largemouth Bass-adult	21	20%
Blackbanded Darter-adult	18	20%
Spotted Sunfish-adult	18	20%
Channel Catfish-spawning	18	20%
Redbreast Sunfish-fry	17	20%
Bluegill -fry	17	20%
EPT Total	16	20%
Suwannee Bass-juvenile	16	20%
Largemouth Bass-fry	15	17%
Bluegill -adult	13	20%
Channel Catfish-juvenileFall	12	20%
Habitat Guilds-SS	8	20%
Channel Catfish-juvenileWarmwater	5	20%
Spotted Sunfish-juvenile	5	20%
Channel Catfish-juvenile	5	20%
Habitat Guilds-SF	4	20%
Hydropsychidae -Total	4	20%
Spotted Sunfish-spawning	4	20%
Spotted Sunfish-fry	2	20%

Species / Lift Stage or Guild	Average AWS	Flow Reduction (%)
Pseudocloeon ephippiatum-nymph	2	20%
Tvetenia vitracies-larvae	2	20%

Flow Reductions based on March 2019 RTF flows





### Ft White SEFA Site Evaluation Summary

*Table 3. Average AWS and relative flow reduction associated with a 15% reduction in AWS at the LSR Ft. White SEFA site.*

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Cyprinidae -adult	51	14%
Tricoptera	49	20%
EPT Total	49	20%
Redbreast Sunfish-adult	47	13%
Redbreast Sunfish-juvenile	44	7%
Channel Catfish-juvenileSummer	43	20%
Habitat Guilds-DF	39	20%
Ephemeroptera	36	20%
Habitat Guilds-DS	34	9%
Bluegill -juvenile	32	7%
Redbreast Sunfish-spawning	23	5%
Spotted Sunfish-adult	23	20%
Bluegill -spawning	21	8%
Largemouth Bass-juvenile	20	5%
Channel Catfish-JuvenileSpring	20	20%
Plecoptera	18	15%
Bluegill -fry	18	4%
Largemouth Bass-fry	17	4%
Habitat Guilds-SS	16	6%
Blackbanded Darter-adult	14	20%
Generic Darters-adult	12	20%
Largemouth Bass-spawning	12	7%
Largemouth Bass-adult	11	4%
Suwannee Bass-adult	10	20%
Channel Catfish-fry	10	20%
Suwannee Bass-juvenile	8	6%
Channel Catfish-adult	7	13%
Spotted Sunfish-juvenile	6	20%
Channel Catfish-juvenile	5	20%
Spotted Sunfish-spawning	5	20%
Channel Catfish-juvenileFall	5	20%
Spotted Sunfish-fry	4	20%
Bluegill -adult	4	6%
Channel Catfish-spawning	3	14%
Redbreast Sunfish-fry	3	4%
Habitat Guilds-SF	2	20%
Tvetenia vitracies-larvae	0	20%
Channel Catfish-juvenileWarmwater	0	20%

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Hydropsychidae -Total	0	20%
Pseudocloeon ephippiatum-nymph	0	20%

Flow Reductions based on March 2019 RTF flows

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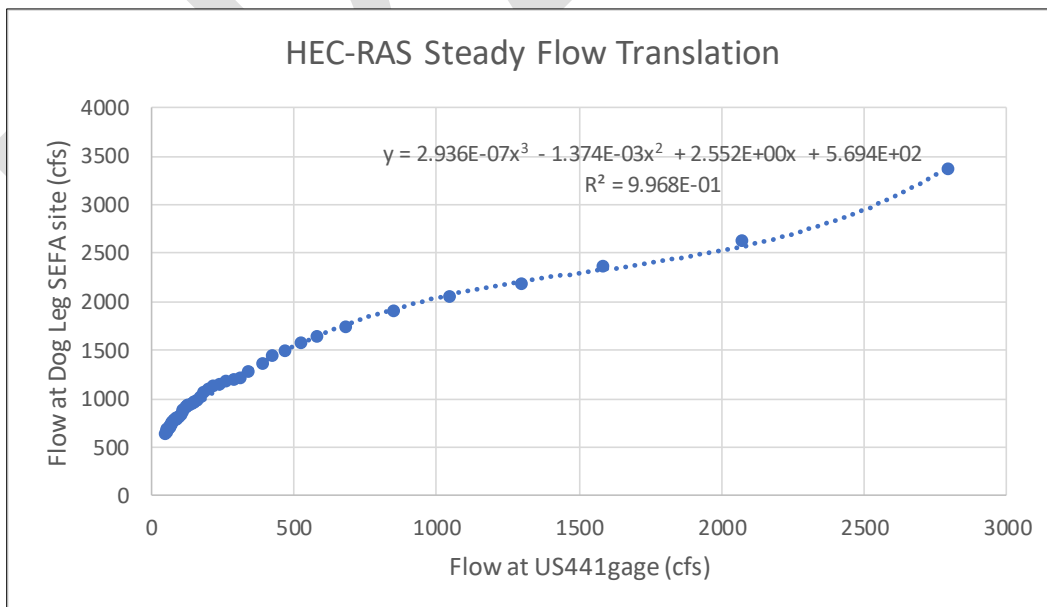
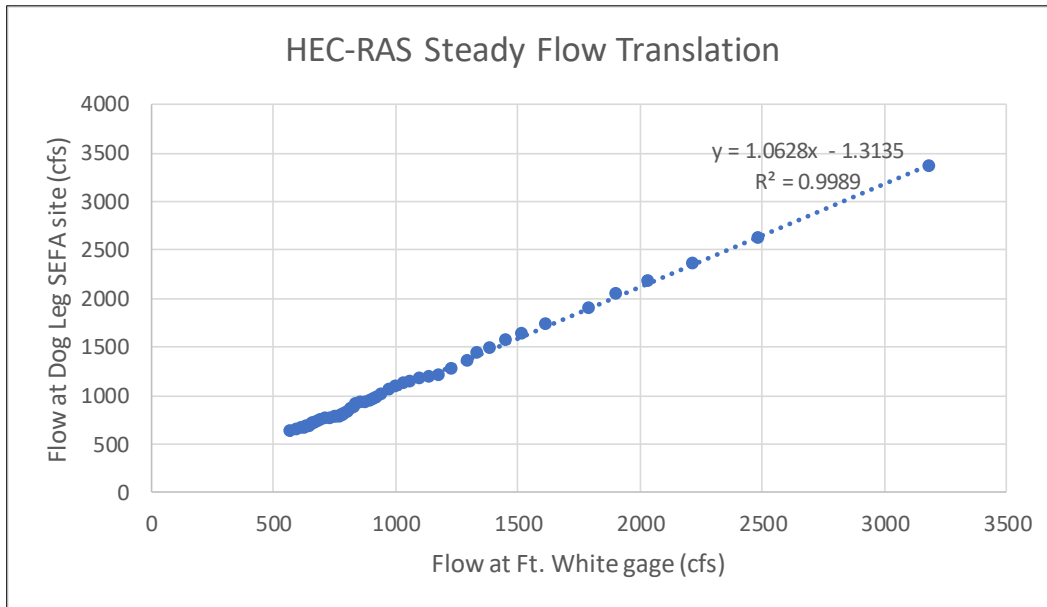
### Dog Leg SEFA Site Evaluation Summary

Table 4. Average AWS and relative flow reduction associated with a 15% reduction in AWS at the LSRF Dog Leg SEFA site.

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Redbreast Sunfish-adult	107	14%
Trichoptera	94	18%
Redbreast Sunfish-juvenile	80	13%
Channel Catfish-juvenileSummer	68	20%
Largemouth Bass-fry	53	9%
Ephemeroptera	49	20%
Suwannee Bass-adult	47	12%
Largemouth Bass-spawning	47	11%
Habitat Guilds-DS	46	11%
Spotted Sunfish-adult	46	20%
Bluegill -juvenile	42	15%
Cyprinidae -adult	41	20%
Habitat Guilds-DF	40	20%
Suwannee Bass-juvenile	37	11%
Plecoptera	33	20%
Channel Catfish-adult	33	9%
Largemouth Bass-juvenile	32	11%
Blackbanded Darter-adult	28	12%
Channel Catfish-fry	28	11%
Channel Catfish-JuvenileSpring	26	20%
Channel Catfish-spawning	22	8%
Generic Darters-adult	22	20%
Redbreast Sunfish-spawning	18	16%
Redbreast Sunfish-fry	18	11%
Habitat Guilds-SS	16	15%
Bluegill -spawning	16	13%
Spotted Sunfish-juvenile	13	20%
Channel Catfish-juvenile	13	20%
Bluegill -fry	11	10%
EPT Total	11	20%
Bluegill -adult	10	9%
Channel Catfish-juvenileWarmwater	9	20%
Channel Catfish-juvenileFall	8	18%
Spotted Sunfish-spawning	7	14%
Largemouth Bass-adult	7	16%
Spotted Sunfish-fry	5	15%
Habitat Guilds-SF	2	20%
Tvetenia vitracies-larvae	2	20%

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Hydropsychidae -Total	1	20%
Pseudocloeon ephippiatum-nymph	1	20%

Flow Reductions based on March 2019 RTF flows



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## ICH A SEFA Site Evaluation Summary

Table 5. Average AWS and relative flow reduction associated with a 15% reduction in AWS at the IR ICH A SEFA site.

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Cyprinidae -adult	41.4	9.8%
Blackbanded Darter-adult	26.8	20.0%
Ephemeroptera	25.0	18.5%
Channel Catfish-juvenileSummer	22.0	20.0%
Tricoptera	20.2	20.0%
EPT Total	17.2	20.0%
Largemouth Bass-spawning*	15.1	4.5%
Channel Catfish-JuvenileSpring	14.2	20.0%
Habitat Guilds-SS	11.1	4.2%
Bluegill -juvenile	9.3	5.5%
Channel Catfish-adult	8.8	9.5%
Channel Catfish-juvenileWarmwater	8.5	20.0%
Habitat Guilds-DF	8.5	20.0%
Bluegill -spawning	8.4	8.0%
Tvetenia vitracies-larvae	6.1	20.0%
Channel Catfish-spawning	5.9	17.6%
Channel Catfish-fry	5.8	20.0%
Plecoptera	5.1	20.0%
Generic Darters-adult	4.9	20.0%
Redbreast Sunfish-juvenile	4.3	5.4%
Spotted Sunfish-adult	4.2	20.0%
Largemouth Bass-juvenile	2.8	4%
Redbreast Sunfish-adult	2.5	18.4%
Suwannee Bass-adult	2.3	20.0%
Channel Catfish-juvenileFall	2.0	20.0%
Channel Catfish-juvenile	1.3	20.0%
Spotted Sunfish-juvenile	1.3	20.0%
Spotted Sunfish-fry	1.2	20.0%
Spotted Sunfish-spawning	1.1	16.8%
Hydropsychidae -Total	0.9	20.0%
Bluegill -fry	0.8	3.1%
Redbreast Sunfish-spawning	0.5	20.0%
Suwannee Bass-juvenile	0.3	20.0%
Bluegill -adult	0.2	5.5%
Redbreast Sunfish-fry	0.0	20.0%
Habitat Guilds-SF	0.0	20.0%
Habitat Guilds-DS	0.0	20.0%
Pseudocloeon ehippiatum-nymph	0.0	20.0%

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Largemouth Bass-adult	0.0	20.0%
Largemouth Bass-fry	0.0	20.0%

Flow Reductions based on March 2019 RTF flows

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## ICH B SEFA Site Evaluation Summary

*Table 6. Average AWS and relative flow reduction associated with a 15% reduction in AWS at the IR ICH A SEFA site.*

Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Cyprinidae -adult	29	11%
Blackbanded Darter-adult	28.1	20%
Channel Catfish-juvenileSummer	23.6	20%
Tricoptera	21.8	20%
Channel Catfish-adult	21.2	14%
Ephemeroptera	20.3	20%
Channel Catfish-spawning	20	20%
EPT Total	14	20%
Channel Catfish-JuvenileSpring	13.3	20%
Channel Catfish-fry	9.9	20%
Largemouth Bass-spawning	9.1	13%
Habitat Guilds-DF	8.9	20%
Bluegill -spawning	6.8	20%
Generic Darters-adult	6.4	20%
Plecoptera	5.9	20%
Suwannee Bass-adult	5.8	20%
Bluegill -juvenile	5.5	8%
Spotted Sunfish-adult	5	20%
Channel Catfish-juvenileWarmwater	4.5	20%
Tvetenia vitracies-larvae	4	20%
Redbreast Sunfish-adult	3.8	20%
Redbreast Sunfish-juvenile	2.8	20%
Largemouth Bass-juvenile	2.7	6%
Habitat Guilds-SS	2.4	4%
Channel Catfish-juvenileFall	2.3	20%
Redbreast Sunfish-spawning	1.8	20%
Spotted Sunfish-juvenile	1.8	20%
Spotted Sunfish-spawning	1.6	20%
Spotted Sunfish-fry	1.6	11%
Channel Catfish-juvenile	1.5	20%
Suwannee Bass-juvenile	0.7	14%
Hydropsychidae -Total	0.6	20%
Bluegill -adult	0.5	20%
Redbreast Sunfish-fry	0.3	20%
Bluegill -fry	0.2	3%
Habitat Guilds-SF	0	20%
Habitat Guilds-DS	0	20%



Species / Life Stage or Guild	Average AWS	Flow Reduction (%)
Pseudocloeon ehippiatum-nymph	0	20%
Largemouth Bass-adult	0	20%
Largemouth Bass-fry	0	20%

Flow Reductions based on March 2019 RTF flows

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