

APPENDIX C-1
PCWA Stream Habitat Mapping Data Sheet

PCWA Stream Habitat Mapping Data Sheet **Form A** **Page Set #** _____

Team Initials _____ **Date** _____ **Stream/Reach Name** _____
dd/mon/yyyy **Direction (Up/Down)** _____
GPS Unit _____ **Acc:** _____
Start GPS _____ / _____
start waypoint utm-easting utm-northing **Water Temp** _____
End GPS _____ / _____
end waypoint utm-easting utm-northing **Est. Flow** _____
Start Time _____ **End Time** _____ **Start Pt Description** _____
hh:mm hh:mm

Habitat Unit Number
Hip Chain Distance
Habitat Unit Type (Hawkins)
Side Chan. Hab Type
Mean Width
Mean Depth
Max Depth

Bed Substrate (10%)
 1. Fines (organic mat.)
 2. Fines (silt/clay)<.062
 3. Sands 0.062-2.0mm
 4. Gravels 2-64mm
 5. Cobbles 64-256 mm
 6. Boulder 25.6 cm-4.1 m
 7. Bedrock

Canopy Cover %
Spawning Gravel (0.25-3.0")
 Active Channel (cu. Ft.)
 Spawning Quality
 Behind Boulders (cu. Ft.)
 # pockets behind bould.
 Spawning Gravels L1
 Spawning Quality
 Spawning Gravels L2
 Spawning Quality

Bank Parameters
 % Veg. Left Bank
 Dom. Veg. LB
 % Veg. Right Bank
 Dom. Veg. RB
 Graminoids LB
 Graminoids RB
 Erodability Lev.1/2 LB
 Erodability Lev.3 LB
 Erodability Lev.1/2 RB
 Erodability Lev.3 RB

PCWA Stream Habitat Mapping Data Sheet

Form B

Page Set # _____

Team Initials _____

Date _____
dd/mon/yyyy

Stream/Reach Name

Habitat Unit Number

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Fish Cover (10%)

- Boulders
- Bedrock Ledge
- Turbulence
- Depth
- Aquatic Veg.
- Terr. Veg.
- Undercut Banks
- Woody Debris
- Rootwad

Cover Complexity

of Cover Types

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Large Wood Count (#:size)

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Photos

- Roll #
- Photo #

Special Observs.

Tributary

- Discharge (cfs)
- Temp

Incidental species

Frogs

- species
- life stage

Barrier (CAS/BRS/LGR/DRY)

- height/length
- depth

Organics (Didymo)

- % cover
- sample ID

Page _____ of _____

APPENDIX C-2

Photo Log of Example Mesohabitat Types by River

Appendix C-2. Photo Log of Example Mesohabitat Types by River.

Photo No.	River	Section/Reach	Description
C-2-1	Middle Fork American River	Reach 1	Pool Habitat
C-2-2	Middle Fork American River	Reach 1	Run Habitat
C-2-3	Middle Fork American River	Reach 1	Low Gradient Riffle
C-2-4	Middle Fork American River	Reach 2	Pool Habitat
C-2-5	Middle Fork American River	Reach 2	Run Habitat
C-2-6	Middle Fork American River	Reach 2	High Gradient Riffle
C-2-7	Middle Fork American River	Reach 2	Cascade
C-2-8	Middle Fork American River	Reach 3	Pool Habitat
C-2-9	Middle Fork American River	Reach 3	Run Habitat
C-2-10	Middle Fork American River	Reach 3	High Gradient Riffle
C-2-11	Middle Fork American River	Reach 3	Cascade/Barrier
C-2-12	Rubicon River	Reach 1	Pool Habitat
C-2-13	Rubicon River	Reach 1	Run Habitat
C-2-14	Rubicon River	Reach 1	High Gradient Riffle
C-2-15	Rubicon River	Reach 1	Low Gradient Riffle
C-2-16	Rubicon River	Reach 1	Cascade
C-2-17	Rubicon River	Reach 2	Pool Habitat
C-2-18	Rubicon River	Reach 2	Run Habitat
C-2-19	Rubicon River	Reach 2	High Gradient Riffle
C-2-20	Rubicon River	Reach 2	Cascade
C-2-21	Rubicon River	Reach 3	Pool Habitat
C-2-22	Rubicon River	Reach 3	Run Habitat
C-2-23	Rubicon River	Reach 3	Riffle Habitat
C-2-24	Long Canyon Creek	Reach 1	Pool Habitat
C-2-25	Long Canyon Creek	Reach 1	Run Habitat
C-2-26	Long Canyon Creek	Reach 1	Low Gradient Riffle
C-2-27	Long Canyon Creek	Reach 1	Cascade/Barrier
C-2-28	Long Canyon Creek	Reach 2	Pool Habitat
C-2-29	Long Canyon Creek	Reach 2	Run Habitat
C-2-30	Long Canyon Creek	Reach 2	Low Gradient Riffle
C-2-31	Long Canyon Creek	Reach 2	Cascade/Barrier
C-2-32	North Fork Long Canyon Creek	Reach 1	Pool Habitat
C-2-33	North Fork Long Canyon Creek	Reach 1	Low Gradient Riffle
C-2-34	South Fork Long Canyon Creek	Reach 1	Riffle Habitat
C-2-35	South Fork Long Canyon Creek	Reach 1	Low Gradient Riffle
C-2-36	Duncan Creek	Reach 2	Pool Habitat
C-2-37	Duncan Creek	Reach 2	Run Habitat
C-2-38	Duncan Creek	Reach 2	High Gradient Riffle
C-2-39	Duncan Creek	Reach 2	Low Gradient Riffle

C-2-1. Middle Fork American River – Reach 1 Pool Habitat.



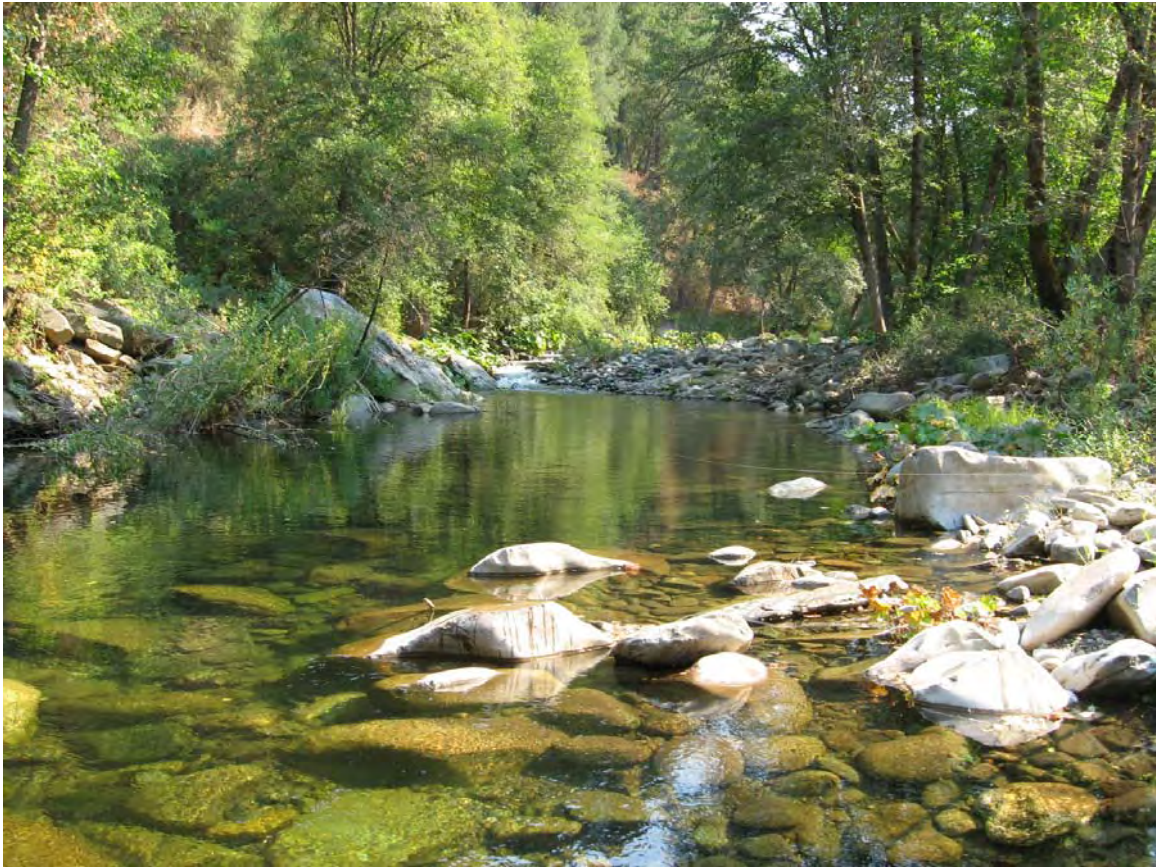
C-2-2. Middle Fork American River – Reach 1 Run Habitat.



C-2-3. Middle Fork American River – Reach 1 Low Gradient Riffle.



C-2-4. Middle Fork American River – Reach 2 Pool Habitat.



C-2-5. Middle Fork American River – Reach 2 Run Habitat.



C-2-6. Middle Fork American River – Reach 2 High Gradient Riffle.



C-2-7. Middle Fork American River – Reach 2 Cascade.



C-2-8. Middle Fork American River – Reach 3 Pool Habitat.



C-2-9. Middle Fork American River – Reach 3 Run Habitat.



C-2-10. Middle Fork American River – Reach 3 High Gradient Riffle.



C-2-11. Middle Fork American River – Reach 3 Cascade/Barrier.



C-2-12. Rubicon River – Reach 1 Pool Habitat.



C-2-13. Rubicon River – Reach 1 Run Habitat.



C-2-14. Rubicon River – Reach 1 High Gradient Riffle.



C-2-15. Rubicon River – Reach 1 Low Gradient Riffle.



C-2-16. Rubicon River – Reach 1 Cascade.



C-2-17. Rubicon River – Reach 2 Pool Habitat.



C-2-18. Rubicon River – Reach 2 Run Habitat.



C-2-19. Rubicon River – Reach 2 High Gradient Riffle.



C-2-20. Rubicon River – Reach 2 Cascade.



C-2-21. Rubicon River – Reach 3 Pool Habitat.



C-2-22. Rubicon River – Reach 3 Run Habitat.



C-2-23. Rubicon River – Reach 3 Riffle Habitat.



C-2-24. Long Canyon Creek – Reach 1 Pool Habitat.



C-2-25. Long Canyon Creek – Reach 1 Run Habitat.



C-2-26. Long Canyon Creek – Reach 1 Low Gradient Riffle.



C-2-27. Long Canyon Creek – Reach 1 Cascade/Barrier.



C-2-28. Long Canyon Creek – Reach 2 Pool Habitat.



C-2-29. Long Canyon Creek – Reach 2 Run Habitat.



C-2-30. Long Canyon Creek – Reach 2 Low Gradient Riffle.



C-2-31. Long Canyon Creek – Reach 2 Cascade/Barrier.



C-2-32. North Fork Long Canyon Creek – Reach 1 Pool Habitat.



C-2-33. North Fork Long Canyon Creek – Reach 1 Low Gradient Riffle.



C-2-34. South Fork Long Canyon Creek – Reach 1 Riffle Habitat.



C-2-35. South Fork Long Canyon Creek – Reach 1 Low Gradient Riffle



C-2-36. Duncan Creek – Reach 2 Pool Habitat.



C-2-37. Duncan Creek – Reach 2 Run Habitat.



C-2-38. Duncan Creek – Reach 2 High Gradient Riffle.



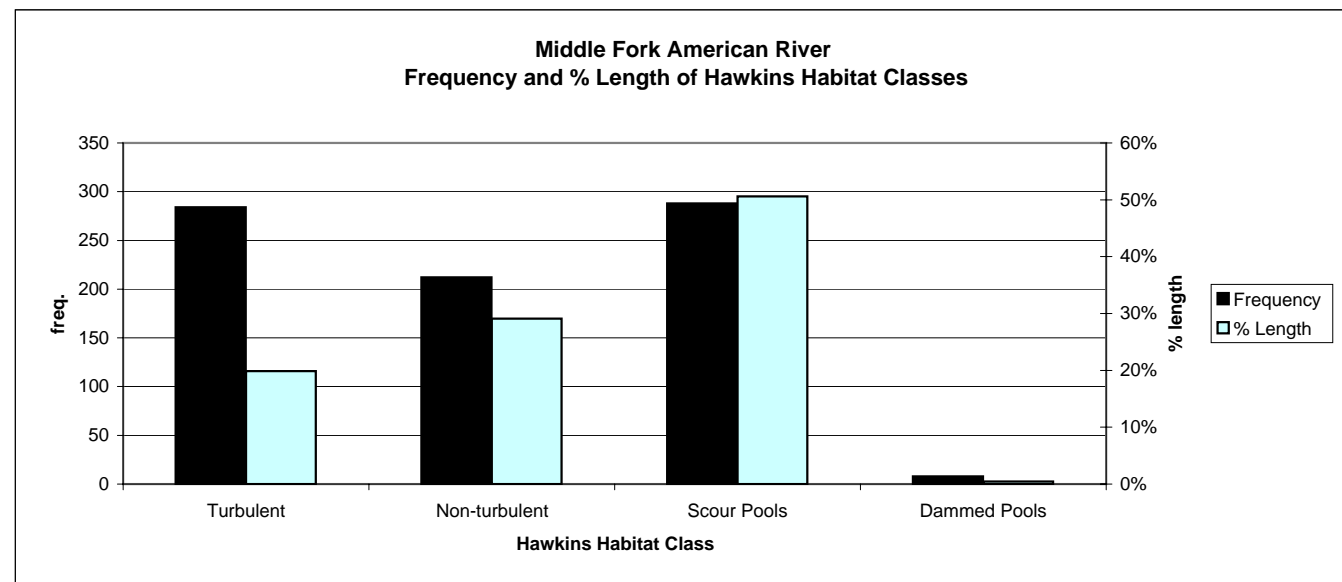
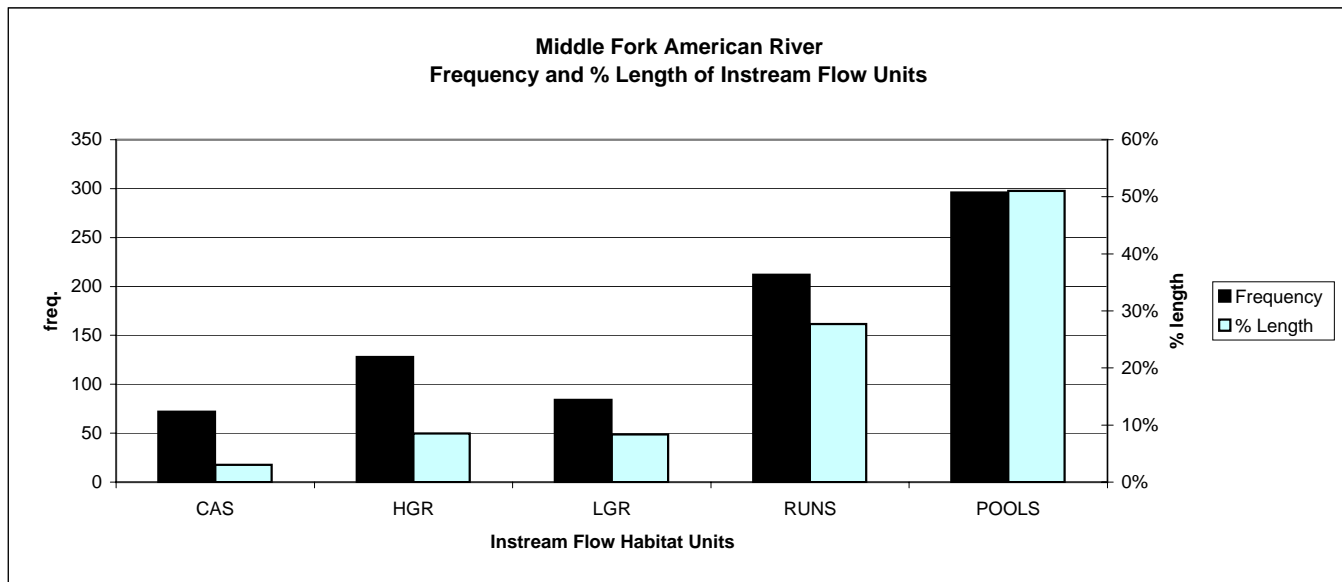
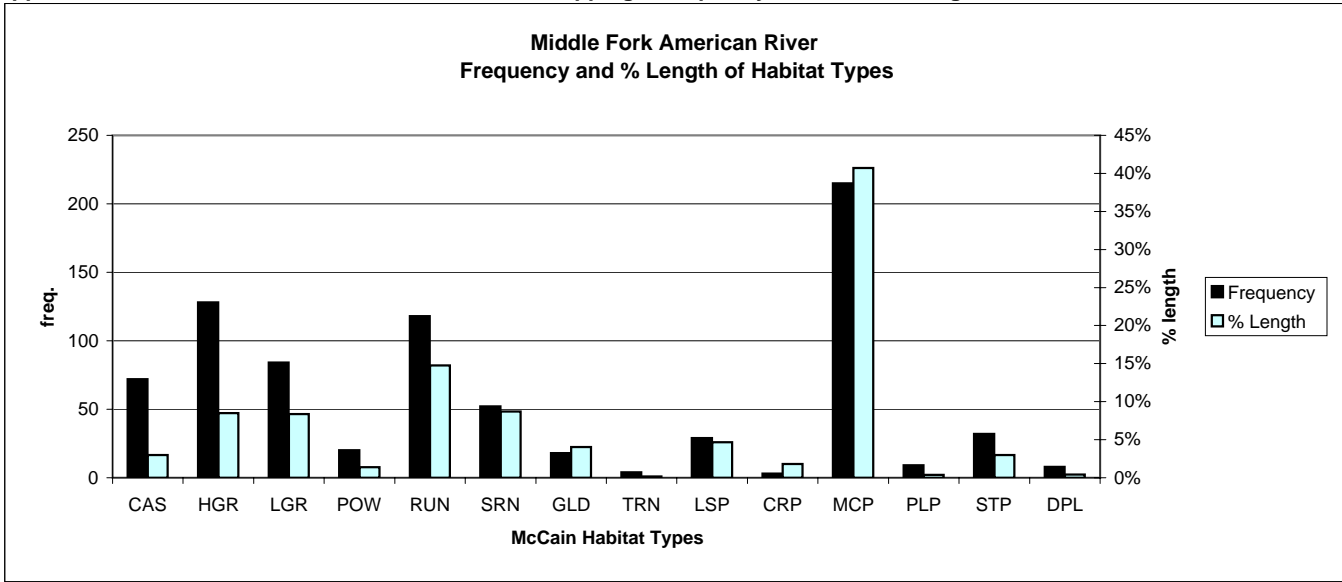
C-2-39. Duncan Creek – Reach 2 Low Gradient Riffle.



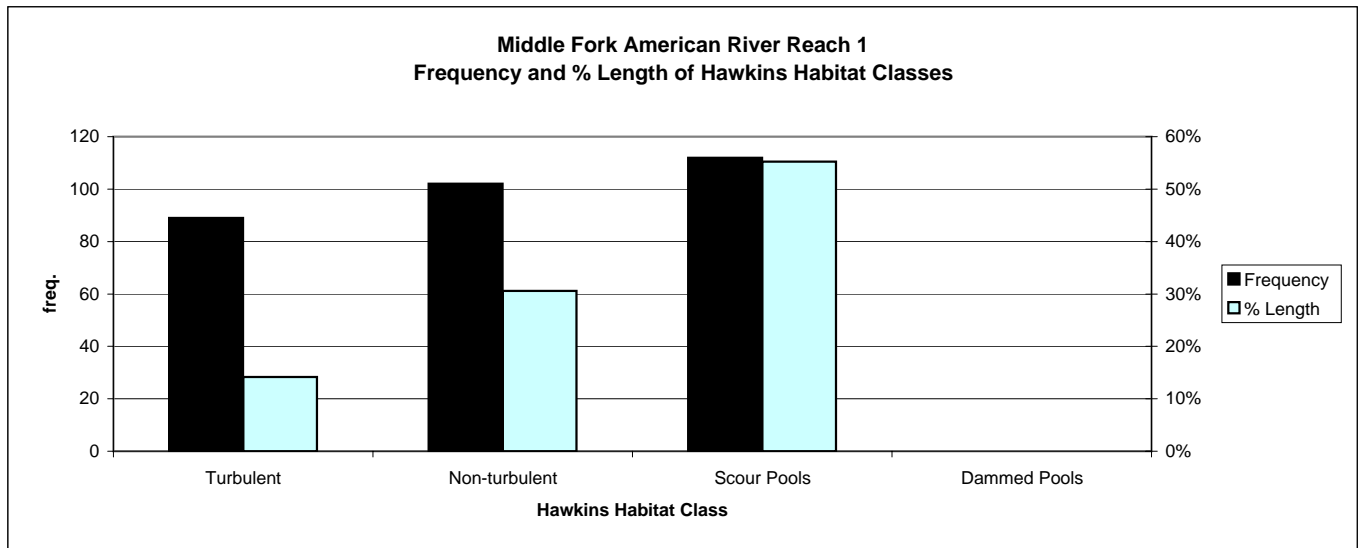
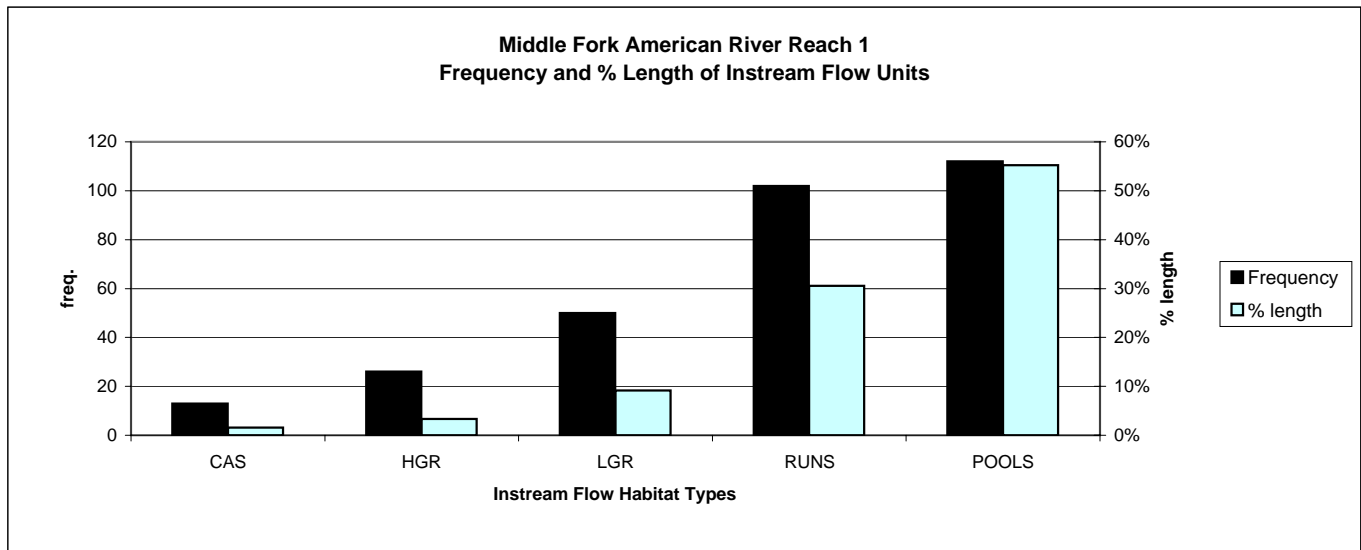
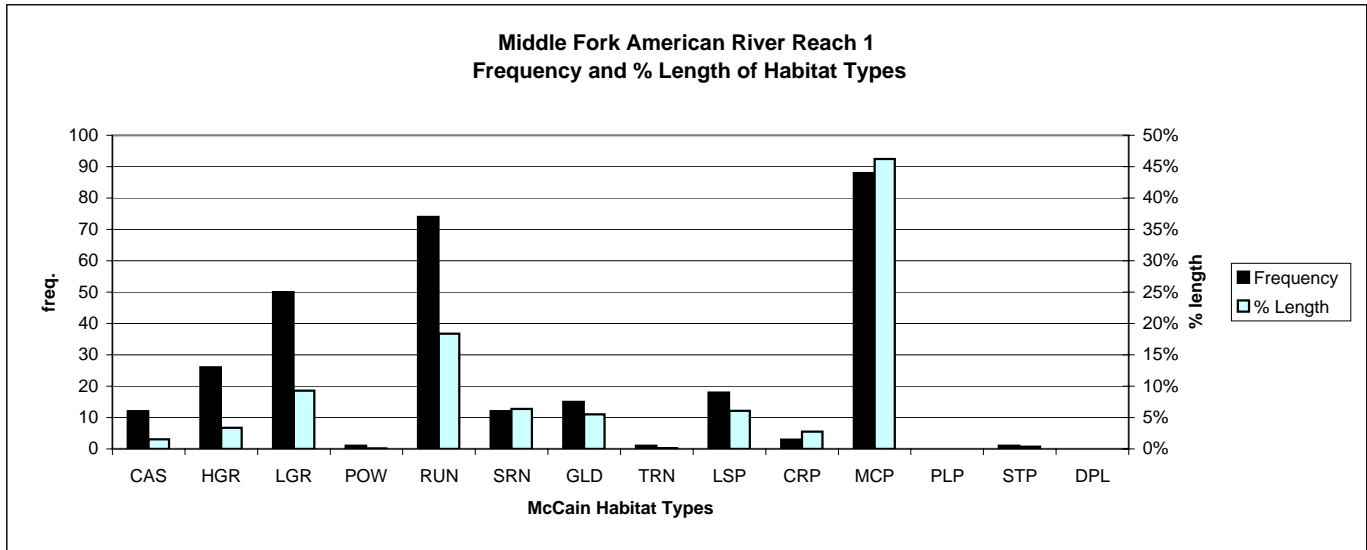
APPENDIX C-3

**Habitat Mapping and Comparison Reaches
Frequency and Percent Length Results**

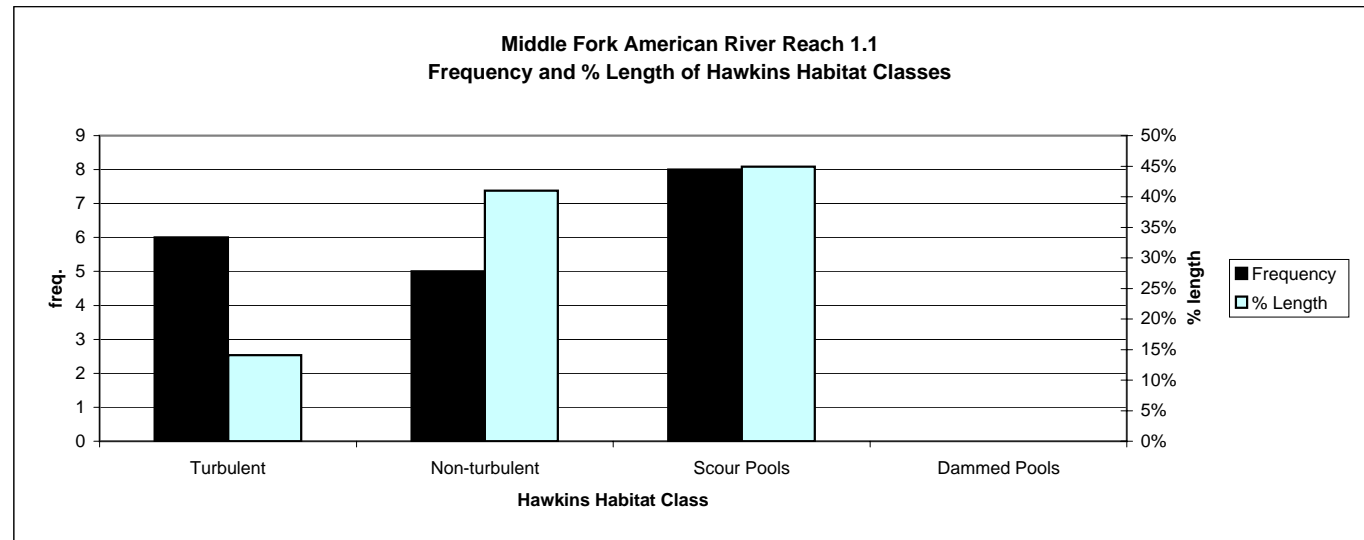
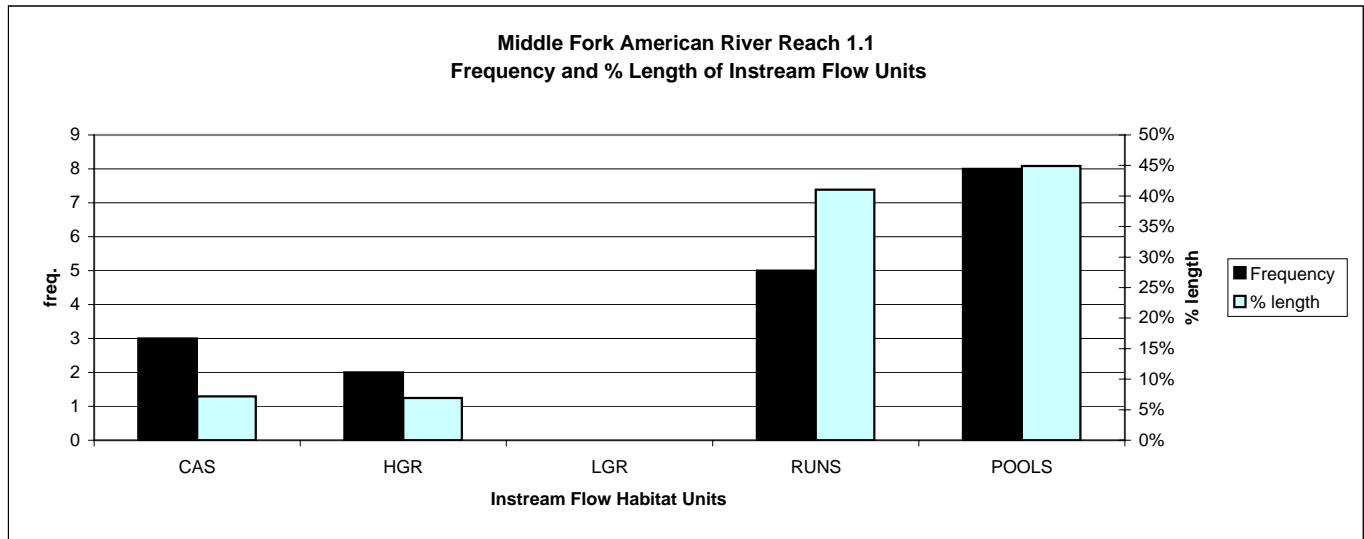
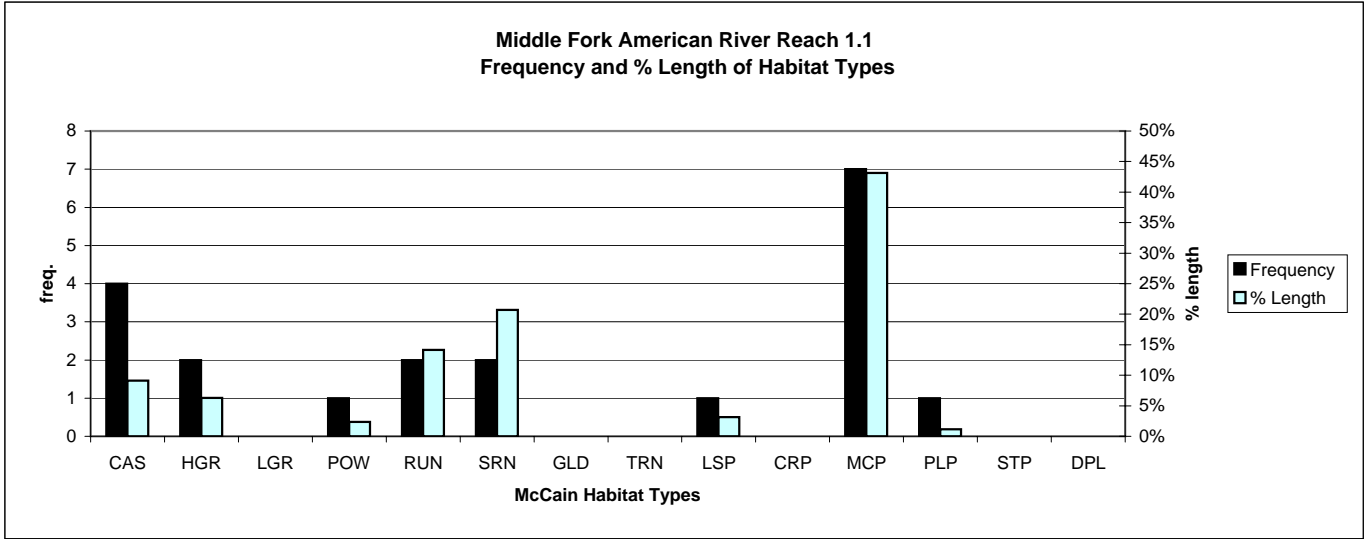
Appendix C-3. Middle Fork American River Habitat Mapping - Frequency and Percent Length Results.



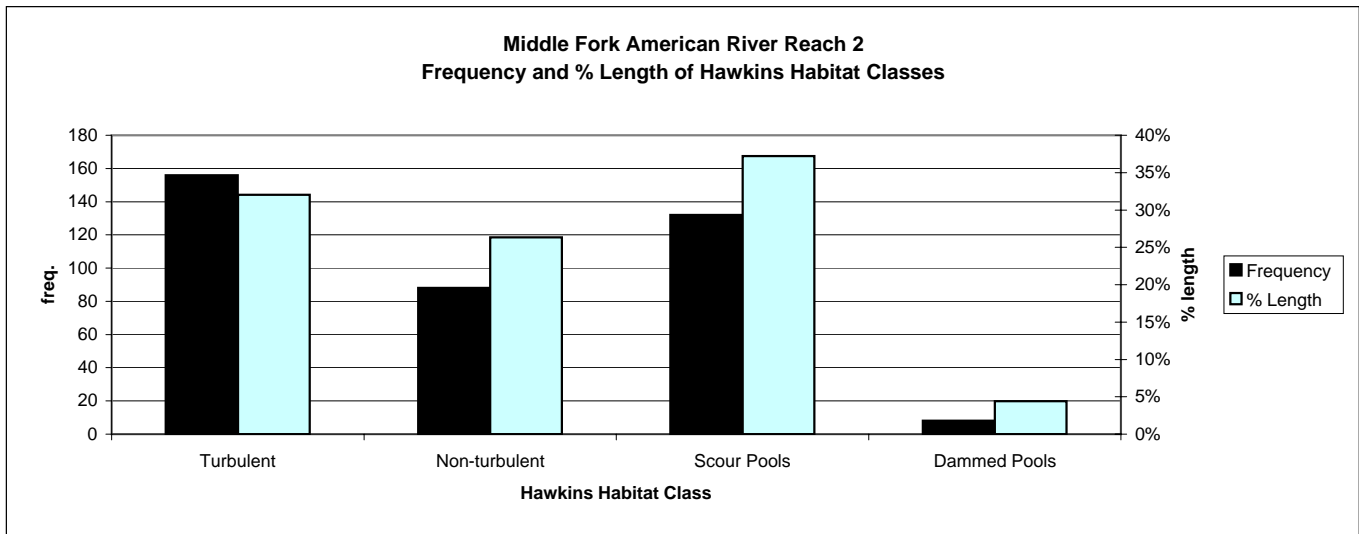
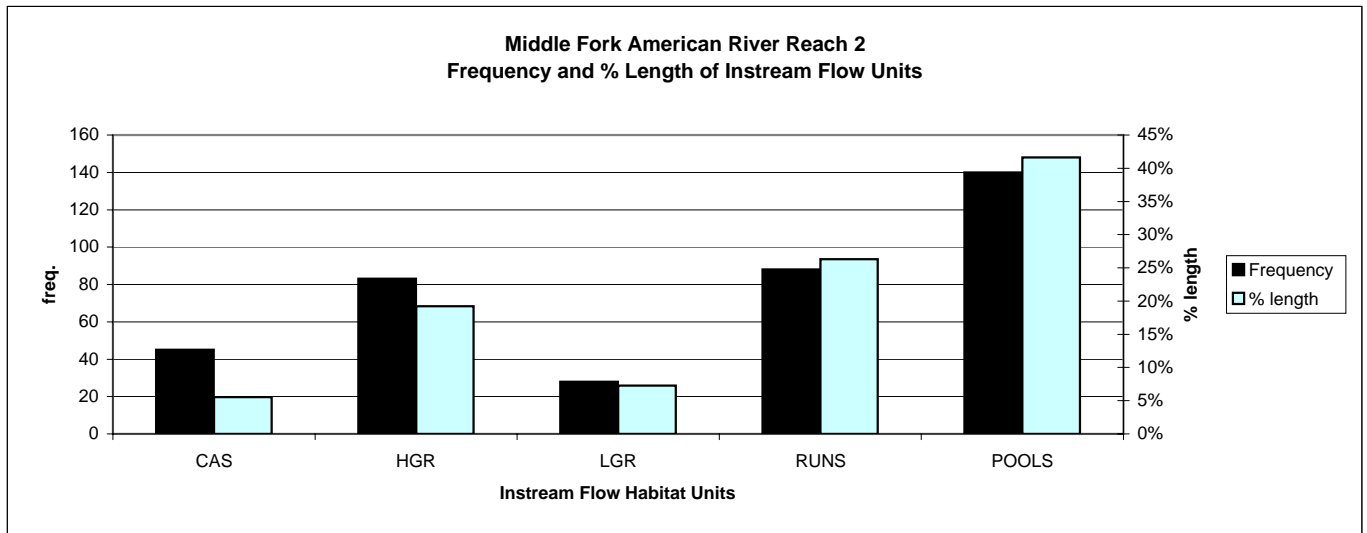
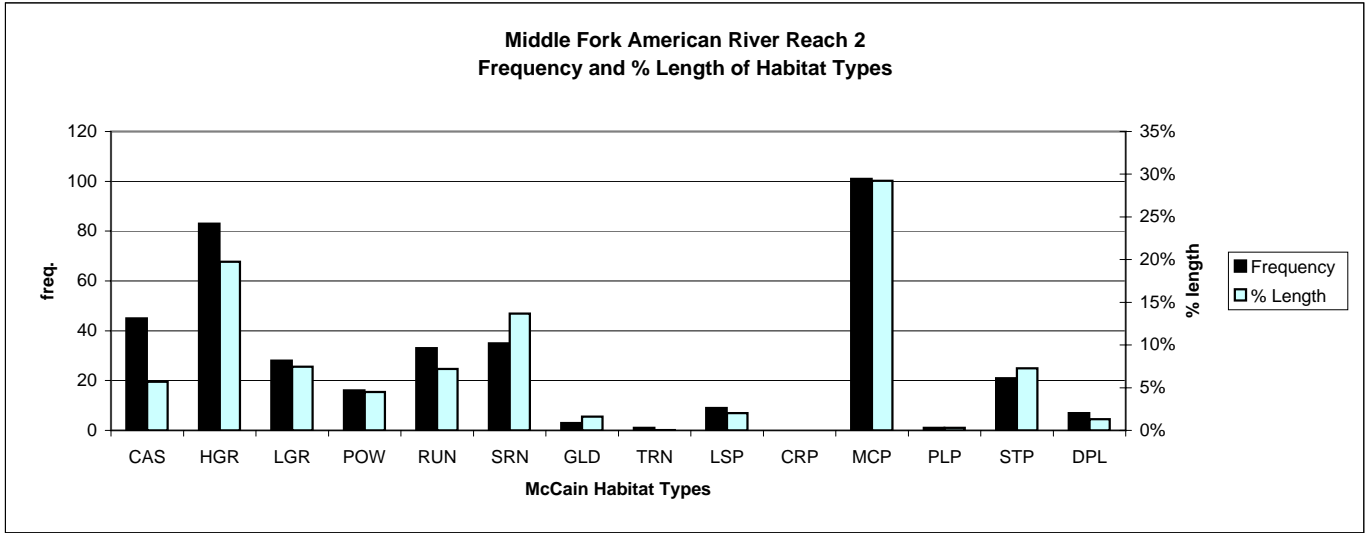
Appendix C-3. Middle Fork American River Habitat Mapping - Frequency and Percent Length Results (continued).



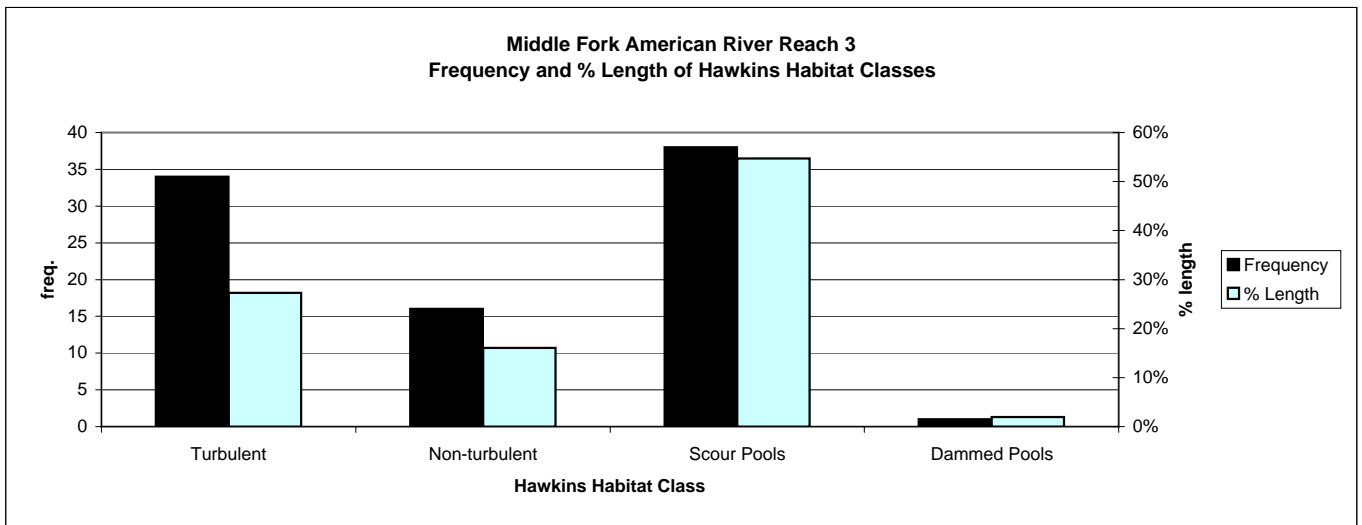
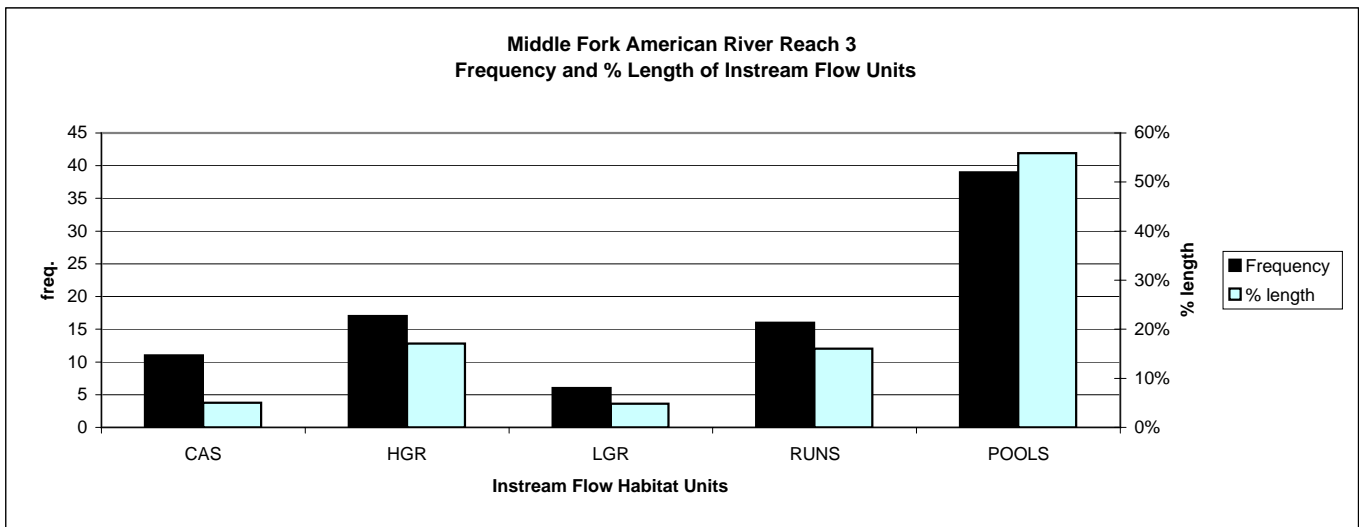
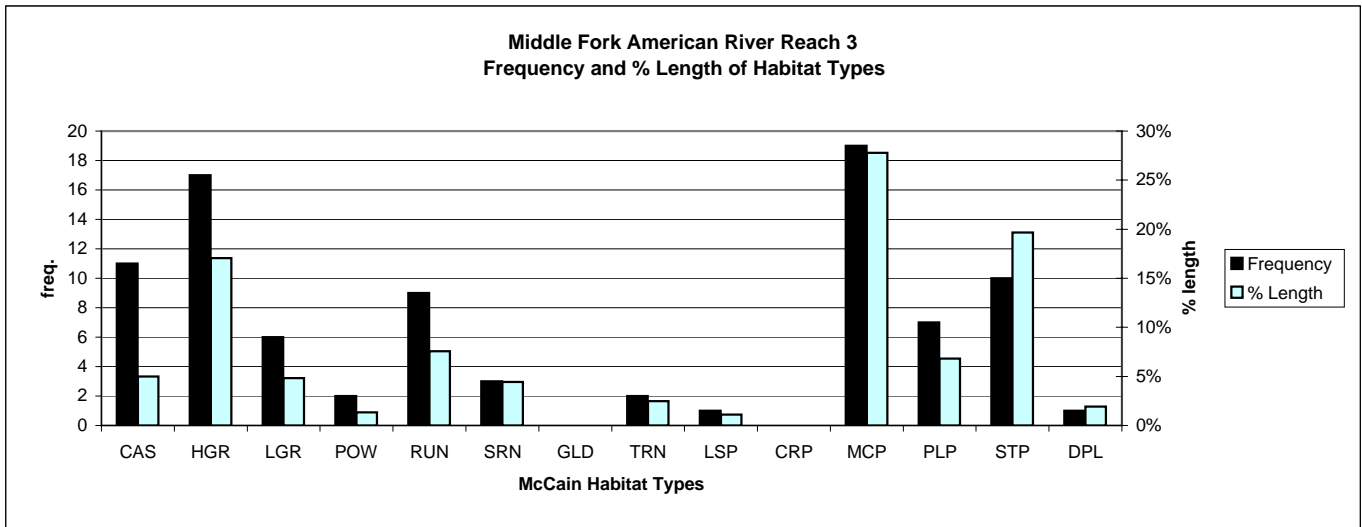
Appendix C-3. Middle Fork American River Habitat Mapping - Frequency and Percent Length Results (continued).



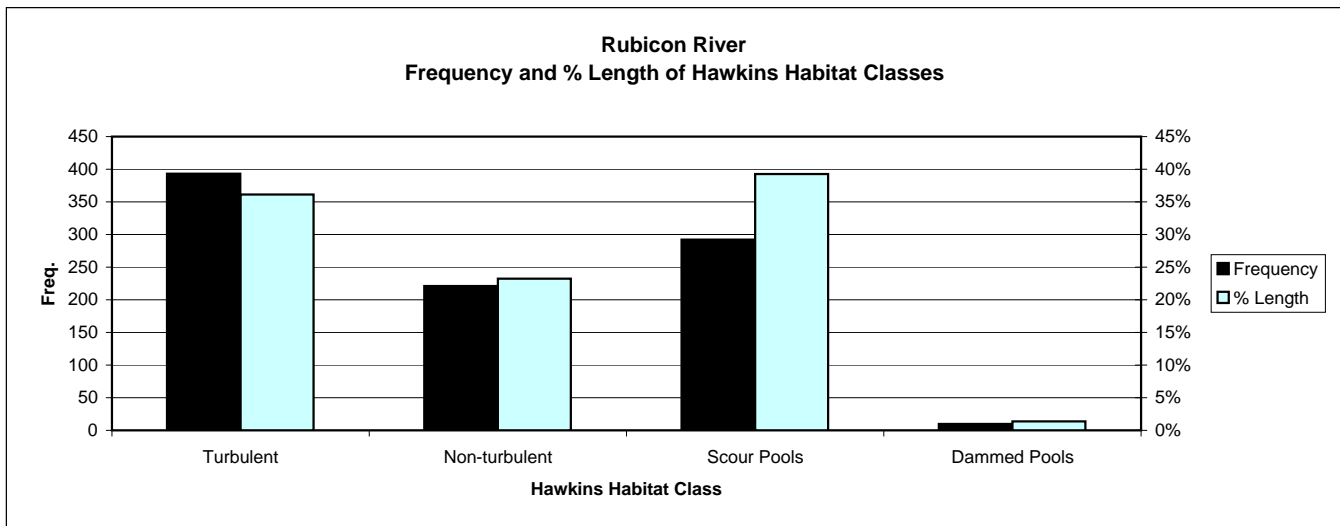
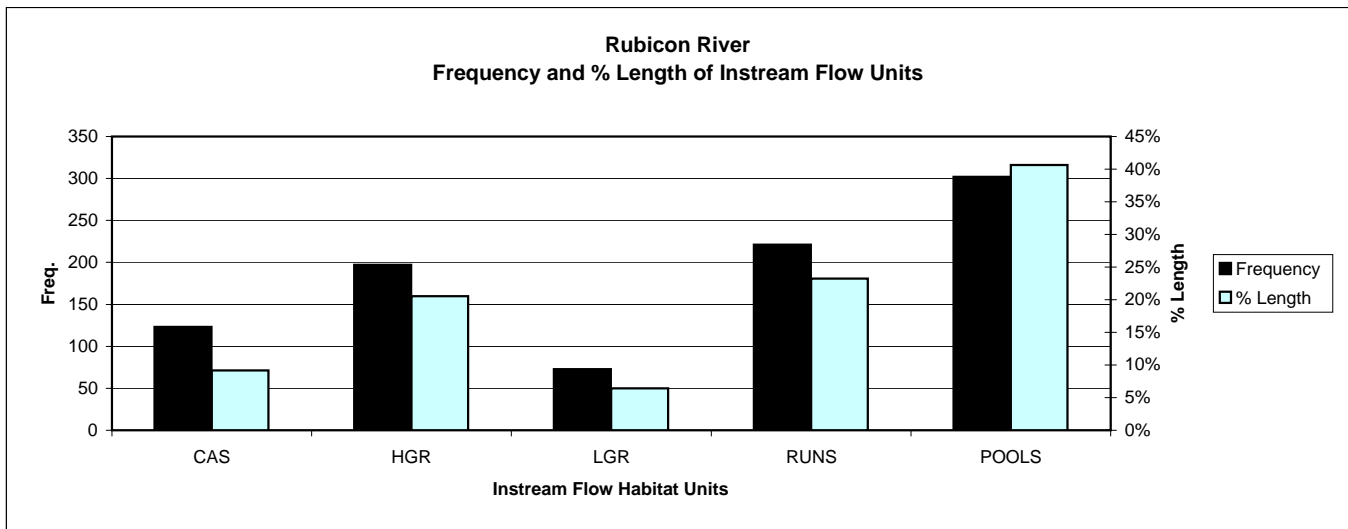
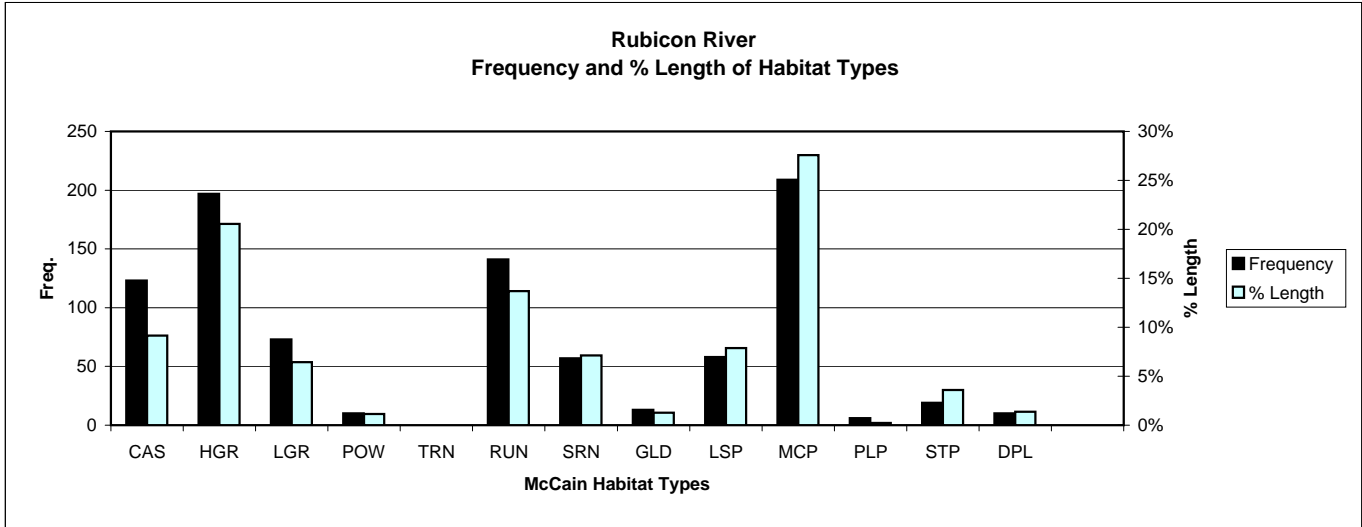
Appendix C-3. Middle Fork American River Habitat Mapping - Frequency and Percent Length Results (continued).



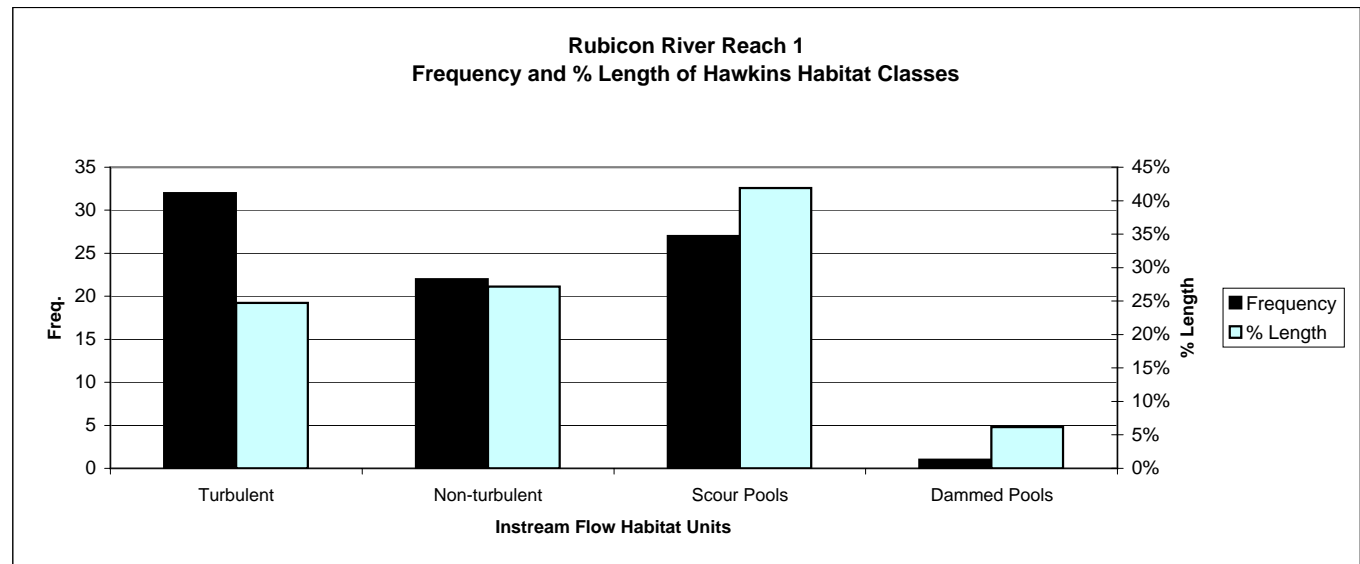
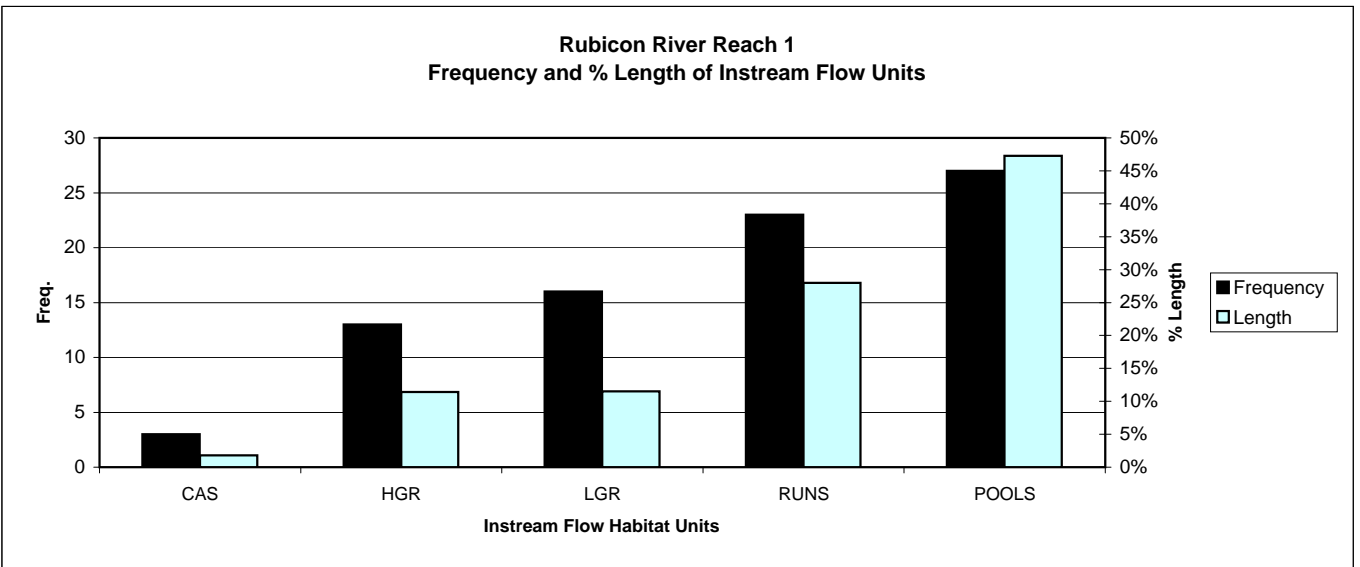
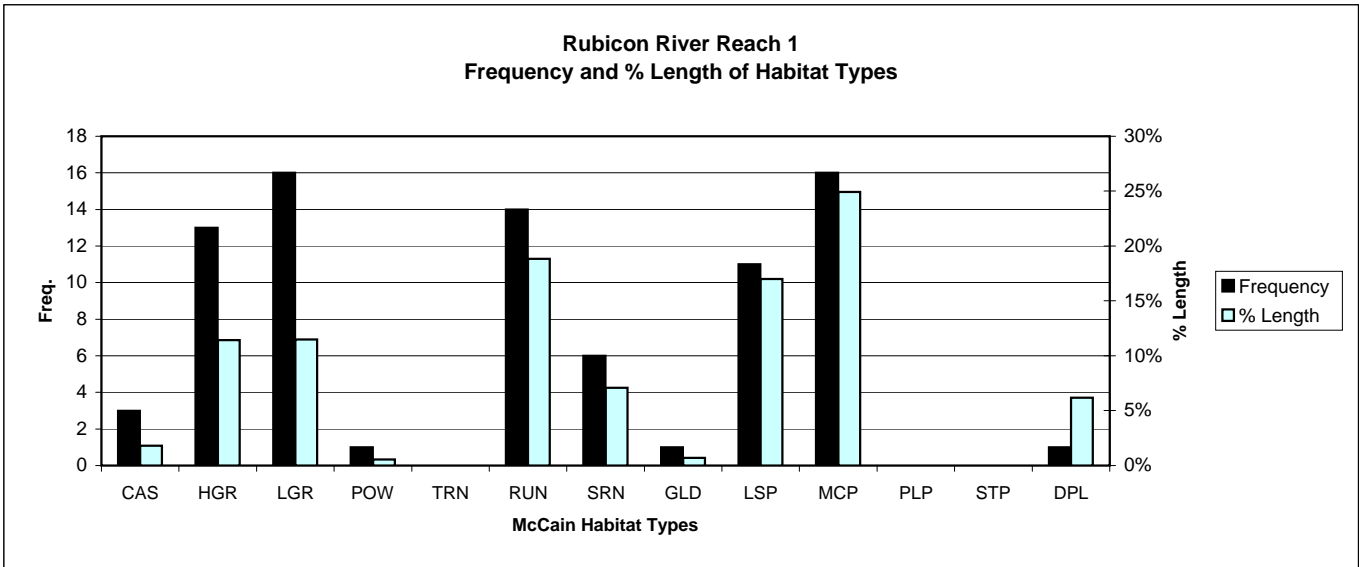
Appendix C-3. Middle Fork American River Habitat Mapping - Frequency and Percent Length Results (continued).



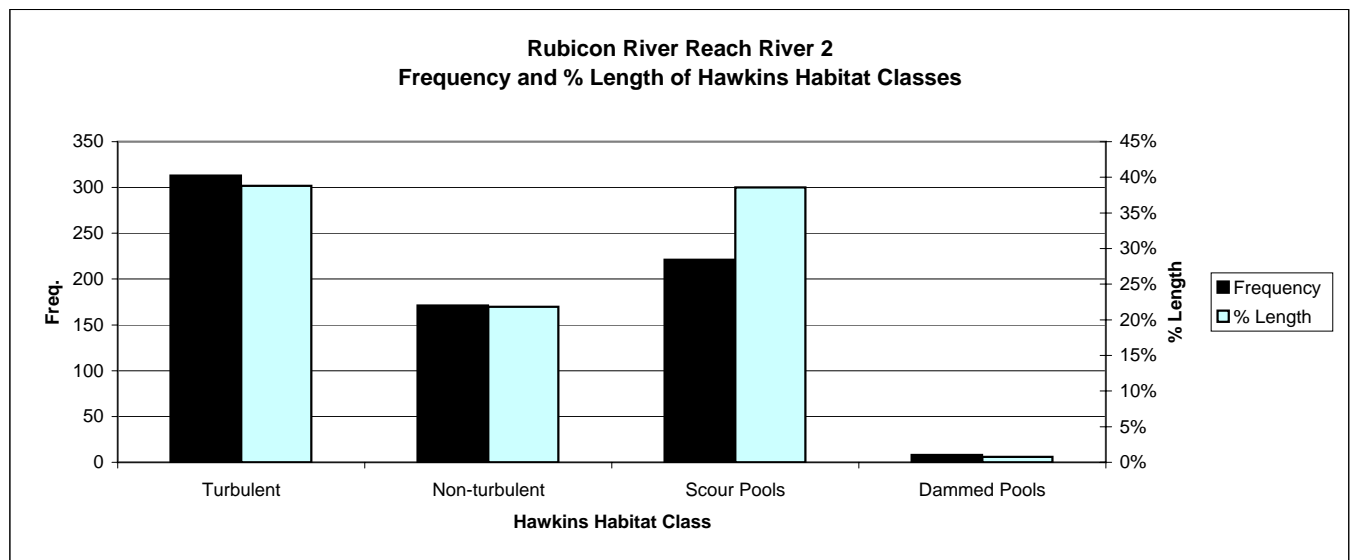
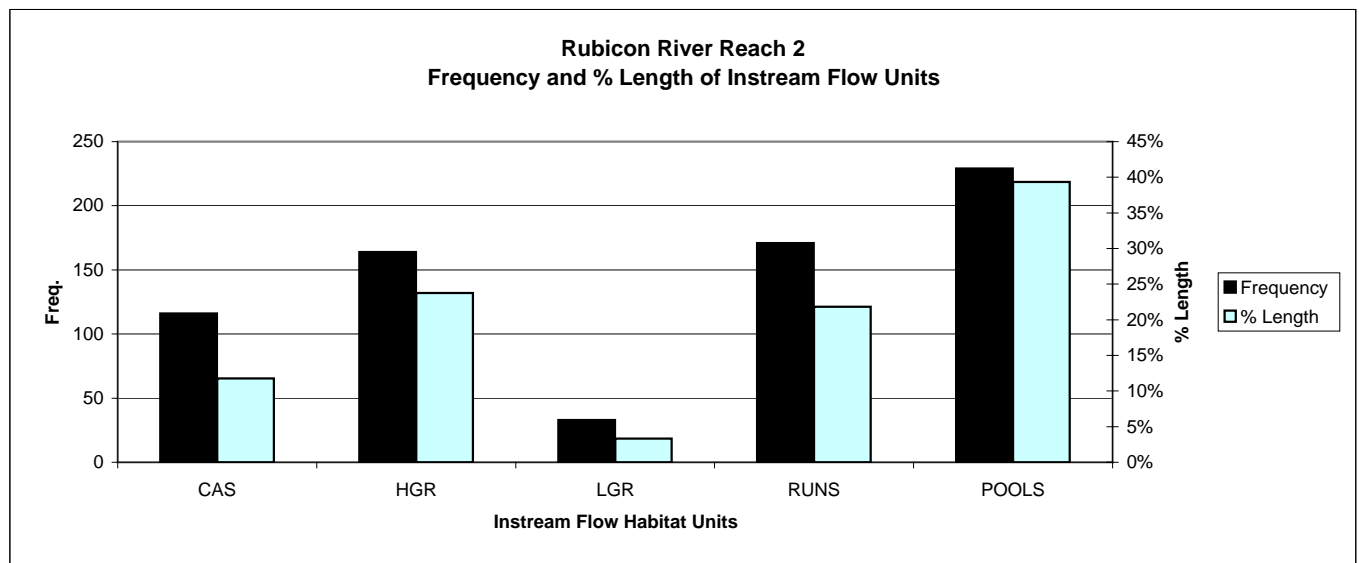
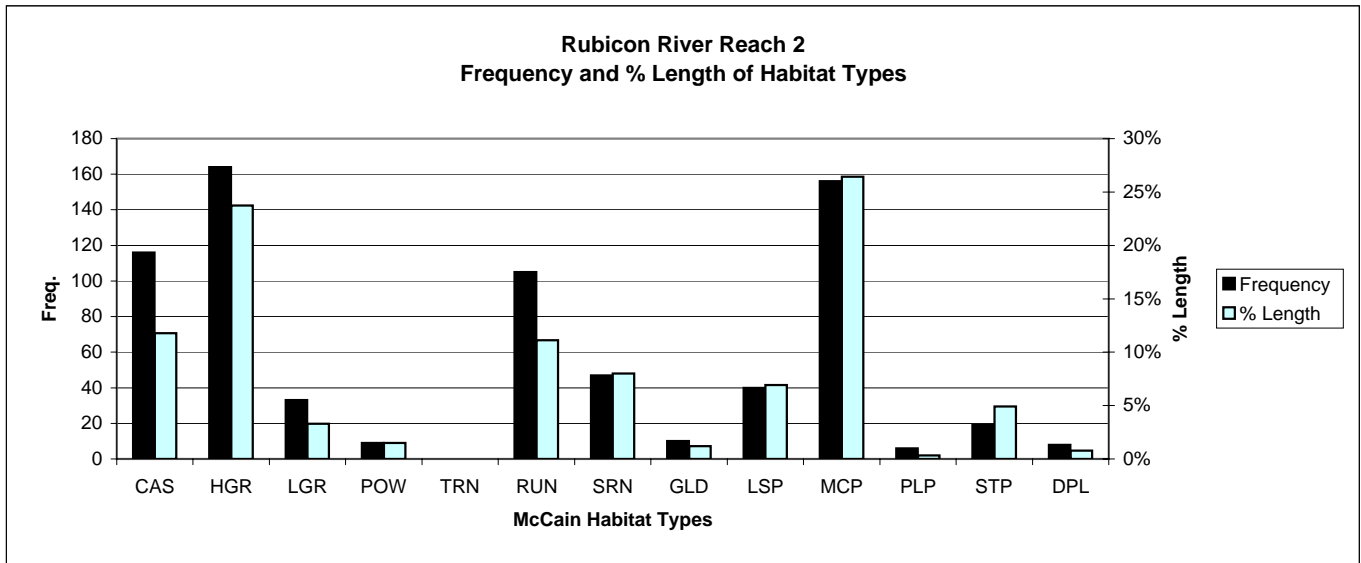
Appendix C-3. Rubicon River Habitat Mapping - Frequency and Percent Length Results.



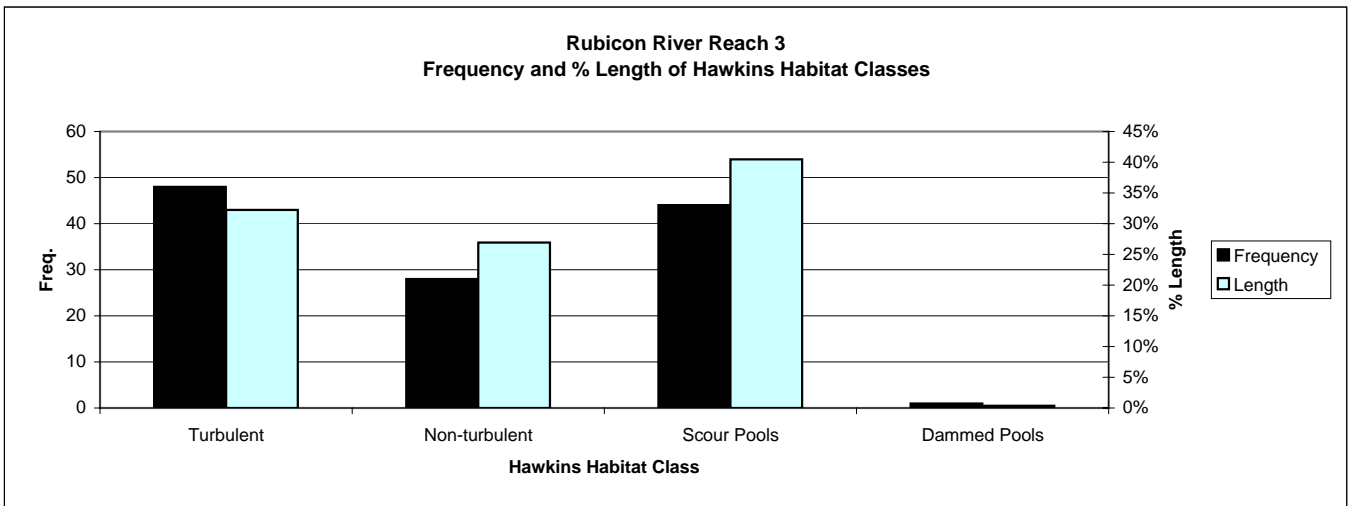
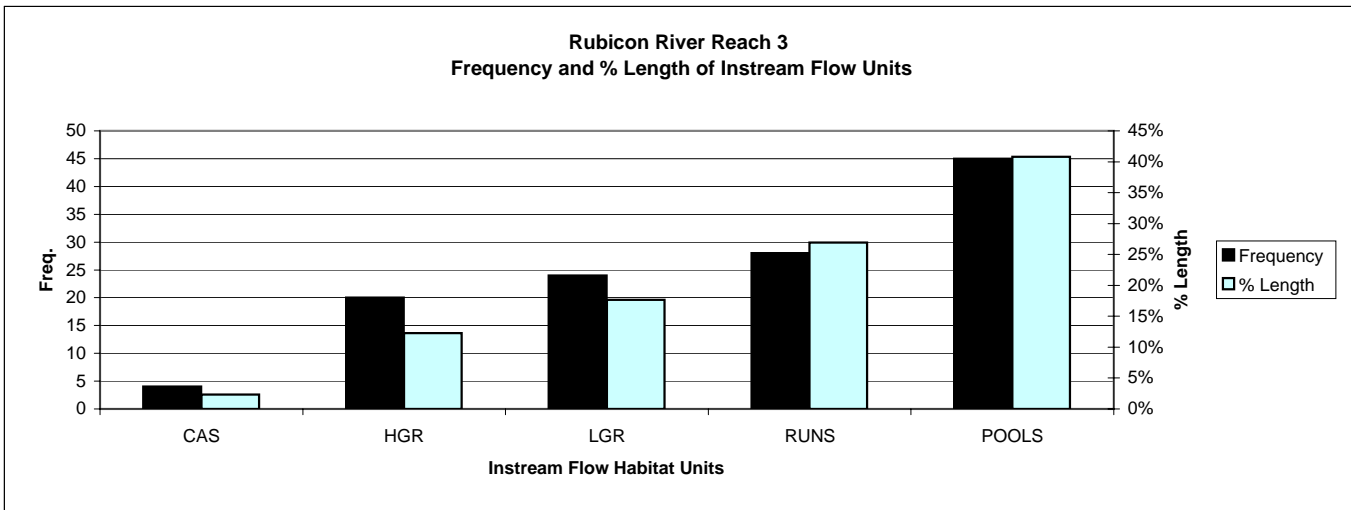
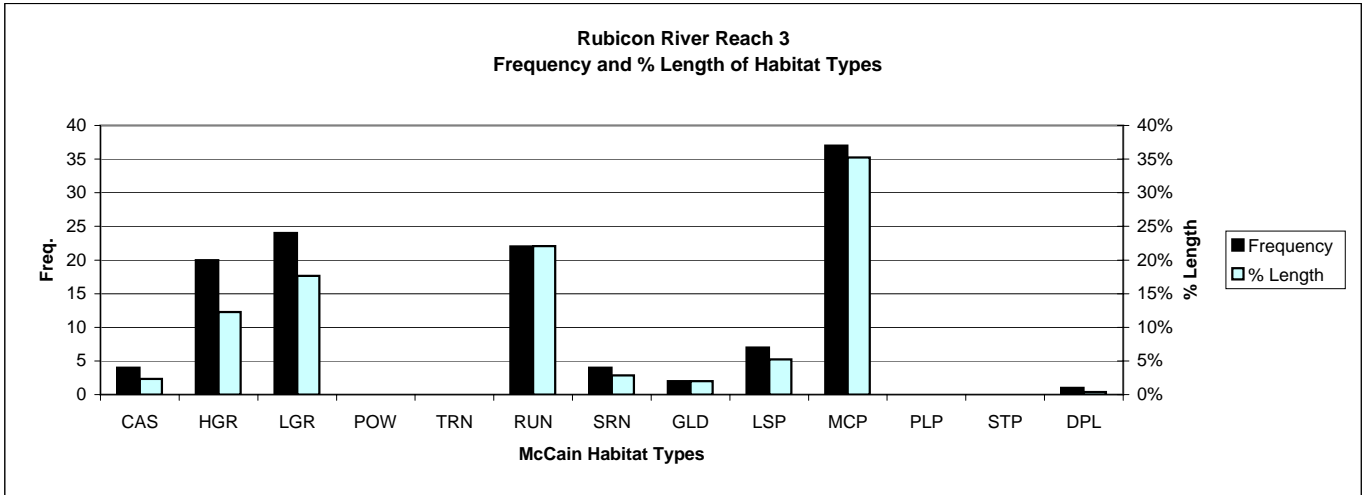
Appendix C-3. Rubicon River Habitat Mapping - Frequency and Percent Length Results (continued).



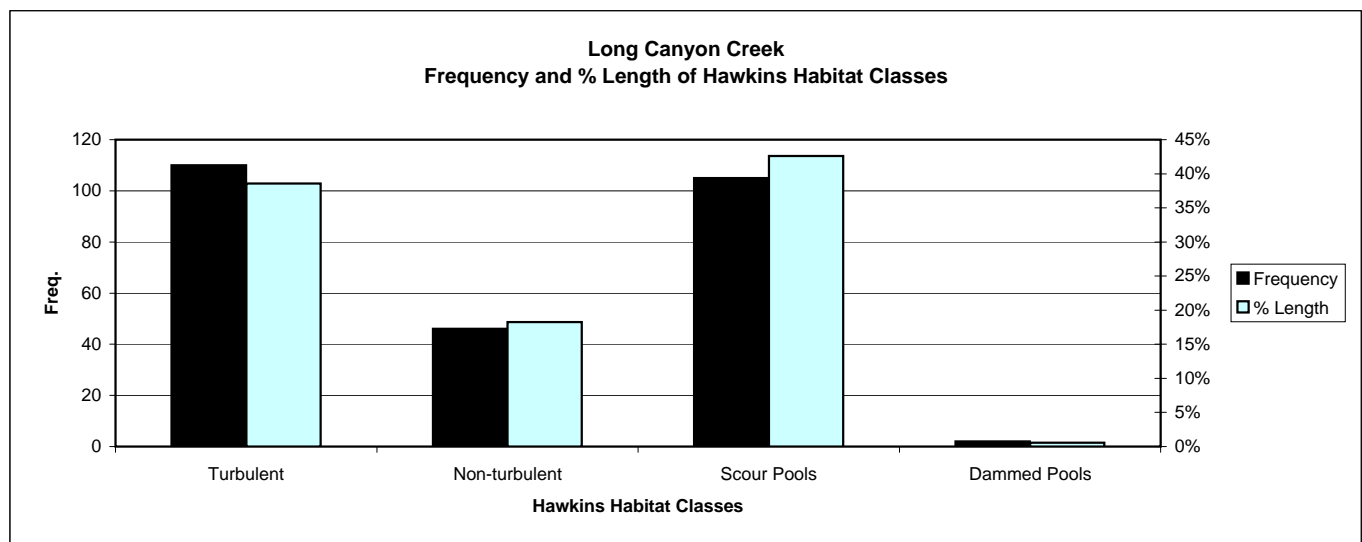
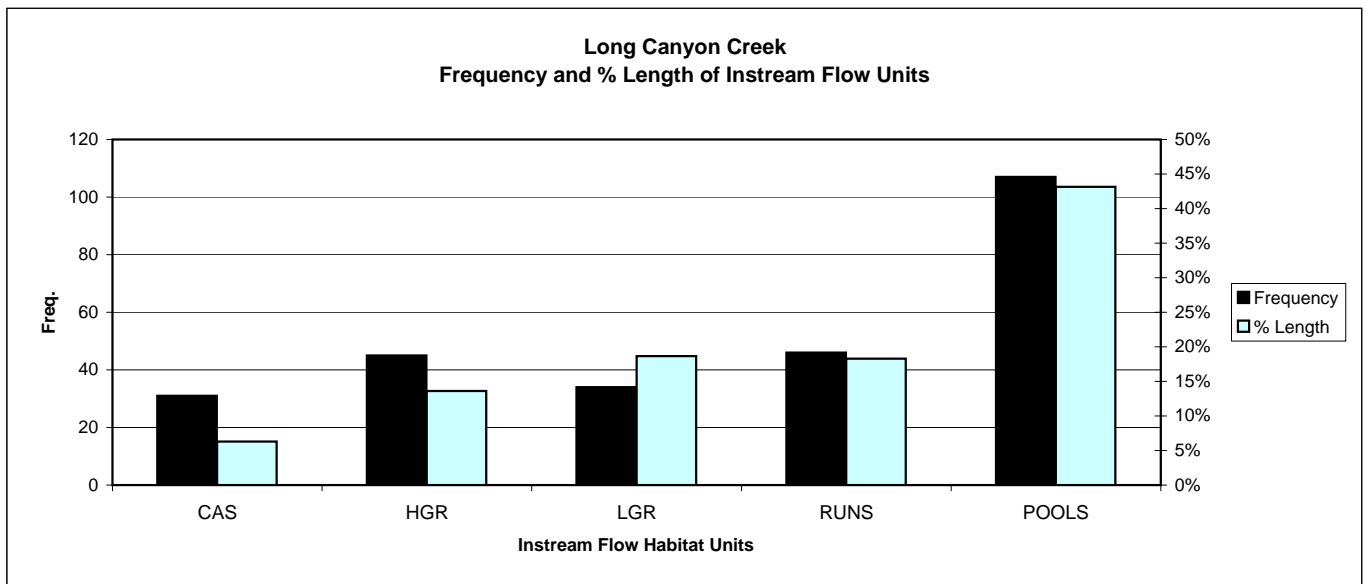
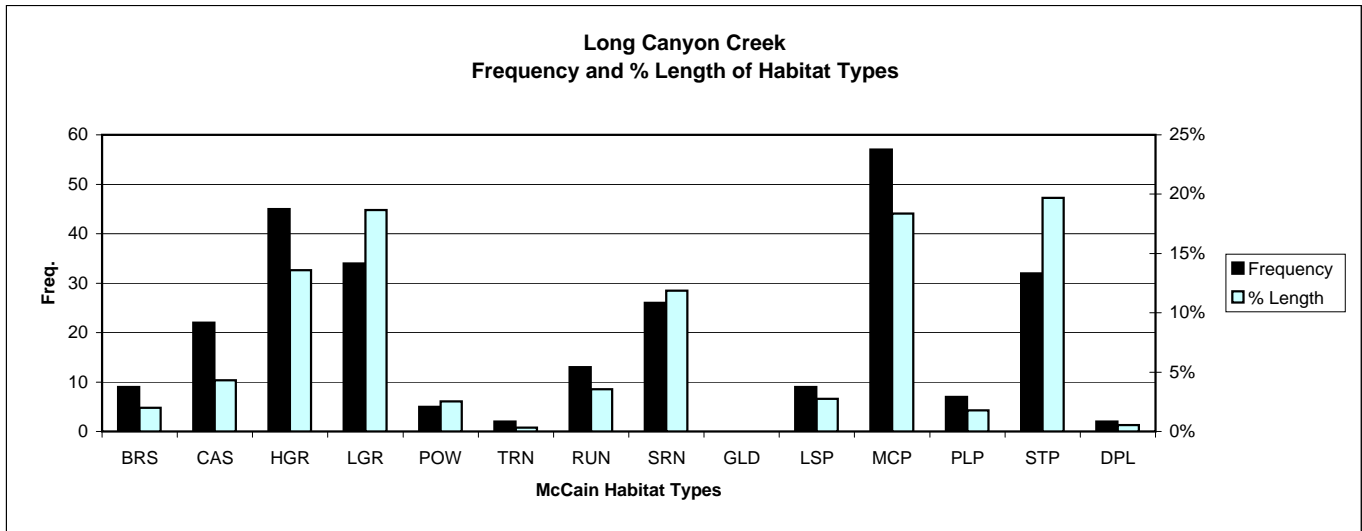
Appendix C-3. Rubicon River Habitat Mapping - Frequency and Percent Length Results (continued).



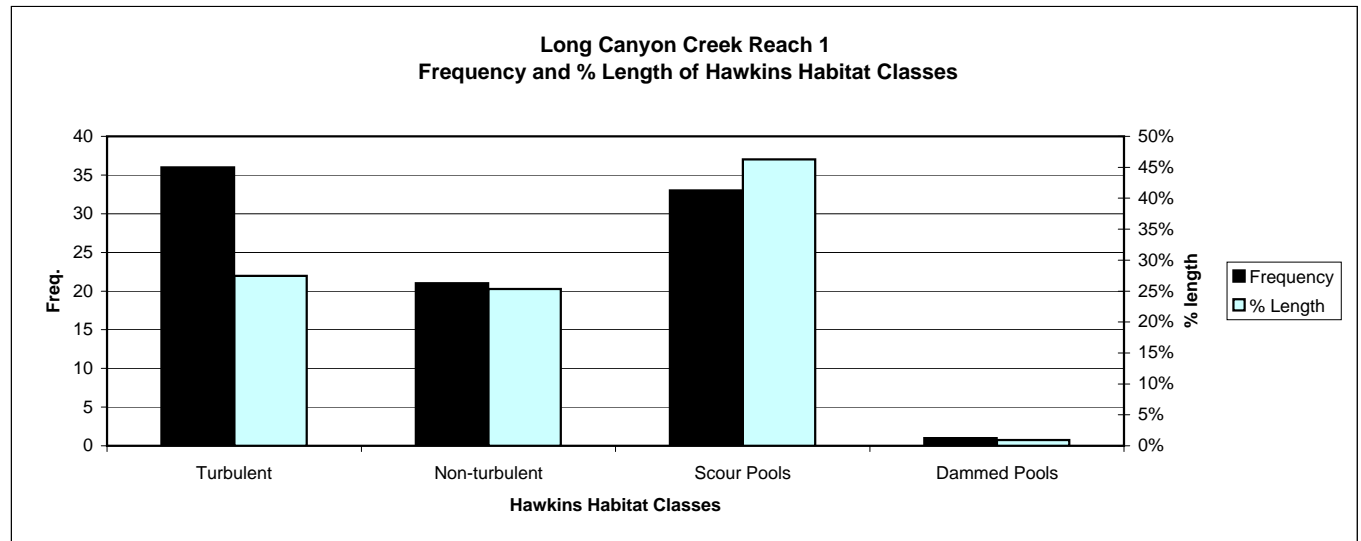
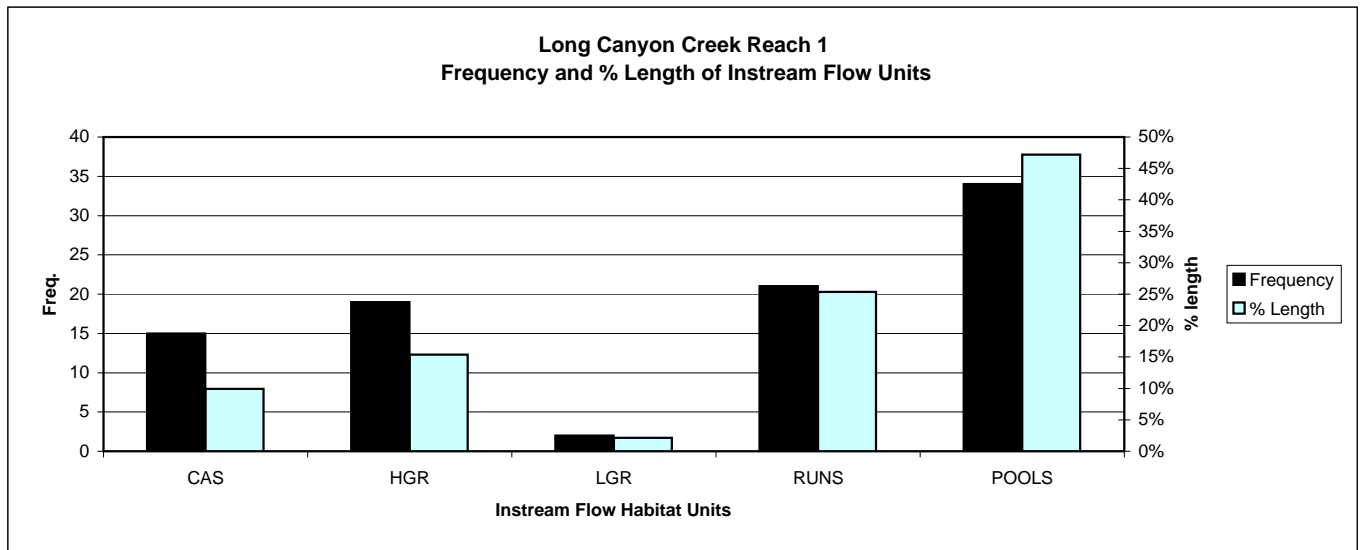
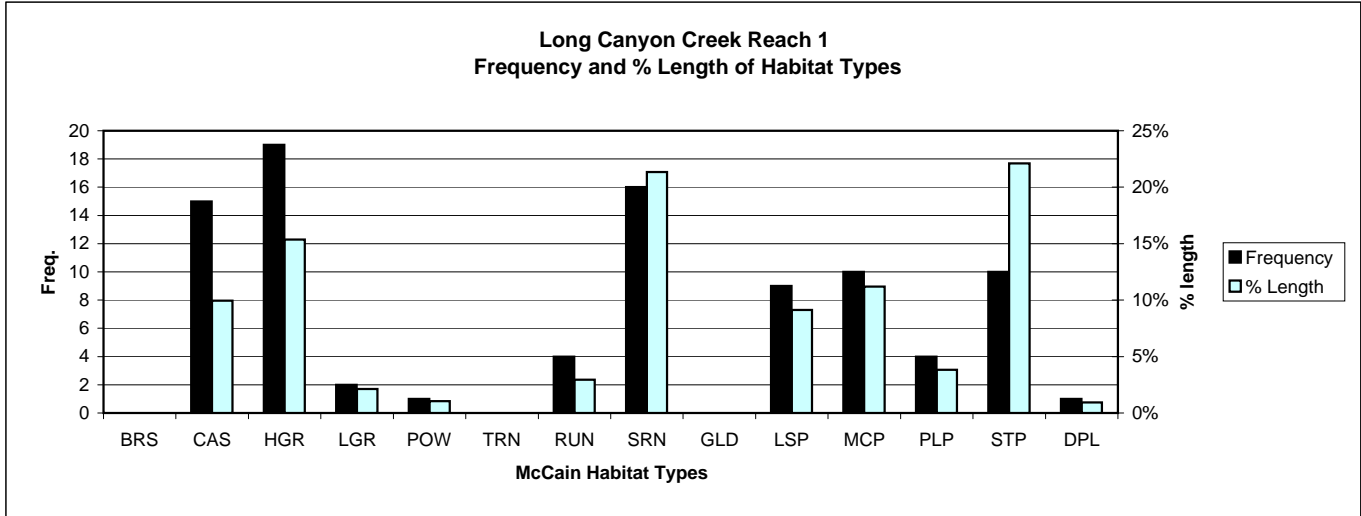
Appendix C-3. Rubicon River Habitat Mapping - Frequency and Percent Length Results (continued).



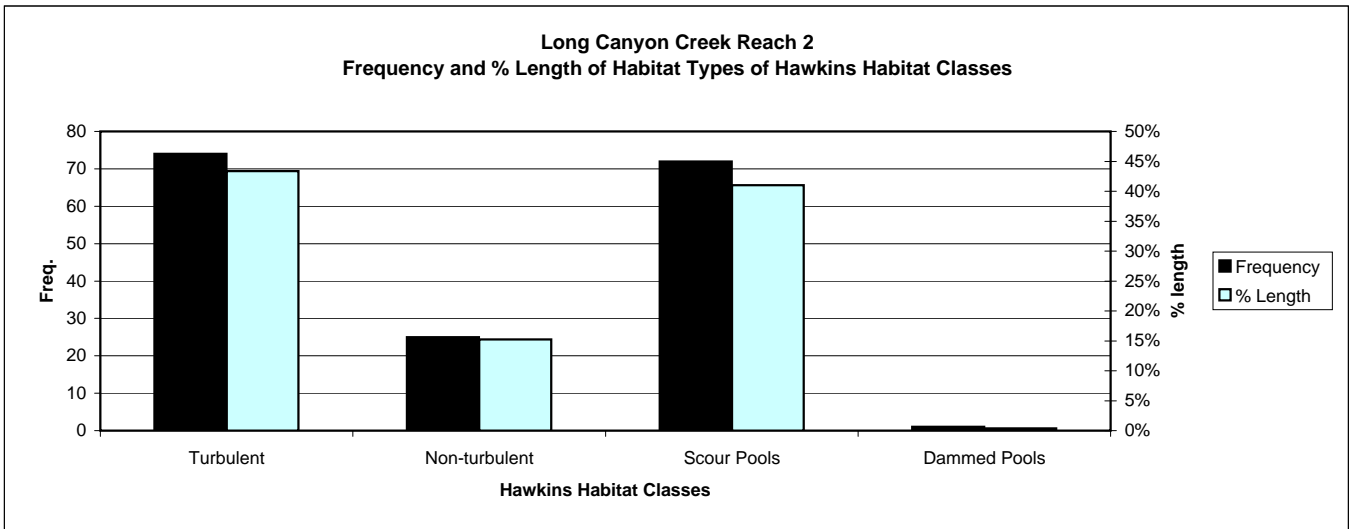
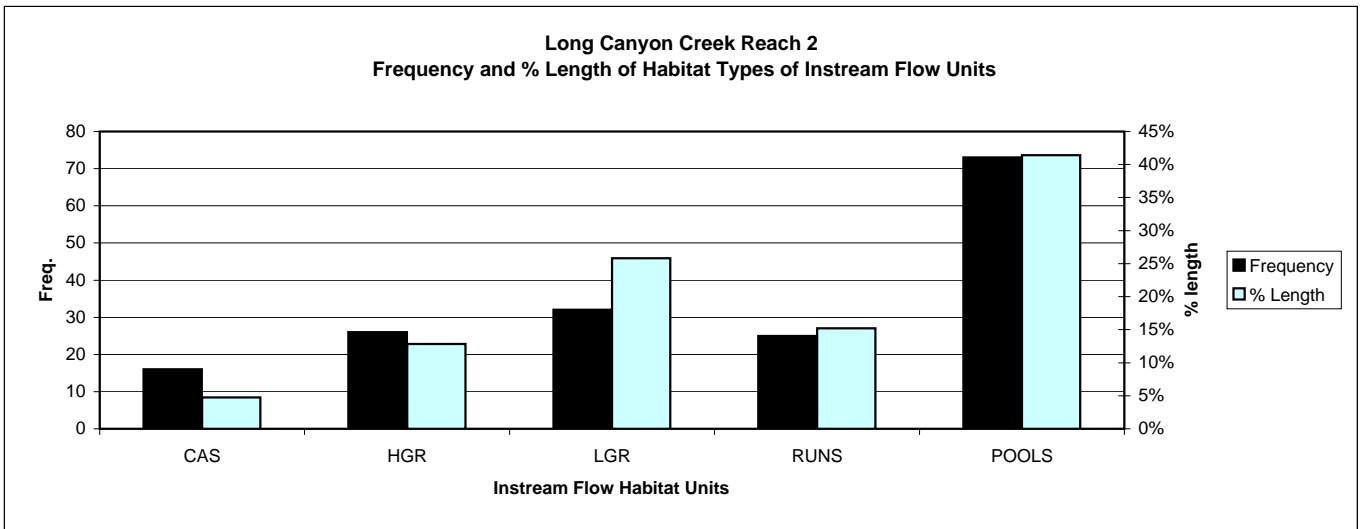
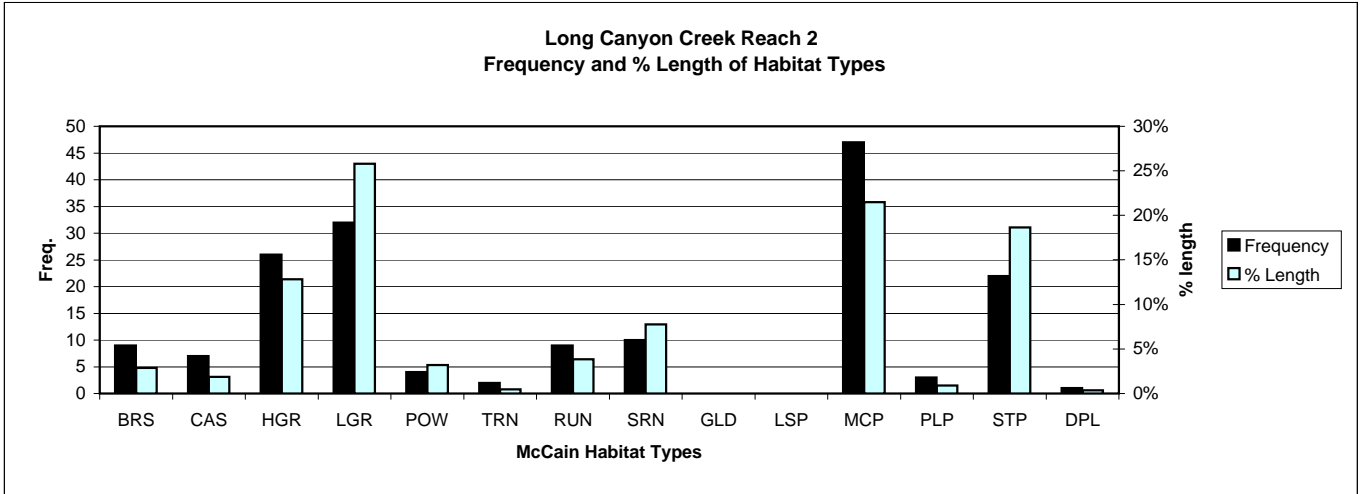
Appendix C-3. Long Canyon Creek Habitat Mapping - Frequency and Percent Length Results.



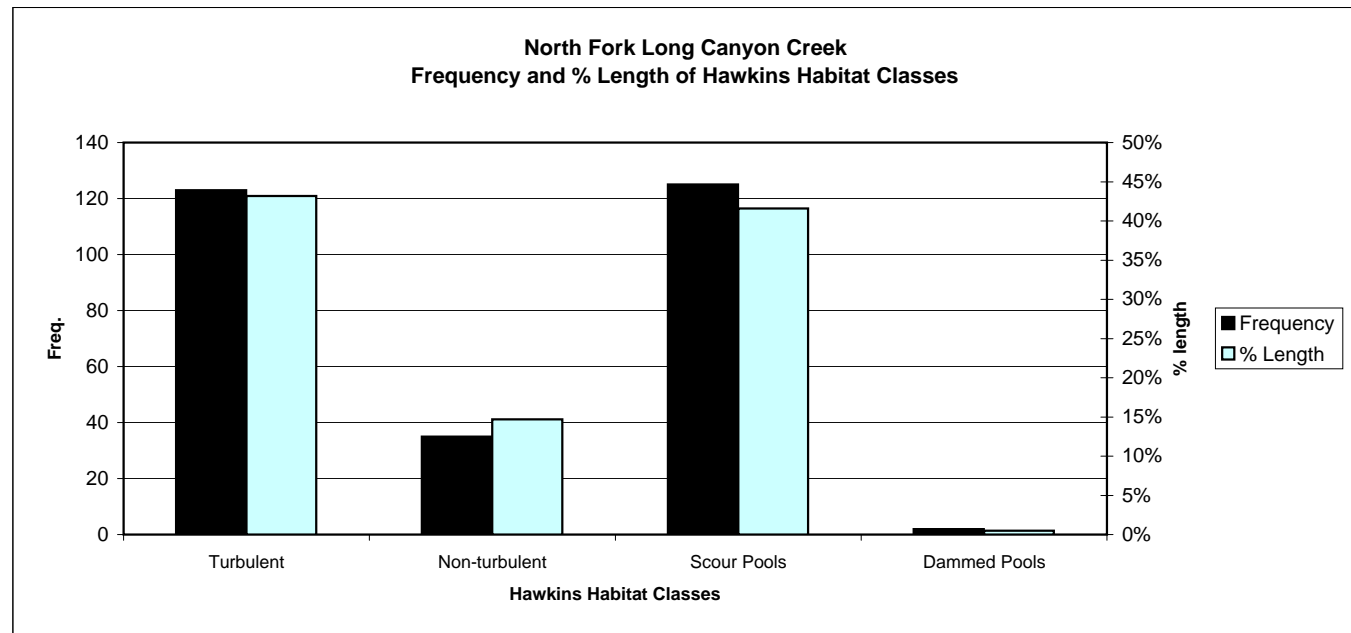
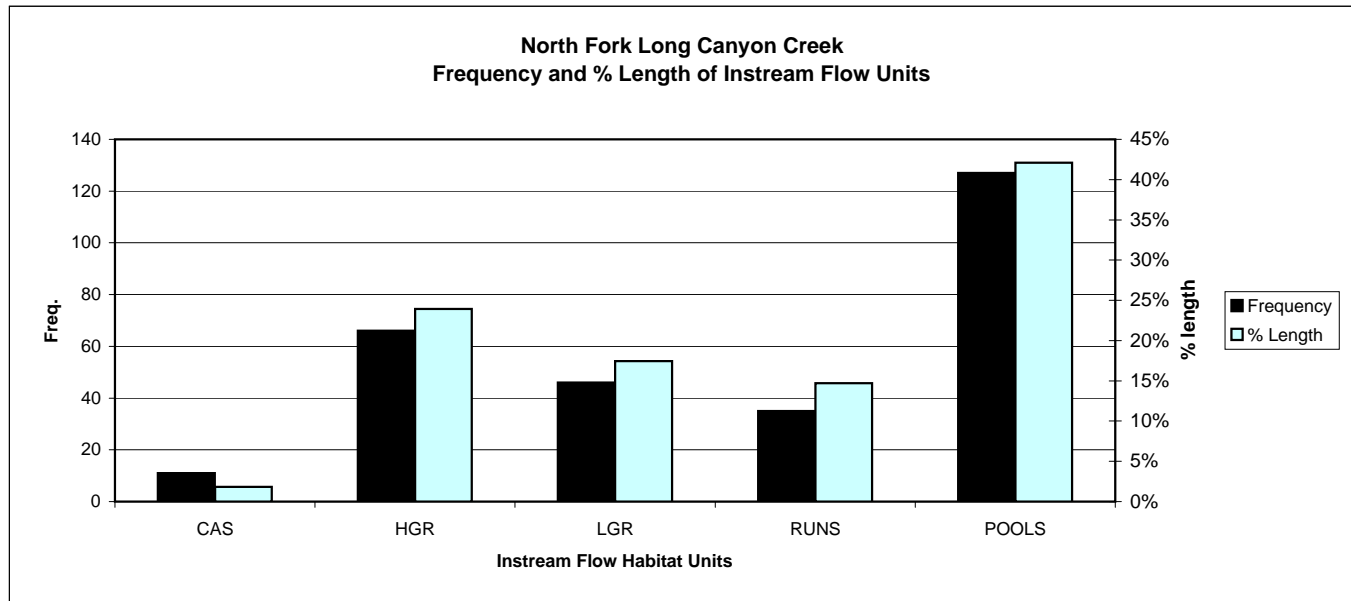
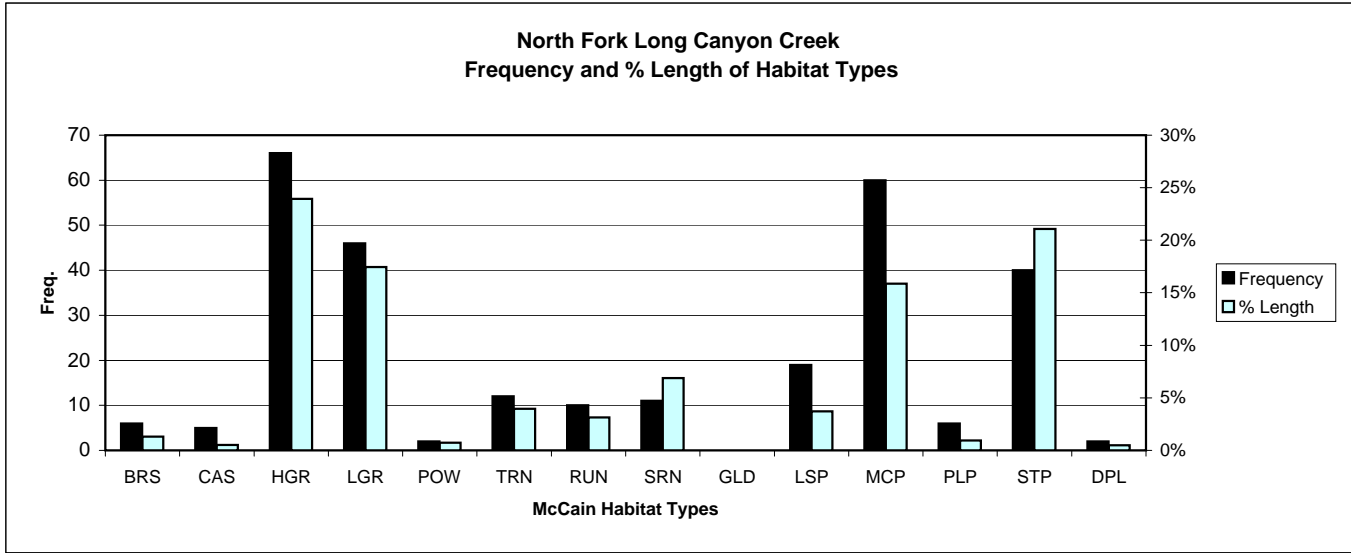
Appendix C-3. Long Canyon Creek Habitat Mapping - Frequency and Percent Length Results (continued).



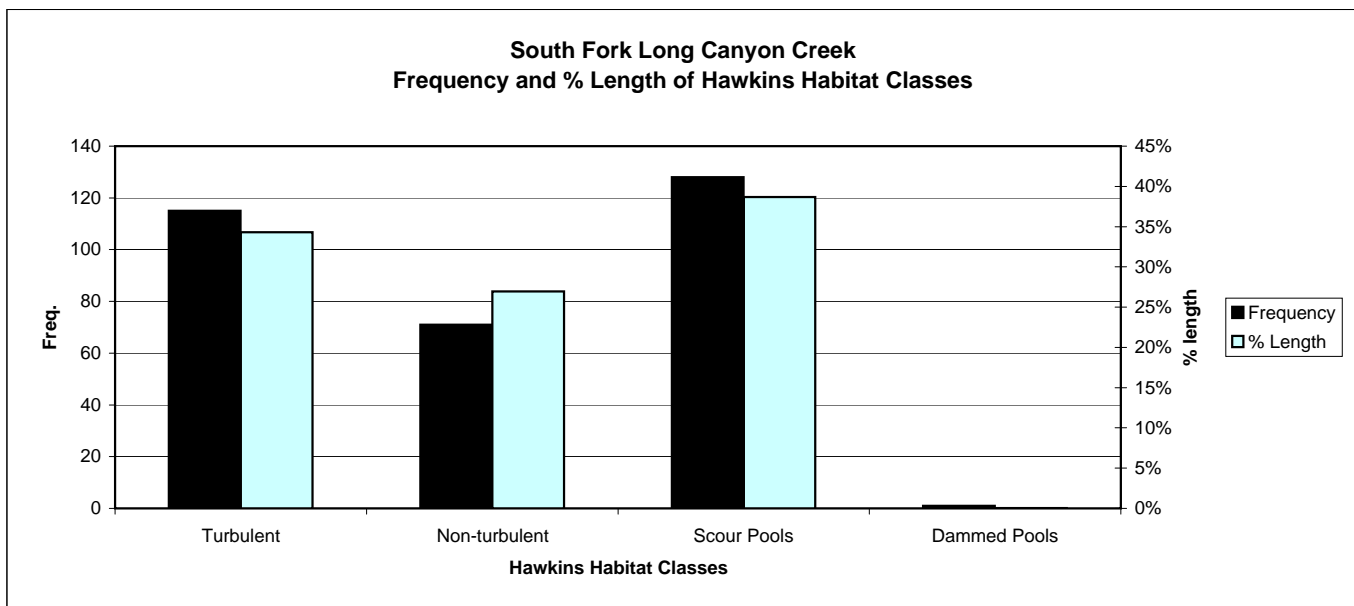
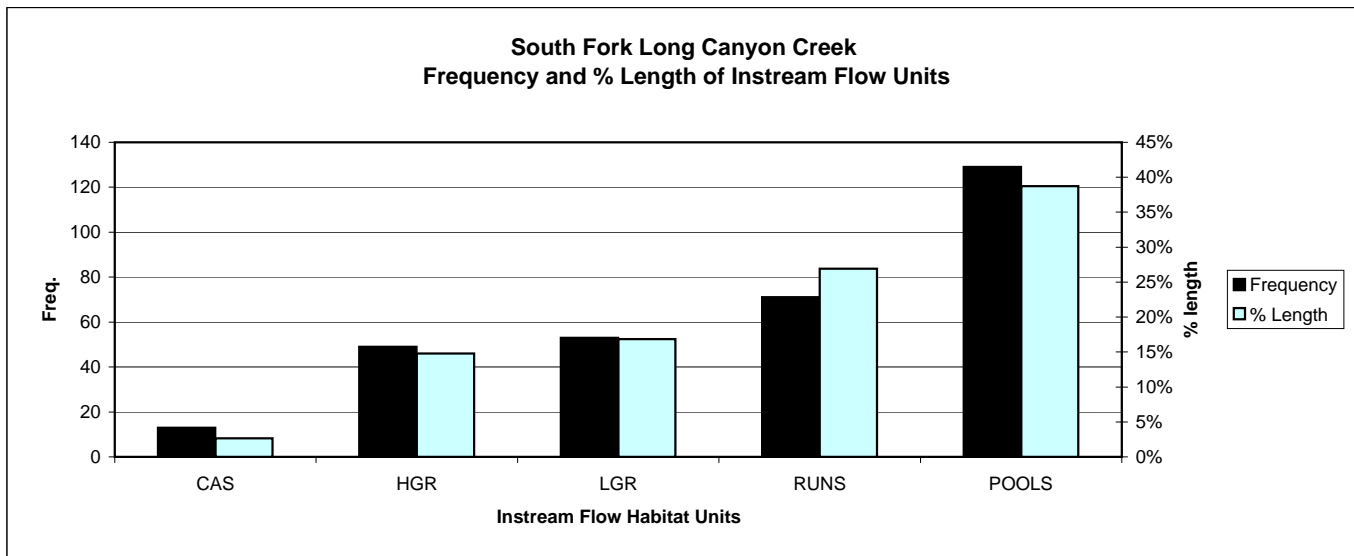
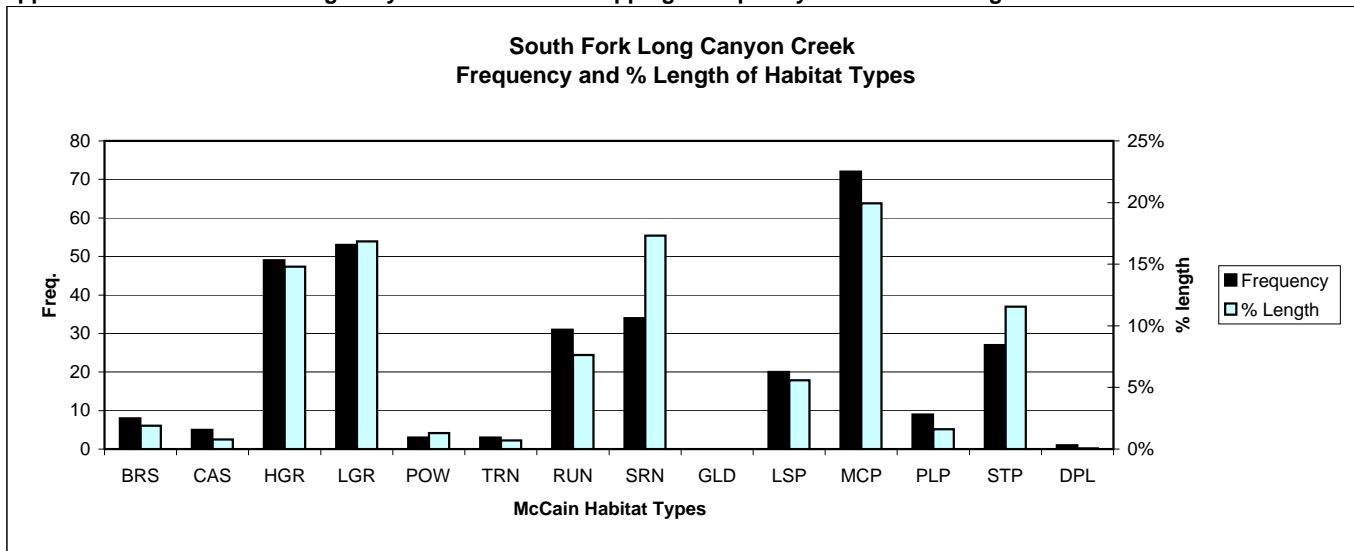
Appendix C-3. Long Canyon Creek Habitat Mapping - Frequency and Percent Length Results (continued).



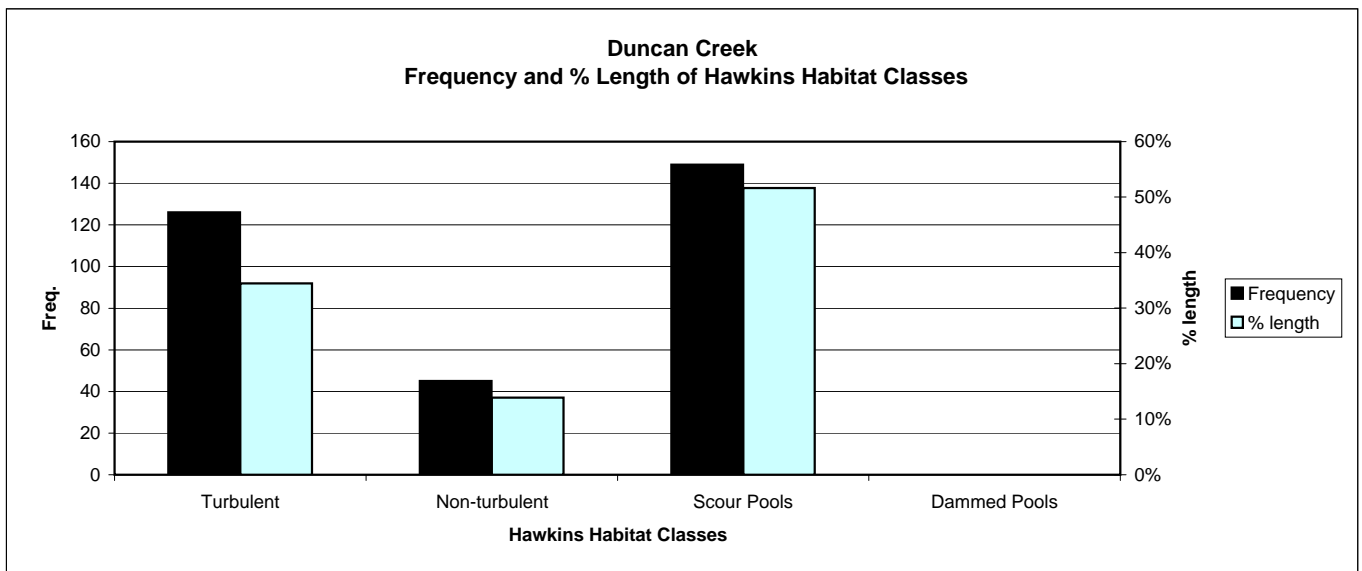
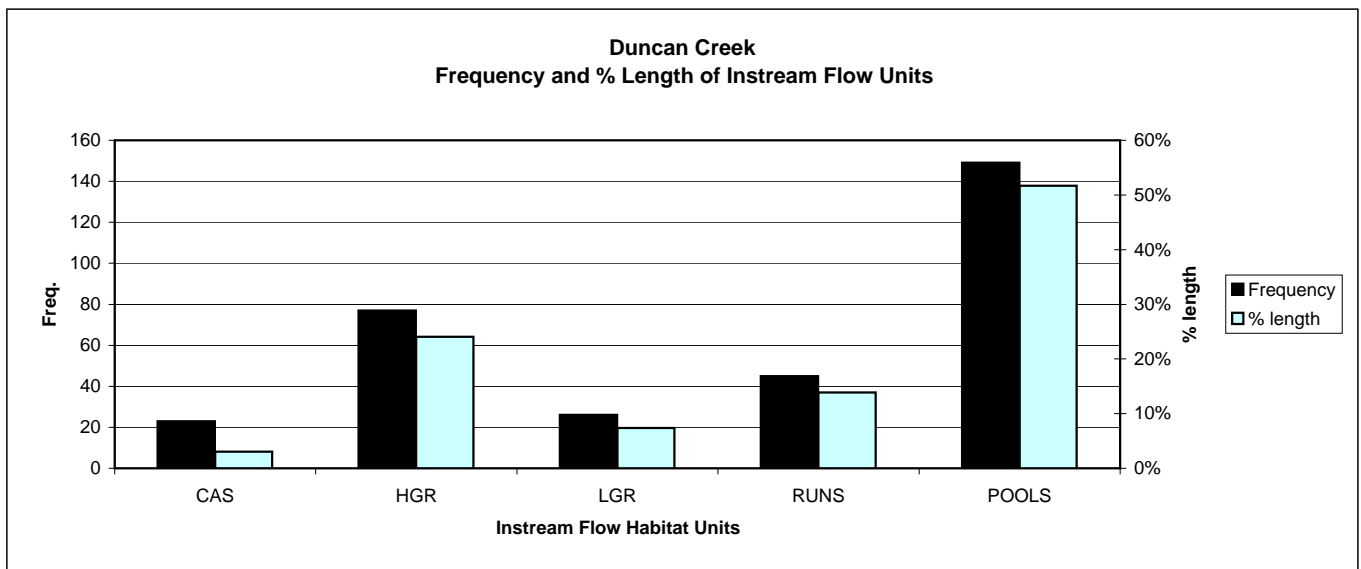
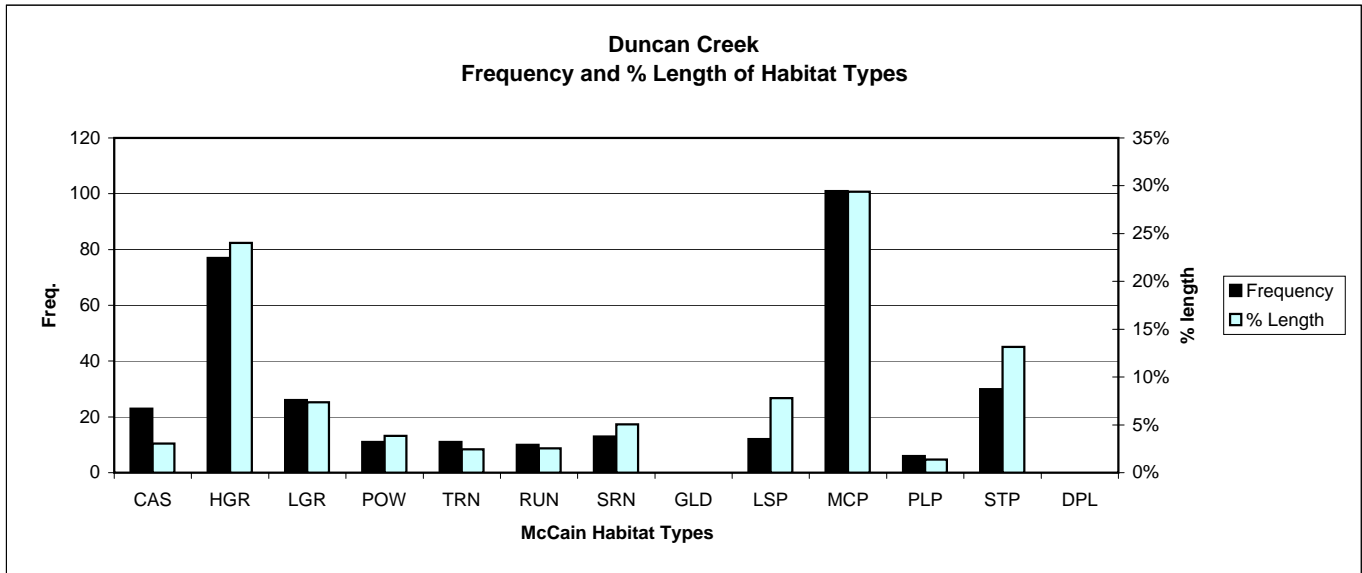
Appendix C-3. North Fork Long Canyon Creek Habitat Mapping - Frequency and Percent Length Results.



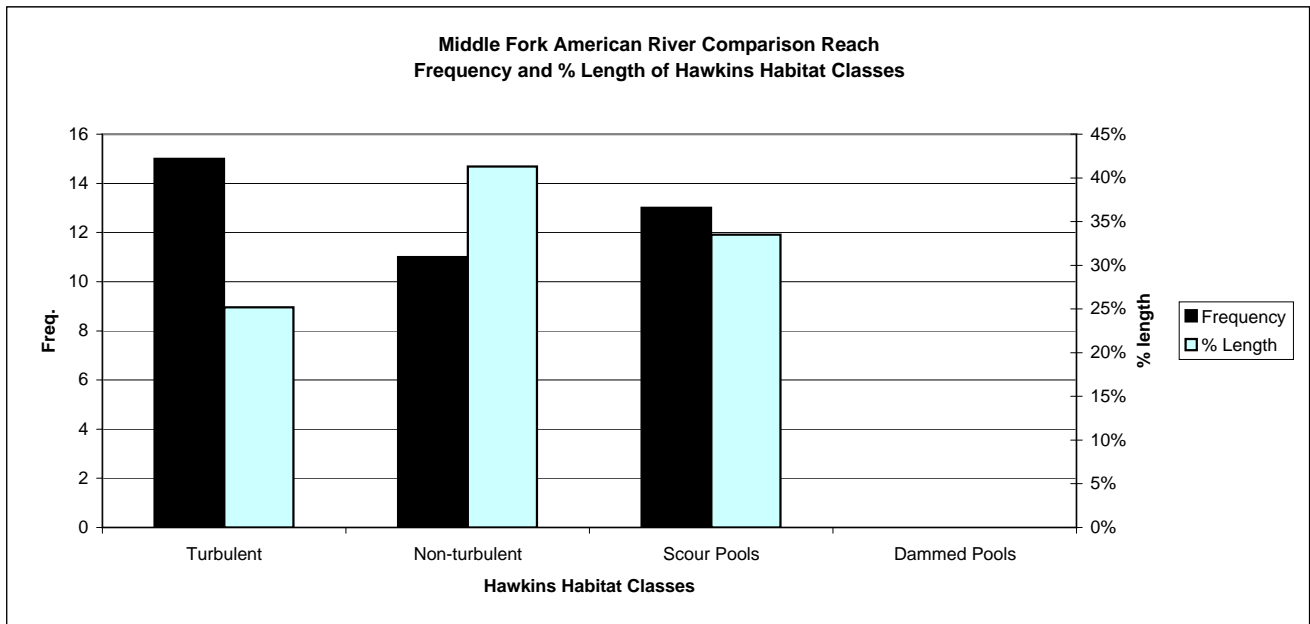
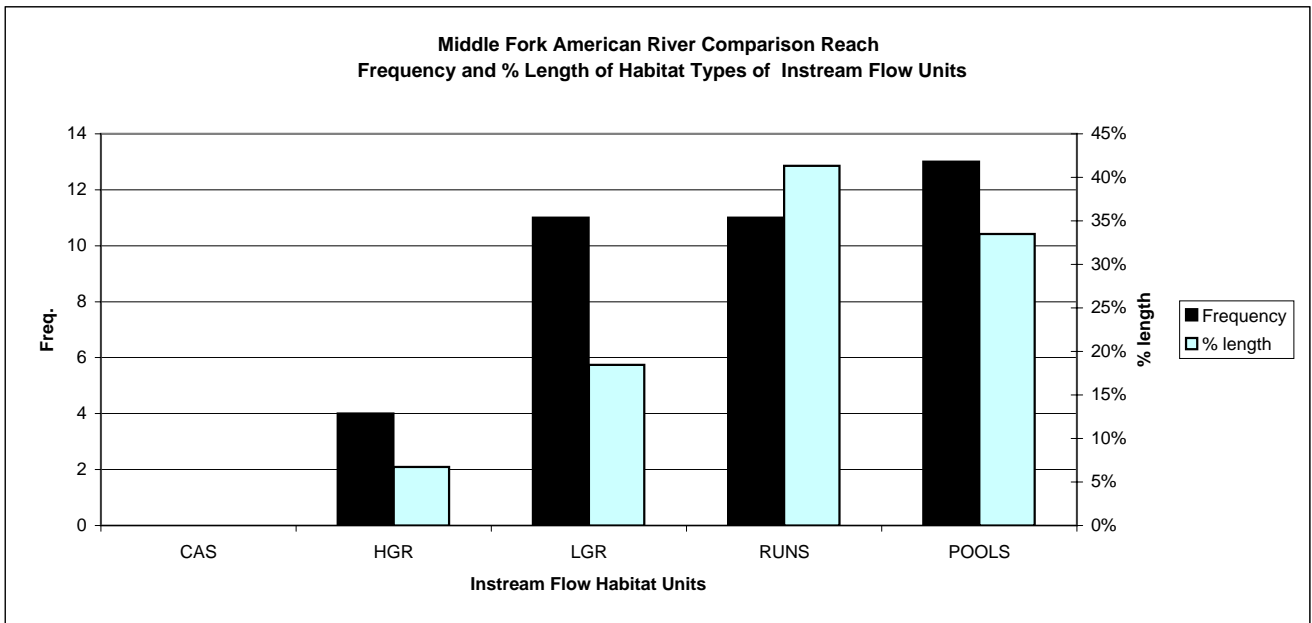
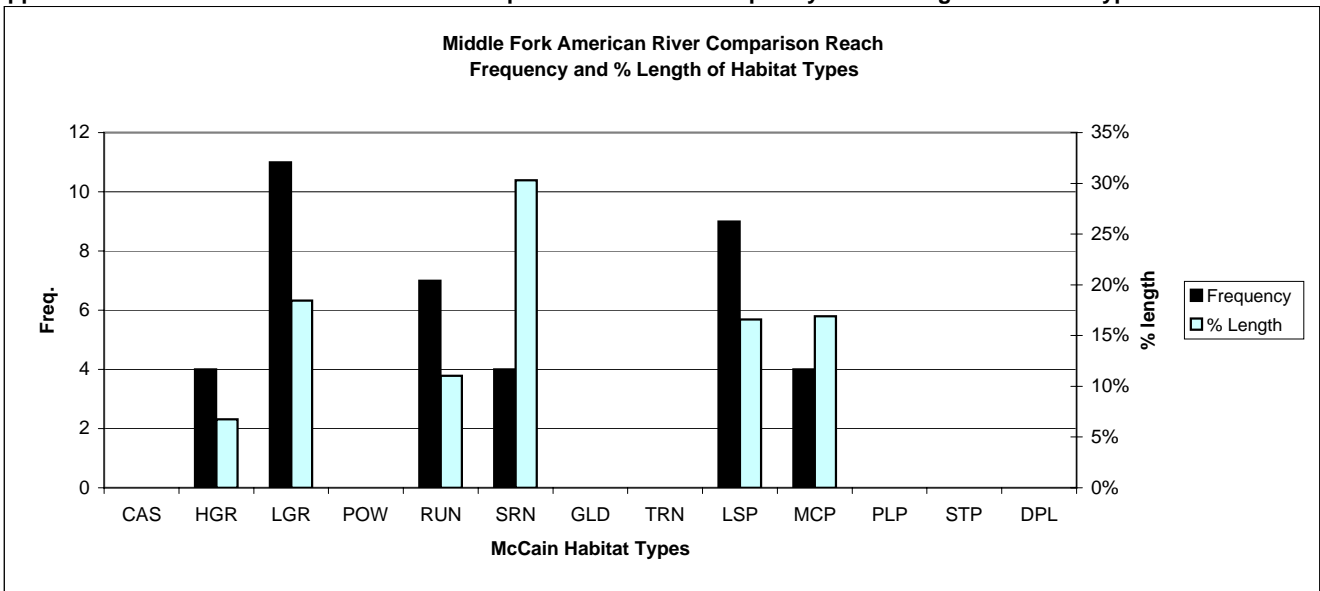
Appendix C-3. South Fork Long Canyon Creek Habitat Mapping - Frequency and Percent Length Results.



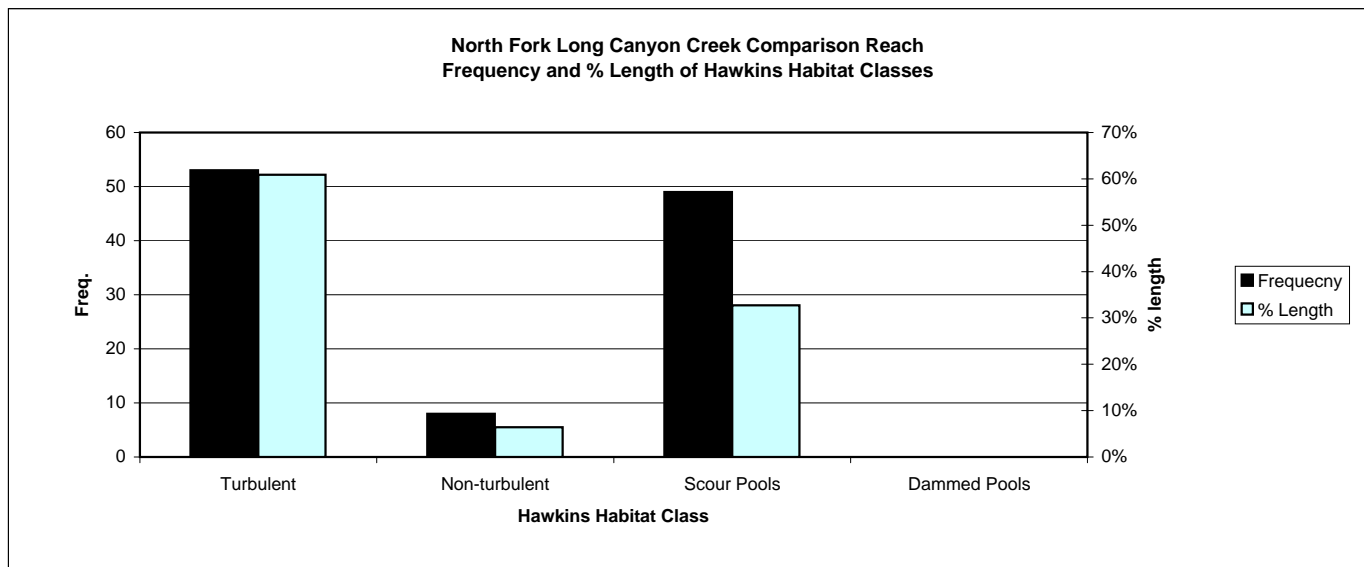
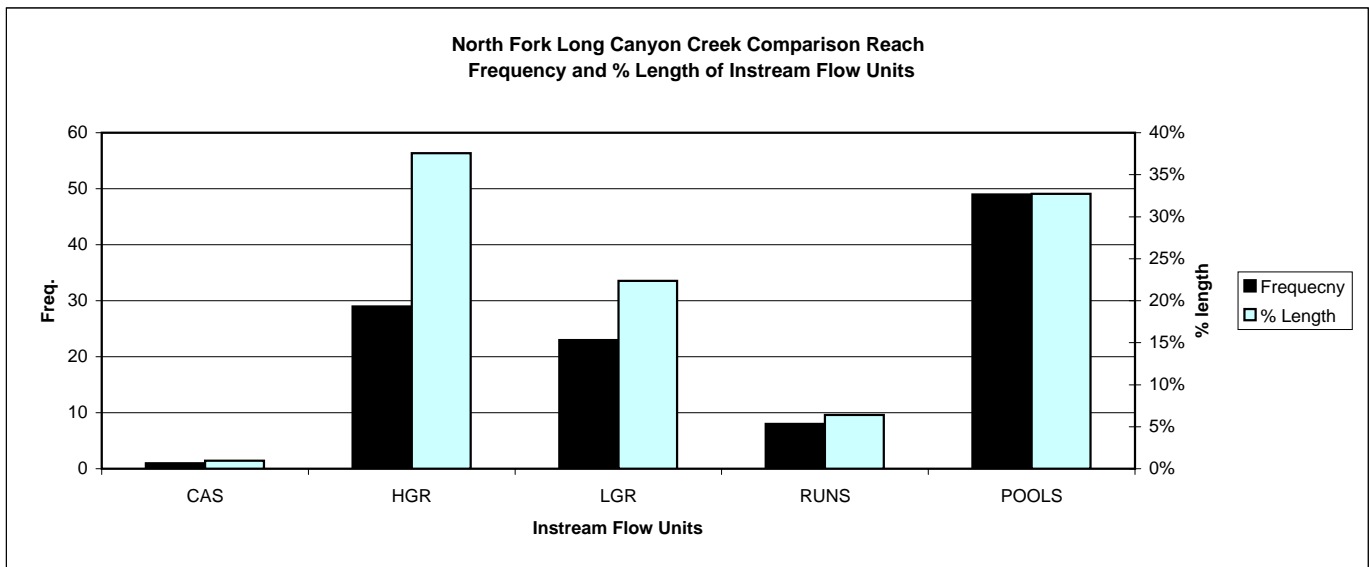
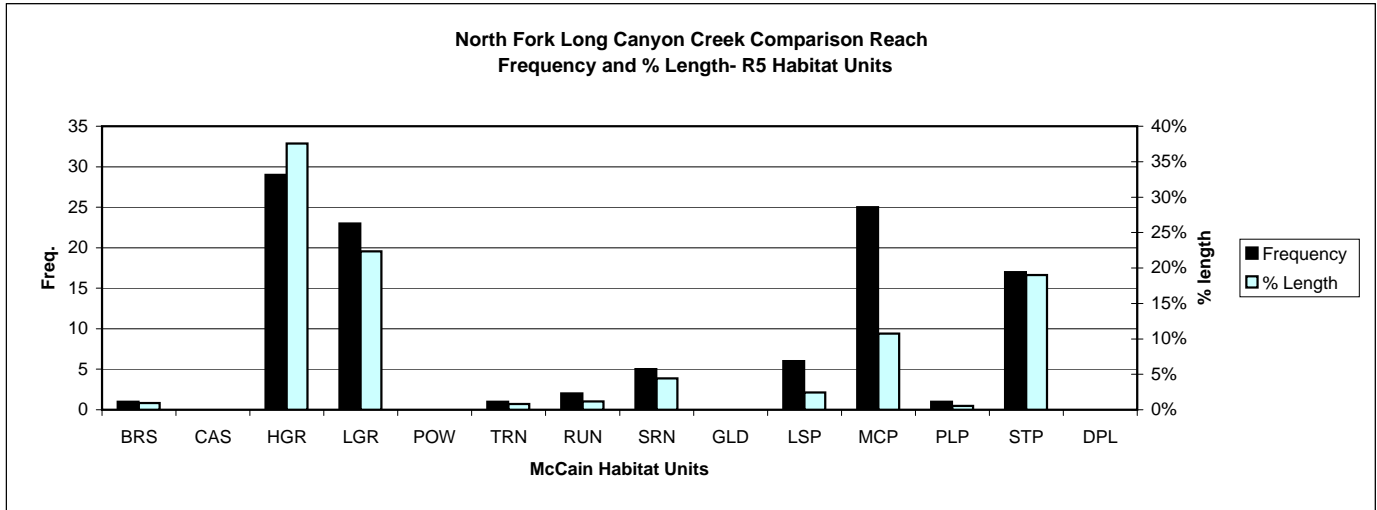
Appendix C-3. Duncan Creek Habitat Mapping - Frequency and Percent Length Results.



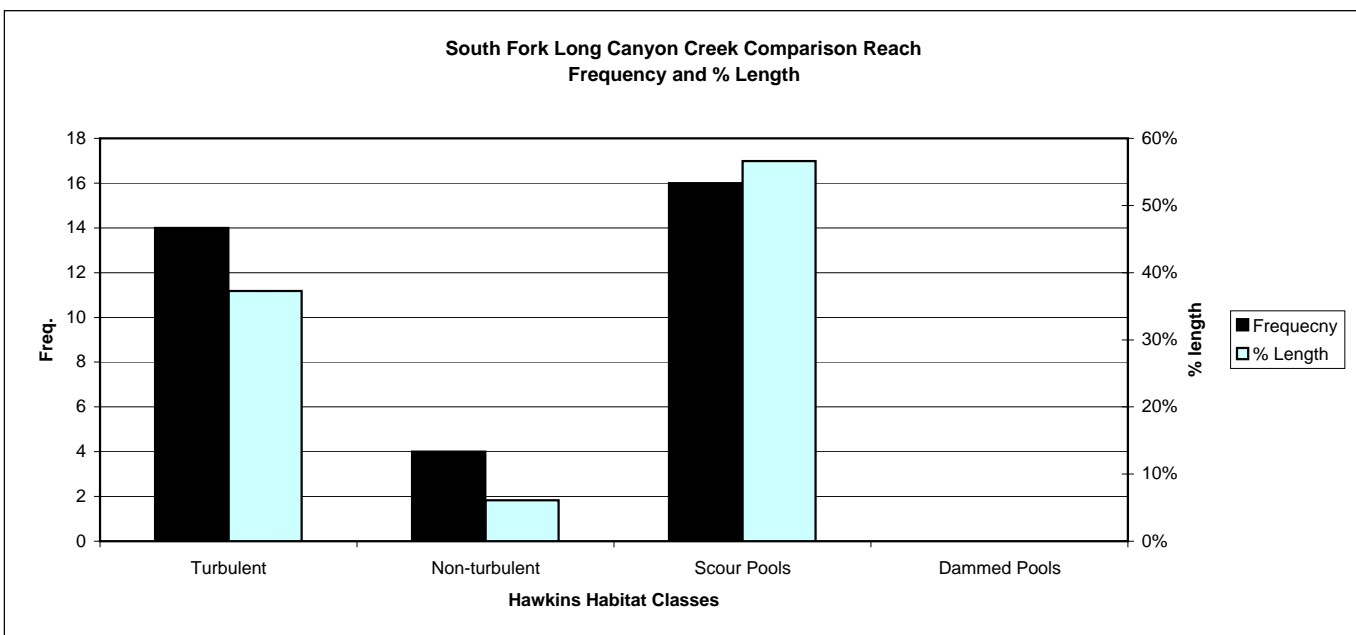
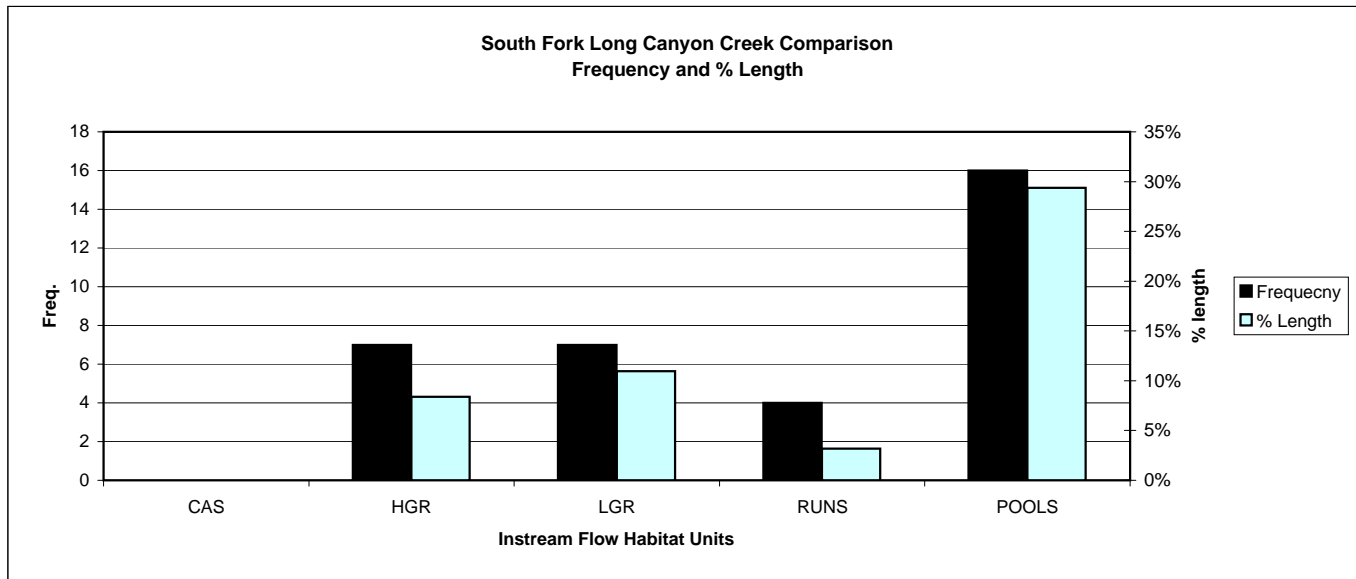
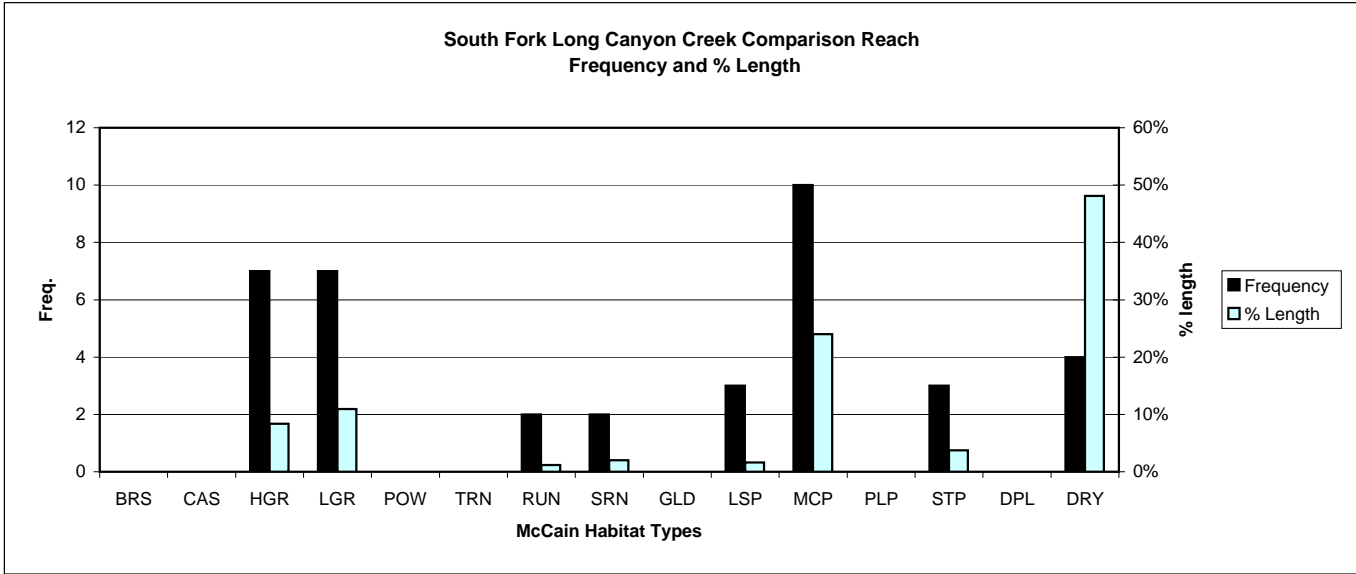
Appendix C-3. Middle Fork American River Comparison Reaches - Frequency and % Length of Habitat Types.



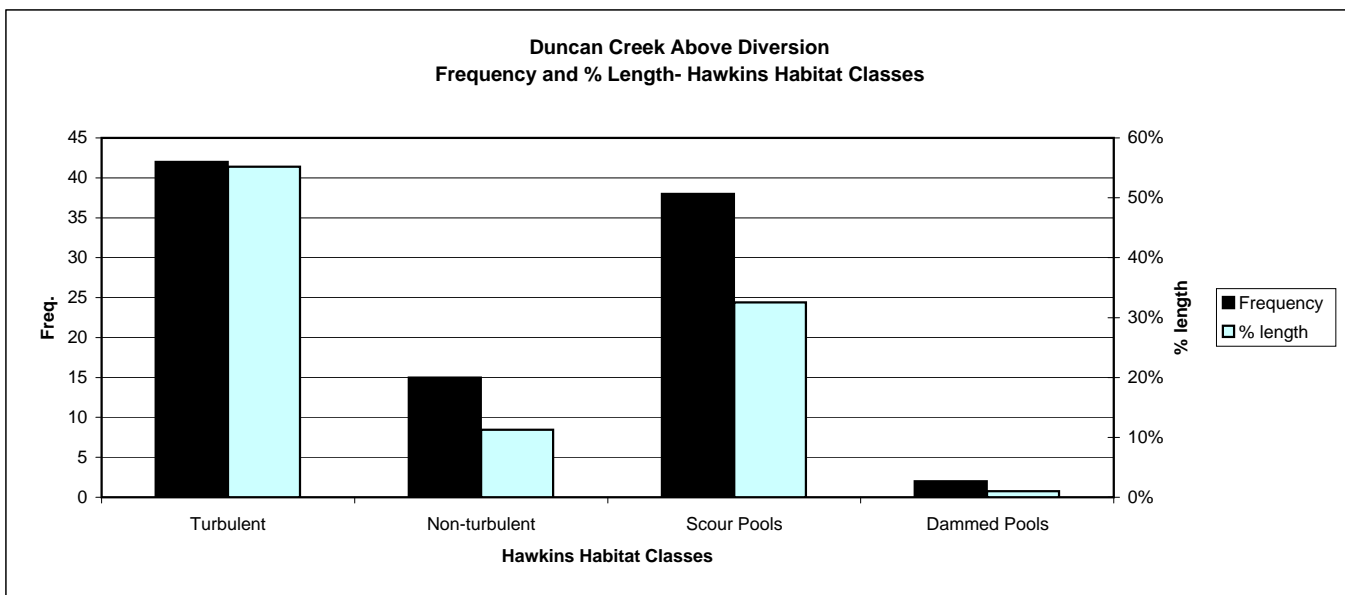
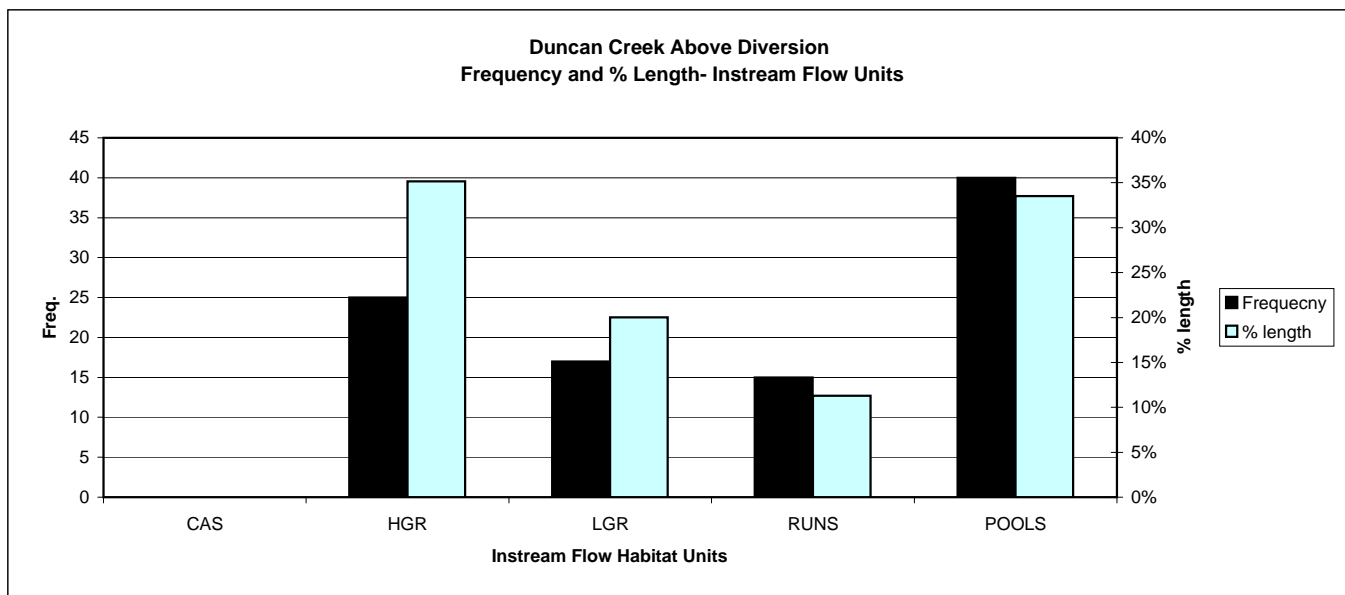
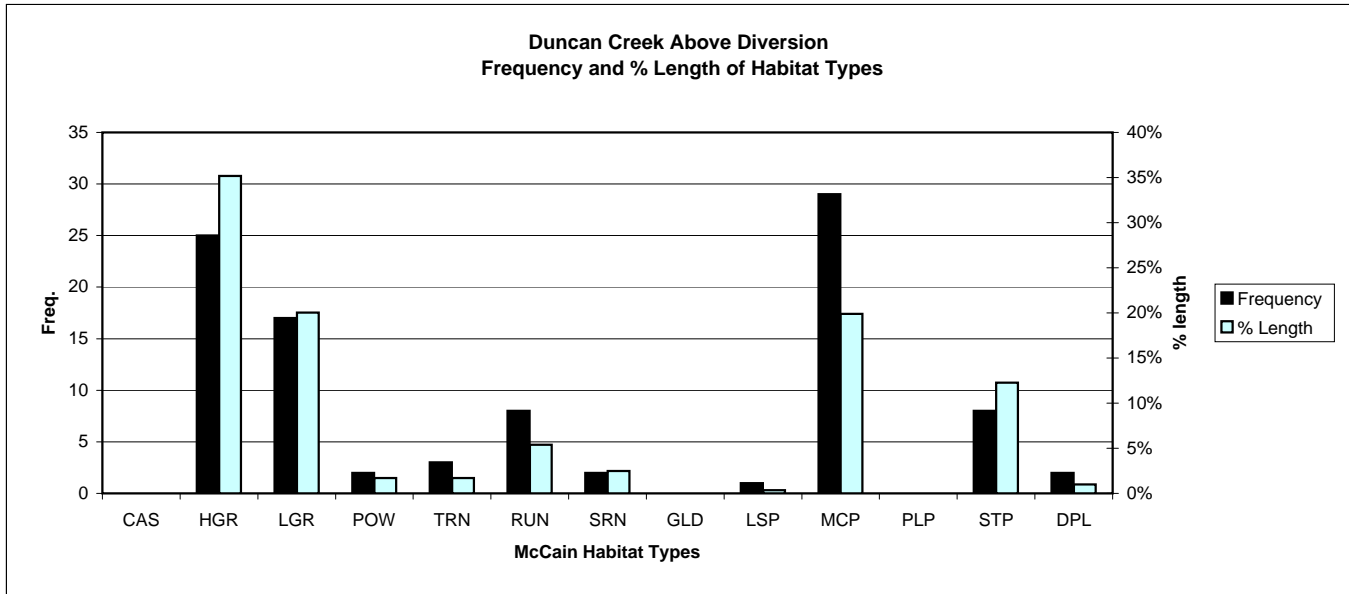
Appendix C-3. North Fork Long Canyon Creek Comparison Reaches - Frequency and % Length of Habitat Types.



Appendix C-3. South Fork Long Canyon Creek Comparison Reaches - Frequency and % Length of Habitat Types.

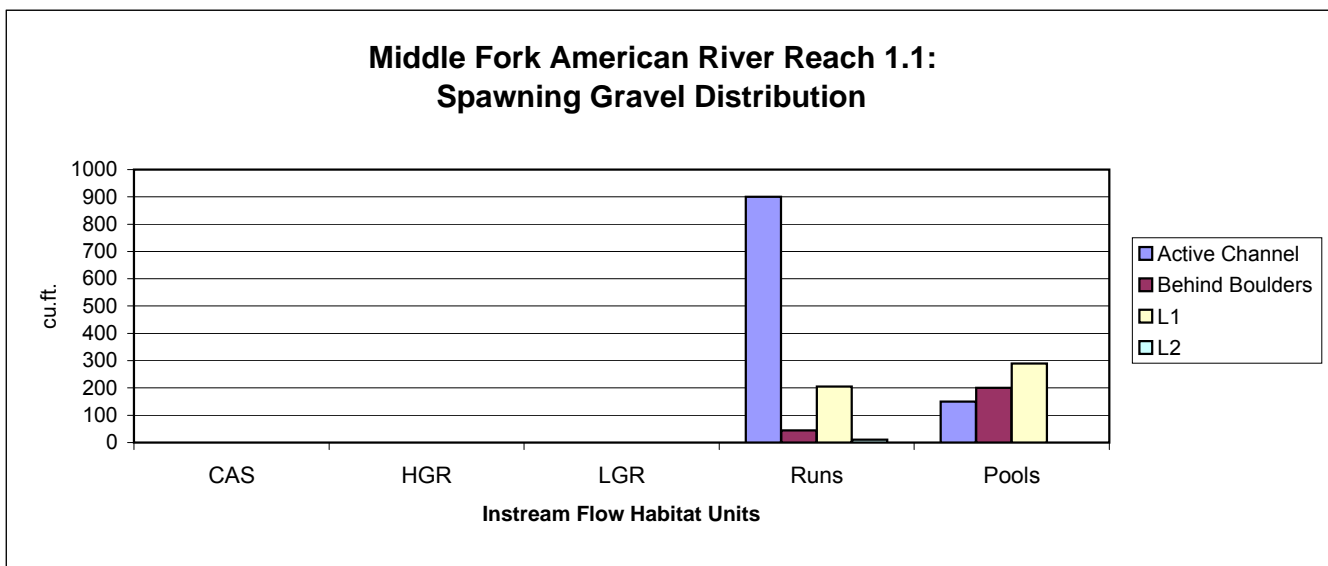
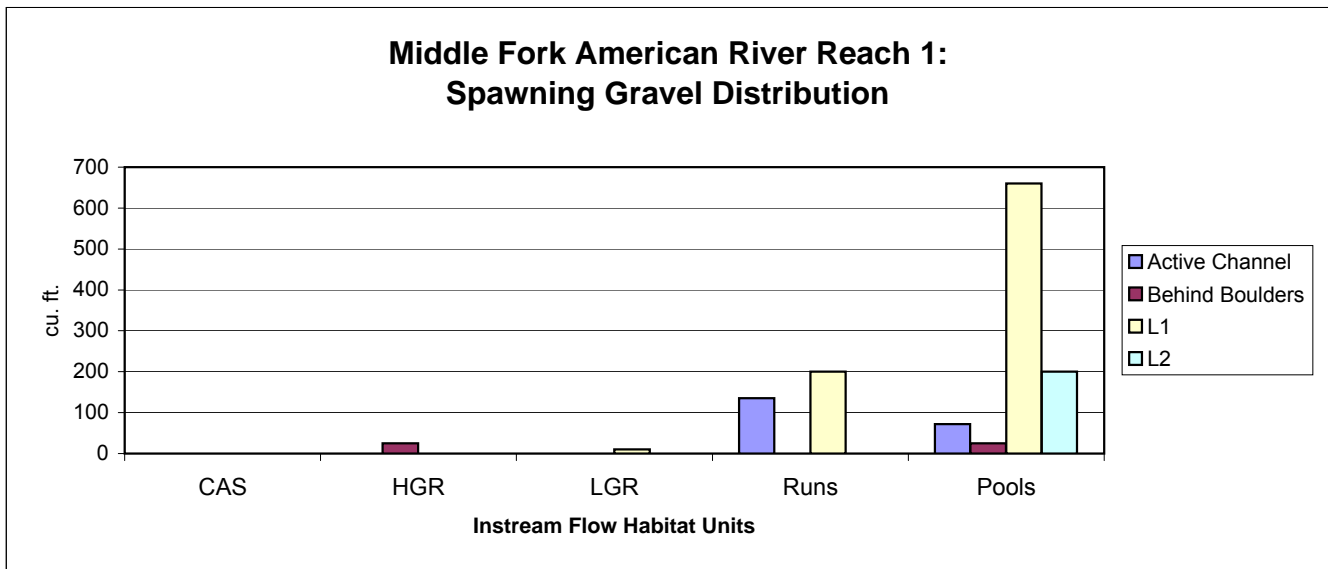
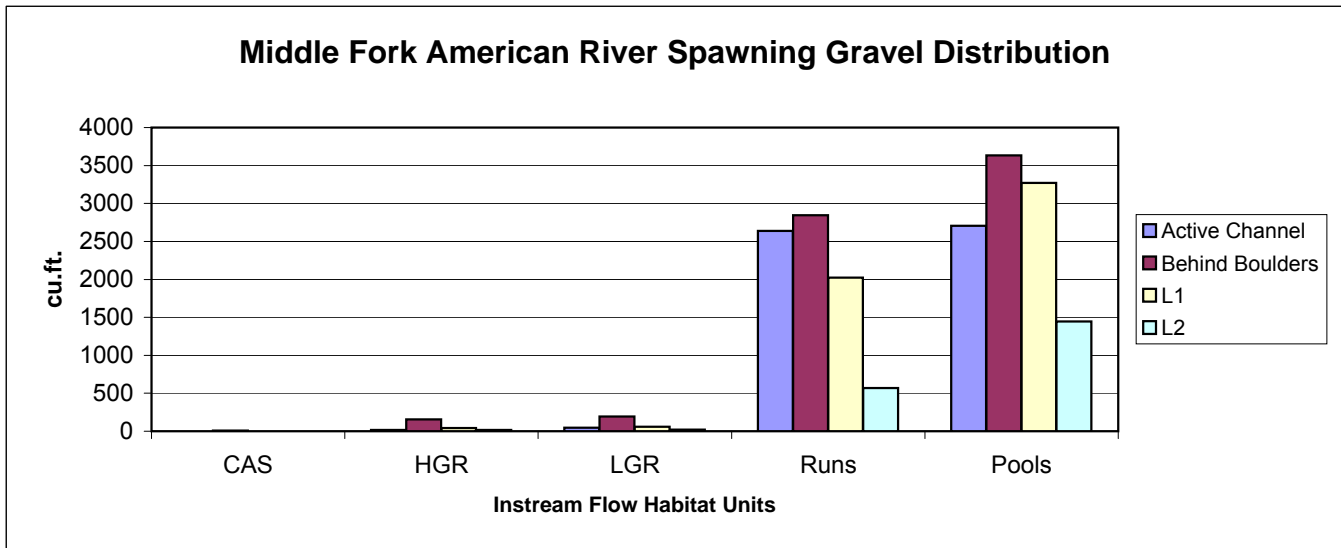


Appendix C-3. Duncan Creek Comparison Reaches - Frequency and % Length of Habitat Types.

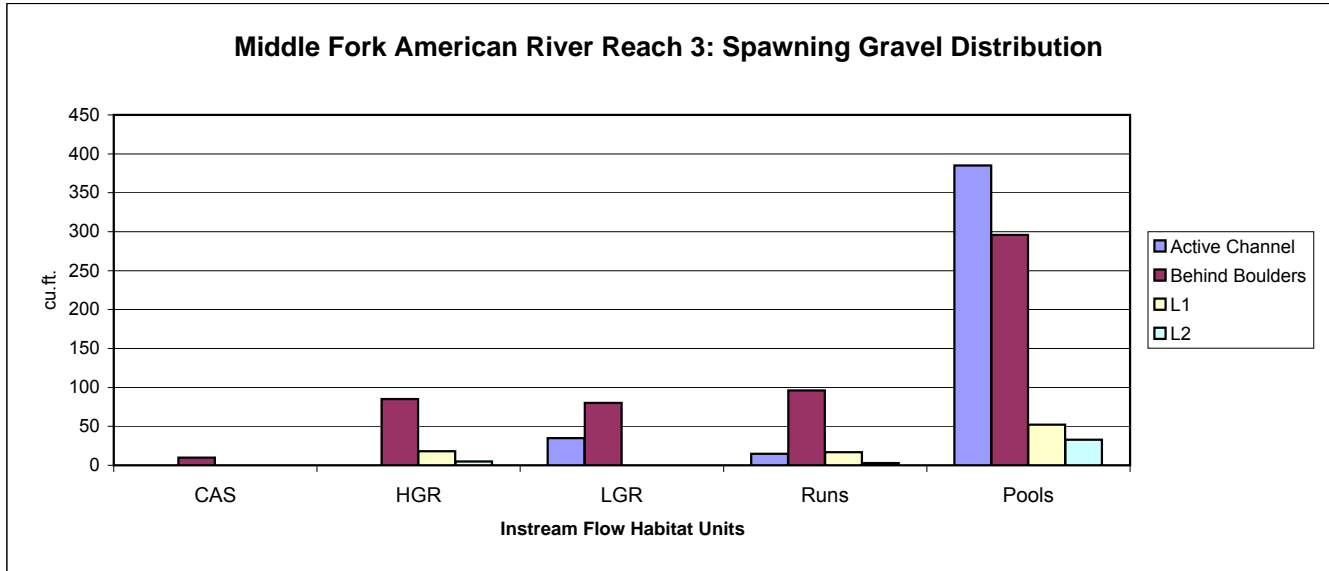
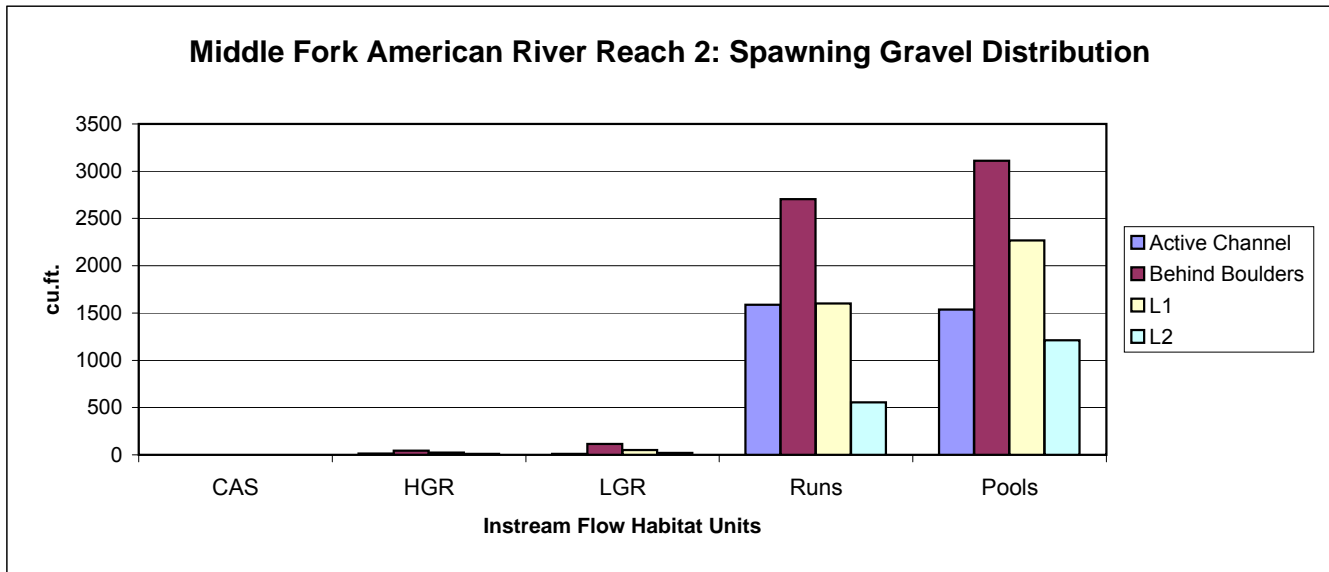


APPENDIX C-4
Spawning Gravel Distribution by Habitat Type

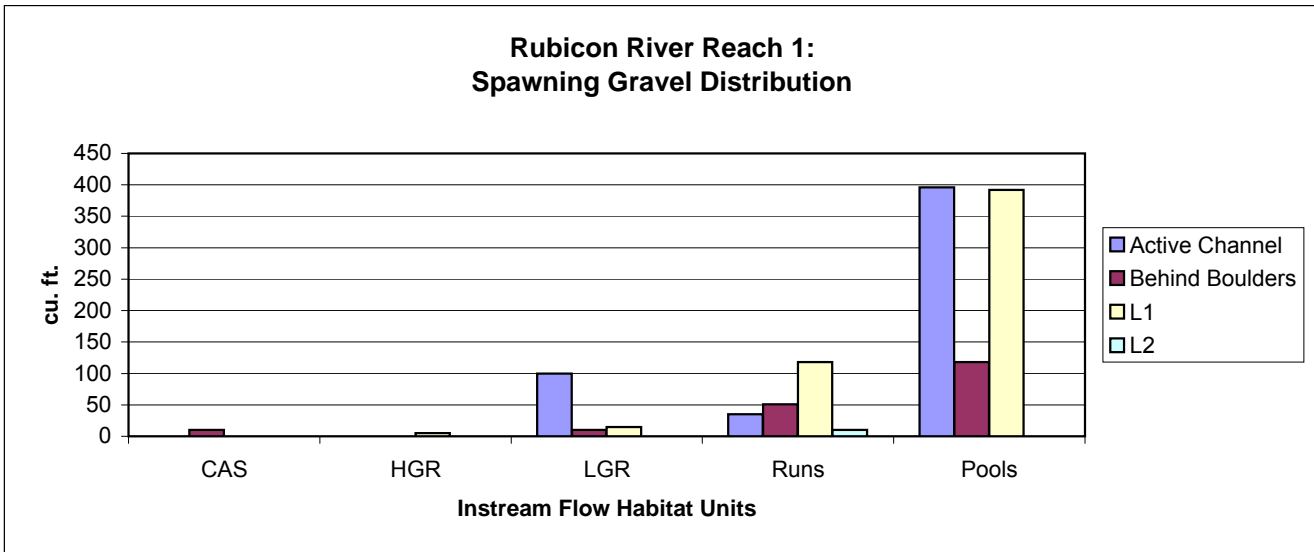
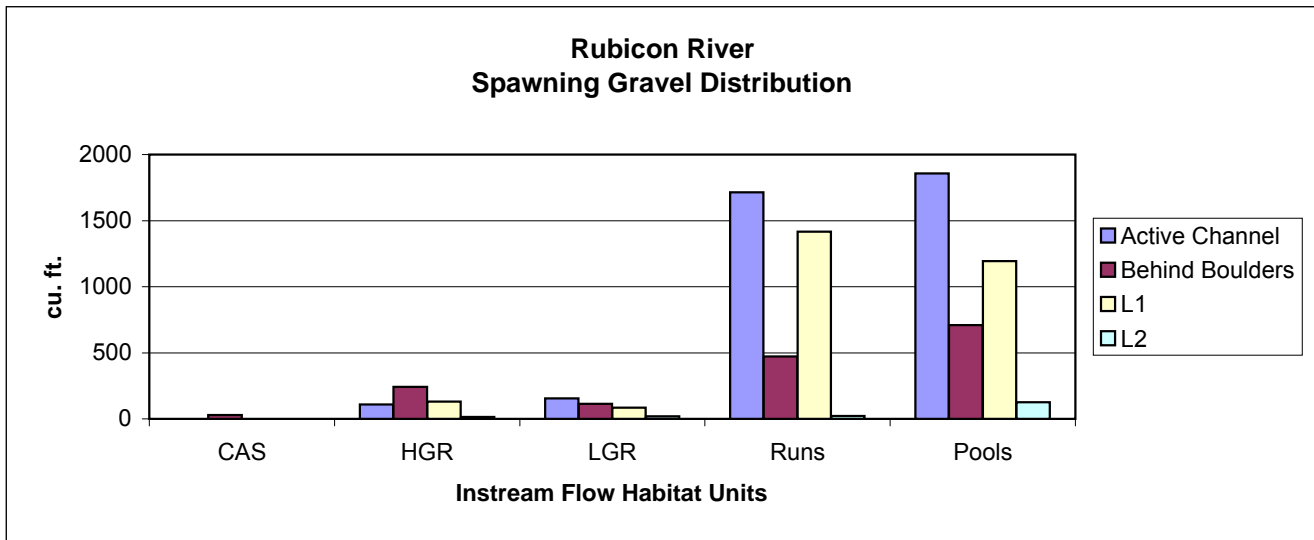
Appendix C-4. Middle Fork American River Spawning Gravel Distribution by Habitat Type.



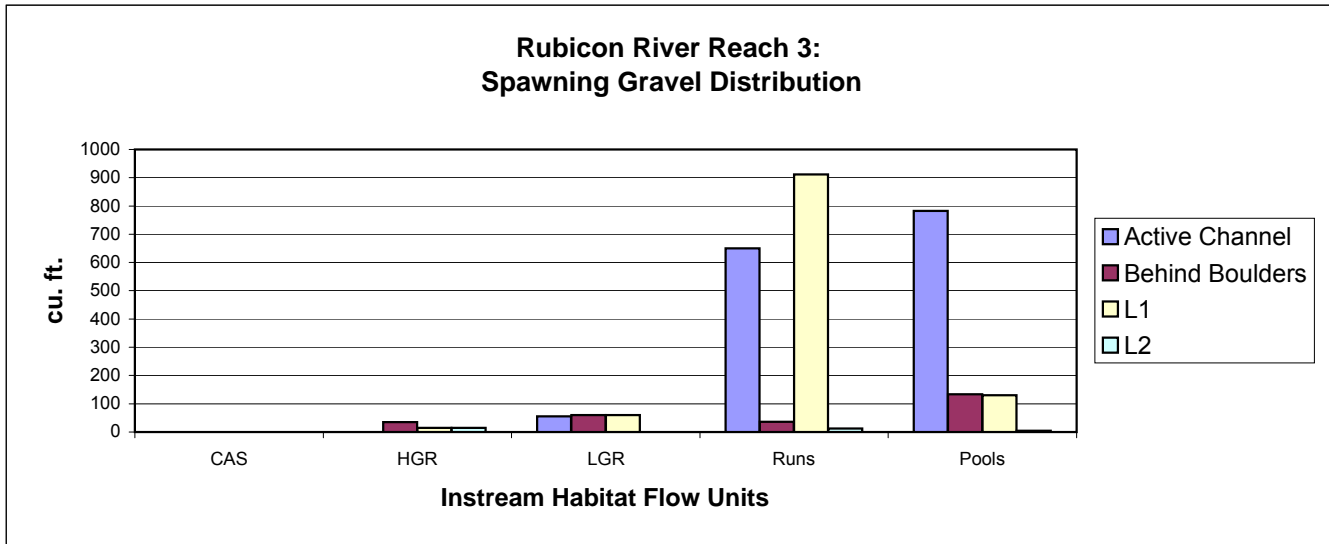
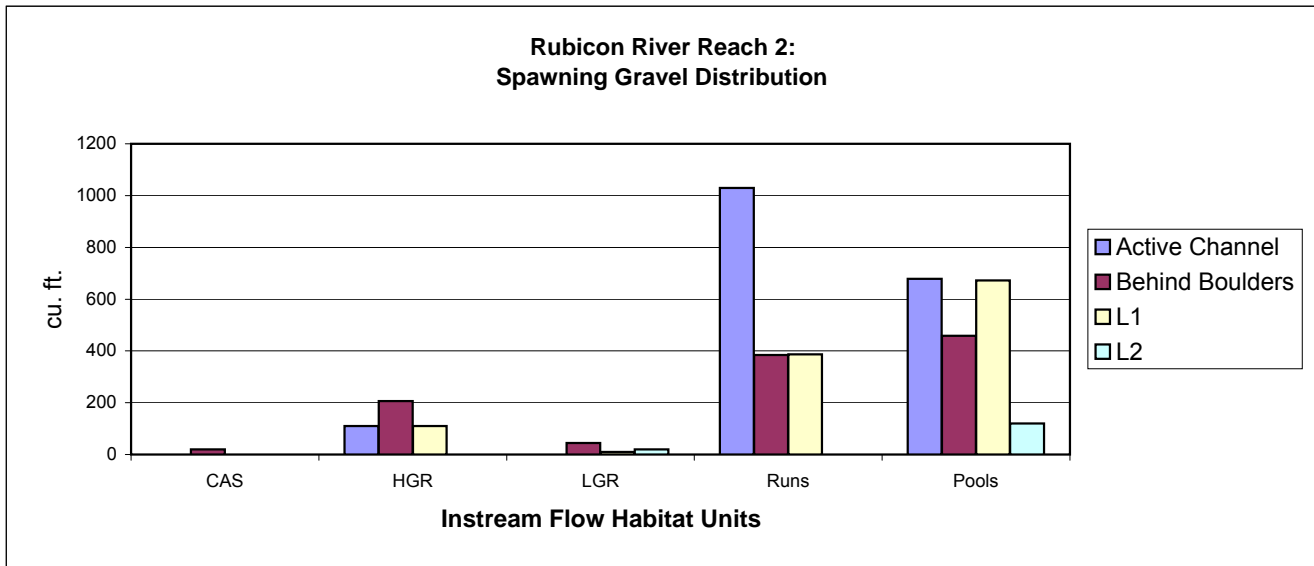
Appendix C-4. Middle Fork American River Spawning Gravel Distribution by Habitat Type (continued).



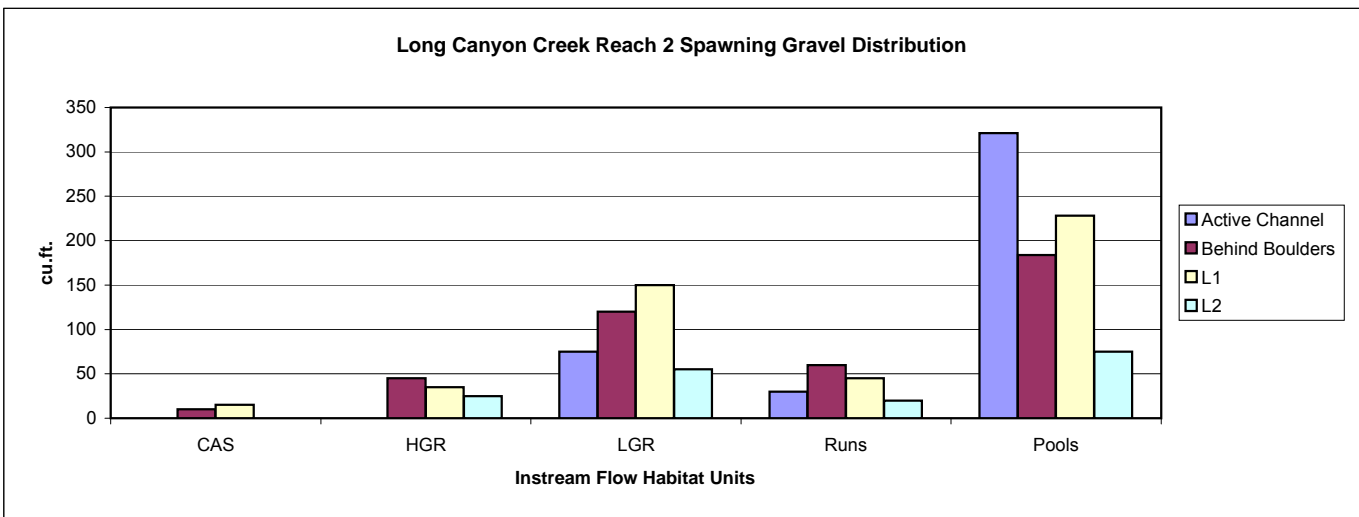
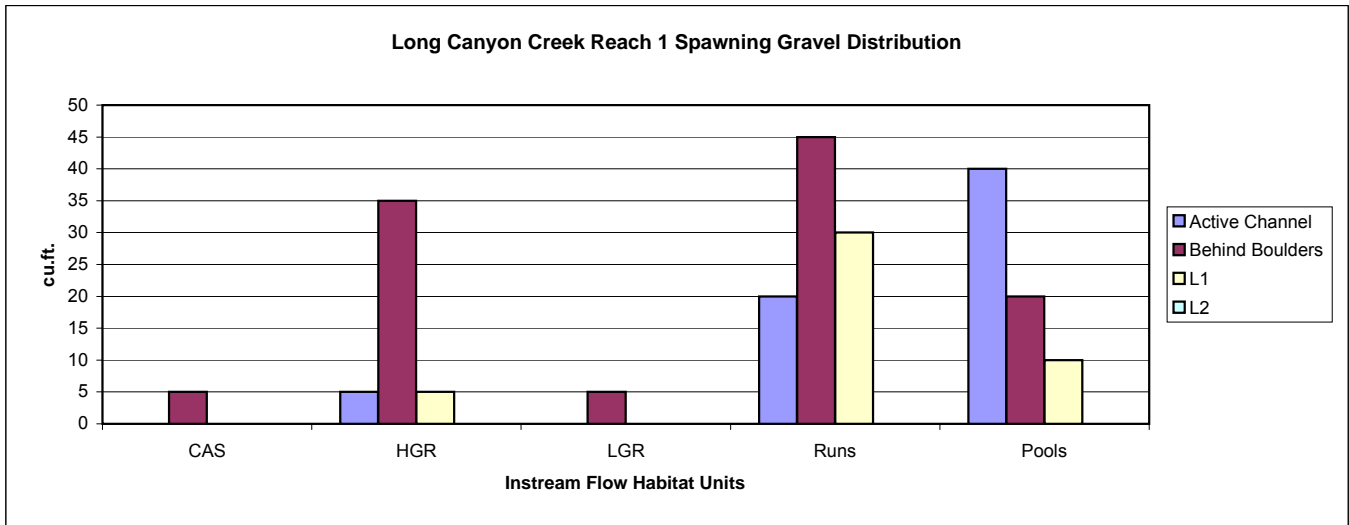
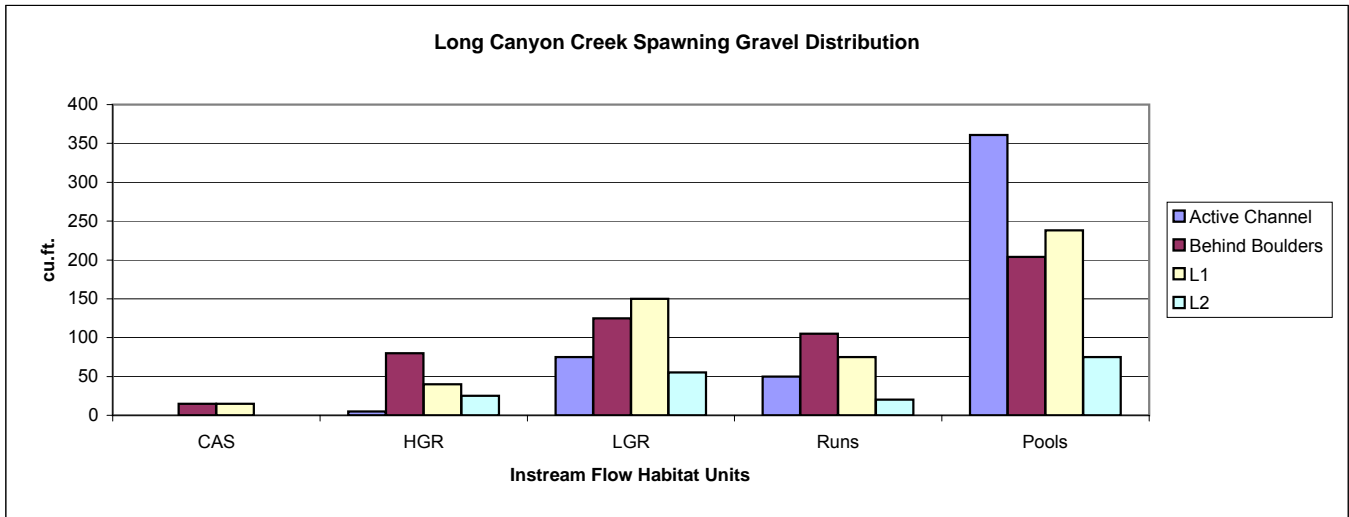
Appendix C-4. Rubicon River Spawning Gravel Distribution by Habitat Type.



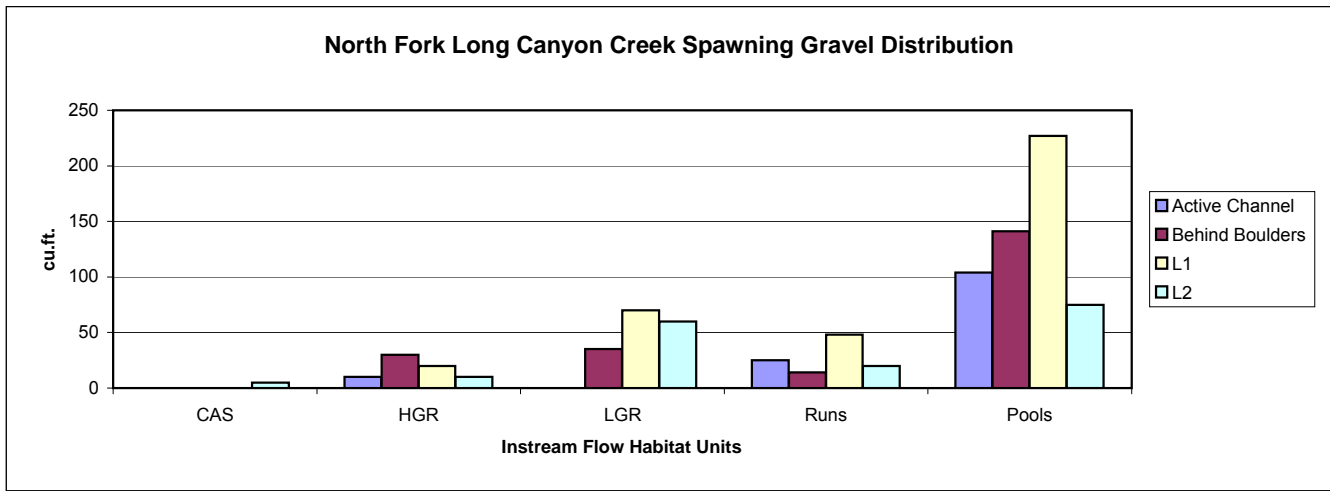
Appendix C-4. Rubicon River Spawning Gravel Distribution by Habitat Type (continued).



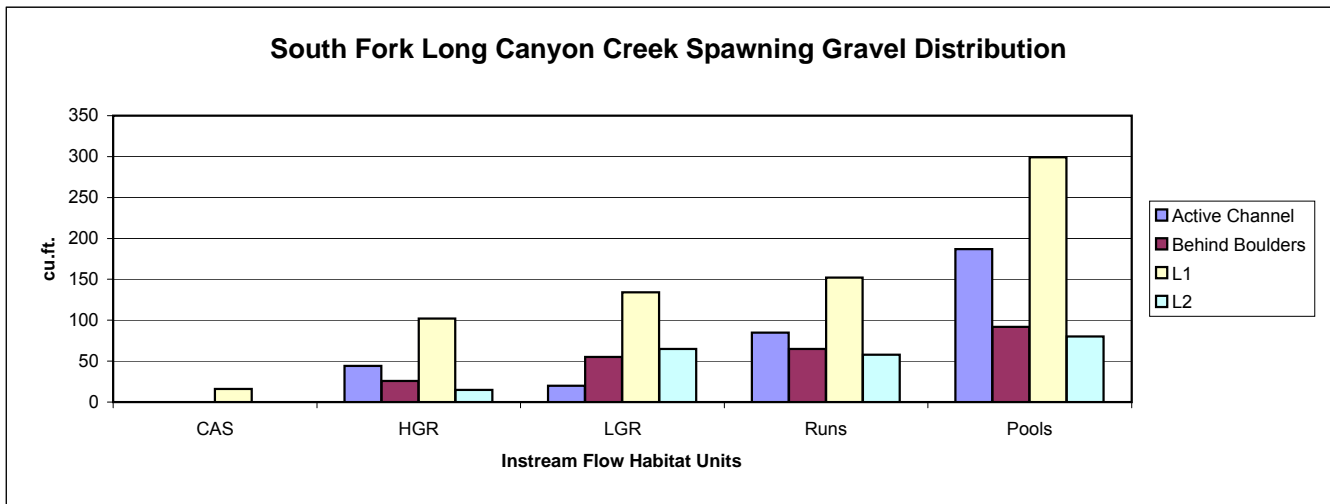
Appendix C-4. Long Canyon Creek Spawning Gravel Distribution by Habitat Type.



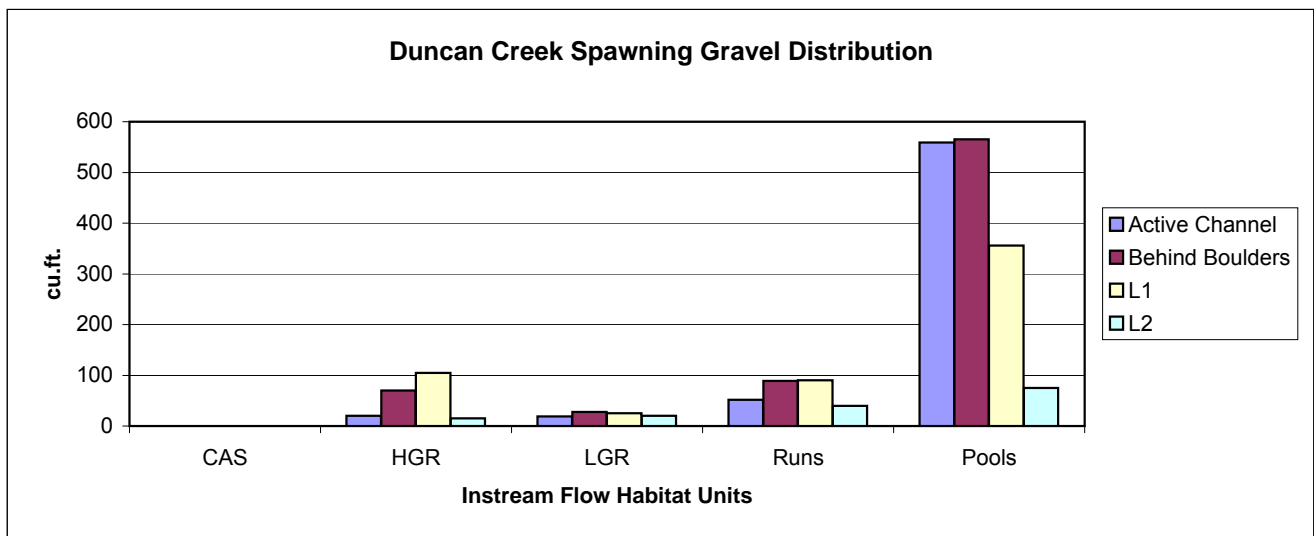
Appendix C-4. North Fork Long Canyon Creek Spawning Gravel Distribution by Habitat Type.



Appendix C-4. South Fork Long Canyon Creek Spawning Gravel Distribution by Habitat Type.

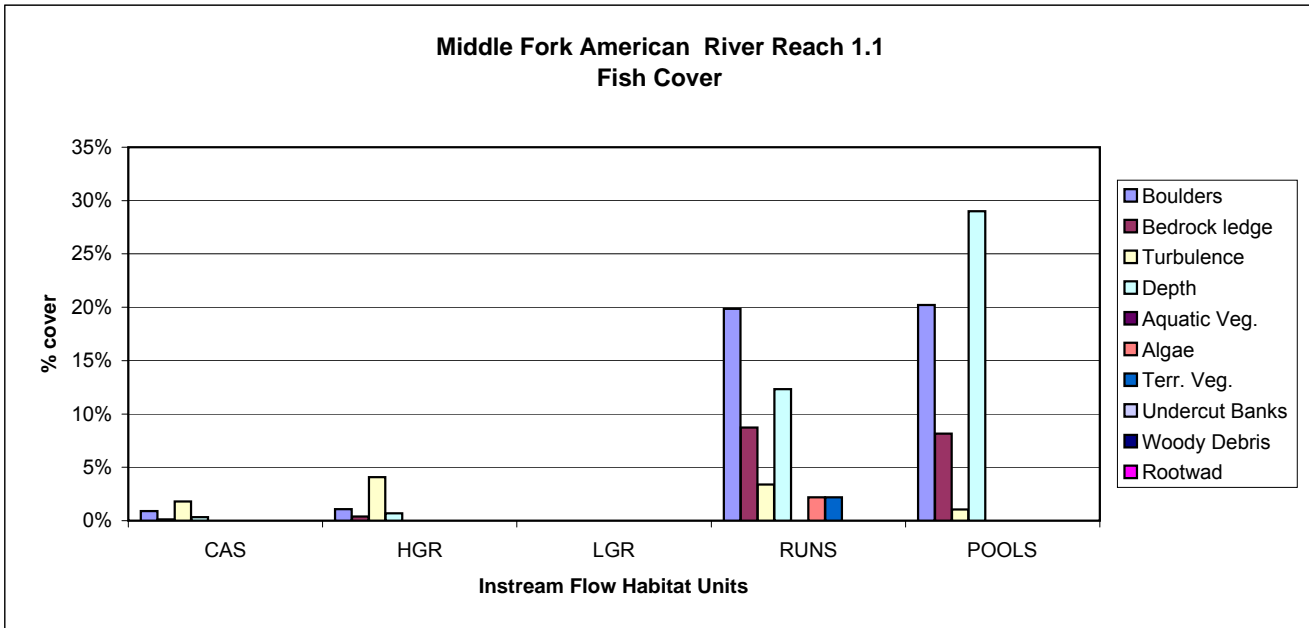
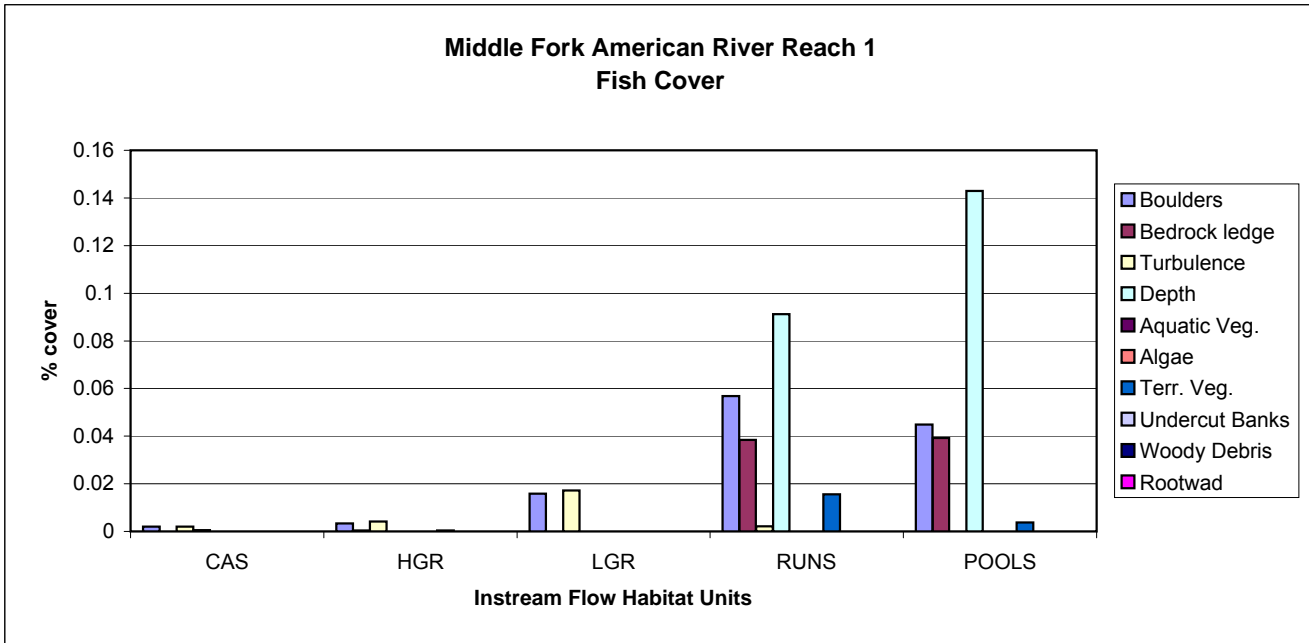


Appendix C-4. Duncan Creek Spawning Gravel Distribution by Habitat Type.

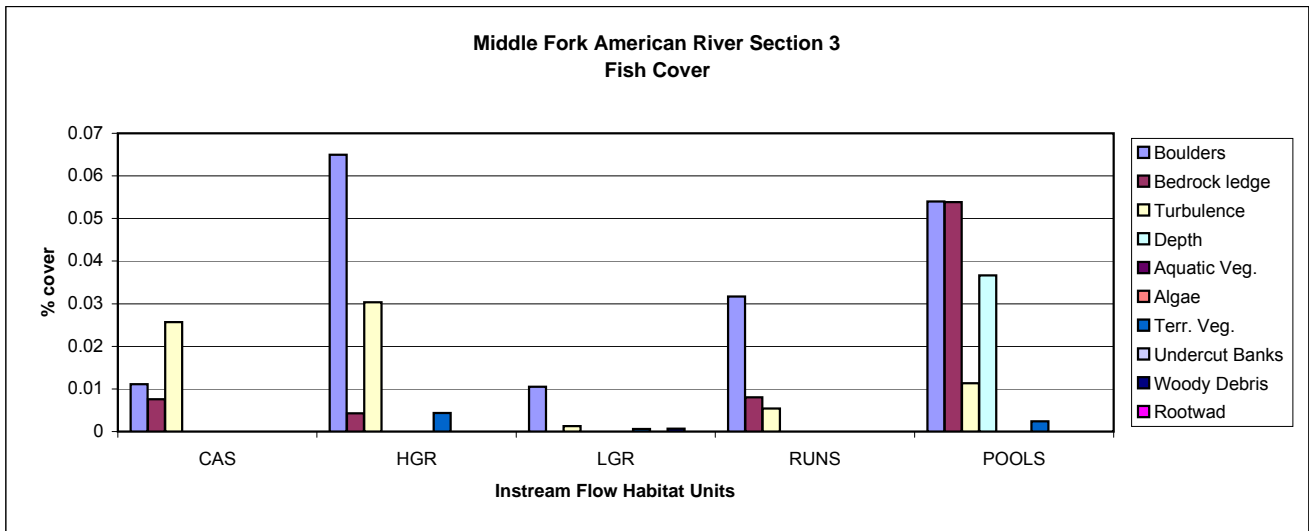
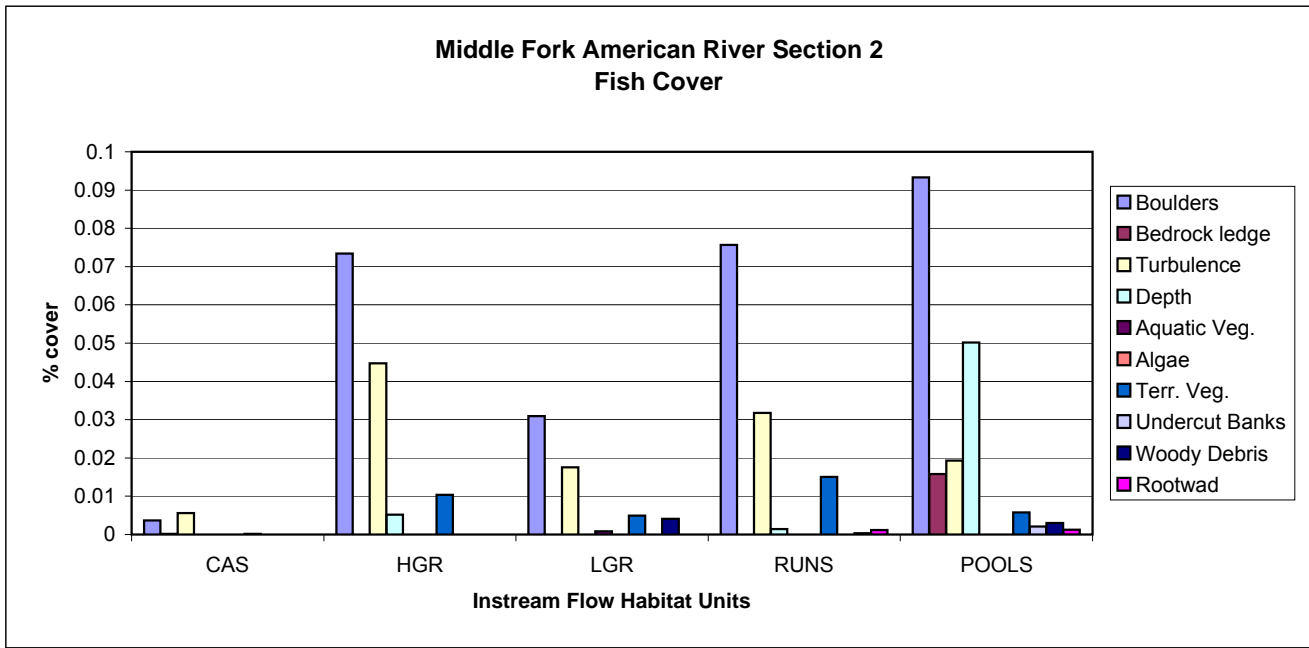


APPENDIX C-5
Fish Cover by Habitat Type

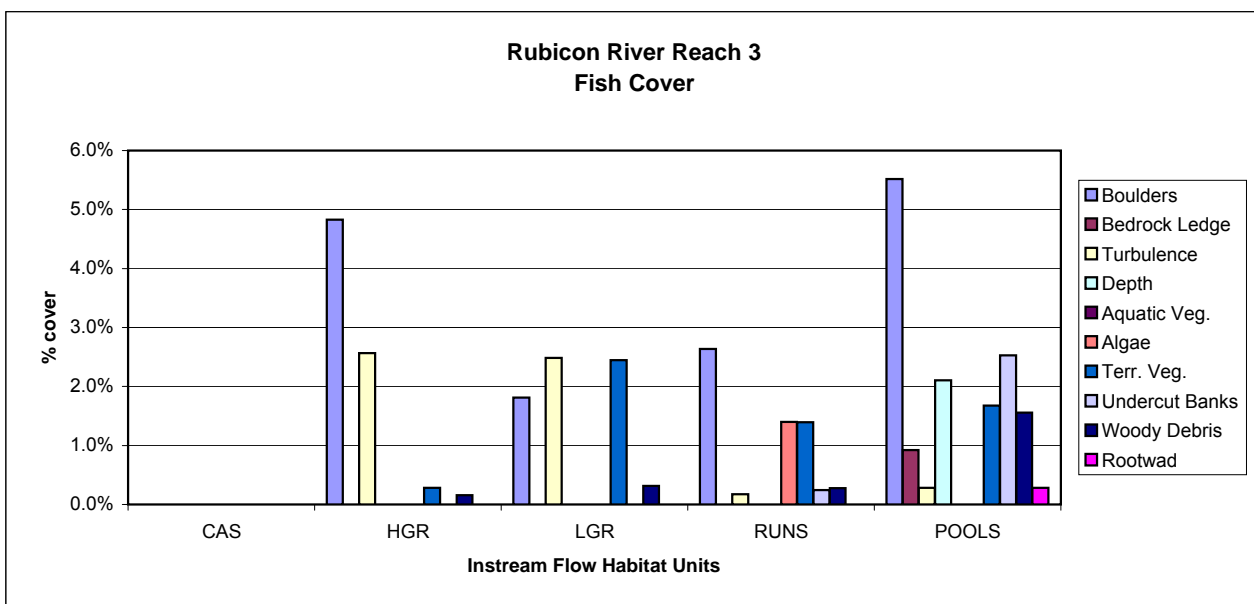
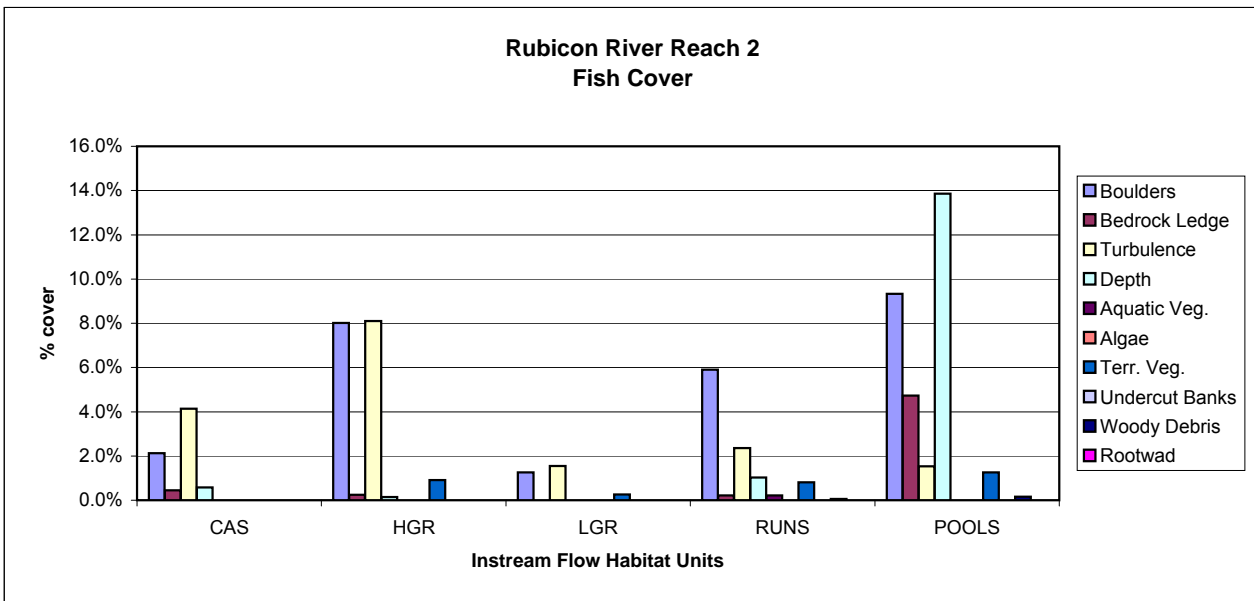
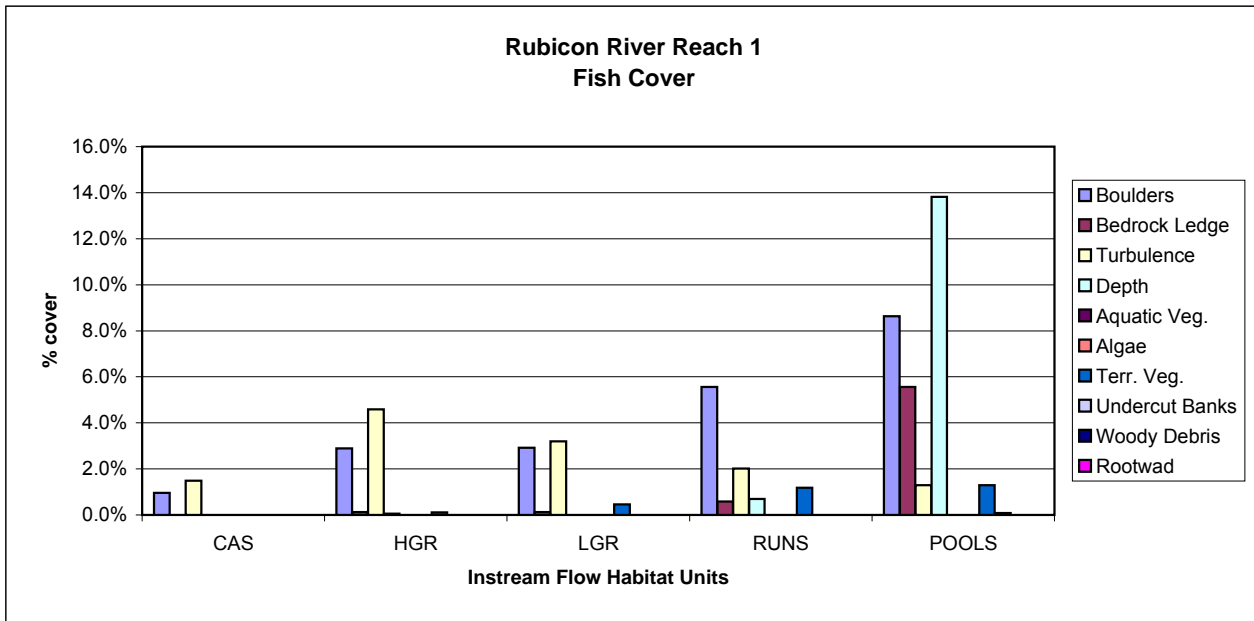
Appendix C-5. Middle Fork American River Fish Cover by Habitat Type.



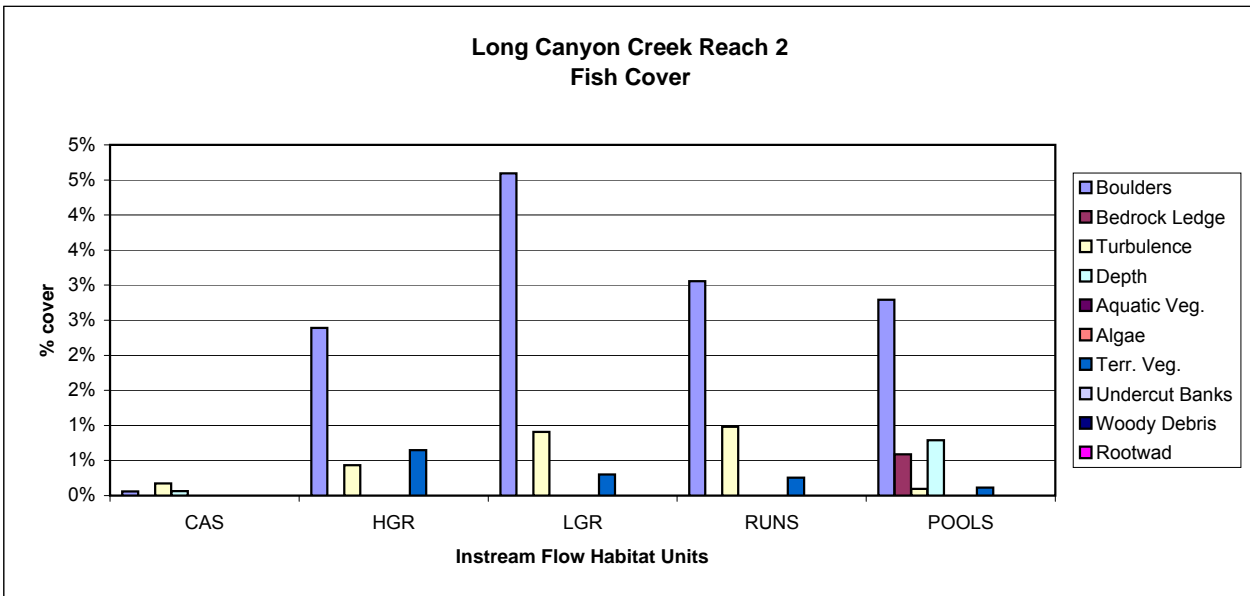
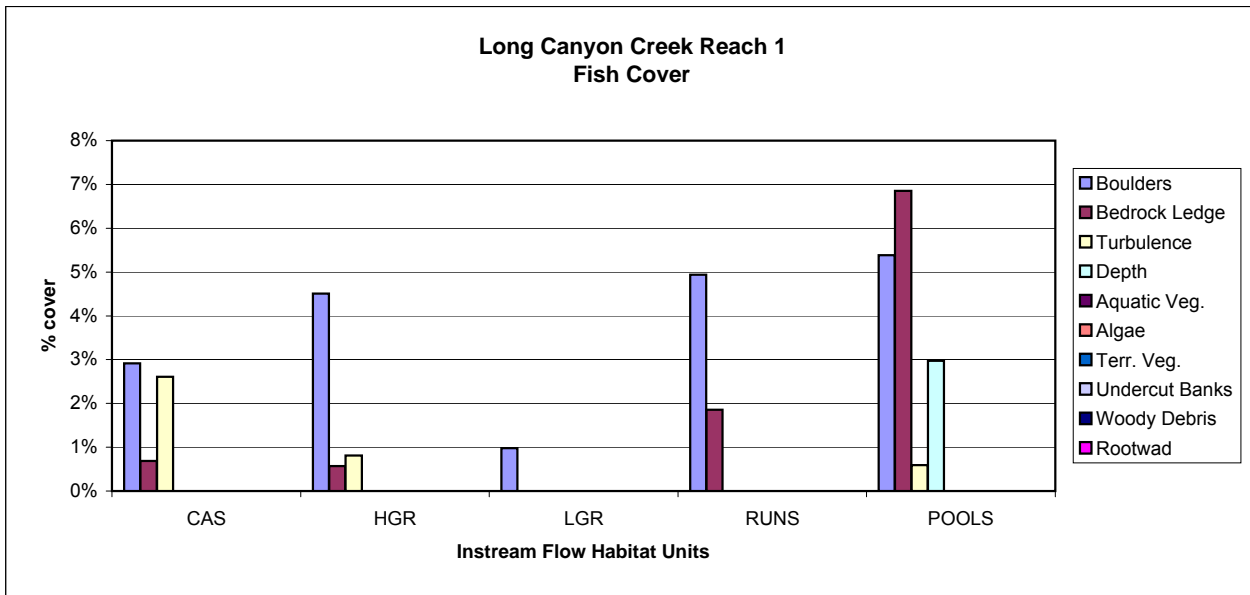
Appendix C-5. Middle Fork American River Fish Cover by Habitat Type (continued).



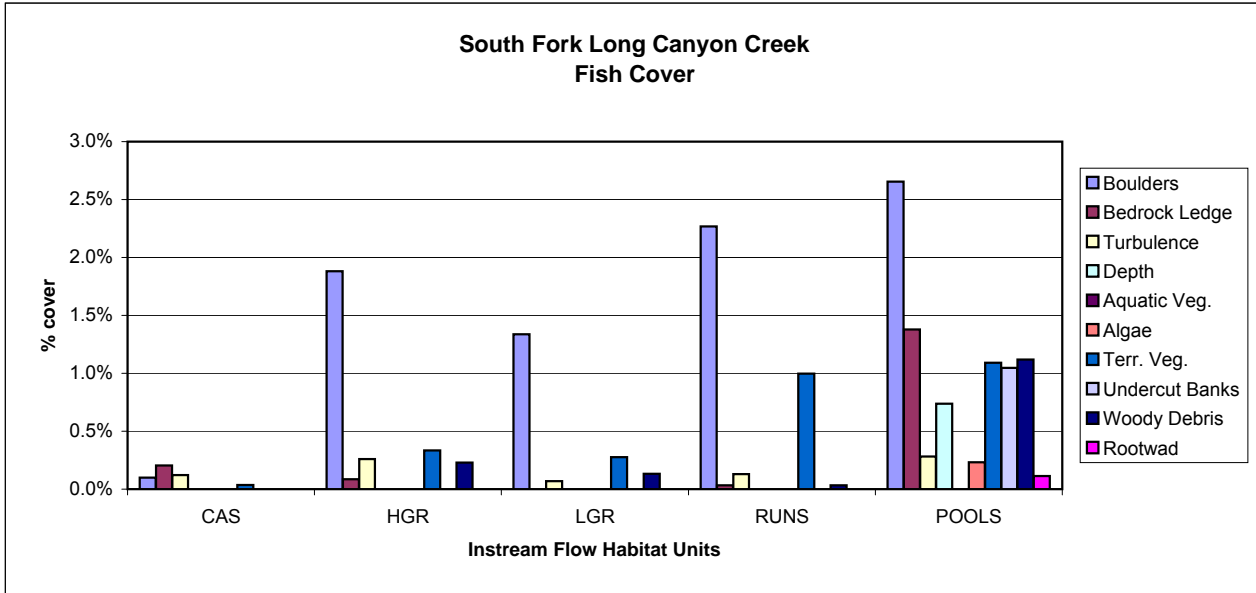
Appendix C-5. Rubicon River Fish Cover by Habitat Type.



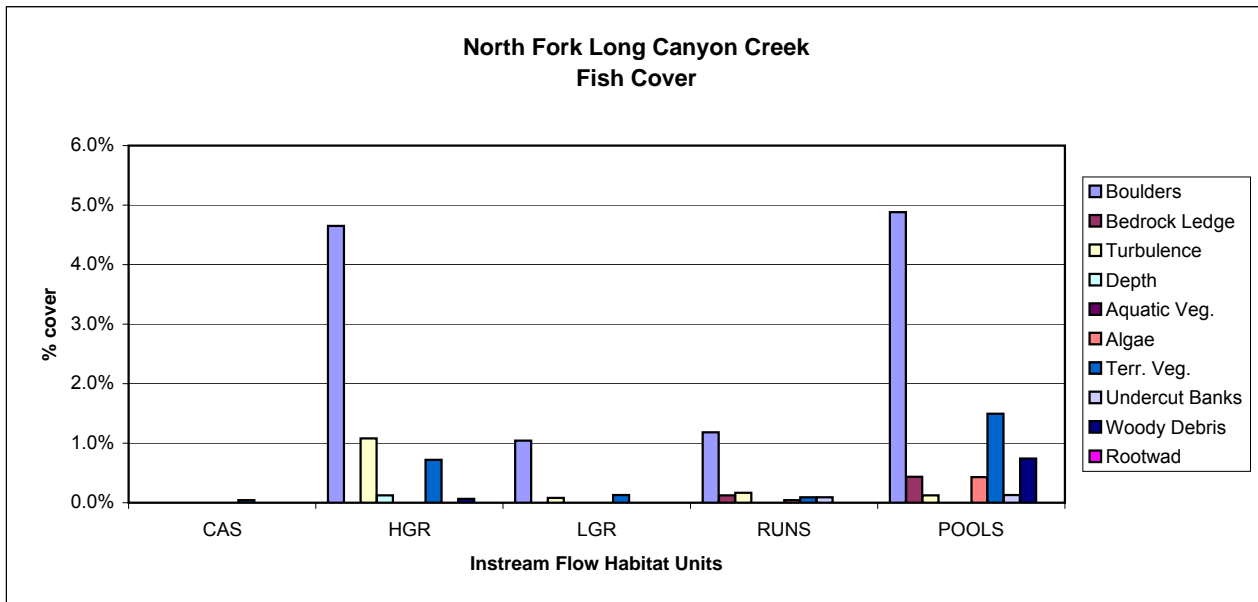
Appendix C-5. Long Canyon Creek Fish Cover by Habitat Type.



Appendix C-5. South Fork Long Canyon Creek Fish Cover by Habitat Type.



Appendix C-5. North Fork Long Canyon Creek Fish Cover by Habitat Type.



Appendix C-5. Duncan Creek Fish Cover by Habitat Type.

