
Synopsis of Surface Water Availability Assessment

Appendix A

Apalachicola-Chattahoochee-Flint

Charts depicting flows and shortages relative to flow regime by planning node for current conditions model.

1. Whitesburg
2. Columbus
3. Columbia
4. Montezuma
5. Bainbridge

Synopsis of Surface Water Availability Assessment

Chart type 1 is a pie chart that shows the percentage of daily flows above and below the adjusted flow regime. The percentage of time above the adjusted flow regime is an indication of how often the flow regime can be met and withdrawals can be made.

Chart type 2 shows the percentage of time that flows are below the adjusted flow regime for each month of the year, indicating months in which water availability is most constrained. The higher the percentage, the more often there are shortfalls, hence more water availability constraints.

Chart type 3 shows certain monthly statistics during periods of shortfalls. Namely, average simulated river flows, average adjusted flow regime flows, and average unimpaired flows are shown by line plots. In addition, each month's average shortfall and the range between the largest and smallest shortfall are shown by bar plots. This chart shows the magnitude of a shortfall for a given month relative to the typical flows available during the month only on the days shortfalls occur. Flows for days without shortfalls are not included in generating these statistics.

Chart type 4 shows plots of monthly values of the adjusted flow regime and the 10-percentile (the lowest 10 percent of unimpaired flows), the 50-percentile (mid-range flows), and 90-percentile (all but the top 10 percent) flows. This range of percentiles covers dry, median, and wet conditions, respectively. The chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream if there were no effects of human development.

Chart type 5 shows plots of monthly values of the adjusted flow regime and the lowest 10 percent of simulated flows, i.e., 10-percentile flows, 50-percentile flows, and 90-percentile flows. This chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream under current condition assumptions.

Chart type 6 shows the daily storage and seasonal top of conservation curve for a given reservoir over the period of record. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 7 shows the percentage of storage remaining relative to the seasonal top of conservation pool for a given reservoir over the period of record. The reservoir is 100 percent full when the level is at or above the rule curve. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 8 shows the percentage of time that the remaining storage of a given reservoir is above a given percentage relative to the rule curve. The reservoir is 100 percent full when the level is at or above the rule curve. Storage remaining in the reservoir reflects magnitude and timing of demands.

AFR = Adjusted Flow Regime

Figure A-1-1 Total Storage at Buford
(Chart Type 6)

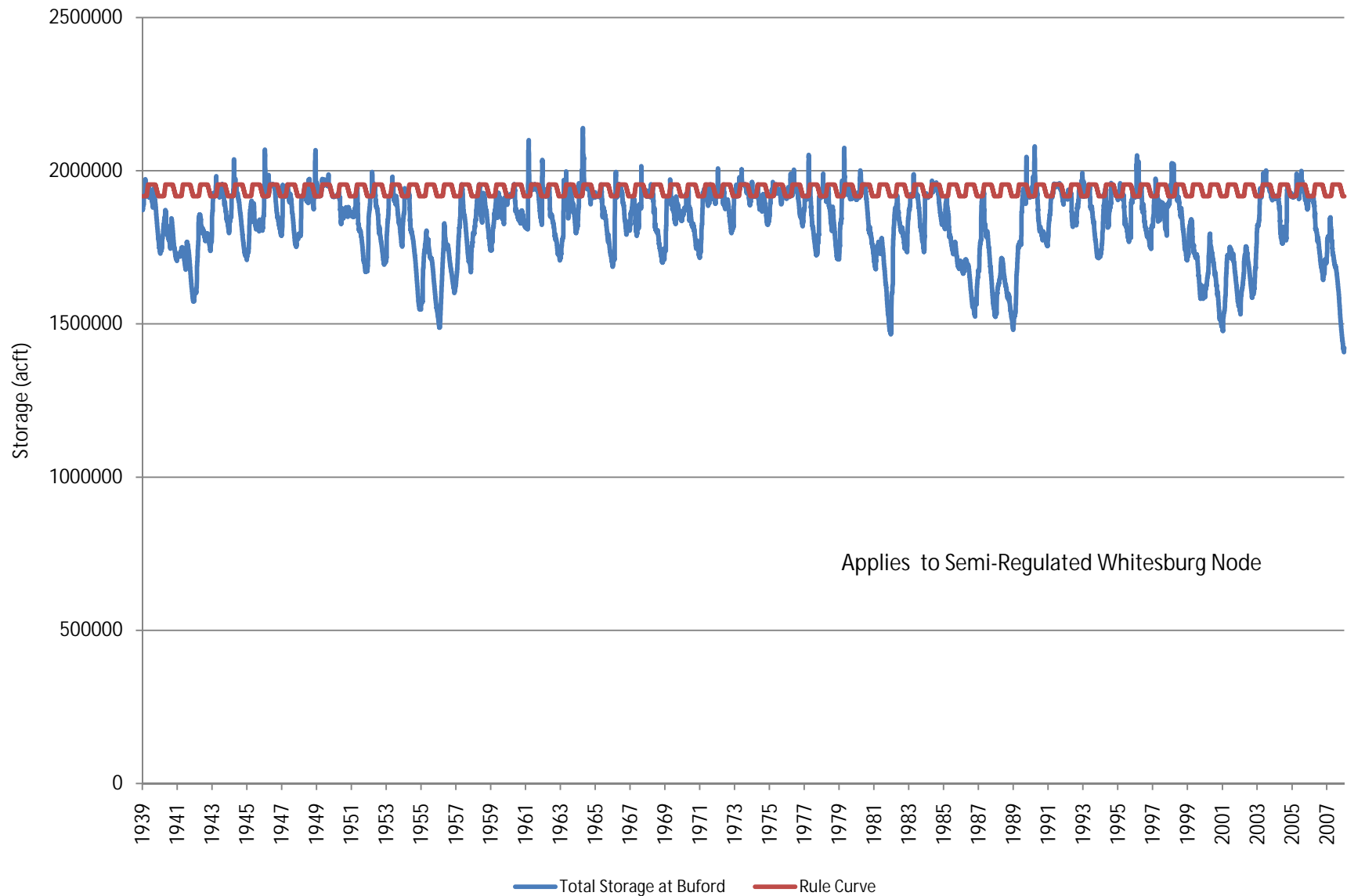
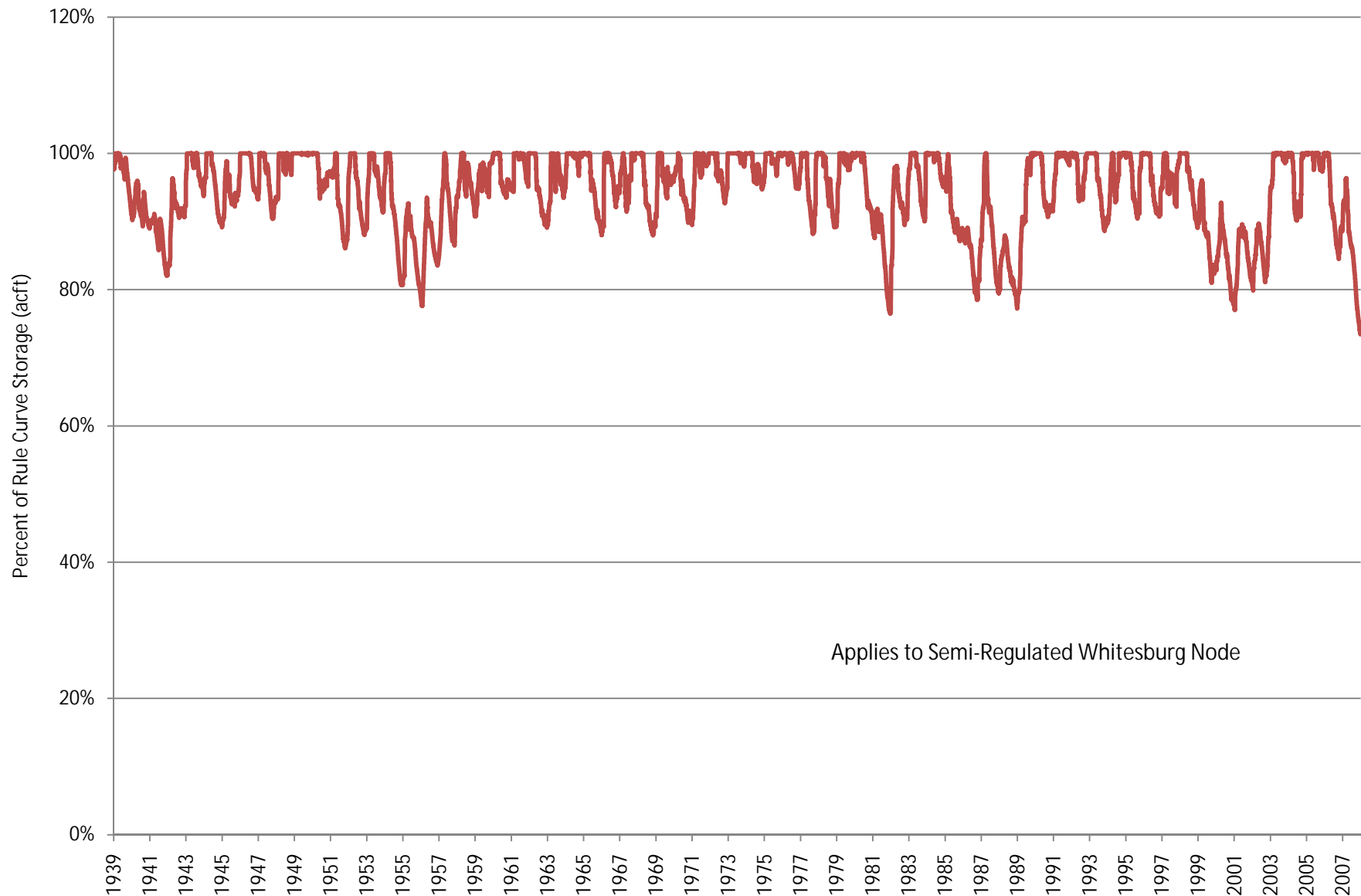


Figure A-1-2 Percent of Total Storage at Buford Relative to Rule Curve
(Chart Type 7)



Applies to Semi-Regulated Whitesburg Node

Figure A-1-3 Frequency of Exceedence of Percent Total Storage at Buford Relative to Rule Curve
(Chart Type 8)

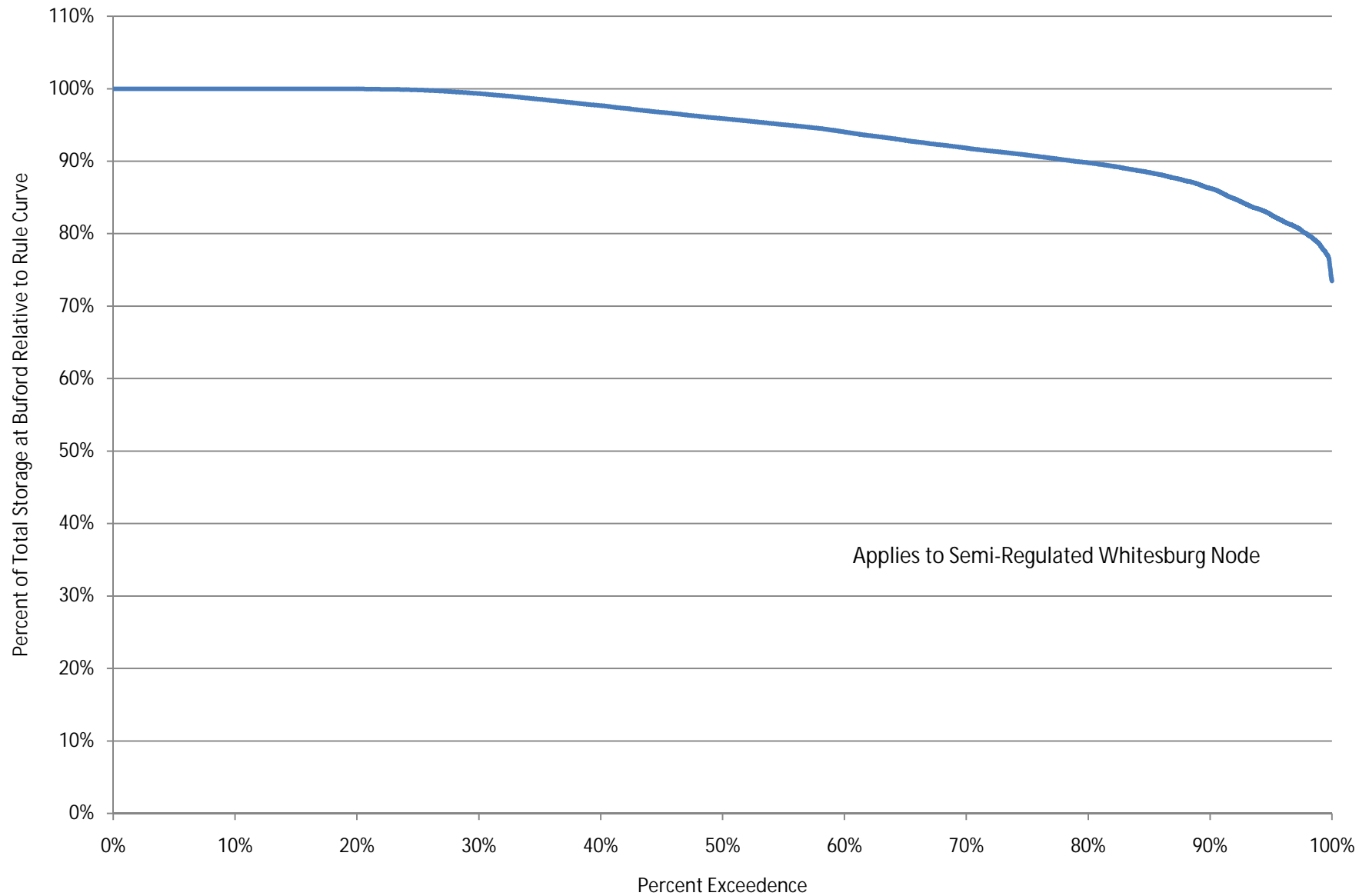


Figure A-2-1 Total Storage at West Point
(Chart Type 6)

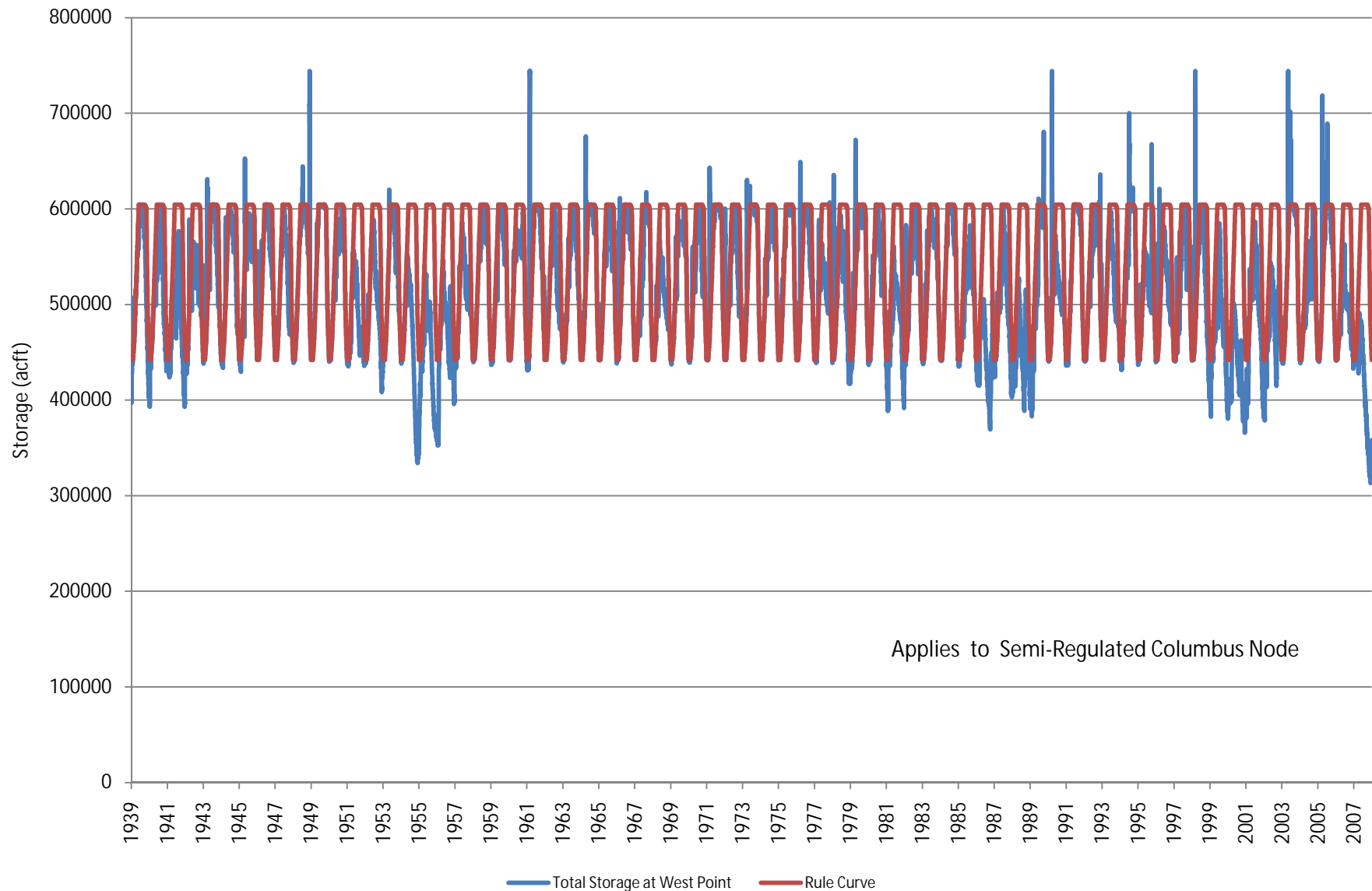
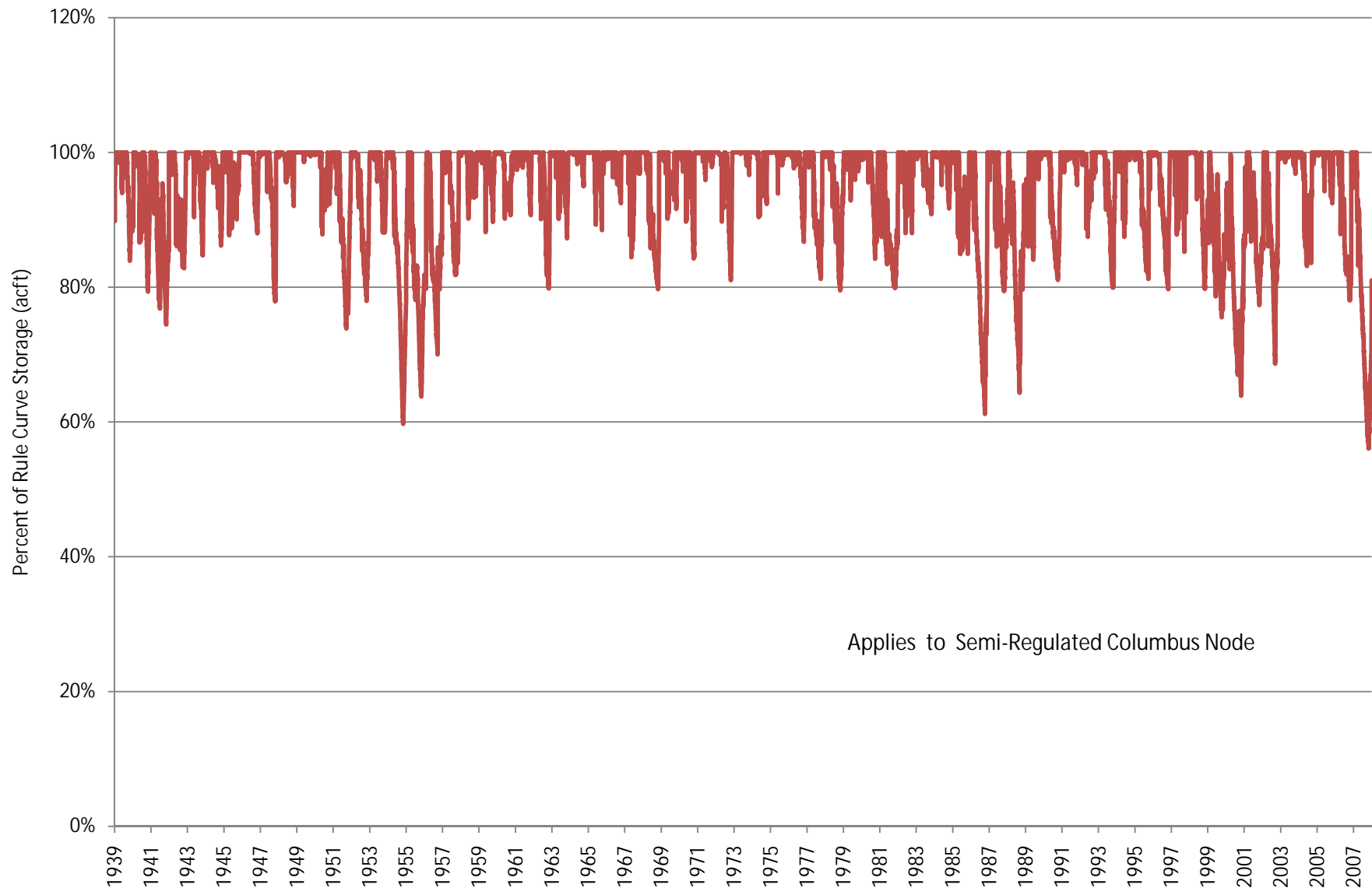


Figure A-2-2 Percent of Total Storage at West Point Relative to Rule Curve (Chart Type 7)



Applies to Semi-Regulated Columbus Node

Figure A-2-3 Frequency of Exceedence of Percent Total Storage at West Point Relative to Rule Curve
(Chart Type 8)

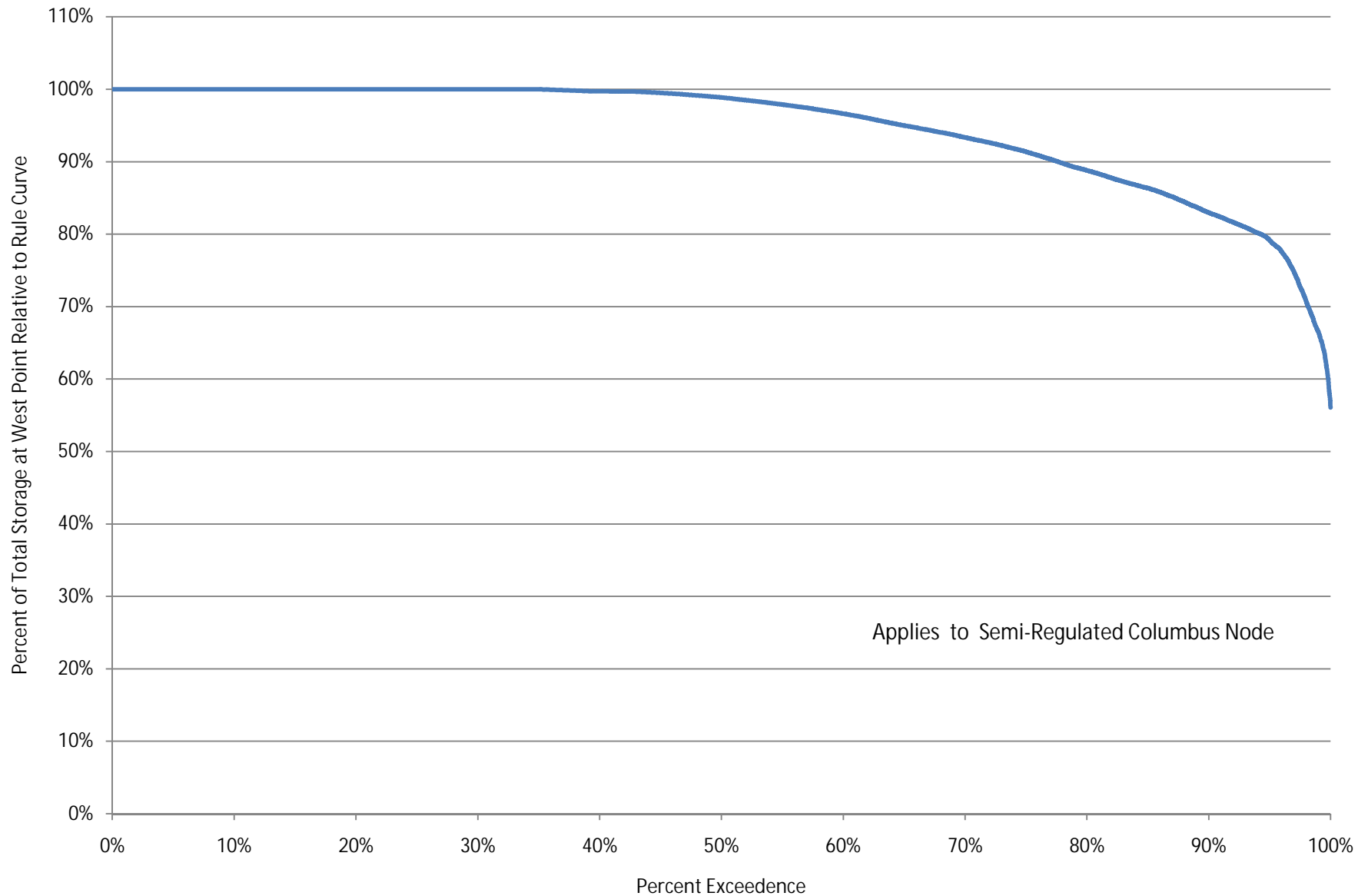


Figure A-3-1 Total Storage at Walter F. George
(Chart Type 6)

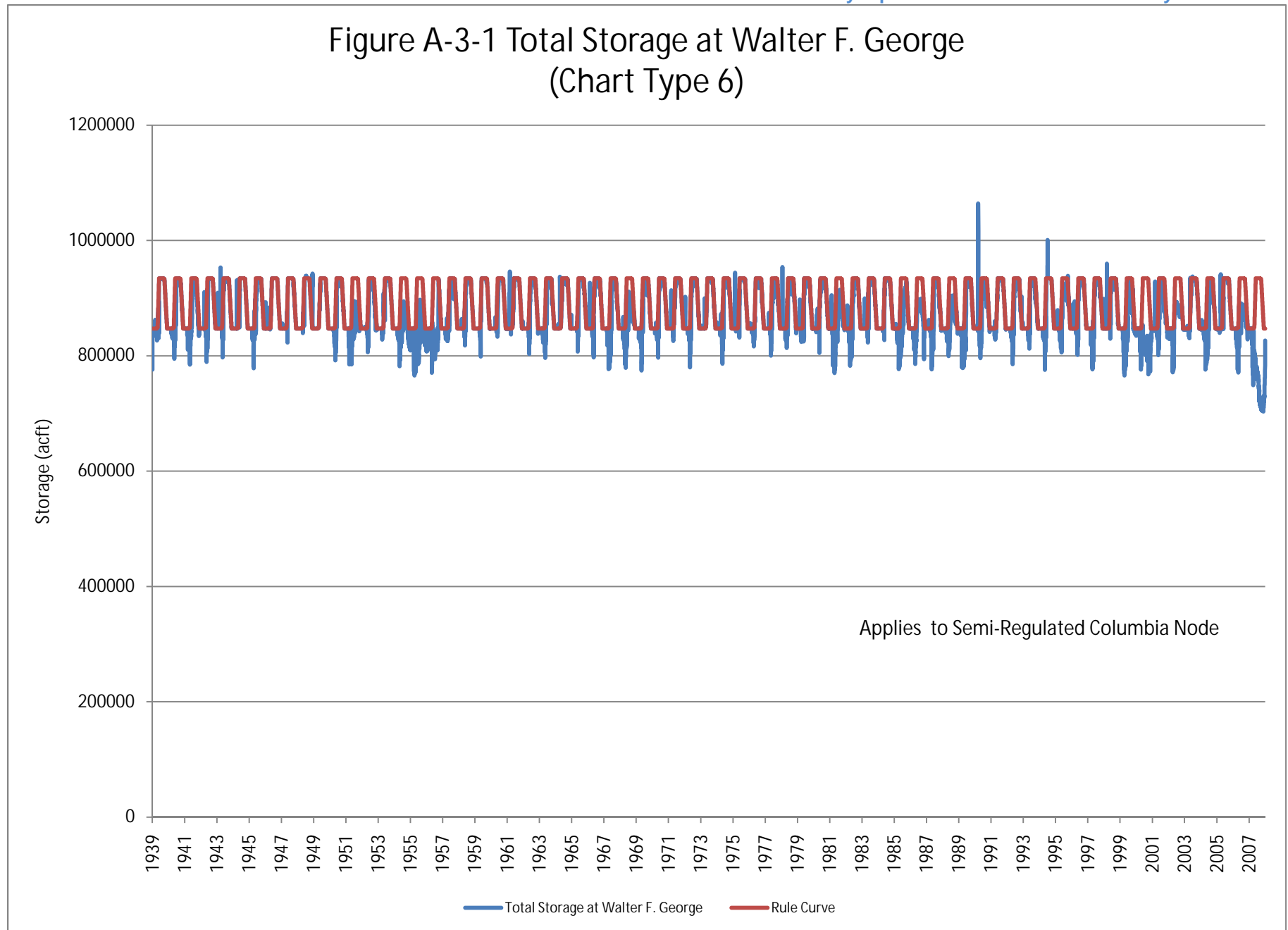


Figure A-3-2 Percent of Total Storage at Walter F. George Relative to Rule Curve
(Chart Type 7)

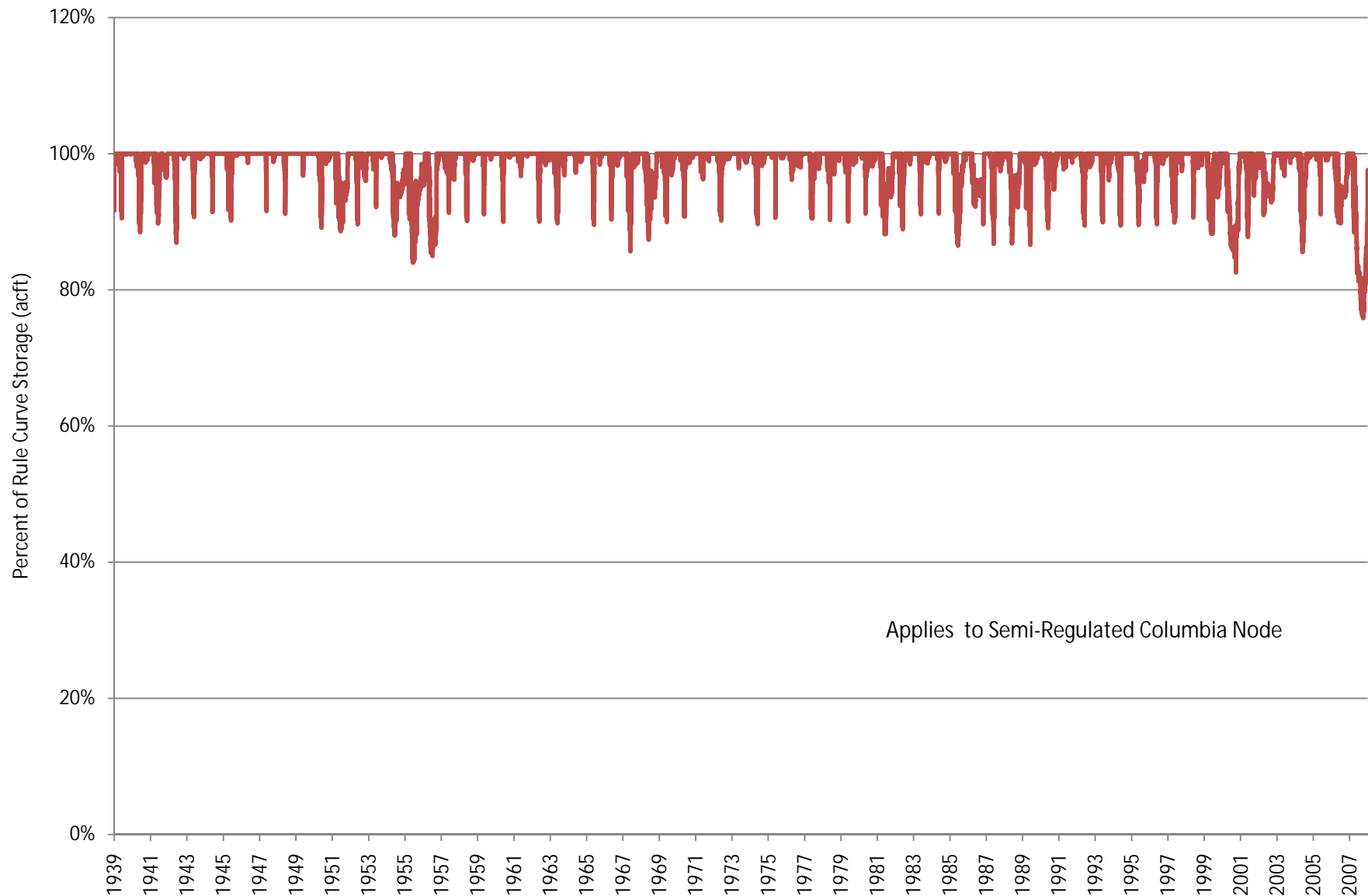


Figure A-3-3 Frequency of Exceedence of Percent Total Storage at Walter F. George Relative to Rule Curve
(Chart Type 8)

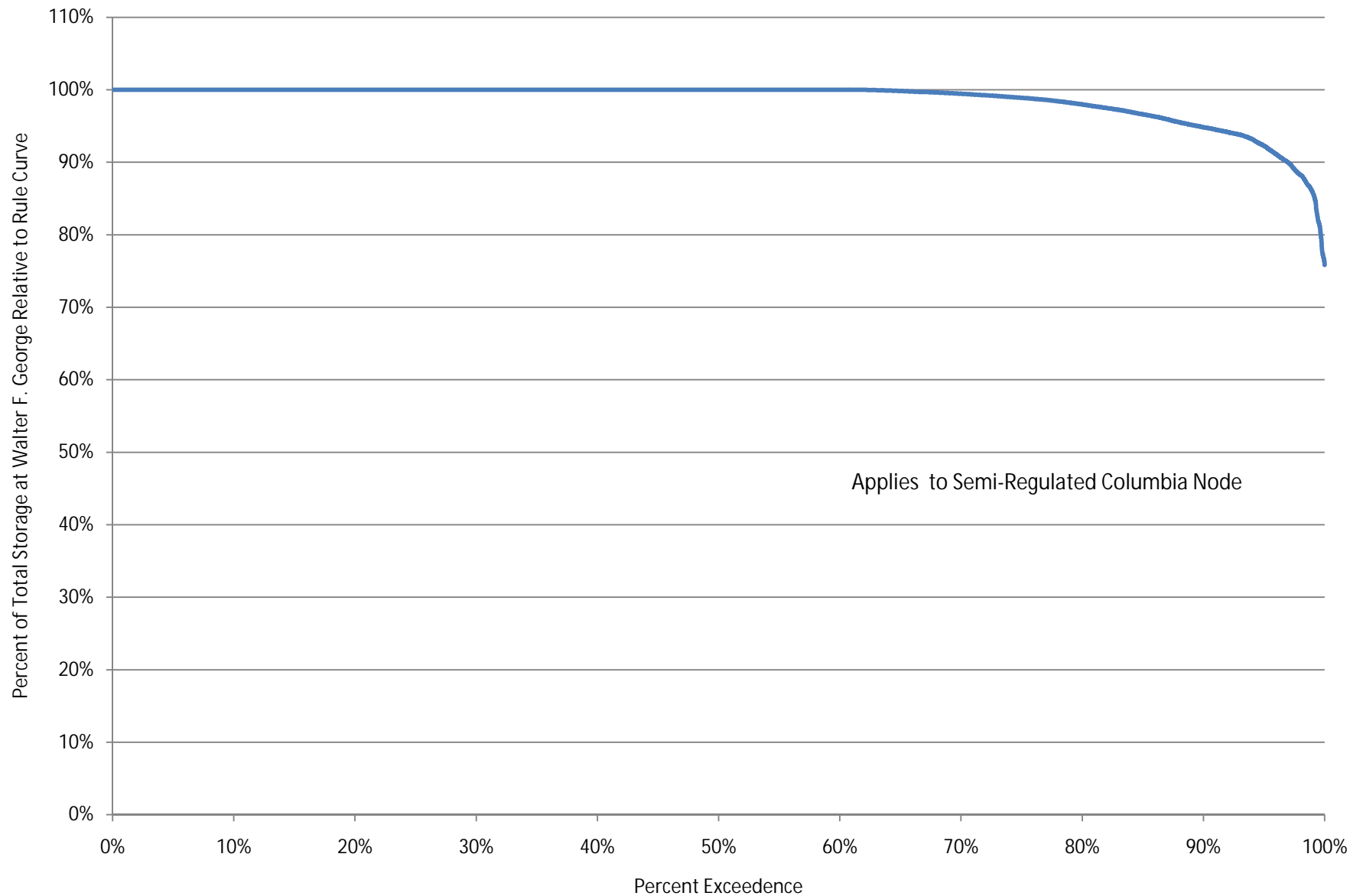


Figure A-4-1 Average Percentage of Flow Compared to Flow Regime at Montezuma (Chart Type 1)

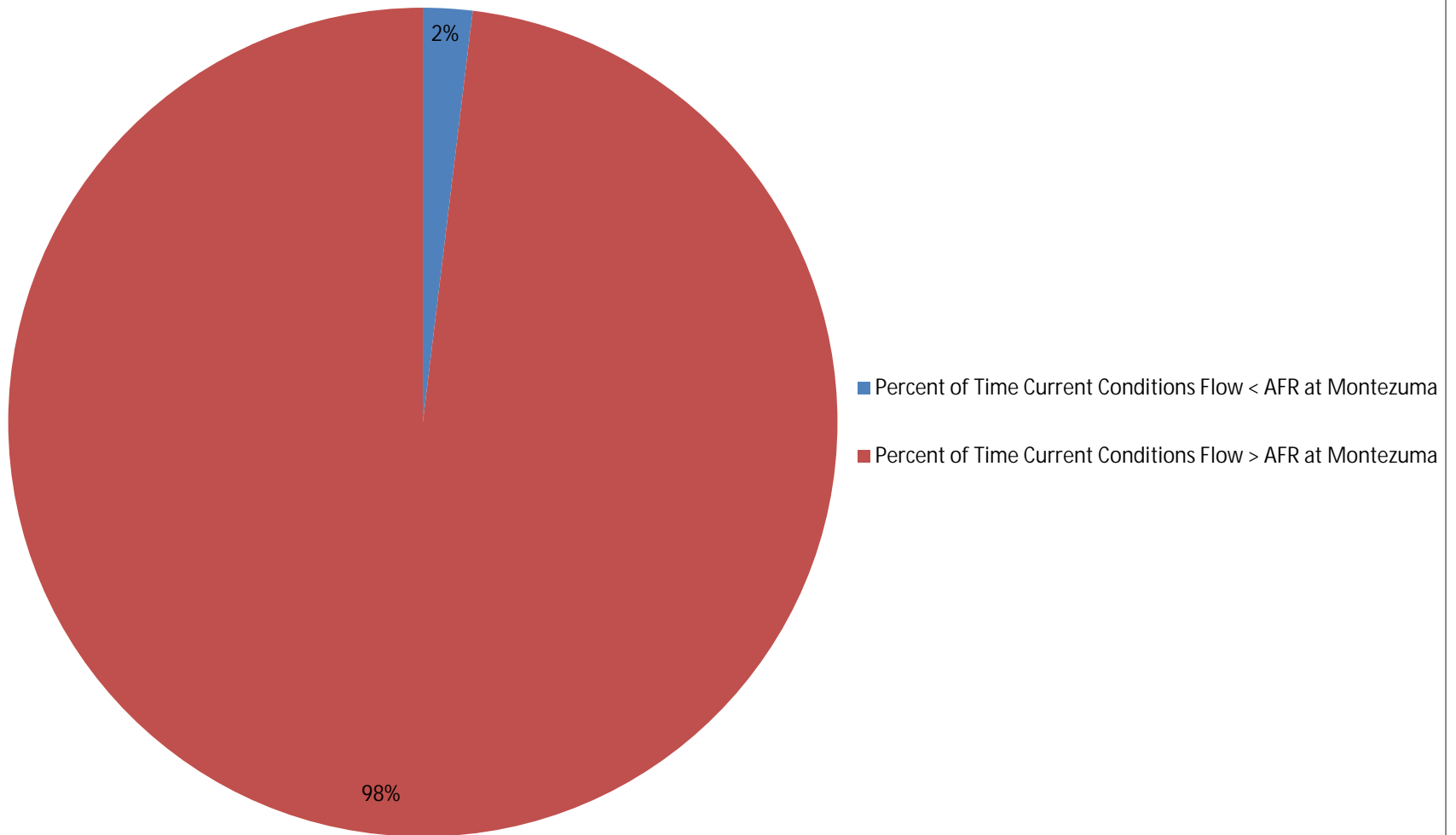


Figure A-4-2 Current Conditions Flows Less Than Adjusted Flow Regime
at Montezuma (Chart Type 2)

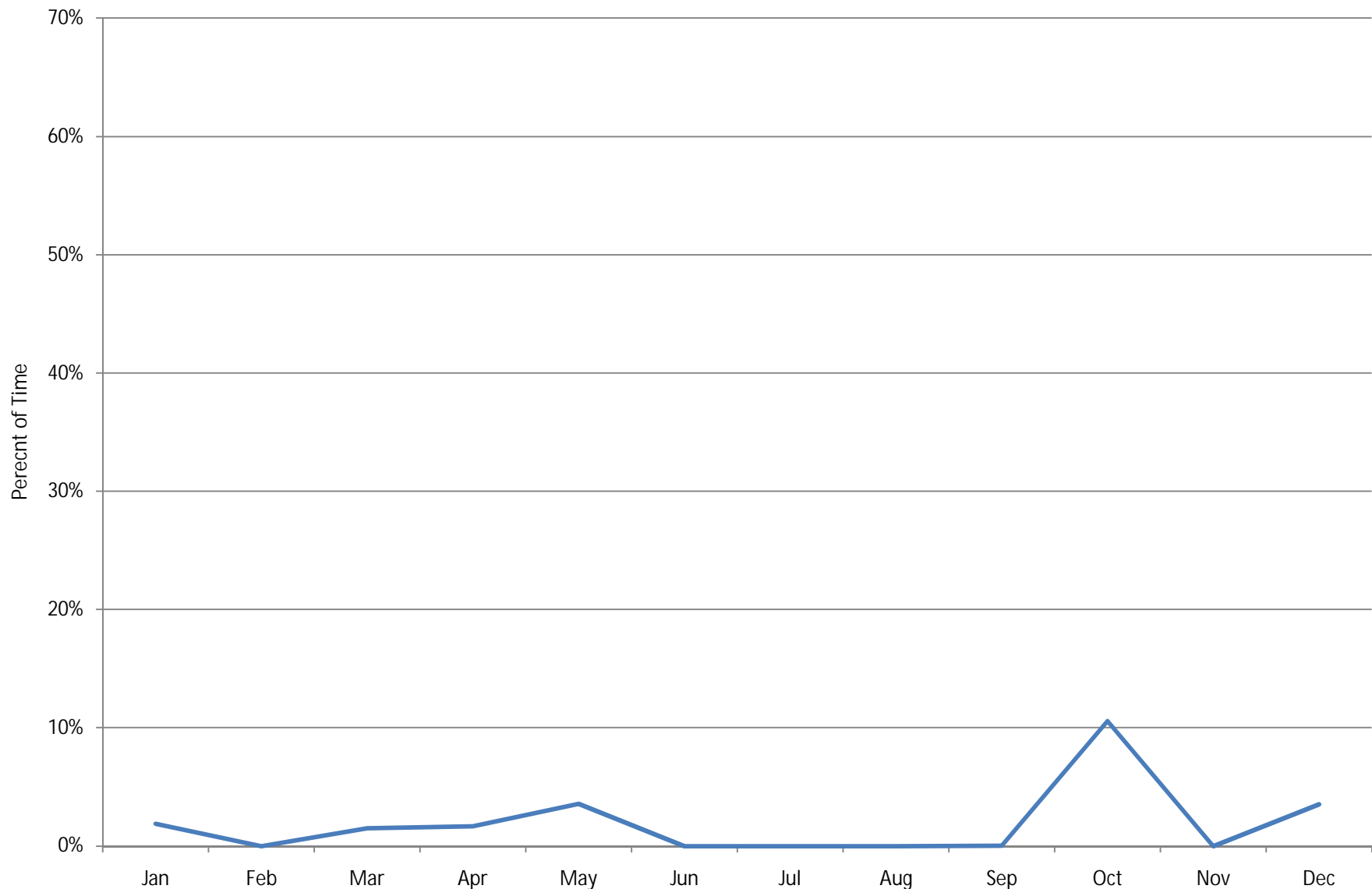


Figure A-4-3 Range of Deficit of Flow Regime at Montezuma (Chart Type 3)

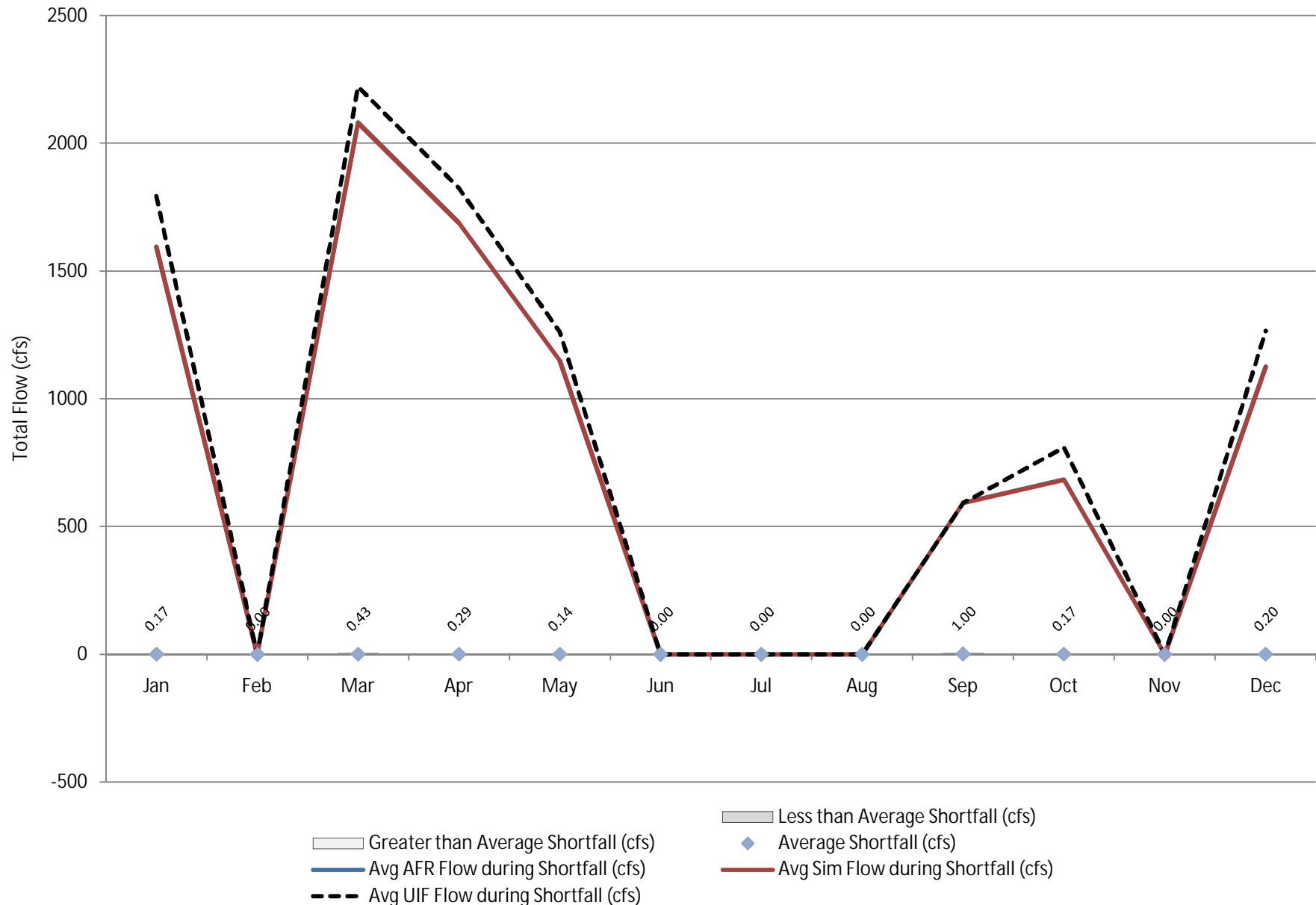


Figure A-4-4 Unimpaired Monthly Range of Flow at Montezuma (Chart Type 4)

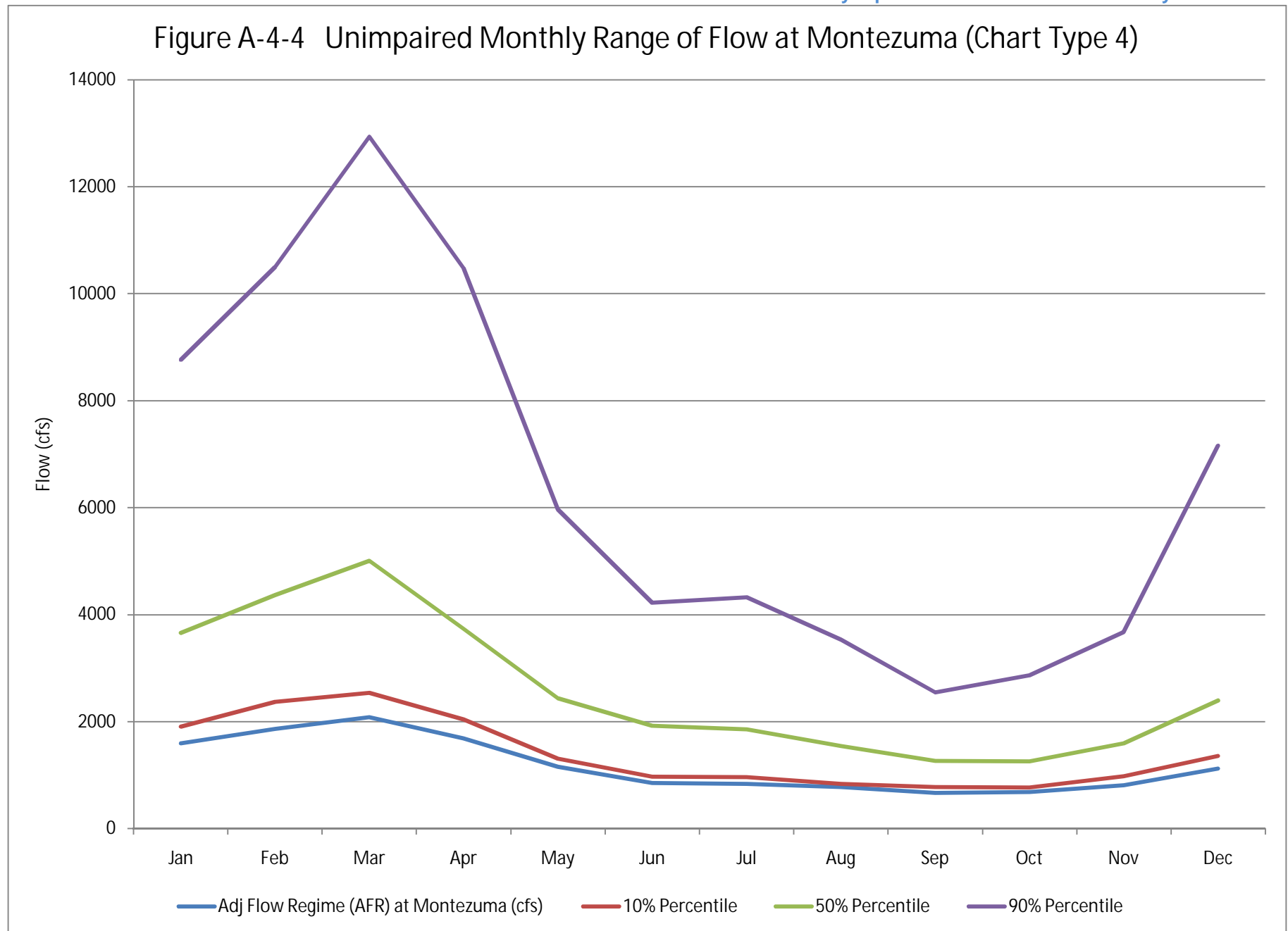


Figure A-4-5 Simulated Monthly Range of Flow at Montezuma (Chart Type 5)

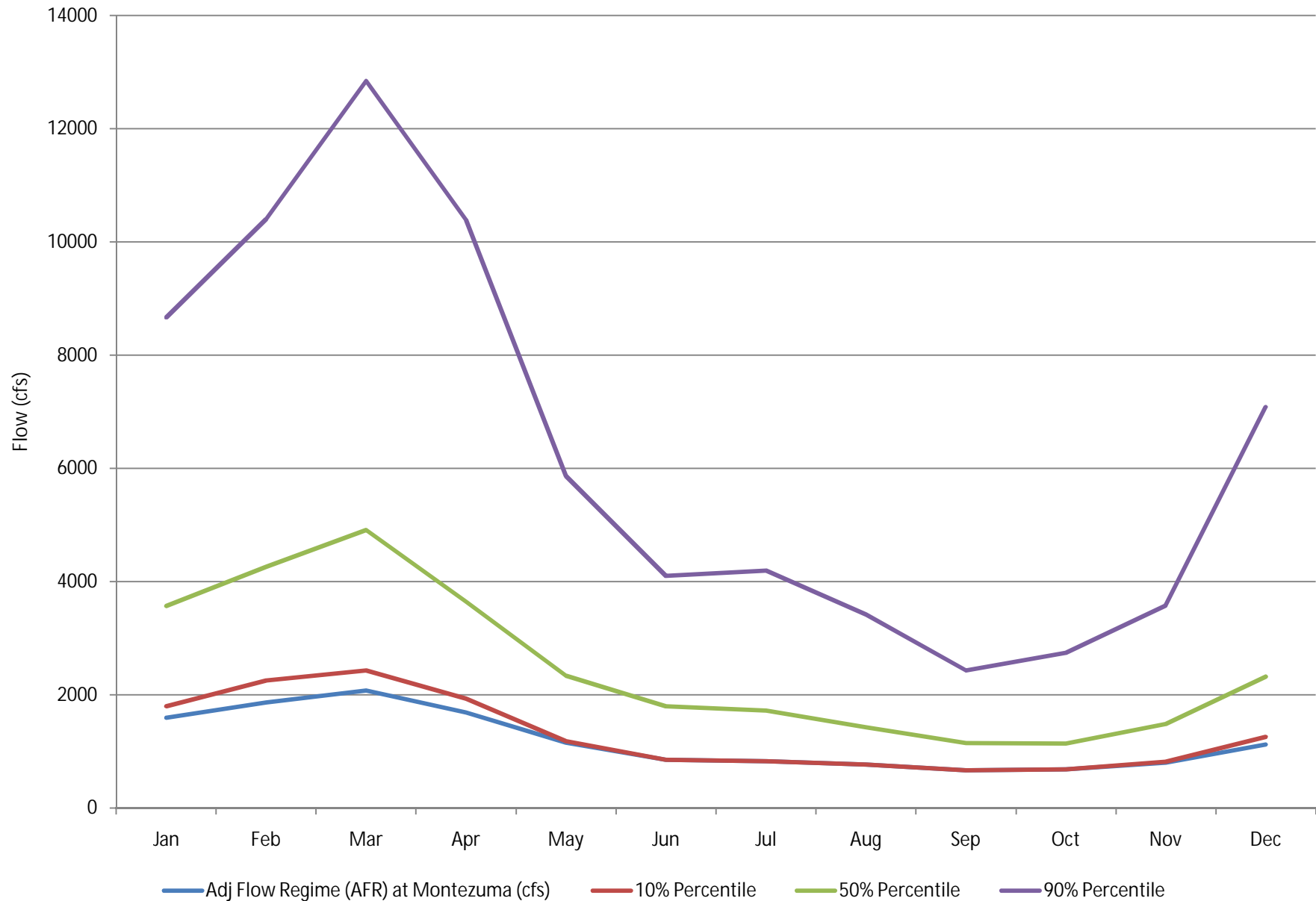


Figure A-5-1 Average Percentage of Flow Compared to Flow Regime at Bainbridge (Chart Type 1)

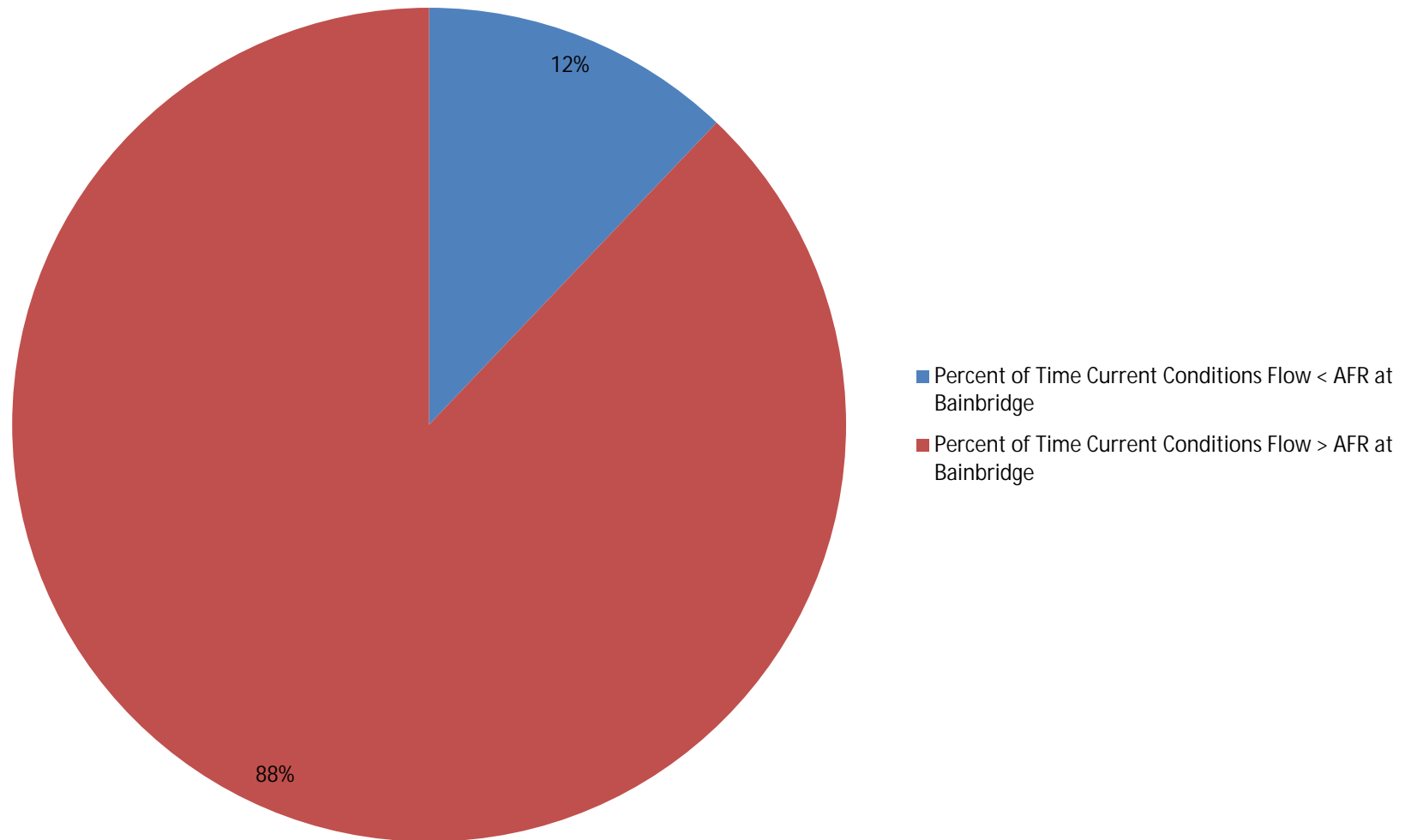


Figure A-5-2 Current Conditions Flows Less Than Adjusted Flow Regime
at Bainbridge (Chart Type 2)

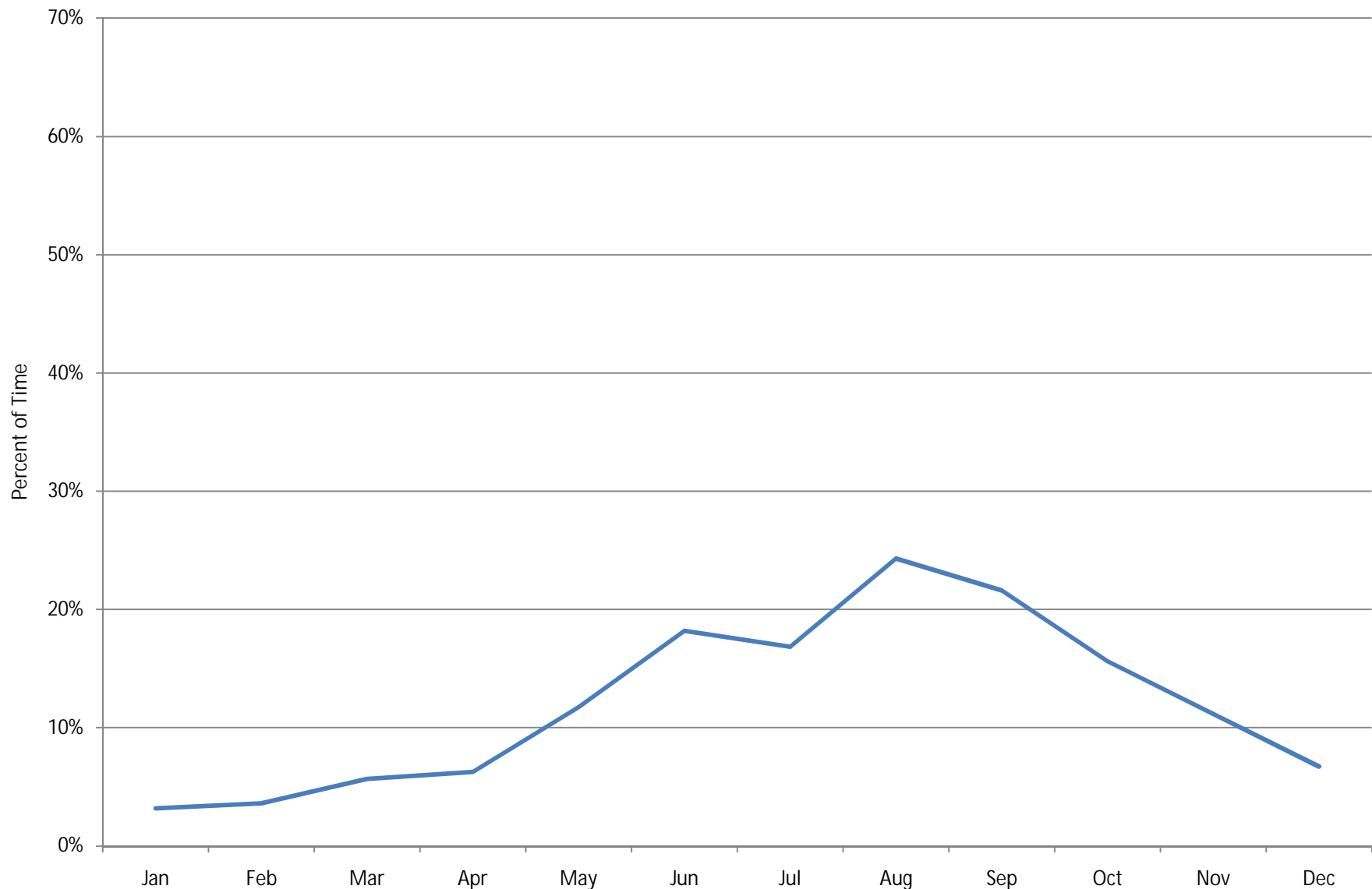


Figure A-5-3 Range of Deficit of Flow Regime at Bainbridge (Chart Type 3)

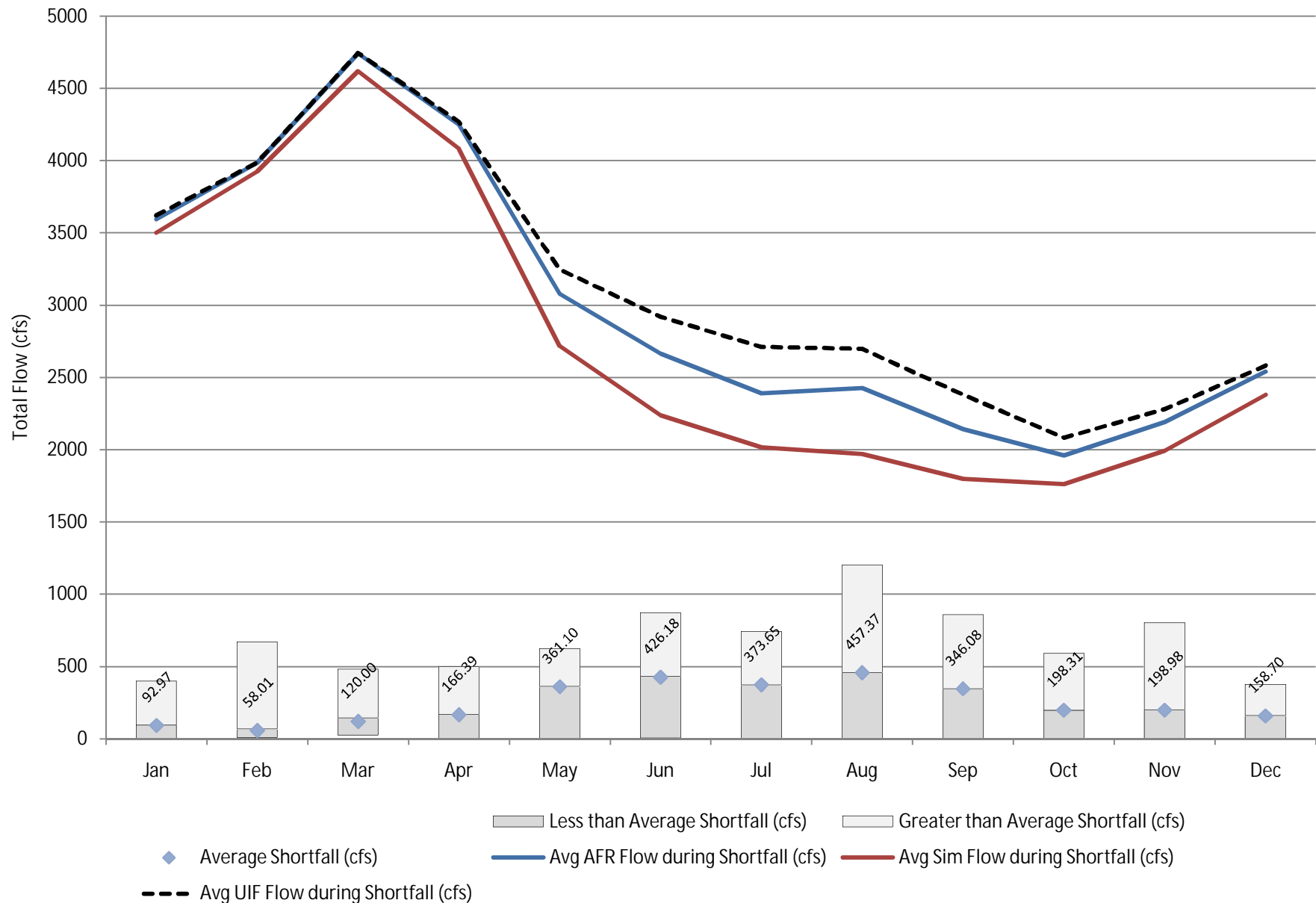


Figure A-5-4 Unimpaired Monthly Range of Flow at Bainbridge (Chart Type 4)

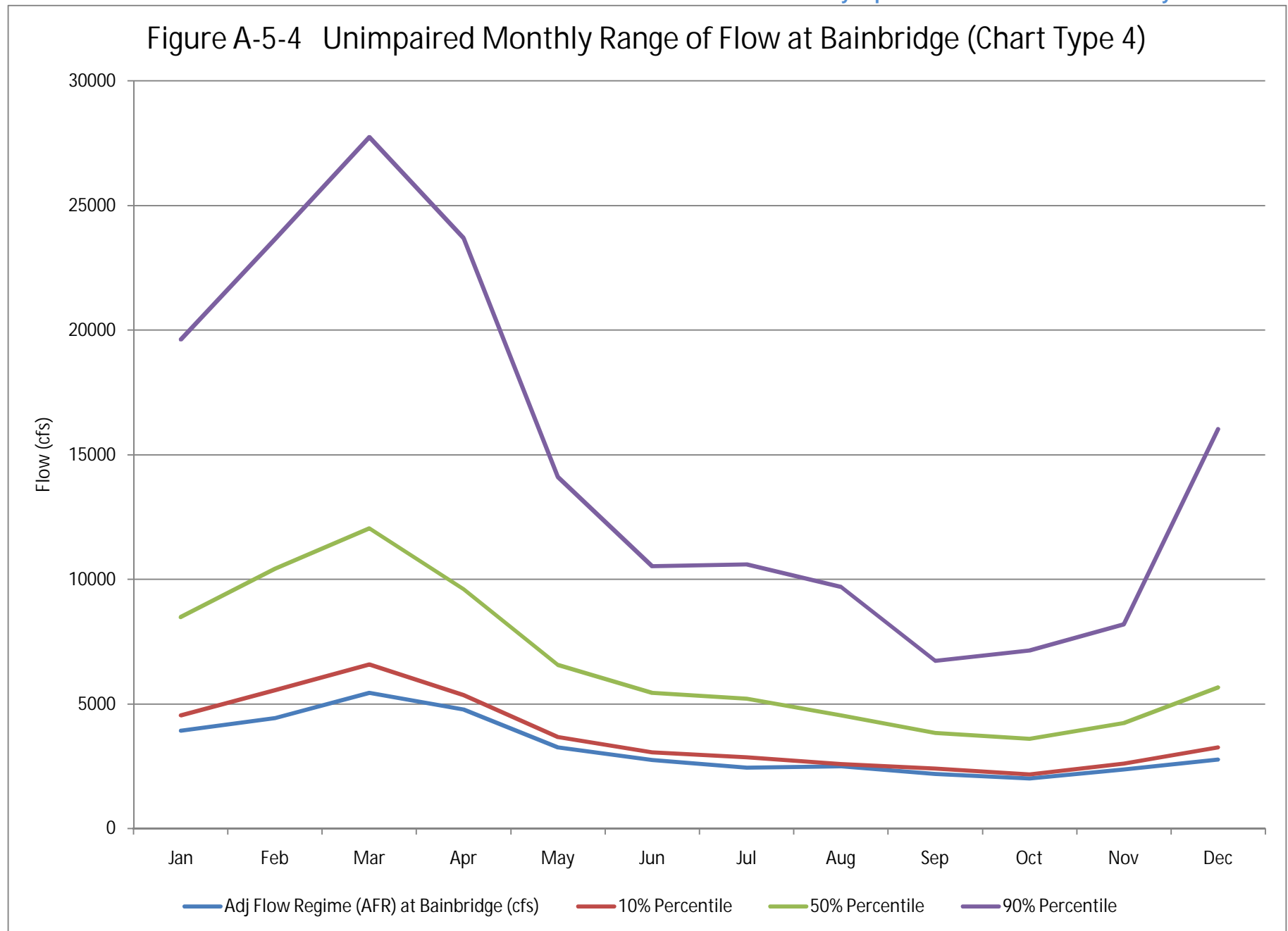
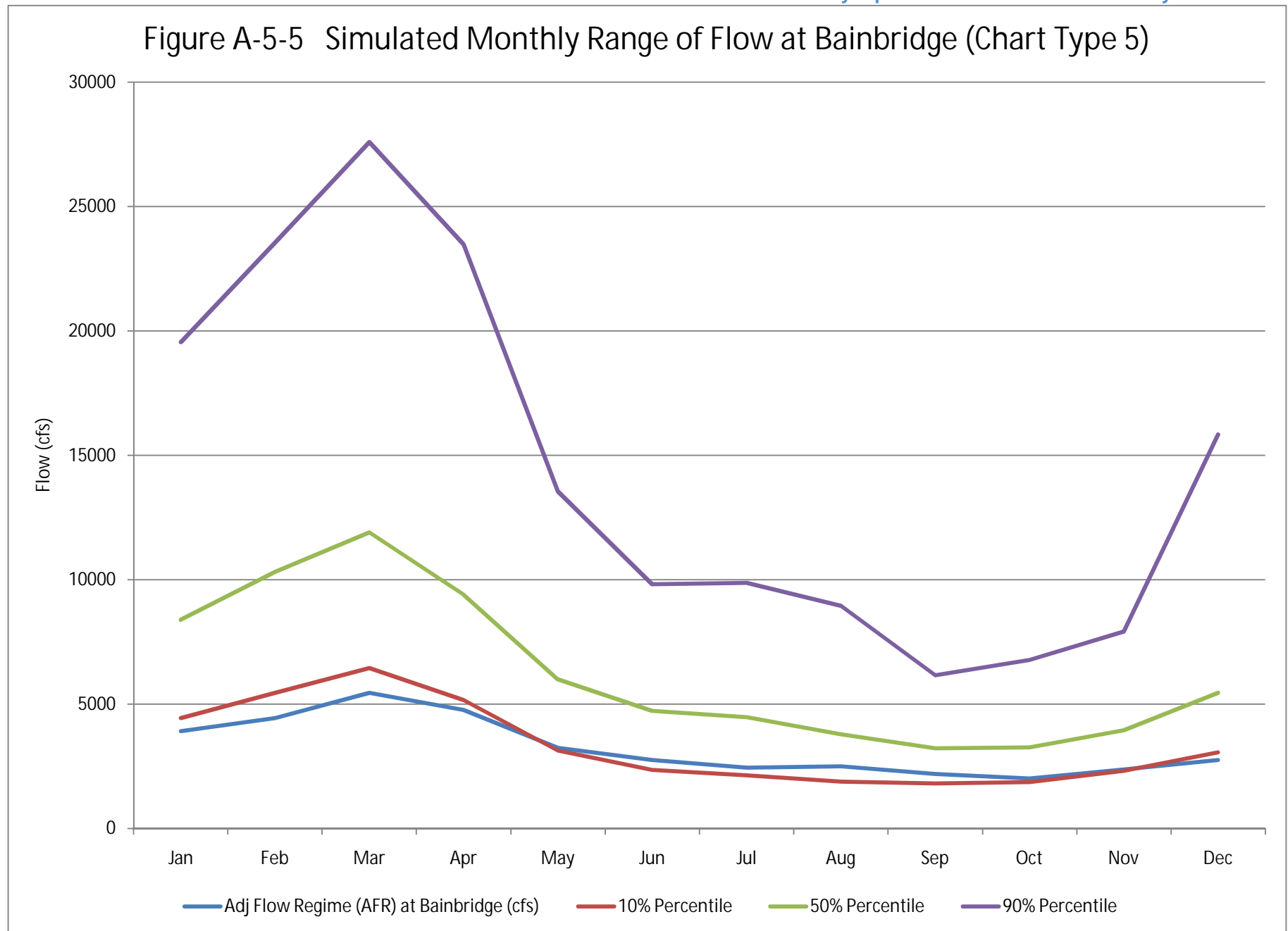


Figure A-5-5 Simulated Monthly Range of Flow at Bainbridge (Chart Type 5)



Synopsis of Surface Water Availability Assessment

Appendix B

Alabama-Coosa-Tallapoosa

Charts depicting flows and shortages relative to flow regime by planning node for current conditions model.

1. Gaylesville
2. Kingston
3. Rome (Coosa)
4. Heflin
5. Newell

Synopsis of Surface Water Availability Assessment

Chart type 1 is a pie chart that shows the percentage of daily flows above and below the adjusted flow regime. The percentage of time above the adjusted flow regime is an indication of how often the flow regime can be met and withdrawals can be made.

Chart type 2 shows the percentage of time that flows are below the adjusted flow regime for each month of the year, indicating months in which water availability is most constrained. The higher the percentage, the more often there are shortfalls, hence more water availability constraints.

Chart type 3 shows certain monthly statistics during periods of shortfalls. Namely, average simulated river flows, average adjusted flow regime flows, and average unimpaired flows are shown by line plots. In addition, each month's average shortfall and the range between the largest and smallest shortfall are shown by bar plots. This chart shows the magnitude of a shortfall for a given month relative to the typical flows available during the month only on the days shortfalls occur. Flows for days without shortfalls are not included in generating these statistics.

Chart type 4 shows plots of monthly values of the adjusted flow regime and the 10-percentile (the lowest 10 percent of unimpaired flows), the 50-percentile (mid-range flows), and 90-percentile (all but the top 10 percent) flows. This range of percentiles covers dry, median, and wet conditions, respectively. The chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream if there were no effects of human development.

Chart type 5 shows plots of monthly values of the adjusted flow regime and the lowest 10 percent of simulated flows, i.e., 10-percentile flows, 50-percentile flows, and 90-percentile flows. This chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream under current condition assumptions.

Chart type 6 shows the daily storage and seasonal top of conservation curve for a given reservoir over the period of record. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 7 shows the percentage of storage remaining relative to the seasonal top of conservation pool for a given reservoir over the period of record. The reservoir is 100 percent full when the level is at or above the rule curve. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 8 shows the percentage of time that the remaining storage of a given reservoir is above a given percentage relative to the rule curve. The reservoir is 100 percent full when the level is at or above the rule curve. Storage remaining in the reservoir reflects magnitude and timing of demands.

AFR = Adjusted Flow Regime

Figure B-1-1 Average Percentage of Flow Compared to Flow Regime at Gaylesville (Chart Type 1)

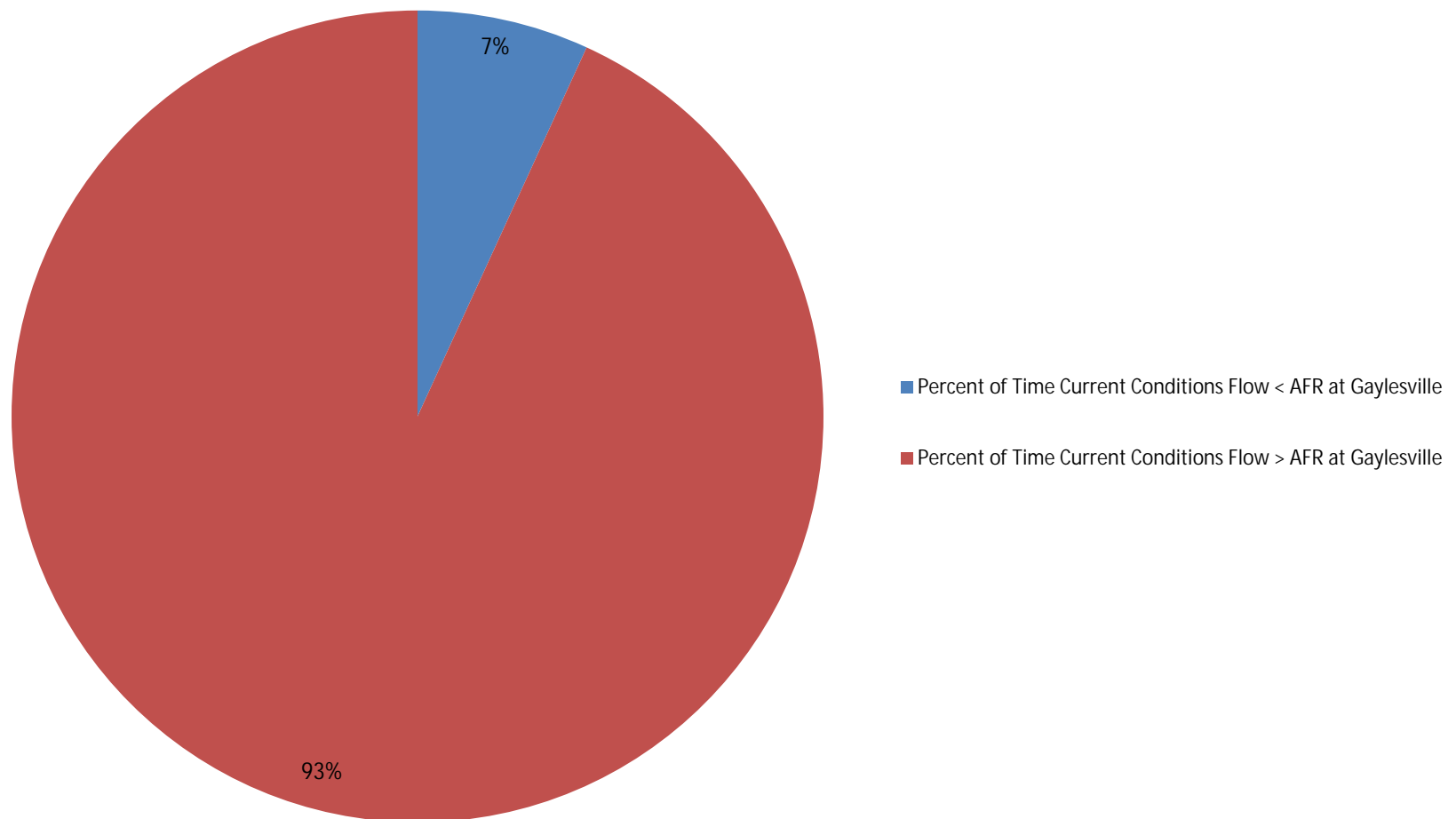


Figure B-1-2 Current Conditions Flow Less Than Adjusted Flow Regime at Gaylesville (Chart Type 2)

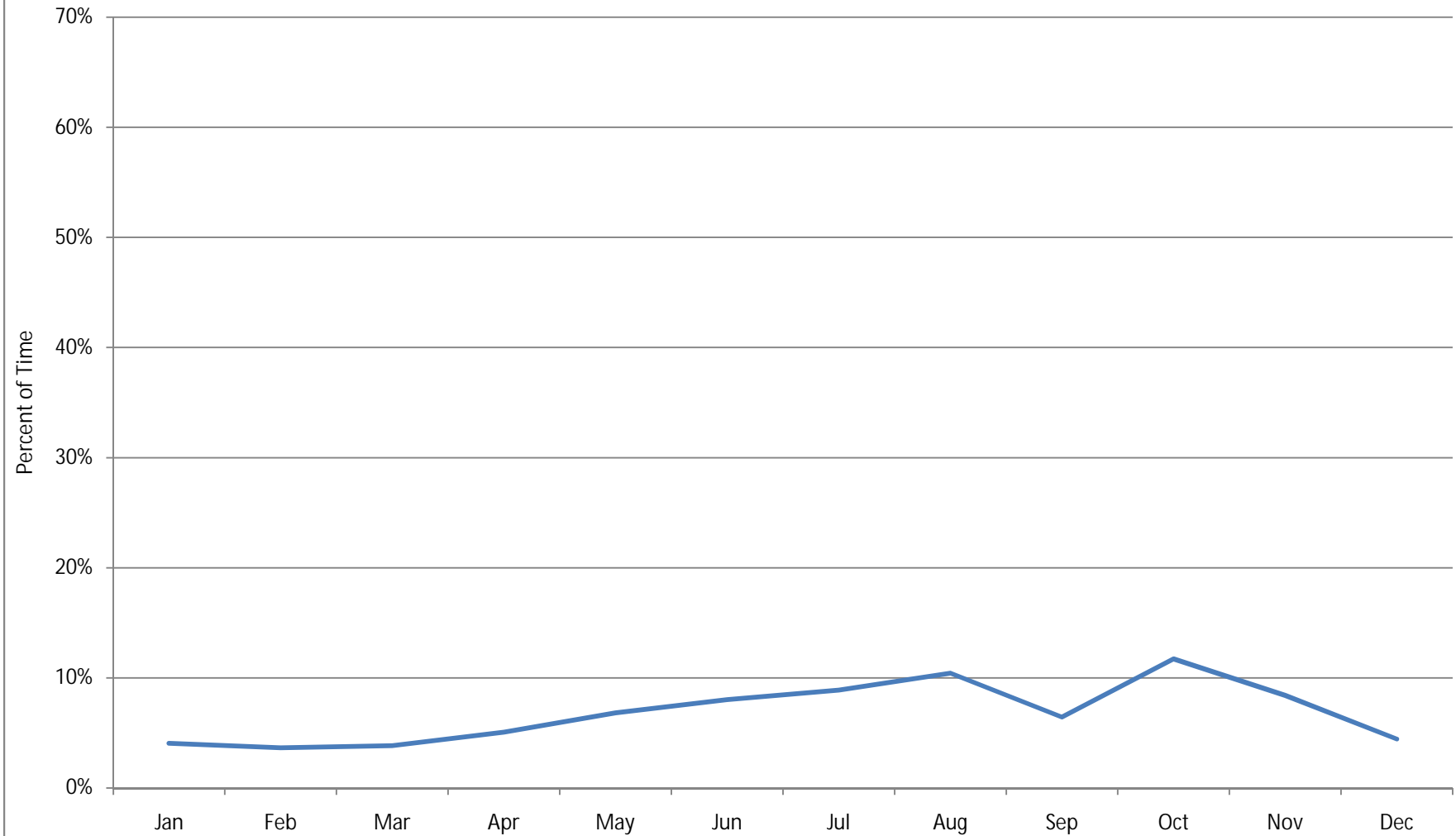


Figure B-1-3 Range of Deficit of Flow Regime at Gaylesville (Chart Type 3)

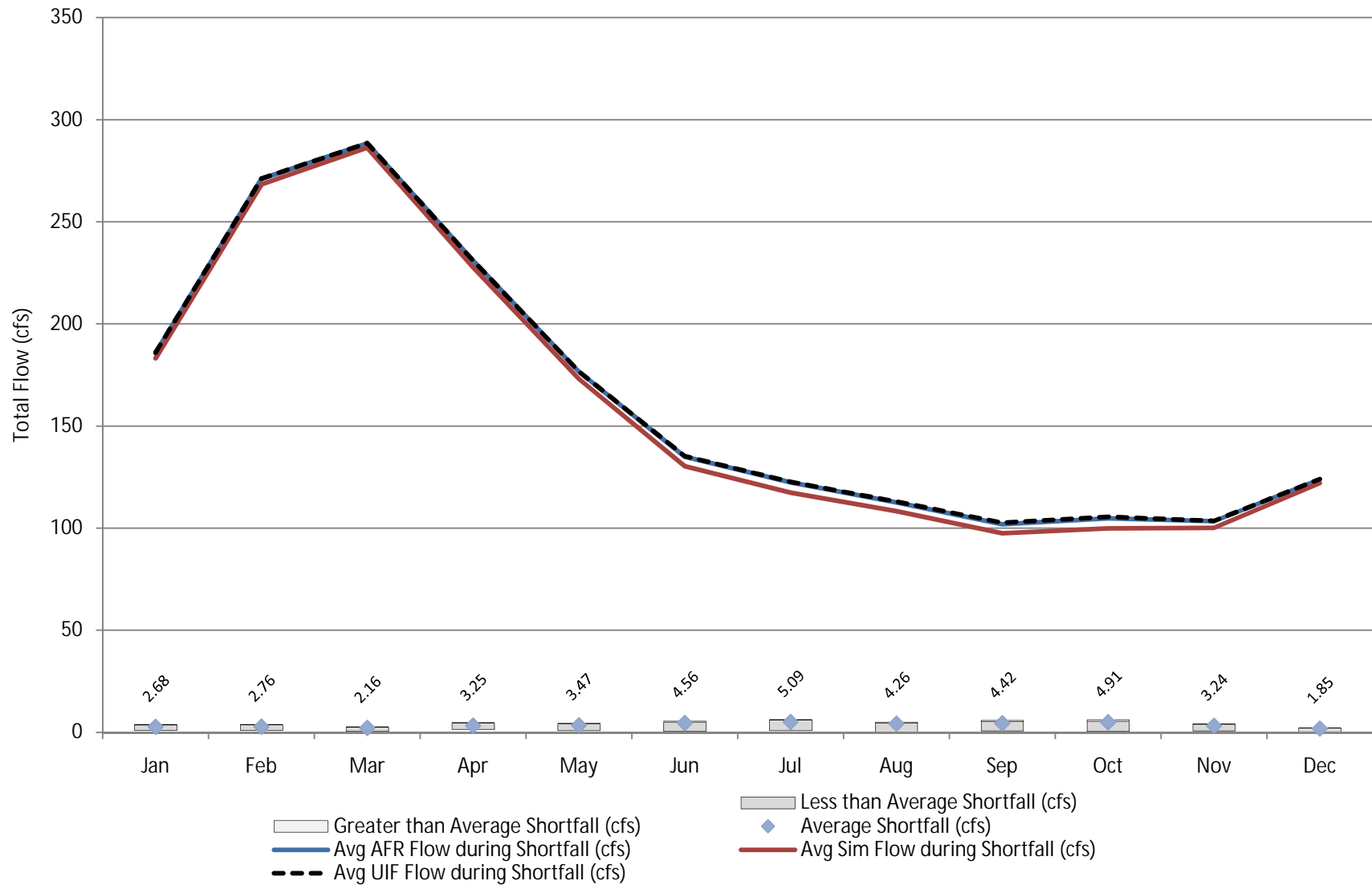


Figure B-1-4 Unimpaired Monthly Range of Flow at Gaylesville (Chart Type 4)

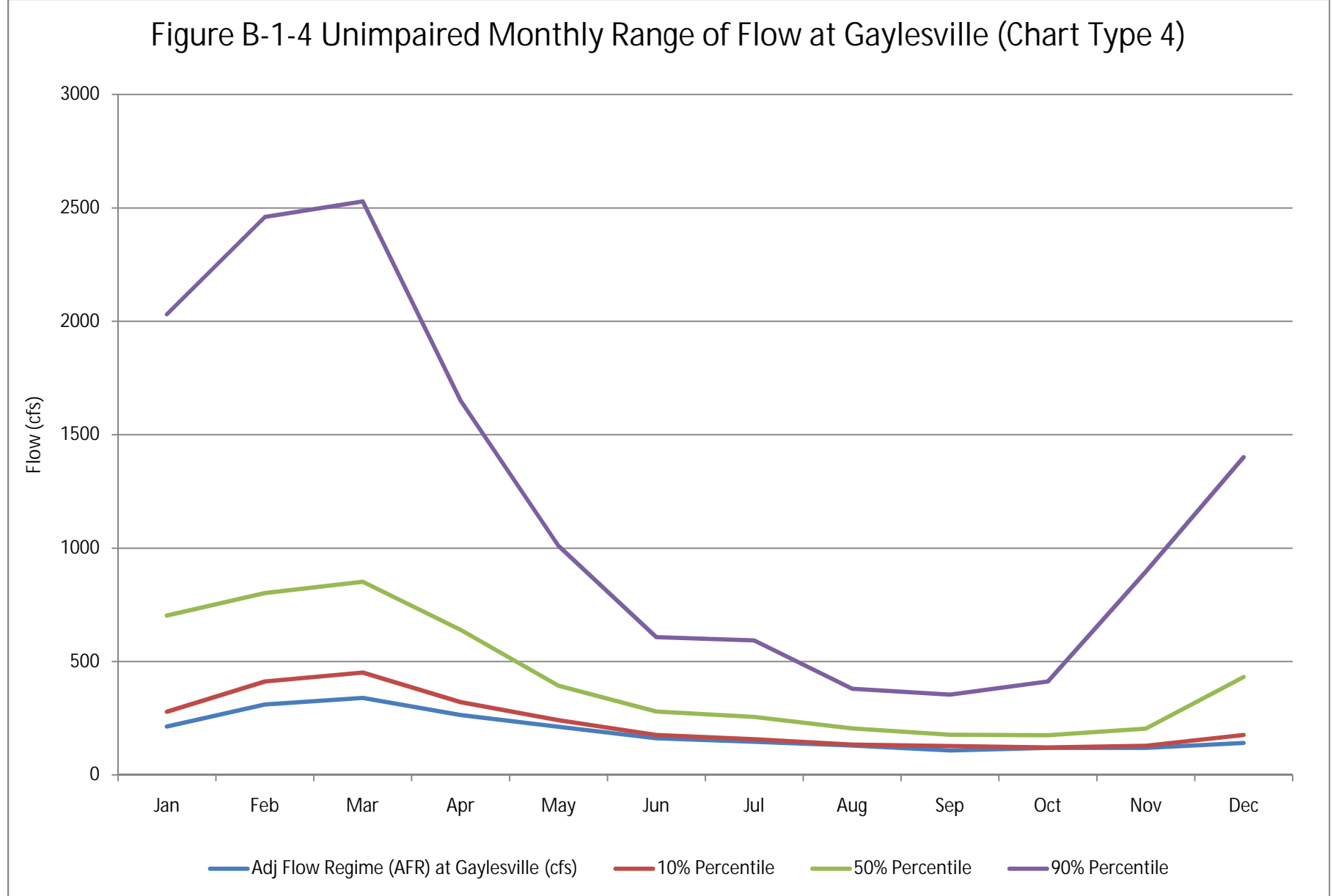


Figure B-1-5 Simulated Monthly Range of Flow at Gaylesville (Chart Type 5)

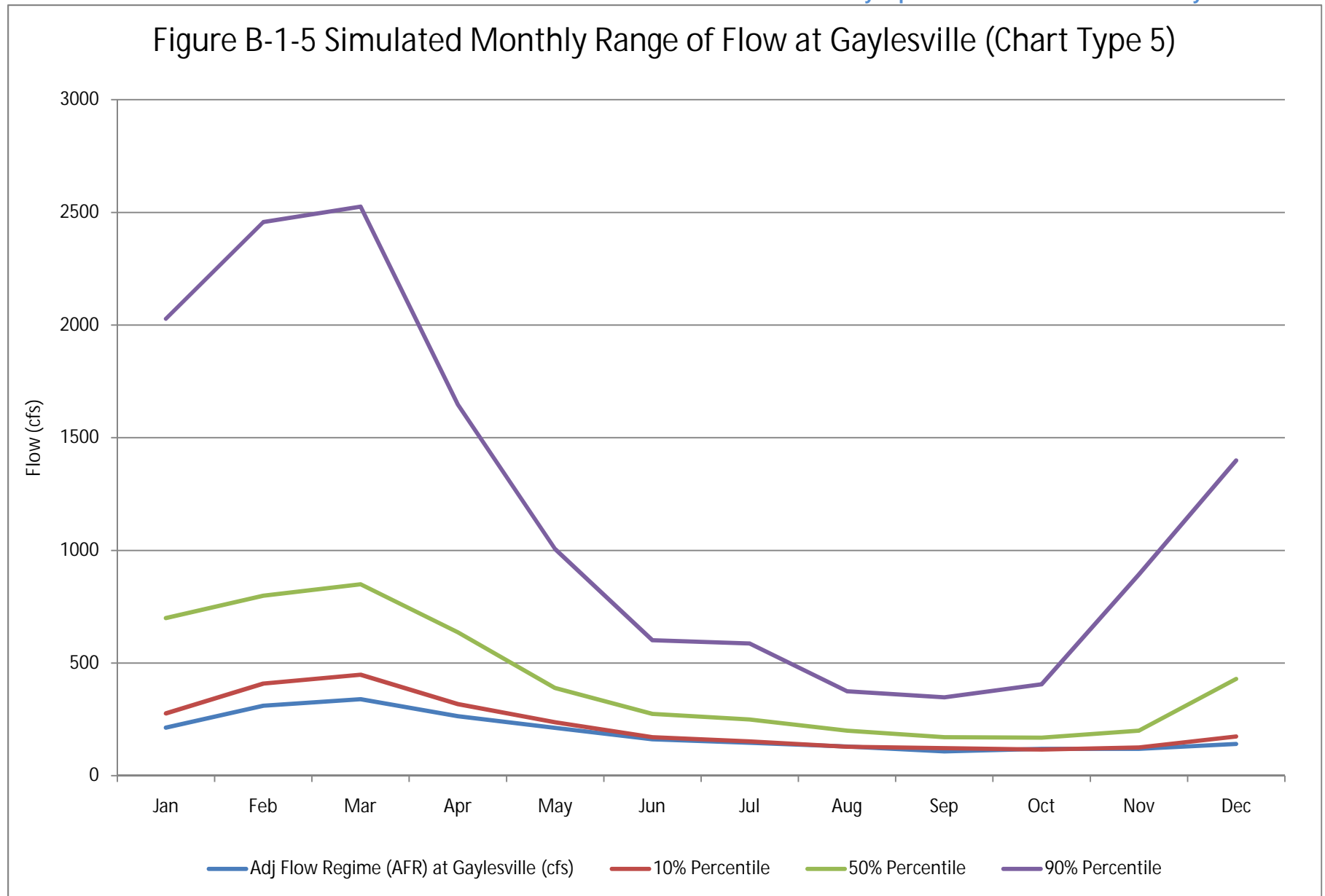


Figure B-2-1 Total Storage at Allatoona
(Chart Type 6)

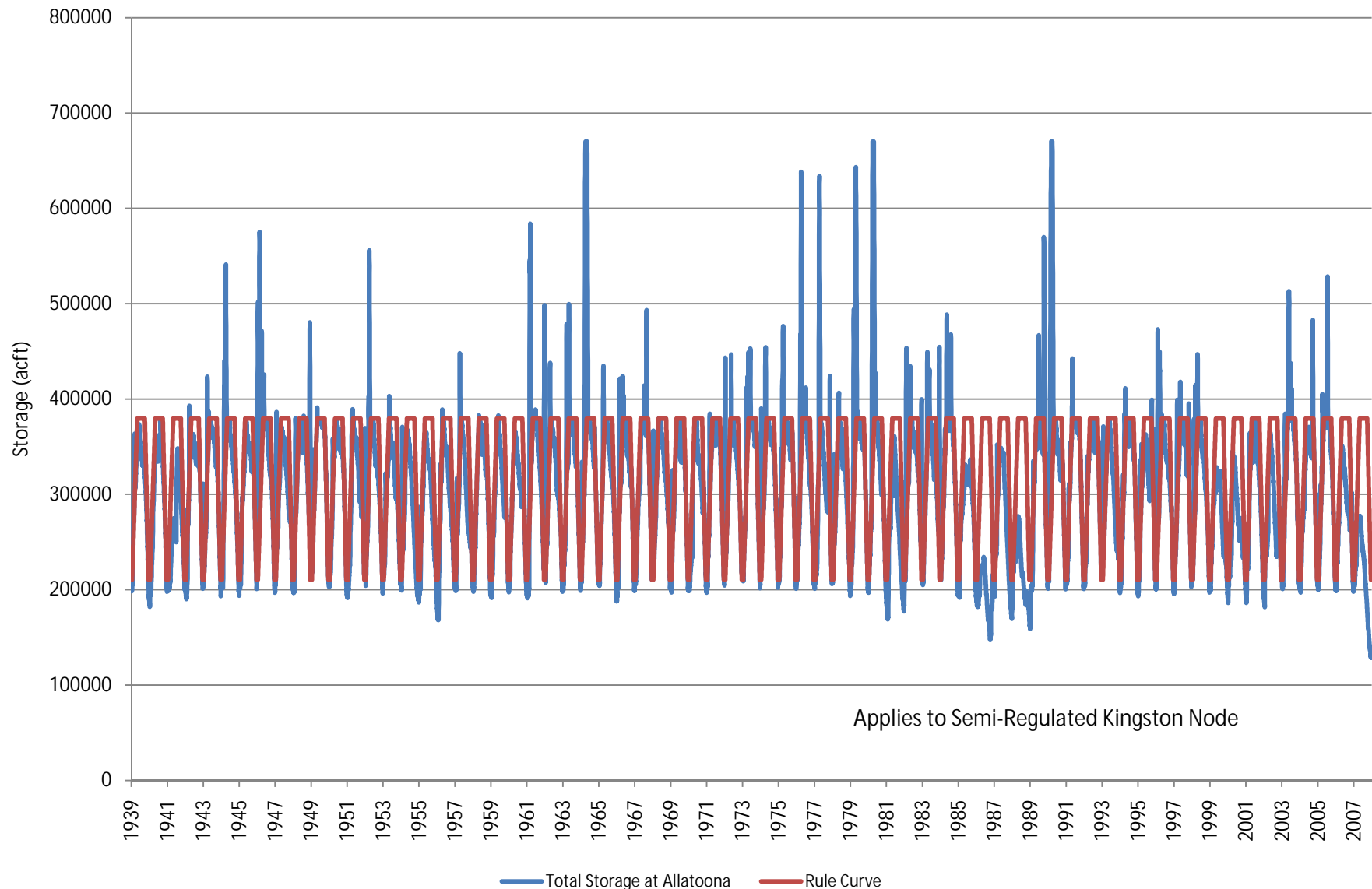


Figure B-2-2 Percent of Total Storage at Allatoona Relative to Rule Curve
(Chart Type 7)

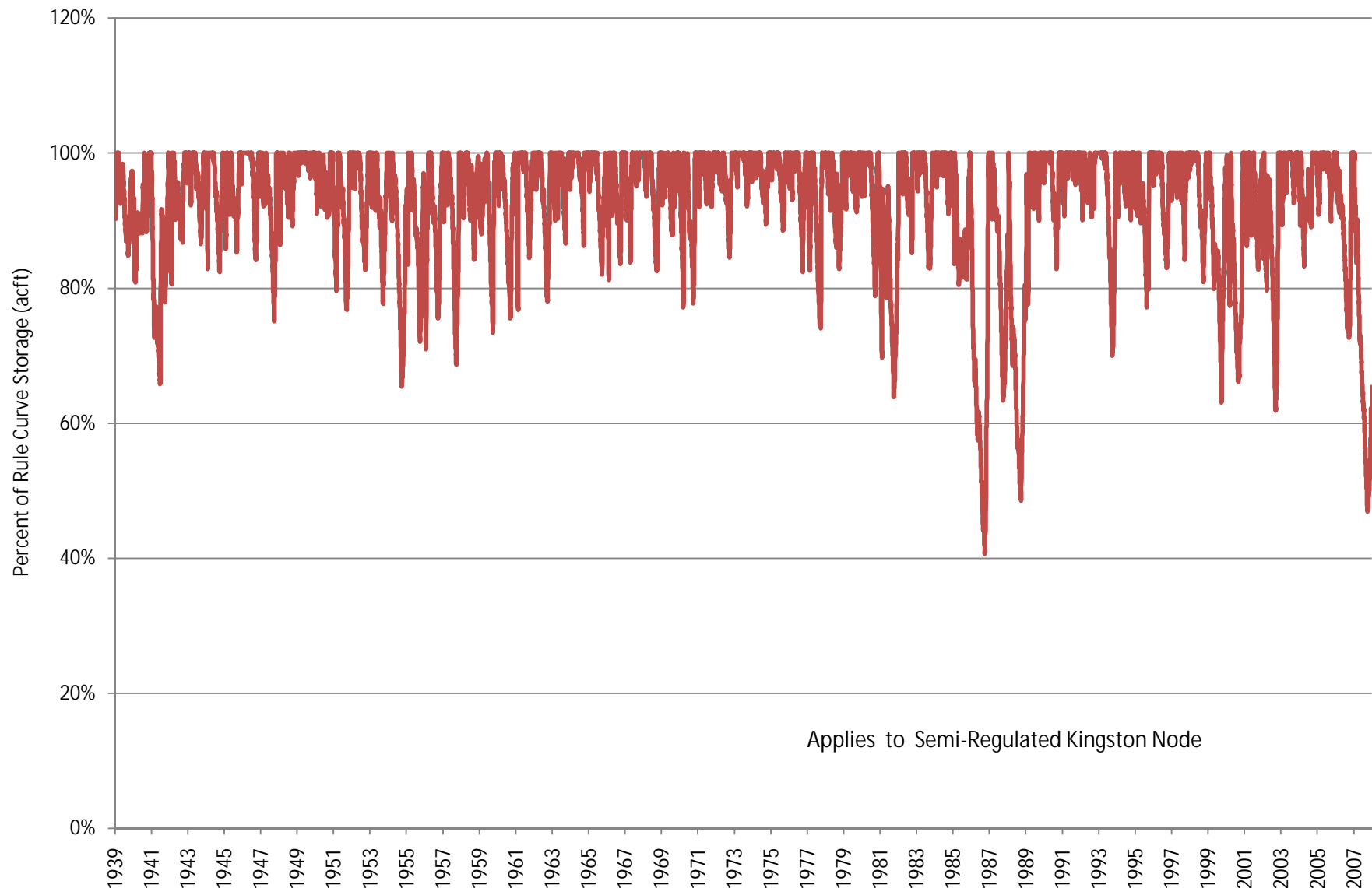


Figure B-2-3 Frequency of Exceedence of Percent Total Storage at Allatoona Relative to Rule Curve
(Chart Type 8)

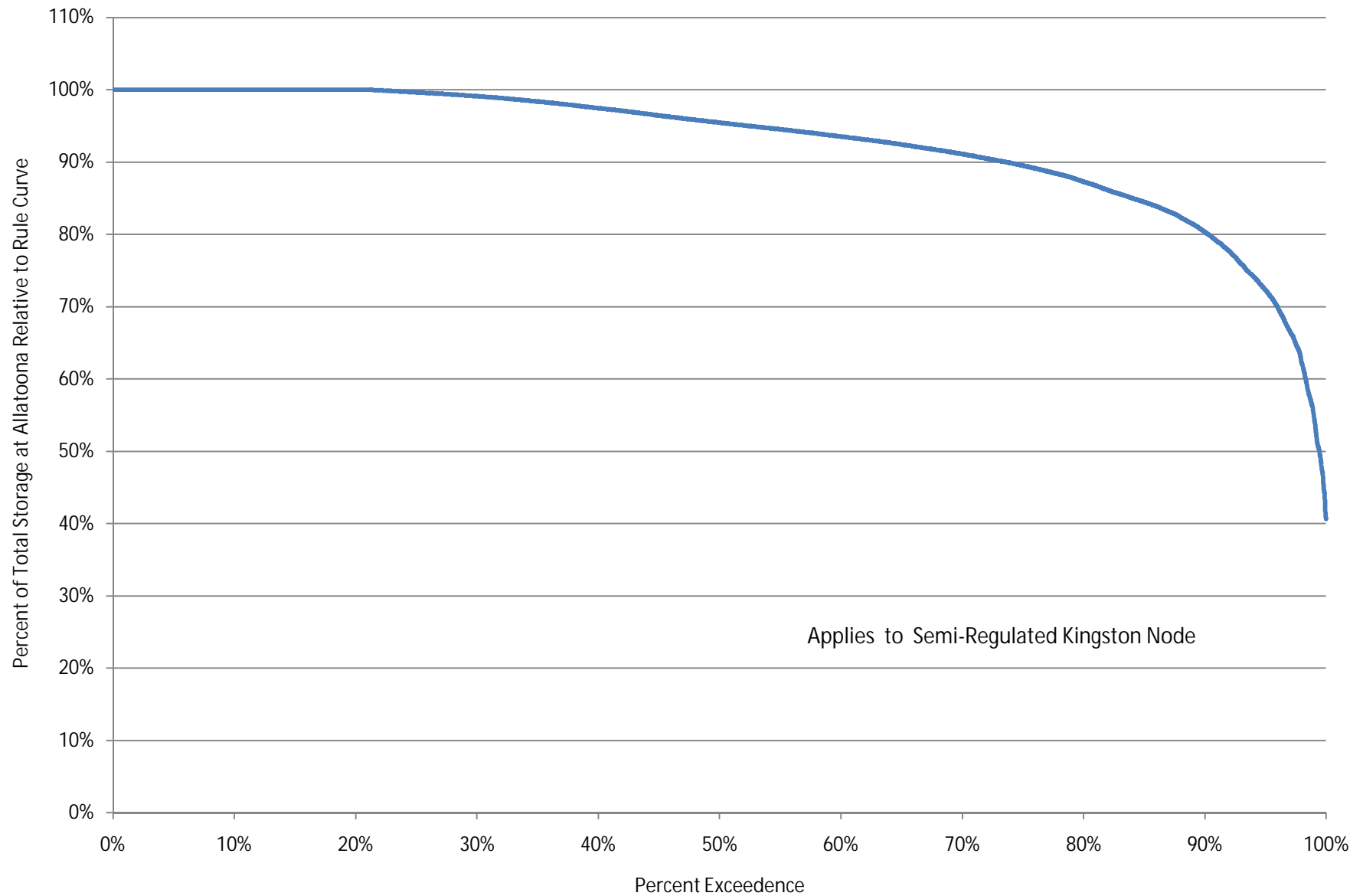


Figure B-3-1 Total Storage at Carters Rereg Dam
(Chart Type 6)

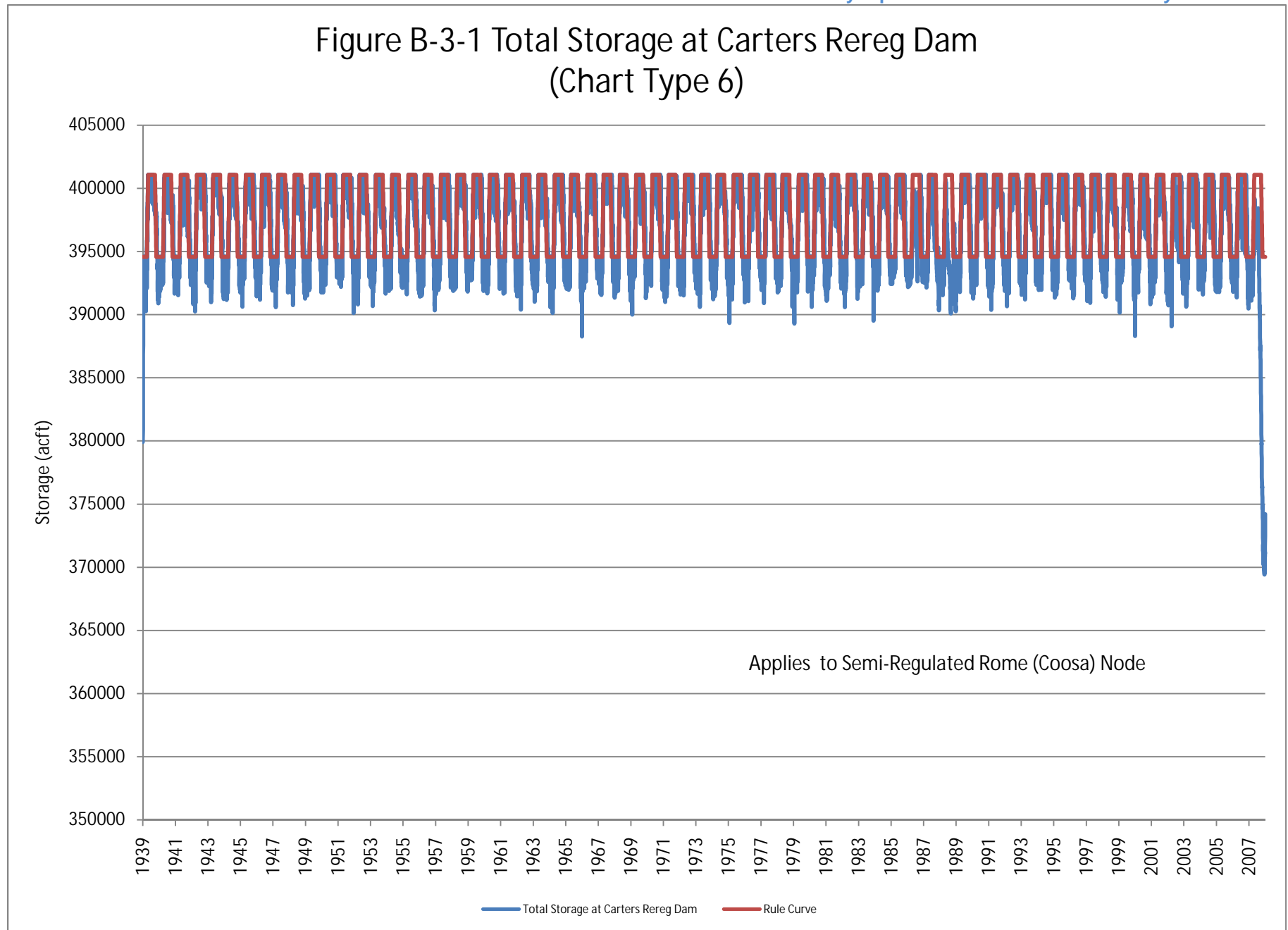


Figure B-3-2 Percent of Total Storage at Carters Rereg Dam Relative to Rule Curve
(Chart Type 7)

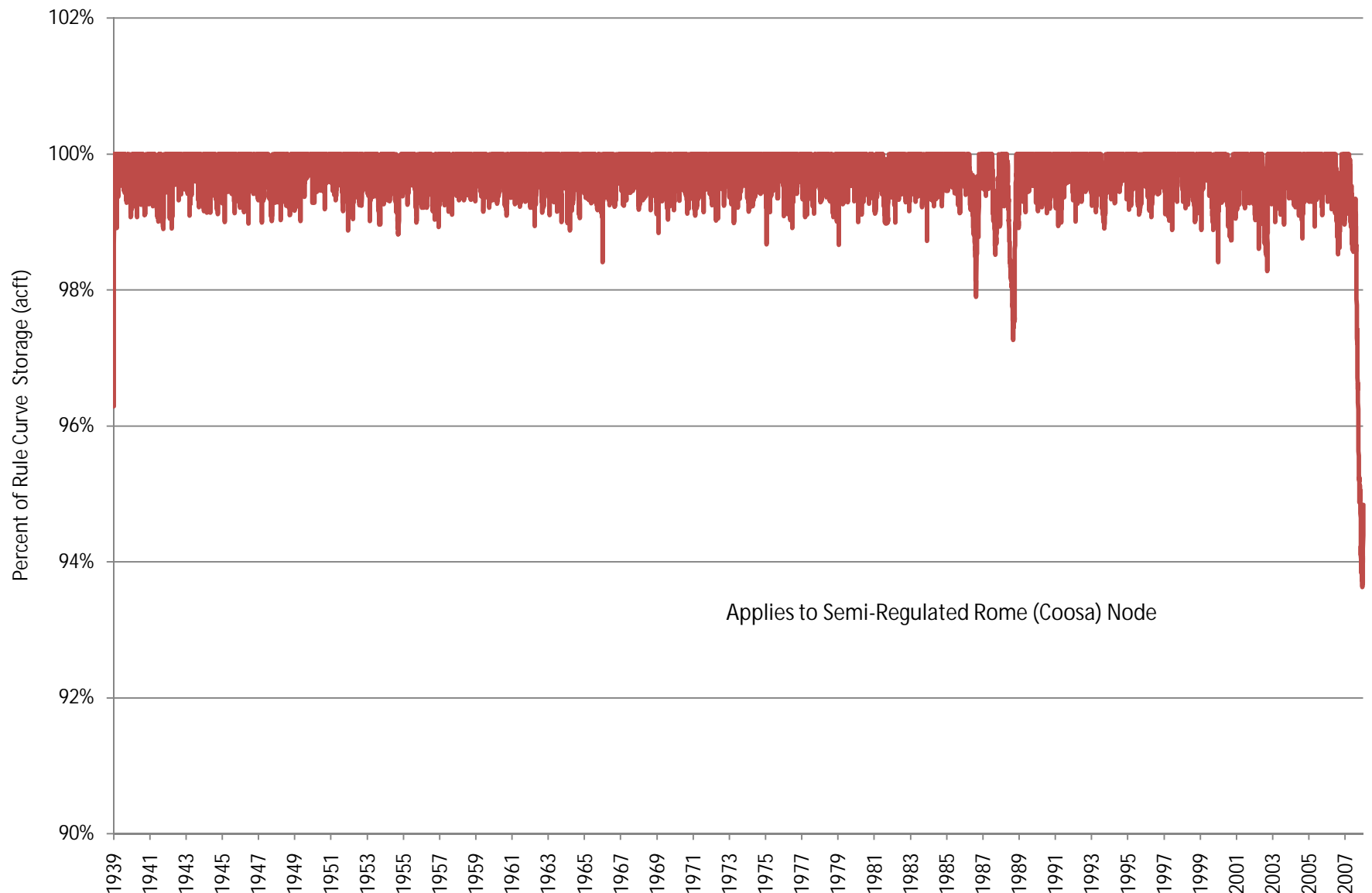


Figure B-3-3 Frequency of Exceedence of Percent Total Storage at Carters Rereg Dam Relative to Rule Curve
(Chart Type 8)

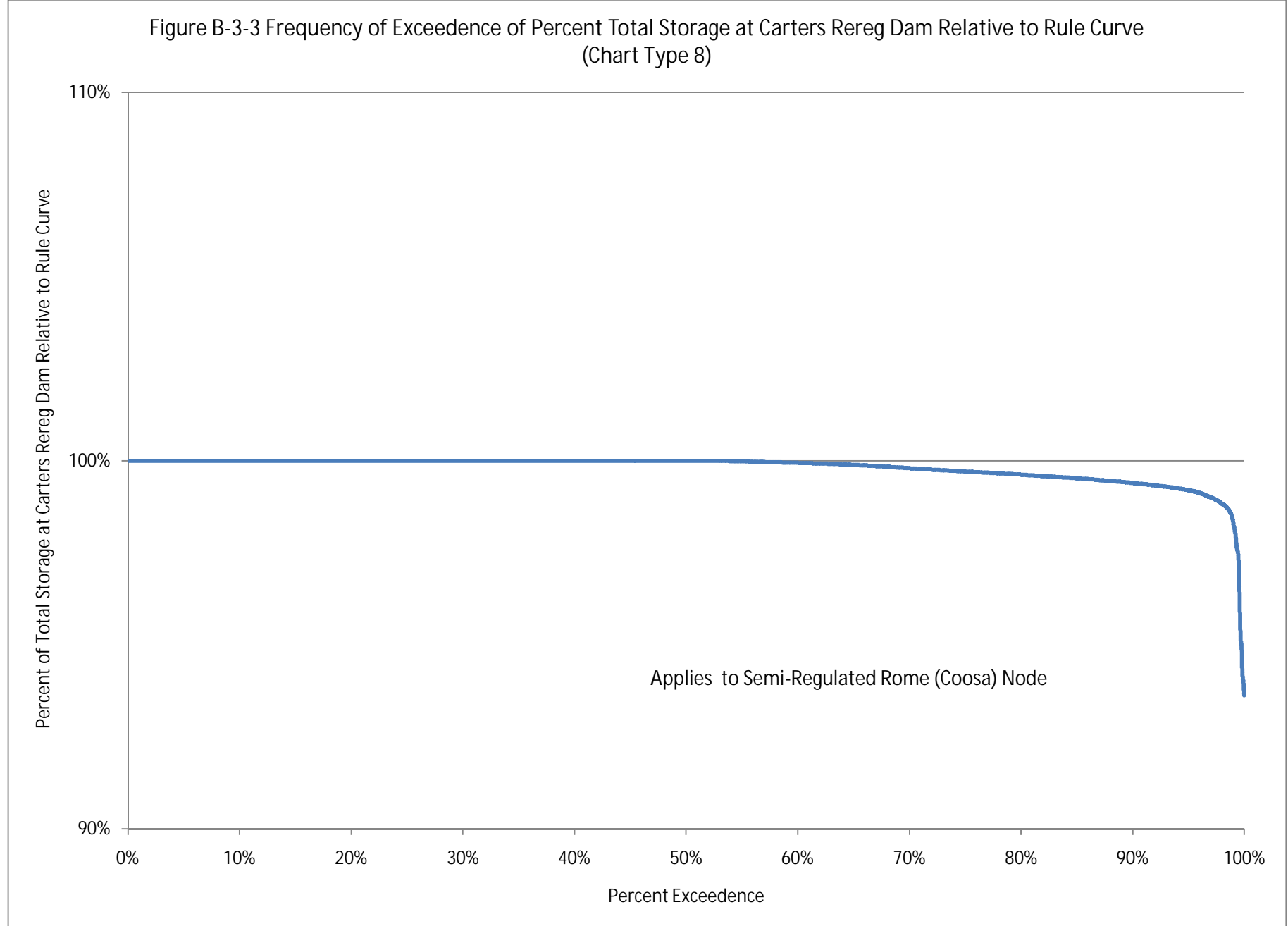


Figure B-4-1 Average Percentage of Flow Compared to Flow Regime at Heflin (Chart Type 1)

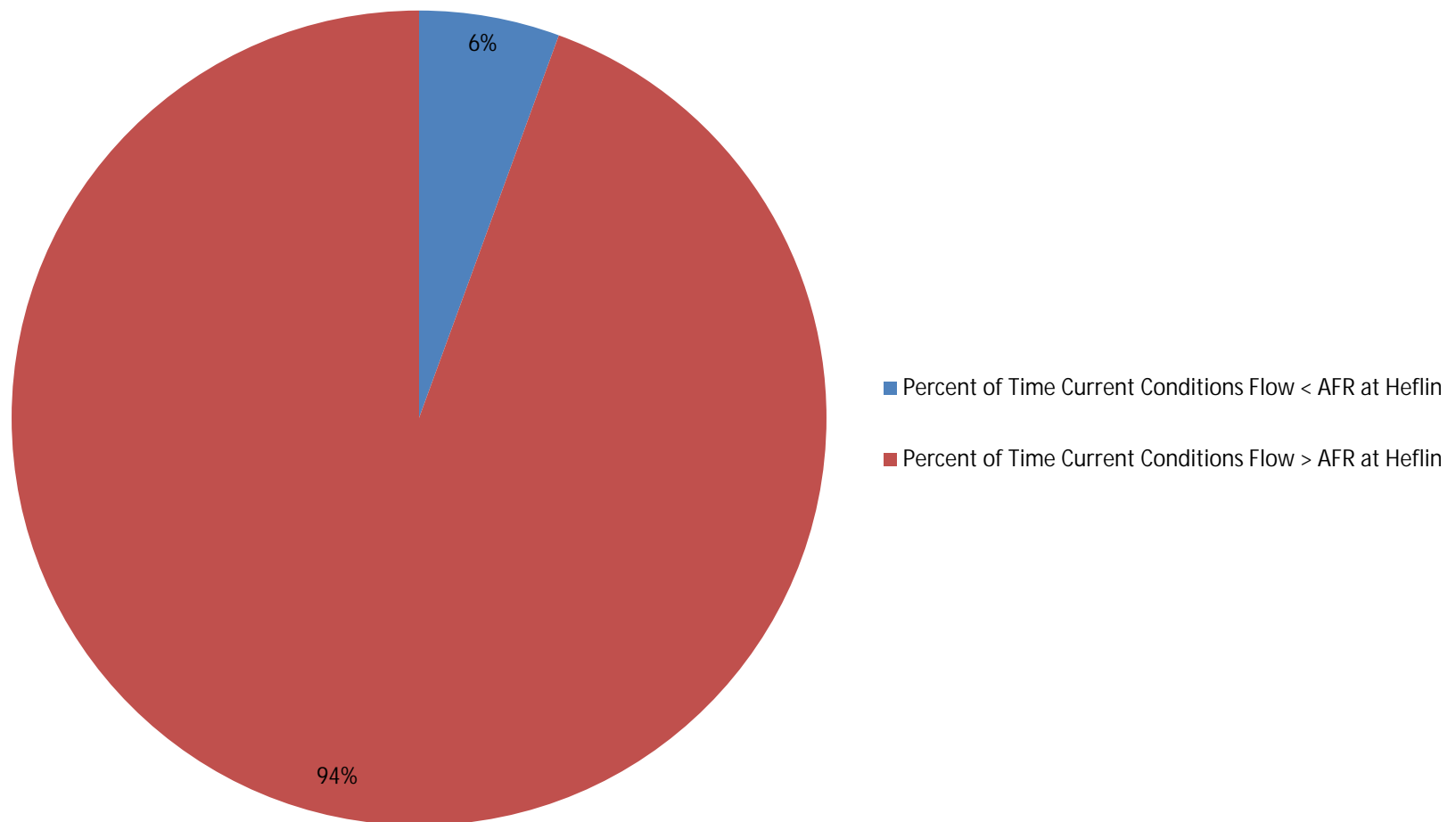


Figure B-4-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Heflin (Chart Type 2)

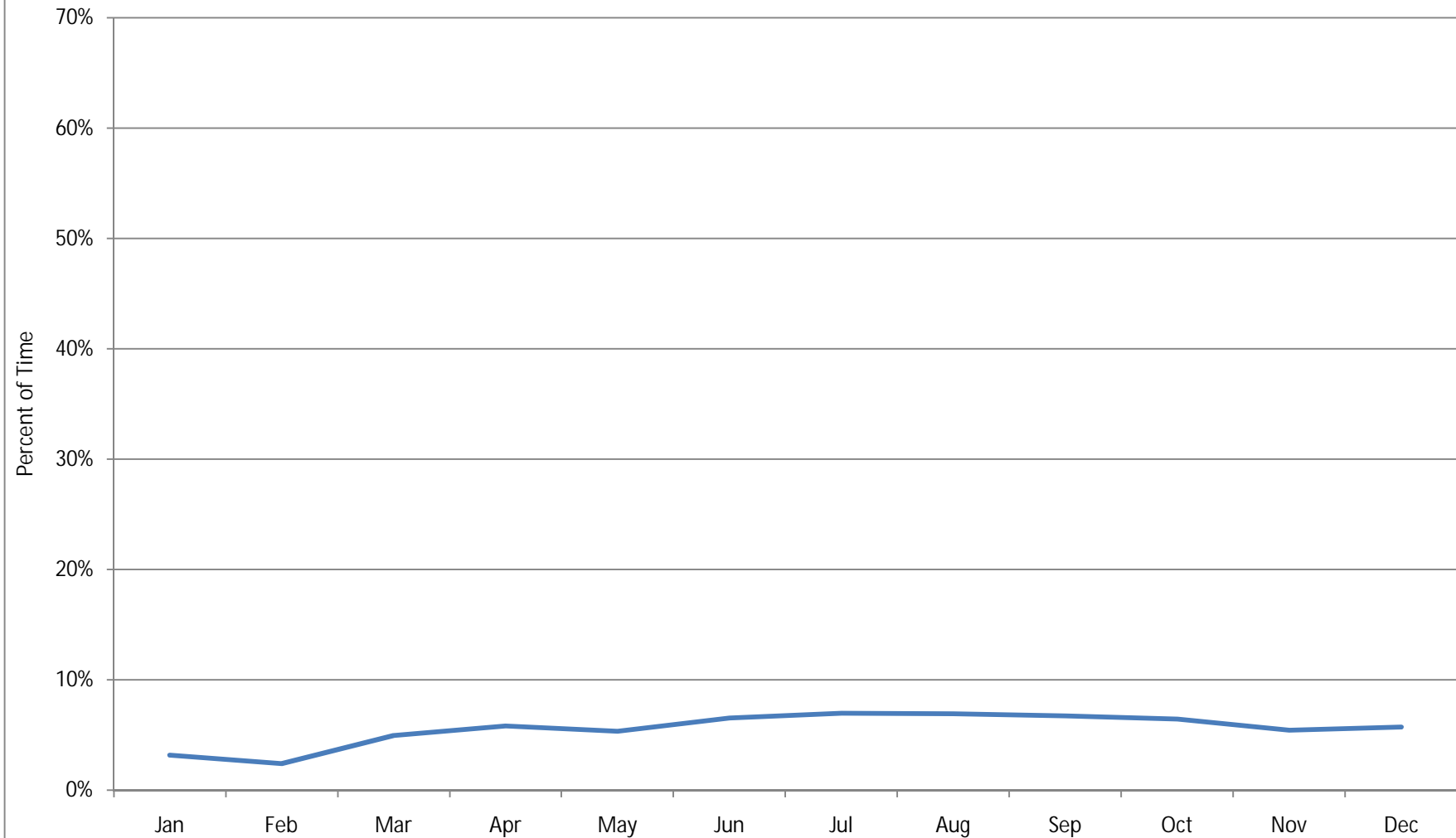


Figure B-4-3 Range of Deficit of Flow Regime at Heflin (Chart Type 3)

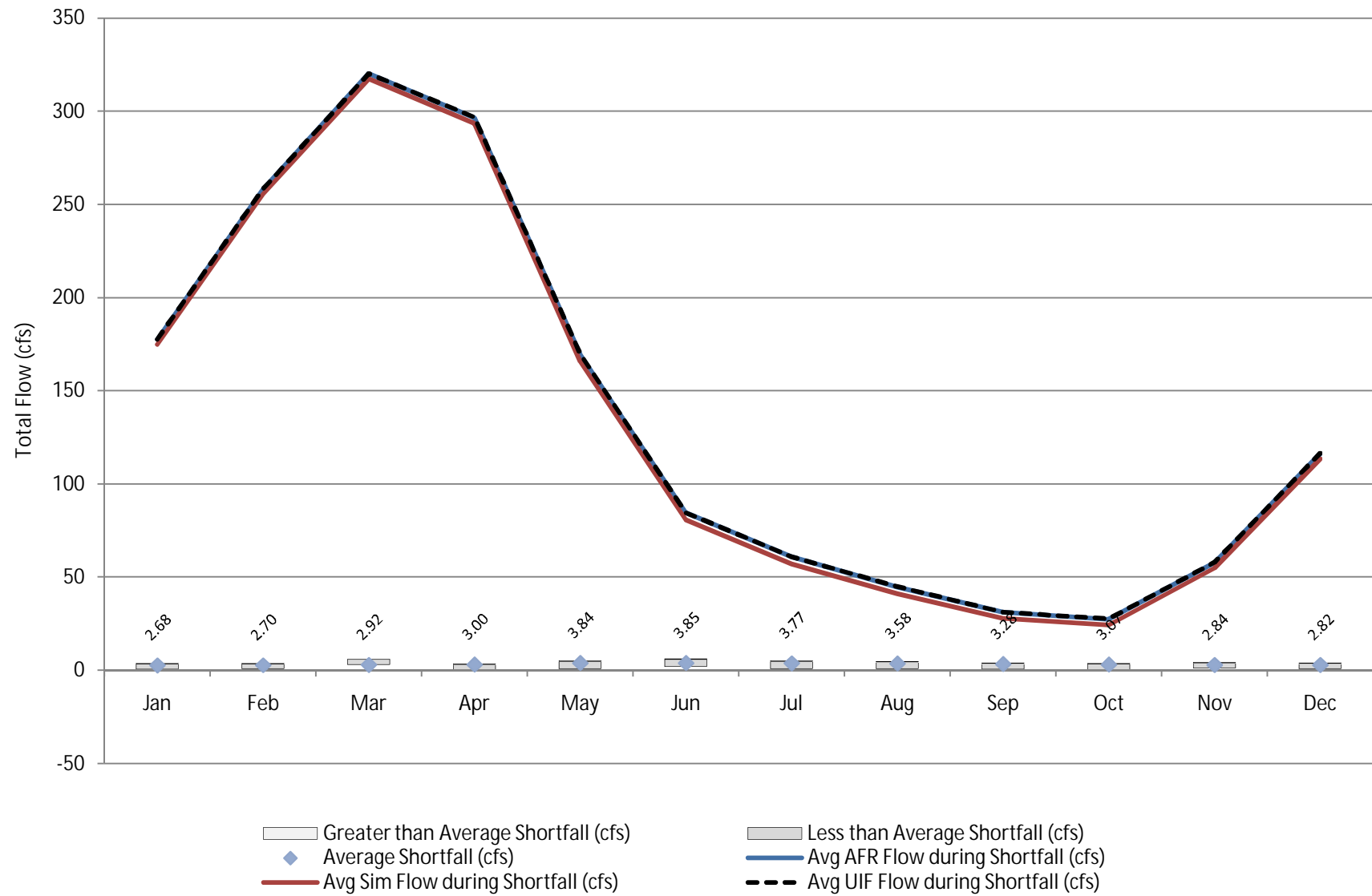


Figure B-4-4 Unimpaired Monthly Range of Flow at Heflin (Chart Type 4)

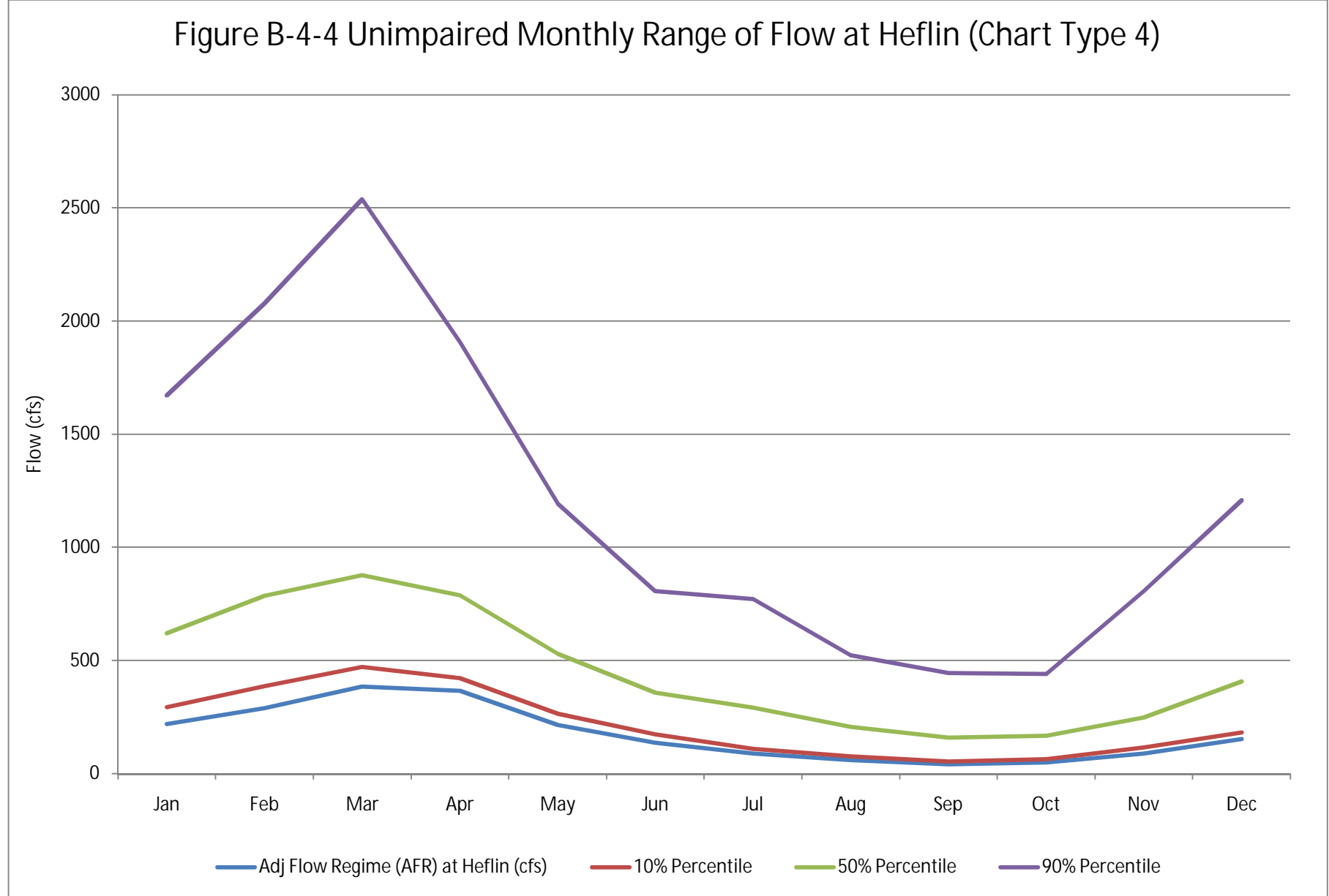


Figure B-4-5 Simulated Monthly Range of Flow at Heflin (Chart Type 5)

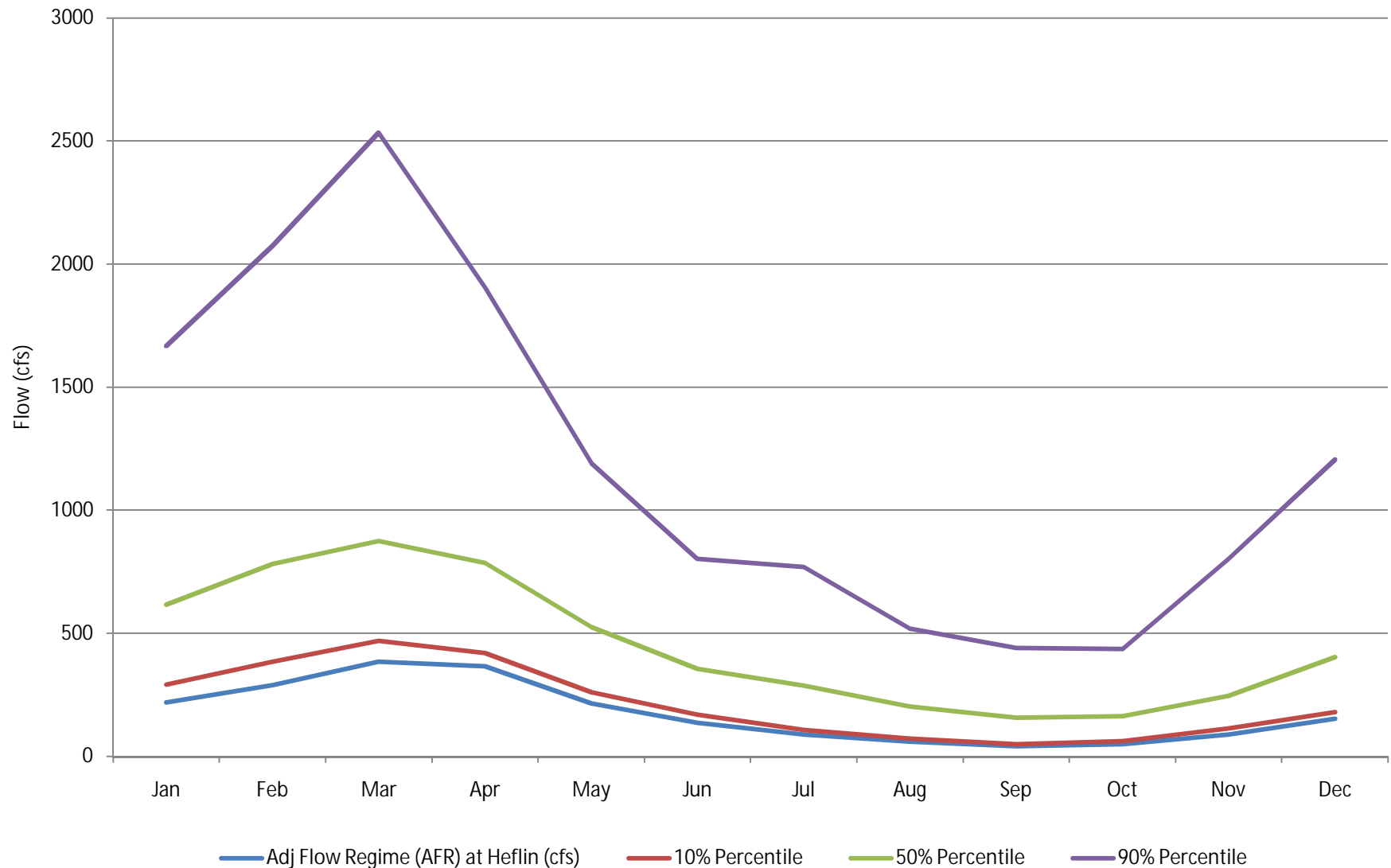


Figure B-5-1 Average Percentage of Flow Compared to Flow Regime at Newell (Chart Type 1)

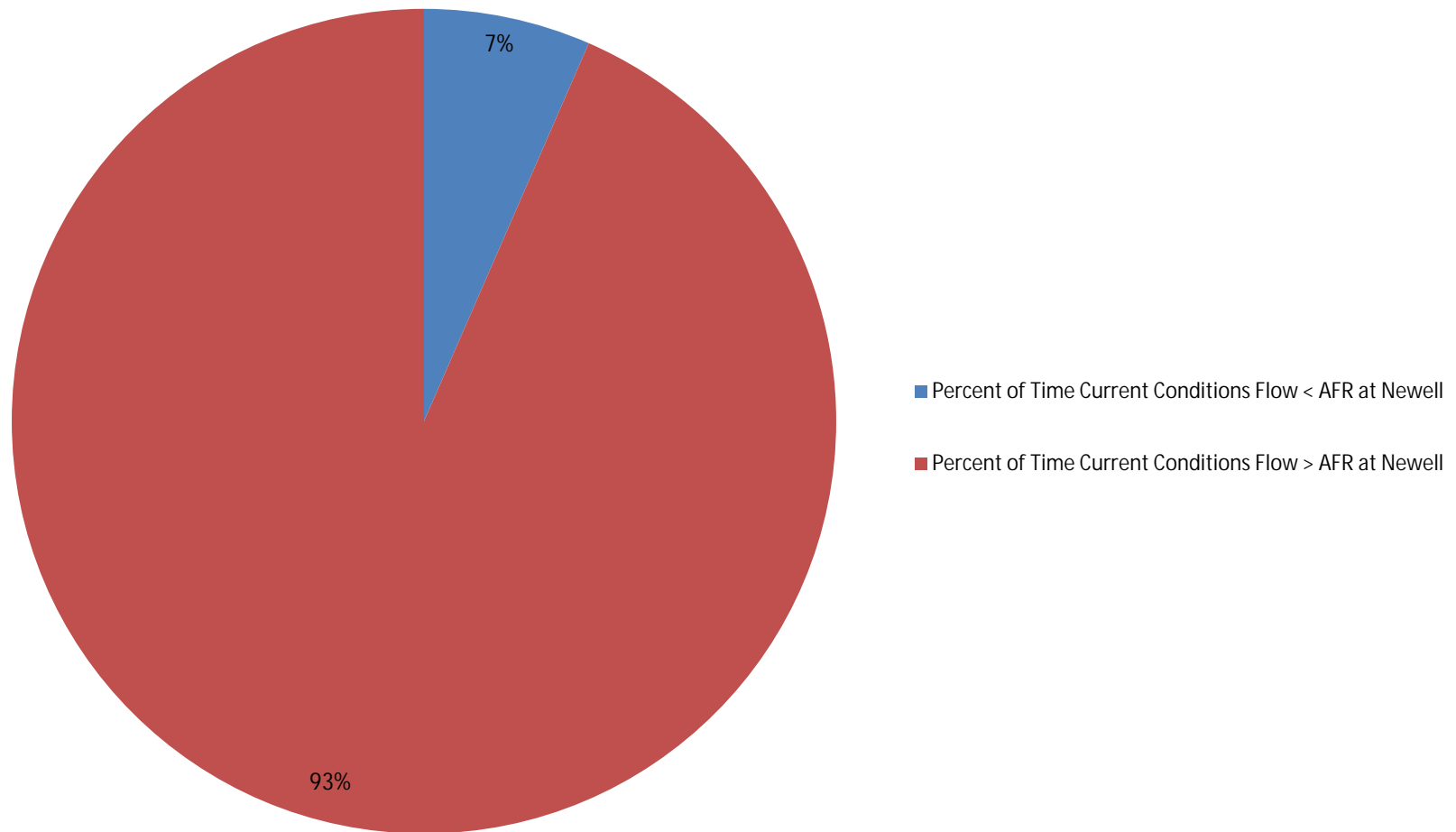


Figure B-5-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Newell (Chart Type 2)

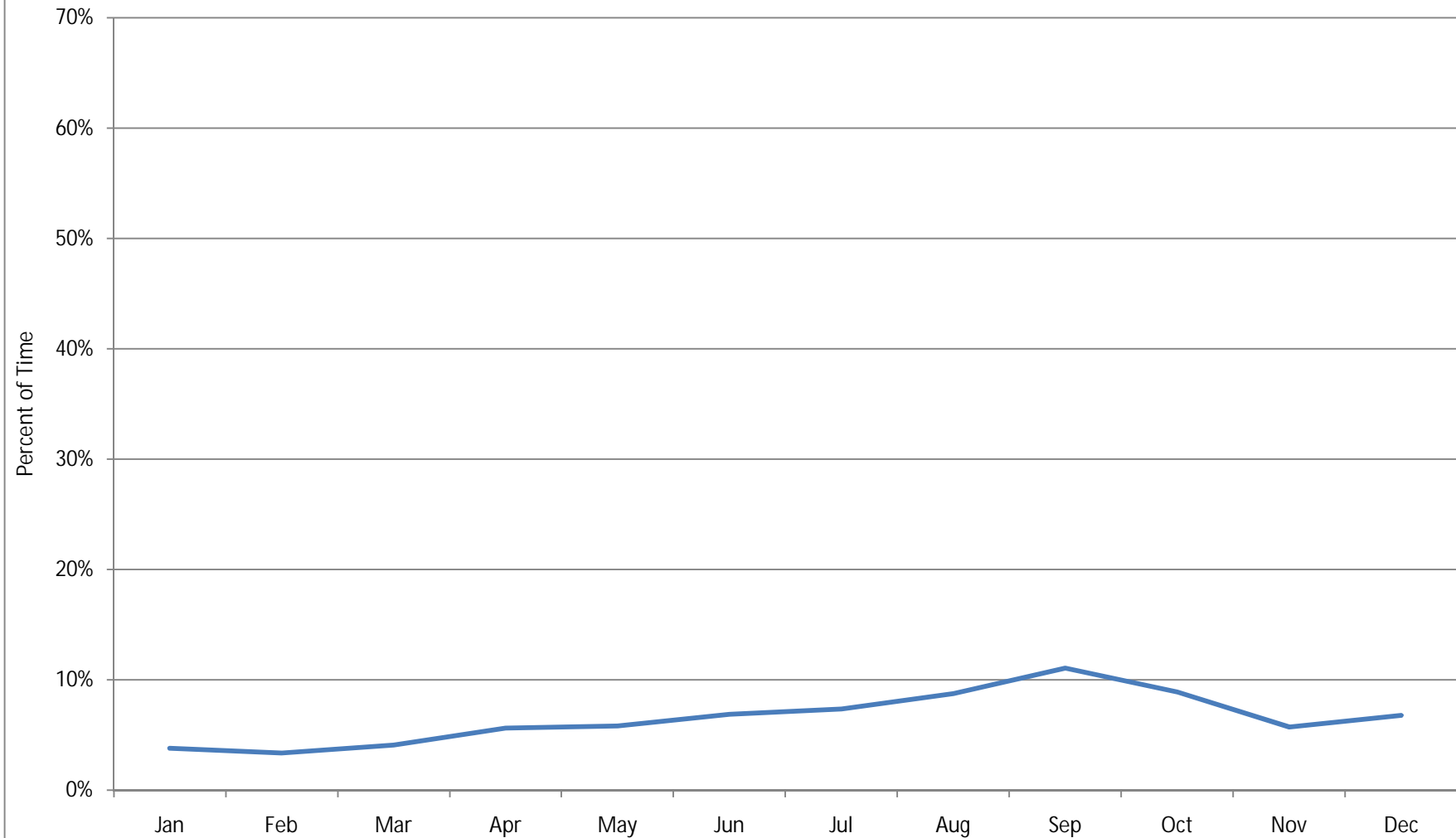


Figure B-5-3 Range of Deficit of Flow Regime at Newell (Chart Type 3)

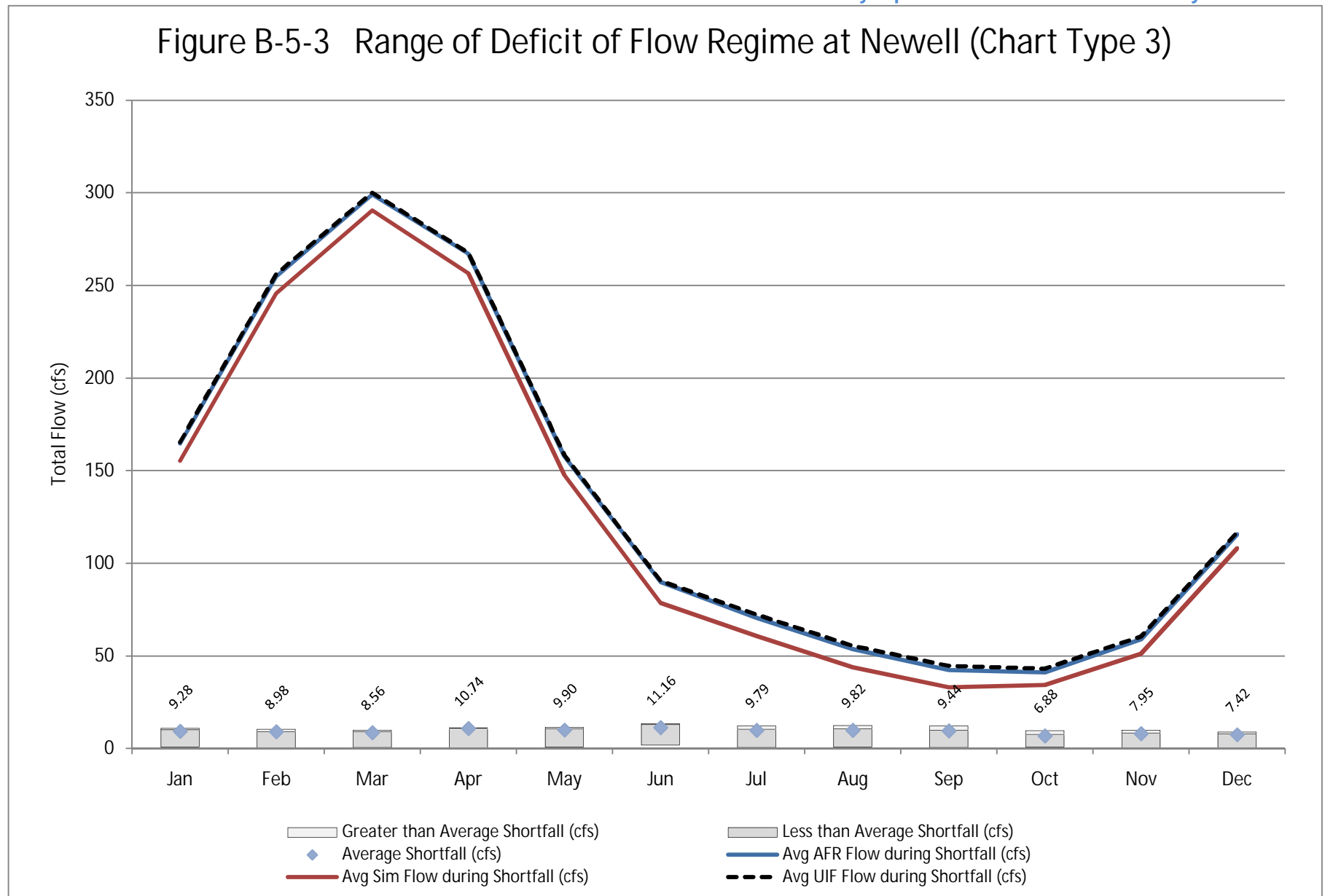


Figure B-5-4 Unimpaired Monthly Range of Flow at Newell (Chart Type 4)

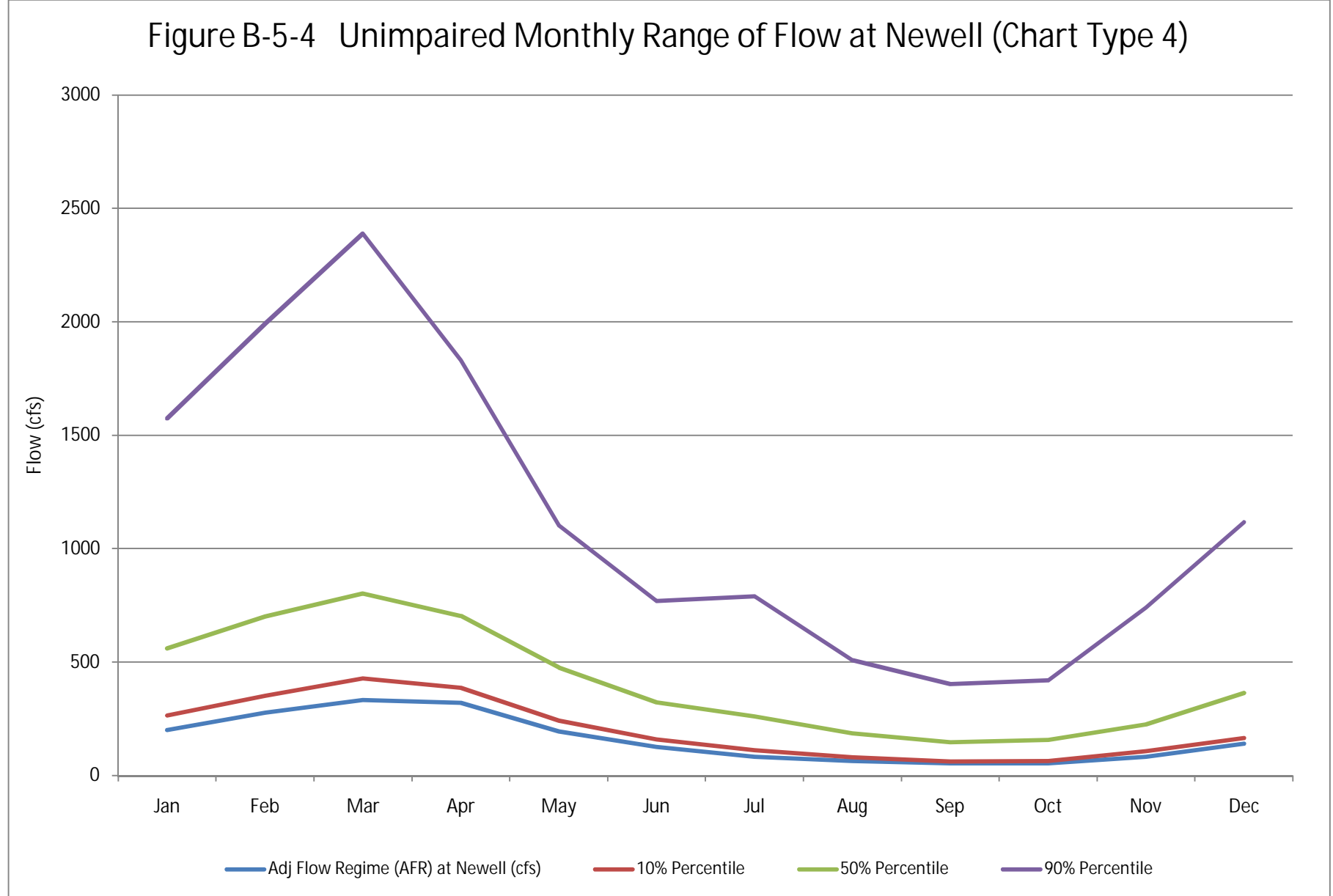
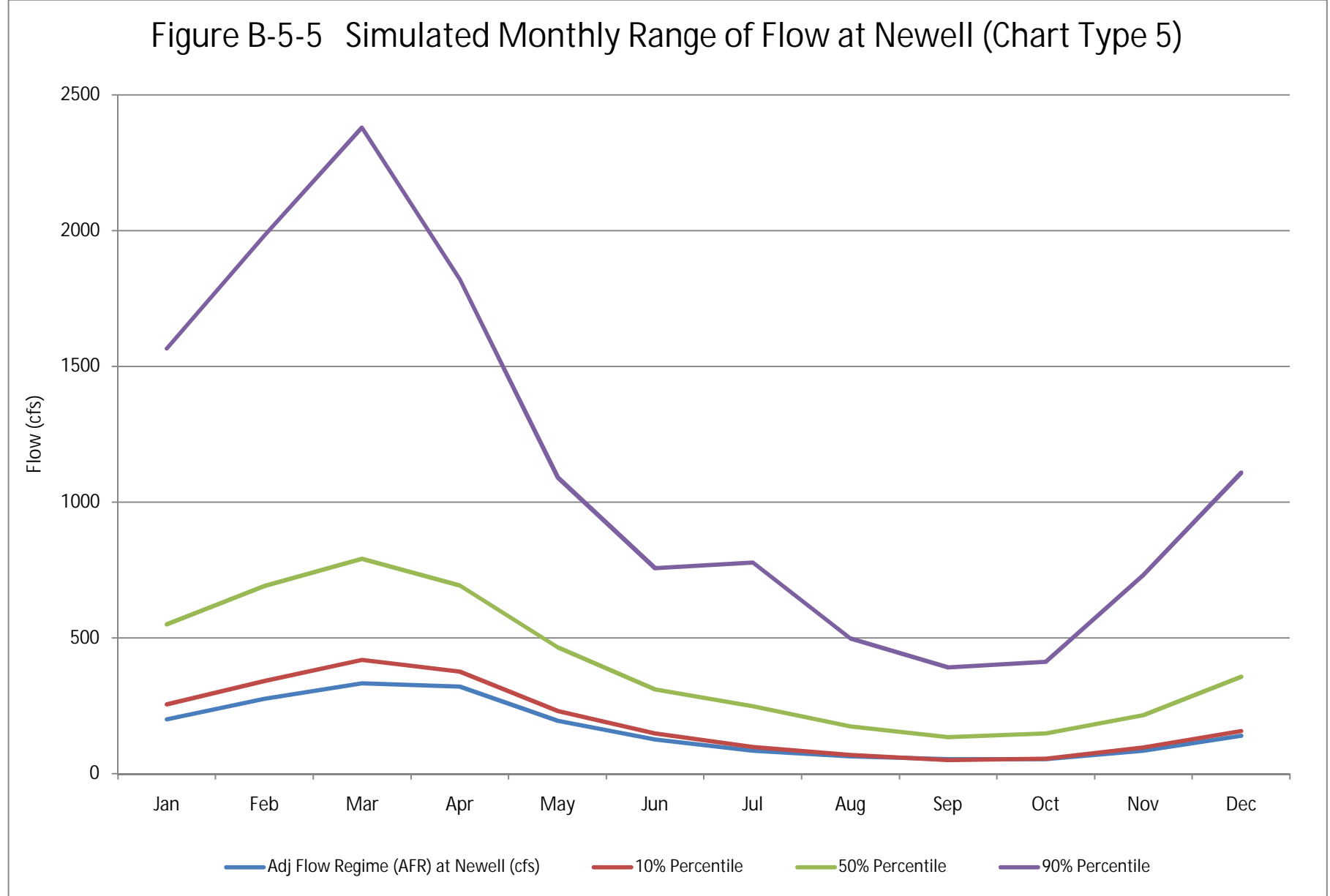


Figure B-5-5 Simulated Monthly Range of Flow at Newell (Chart Type 5)



Appendix C

Oconee-Ocmulgee-Altamaha

Charts depicting flows and shortages relative to flow regime by planning node for current conditions model.

1. Lumber City
2. Penfield
3. Mount Vernon
4. Doctortown

Synopsis of Surface Water Availability Assessment

Chart type 1 is a pie chart that shows the percentage of daily flows above and below the adjusted flow regime. The percentage of time above the adjusted flow regime is an indication of how often the flow regime can be met and withdrawals can be made.

Chart type 2 shows the percentage of time that flows are below the adjusted flow regime for each month of the year, indicating months in which water availability is most constrained. The higher the percentage, the more often there are shortfalls, hence more water availability constraints.

Chart type 3 shows certain monthly statistics during periods of shortfalls. Namely, average simulated river flows, average adjusted flow regime flows, and average unimpaired flows are shown by line plots. In addition, each month's average shortfall and the range between the largest and smallest shortfall are shown by bar plots. This chart shows the magnitude of a shortfall for a given month relative to the typical flows available during the month only on the days shortfalls occur. Flows for days without shortfalls are not included in generating these statistics.

Chart type 4 shows plots of monthly values of the adjusted flow regime and the 10-percentile (the lowest 10 percent of unimpaired flows), the 50-percentile (mid-range flows), and 90-percentile (all but the top 10 percent) flows. This range of percentiles covers dry, median, and wet conditions, respectively. The chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream if there were no effects of human development.

Chart type 5 shows plots of monthly values of the adjusted flow regime and the lowest 10 percent of simulated flows, i.e., 10-percentile flows, 50-percentile flows, and 90-percentile flows. This chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream under current condition assumptions.

Chart type 6 shows the daily storage and seasonal top of conservation curve for a given reservoir over the period of record. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 7 shows the percentage of storage remaining relative to the seasonal top of conservation pool for a given reservoir over the period of record. The reservoir is 100 percent full when the level is at or above the rule curve. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 8 shows the percentage of time that the remaining storage of a given reservoir is above a given percentage relative to the rule curve. The reservoir is 100 percent full when the level is at or above the rule curve. Storage remaining in the reservoir reflects magnitude and timing of demands.

AFR = Adjusted Flow Regime

Figure C-1-1 Total Storage at Jackson
(Chart Type 6)

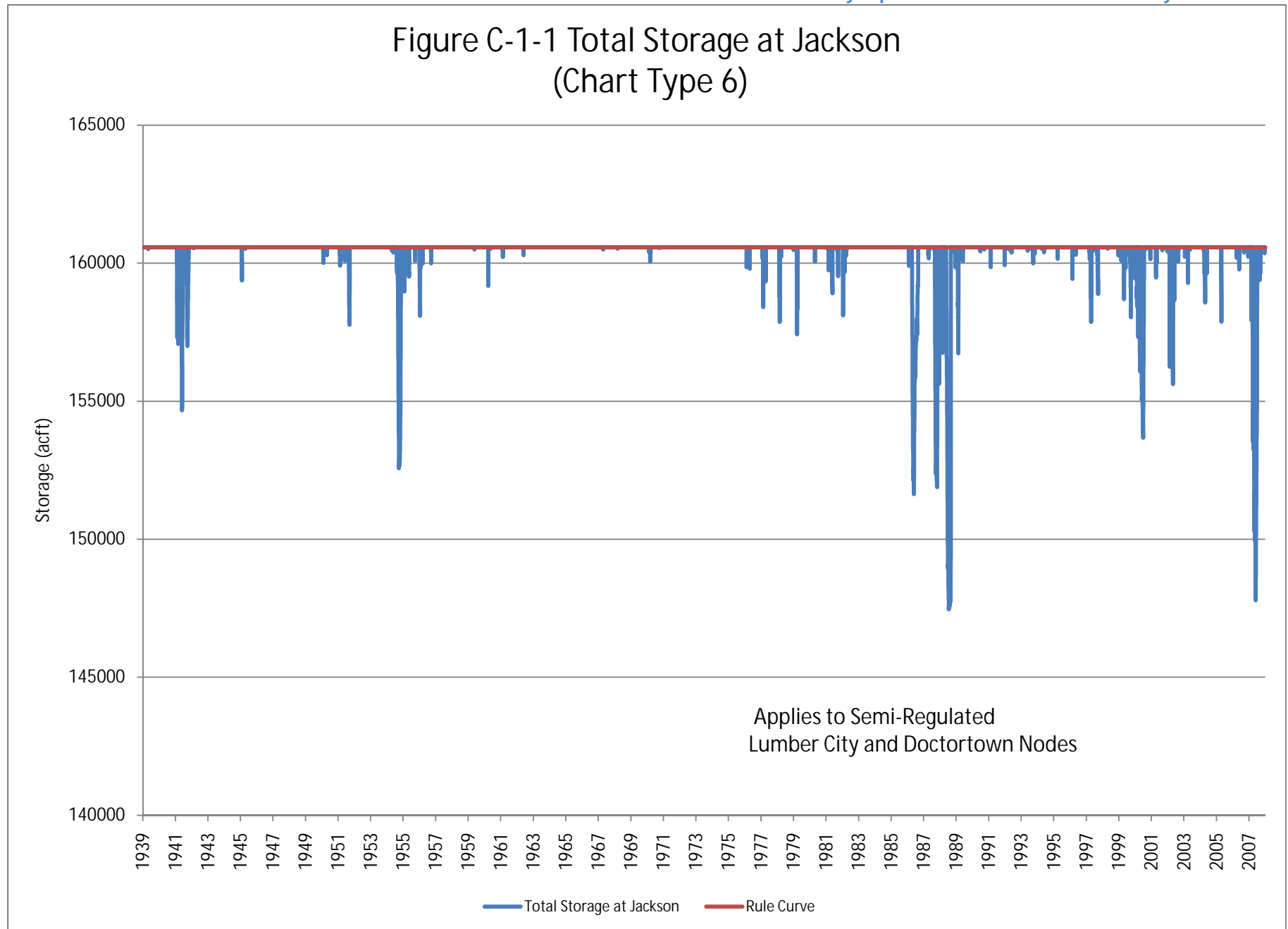


Figure C-1-2 Percent of Total Storage at Jackson Relative to Rule Curve
(Chart Type 7)

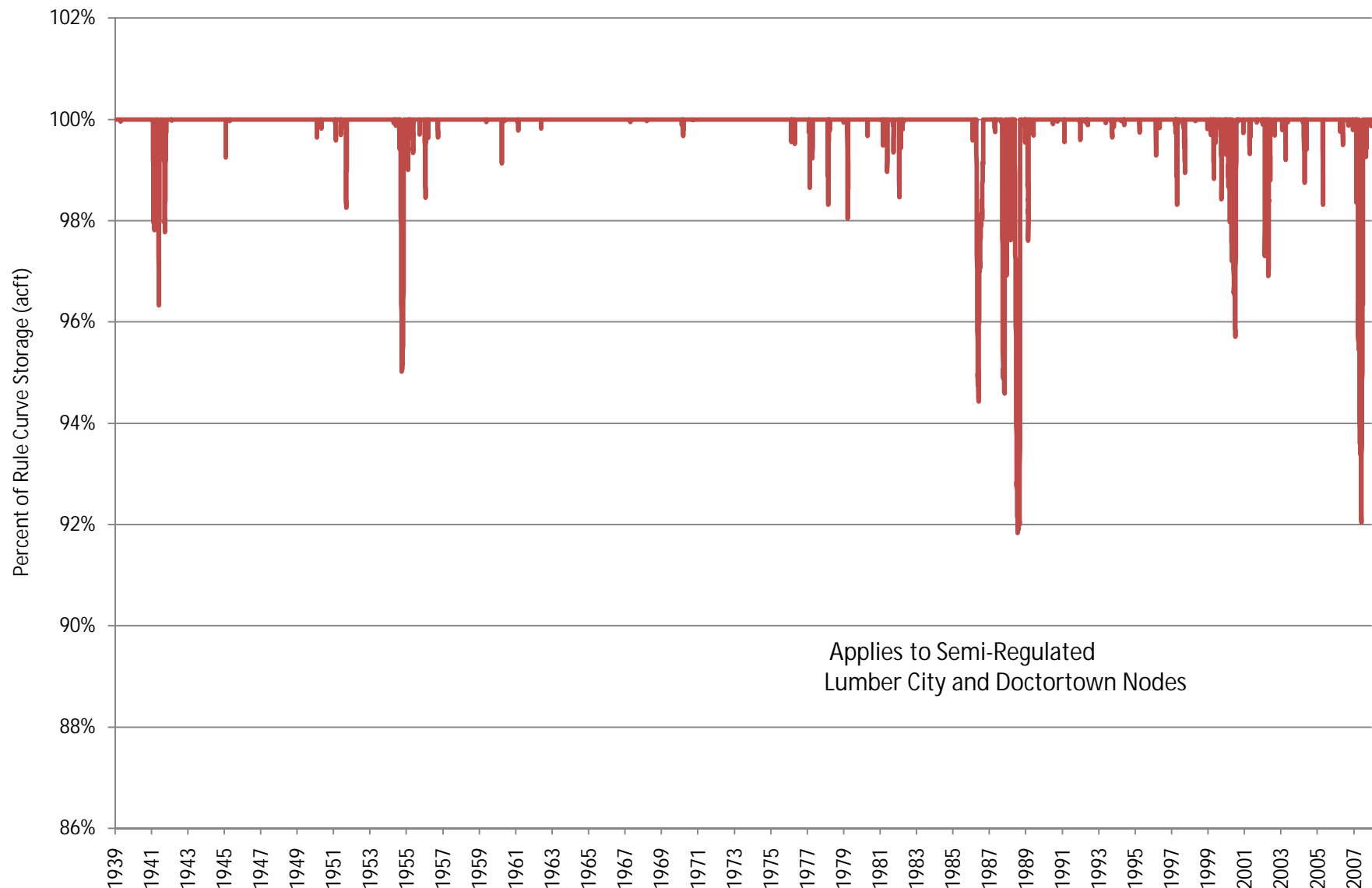


Figure C-1-3 Frequency of Exceedence of Percent Total Storage at Jackson Relative to Rule Curve
(Chart Type 8)

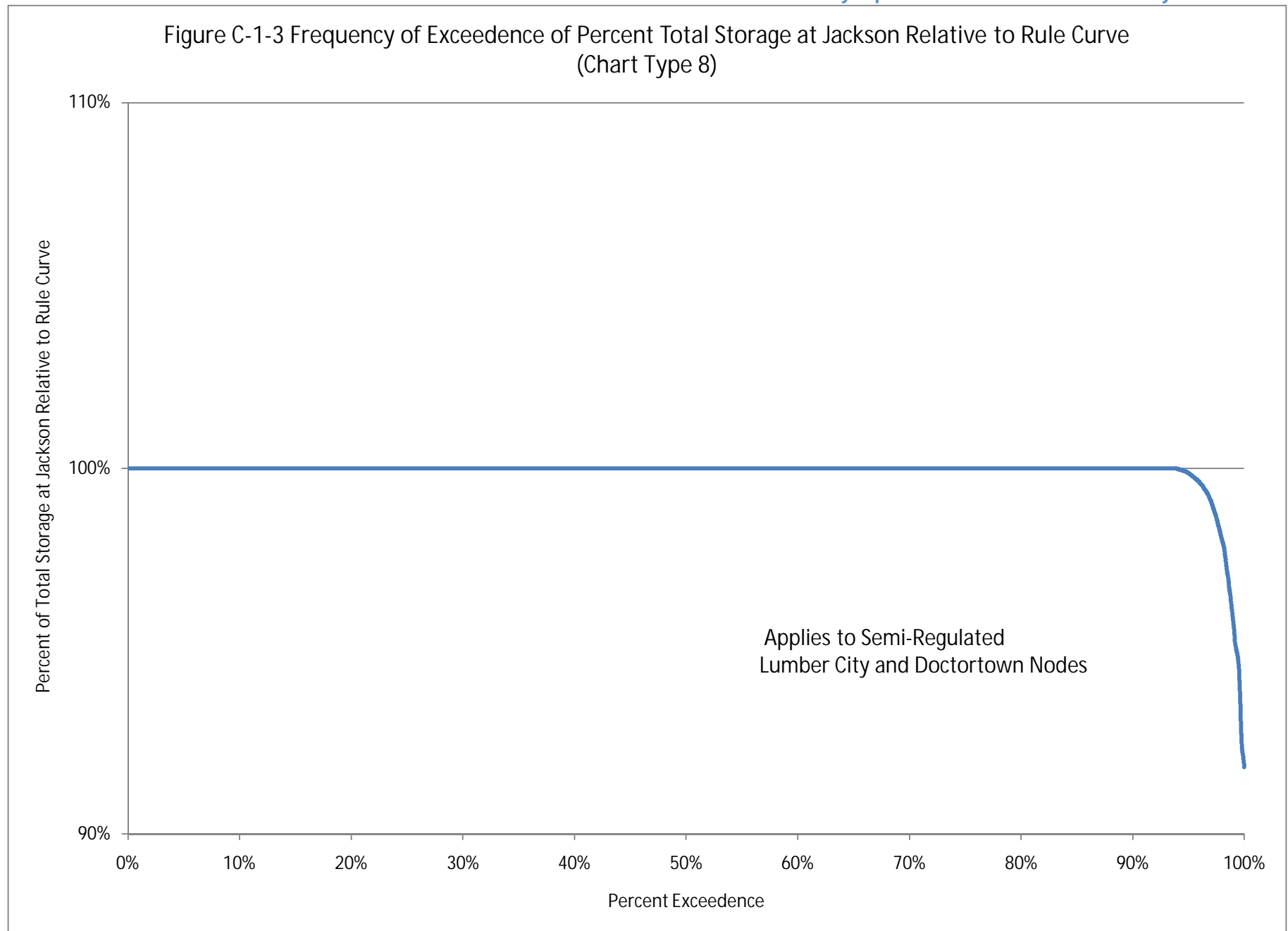


Figure C-2-1 Average Percentage of Flow Compared to Flow Regime at Penfield (Chart Type 1)

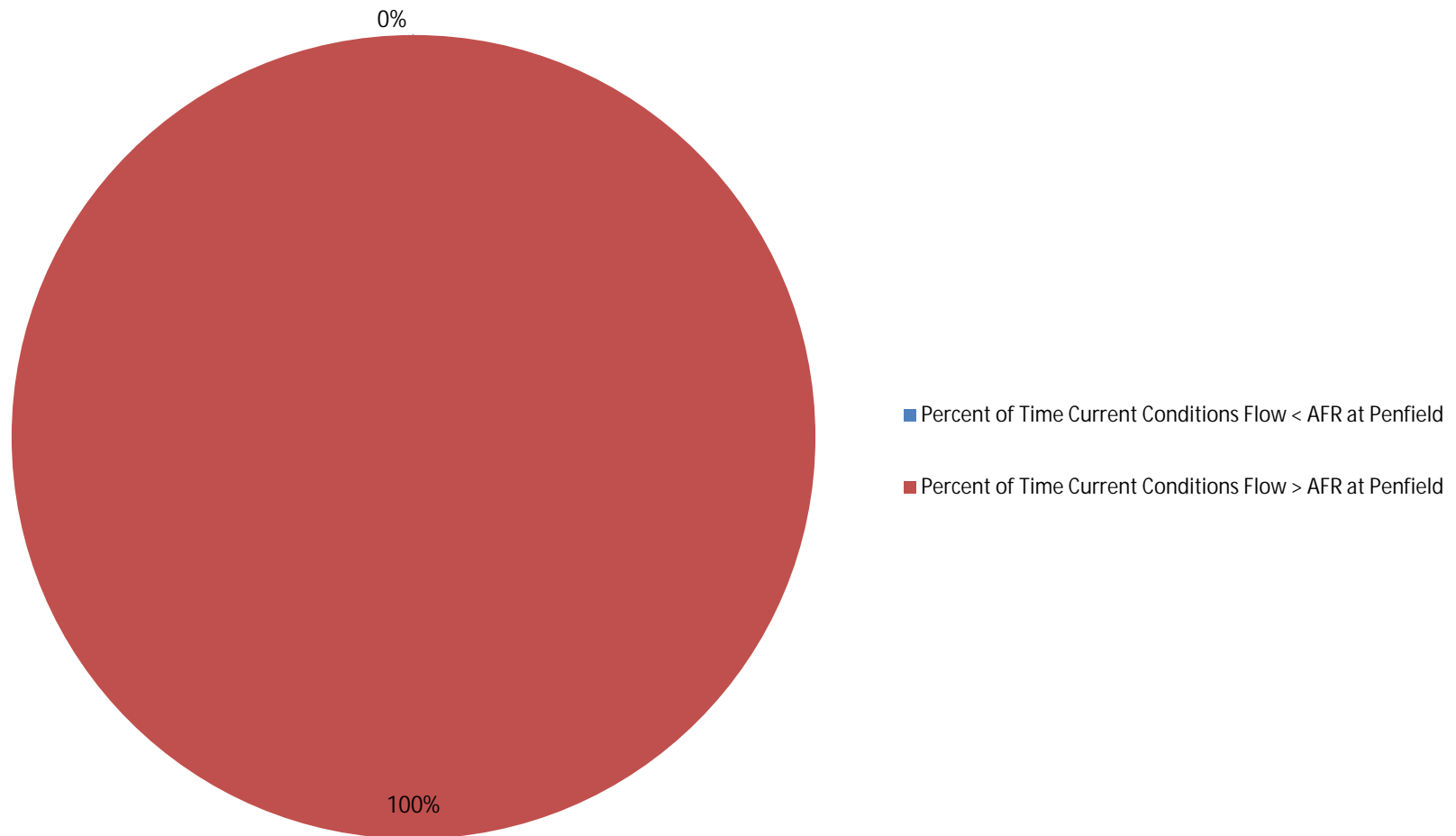


Figure C-2-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Penfield (Chart Type 2)

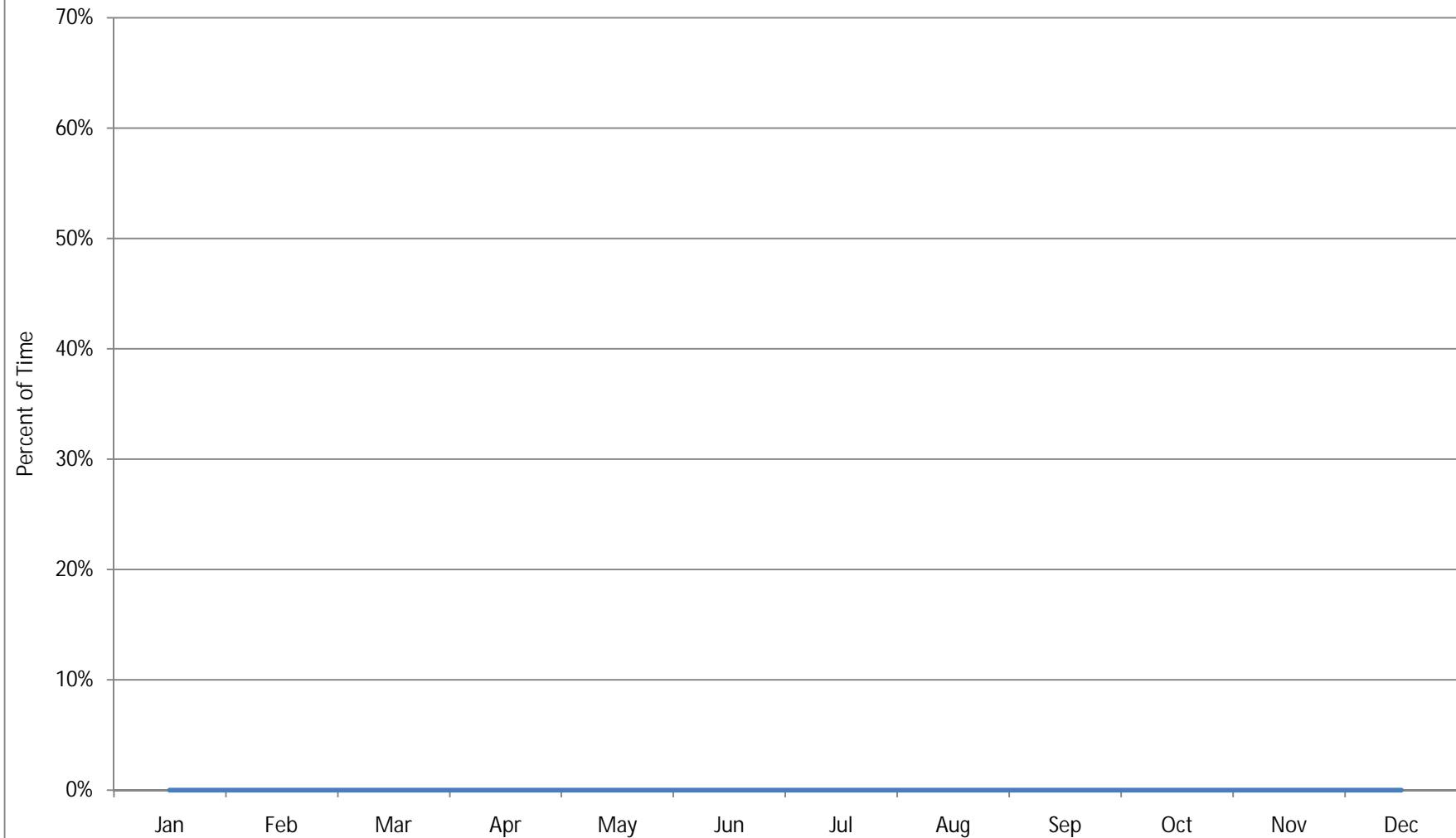


Figure C-2-3 Range of Deficit of Flow Regime at Penfield (Chart Type 3)

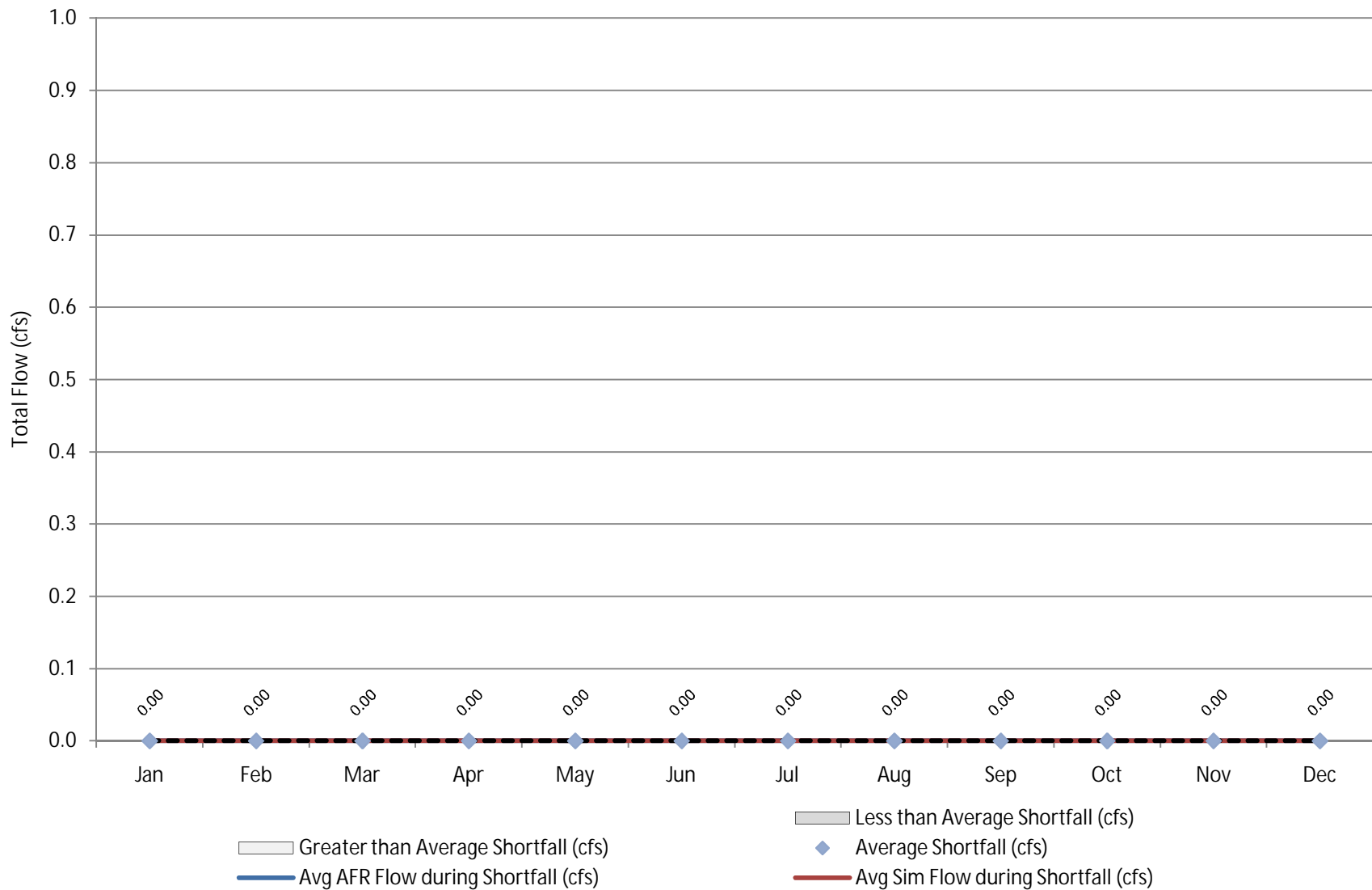


Figure C-2-4 Unimpaired Monthly Range of Flow at Penfield (Chart Type 4)

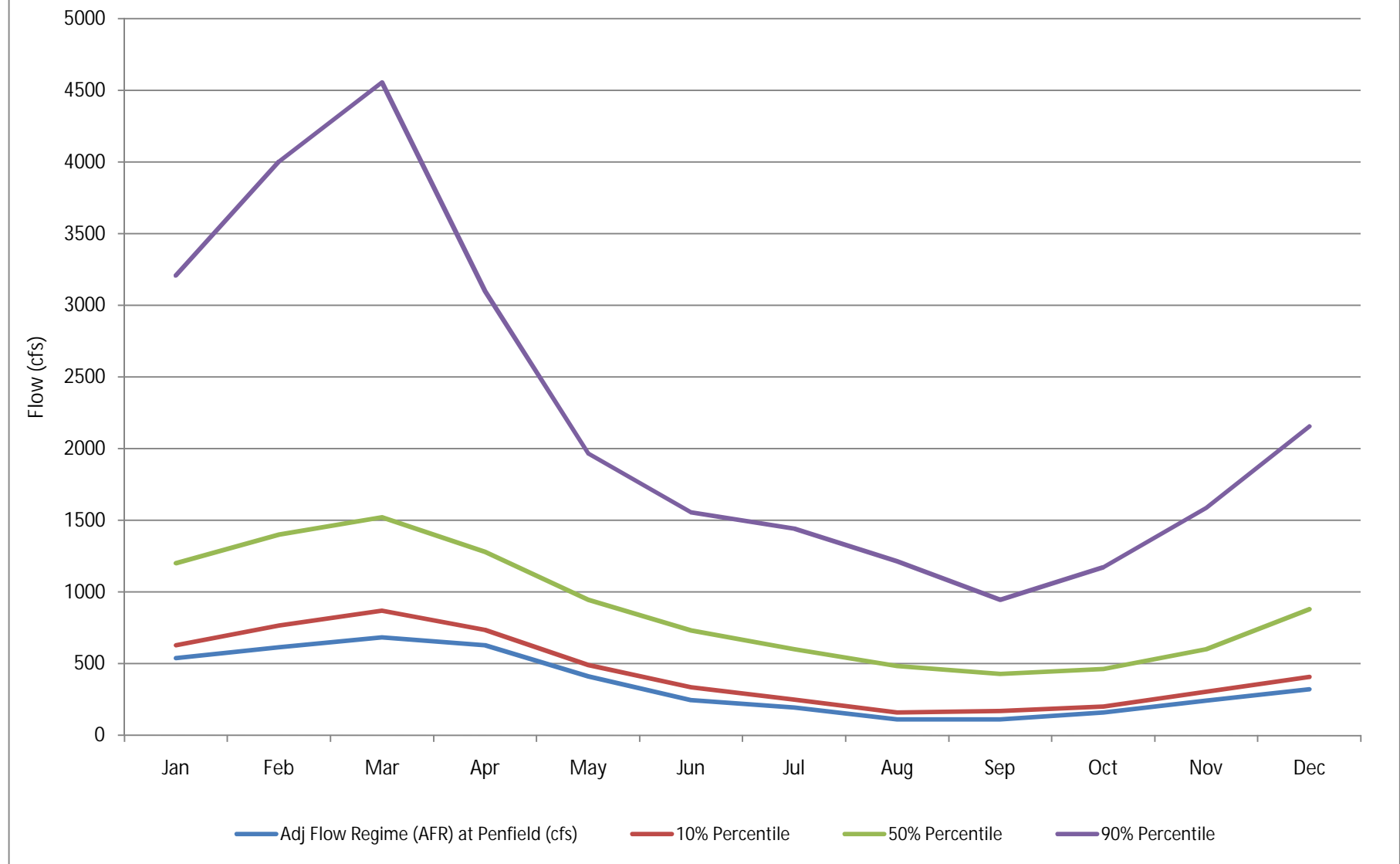
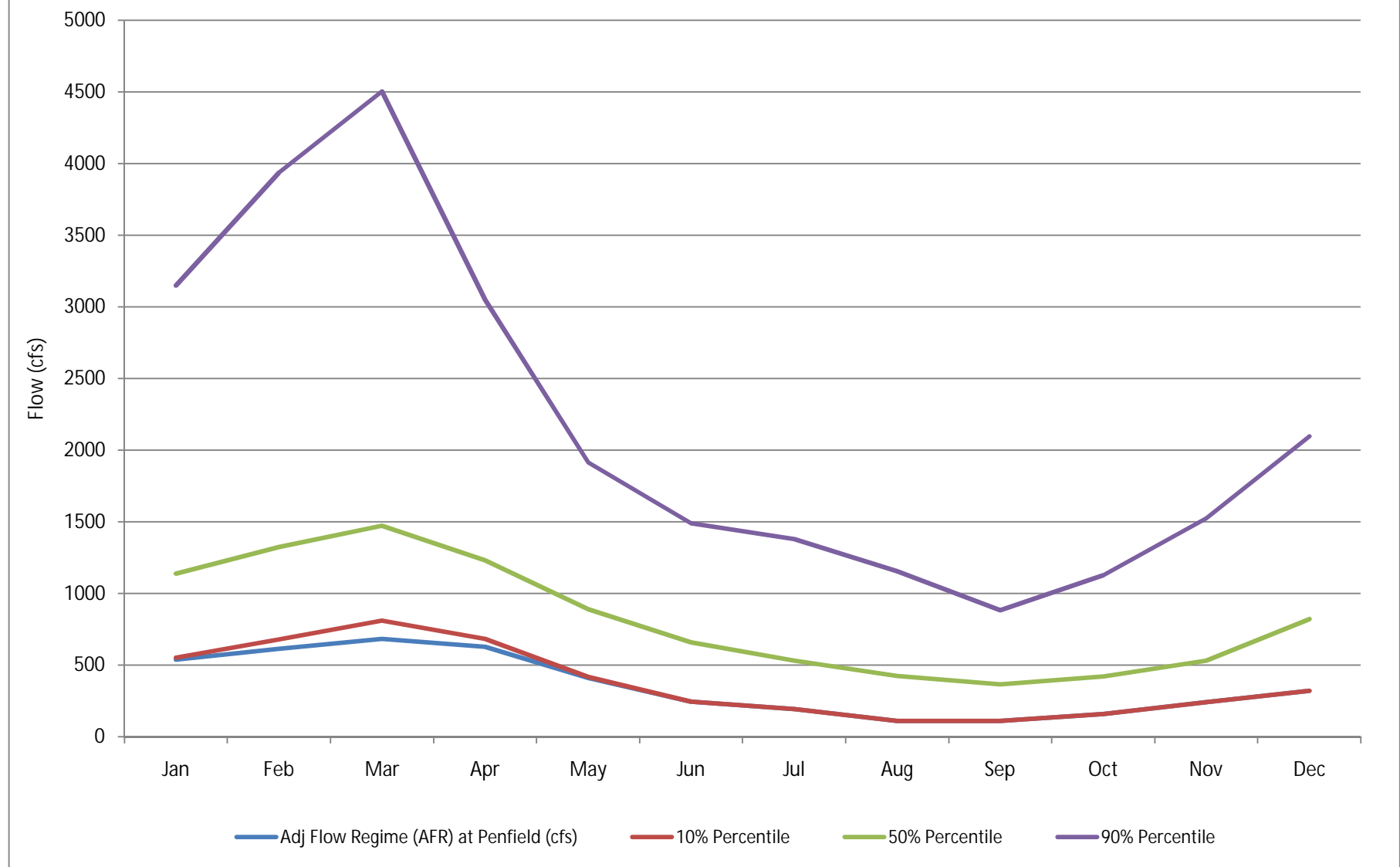


Figure C-2-5 Simulated Monthly Range of Flow at Penfield (Chart Type 5)



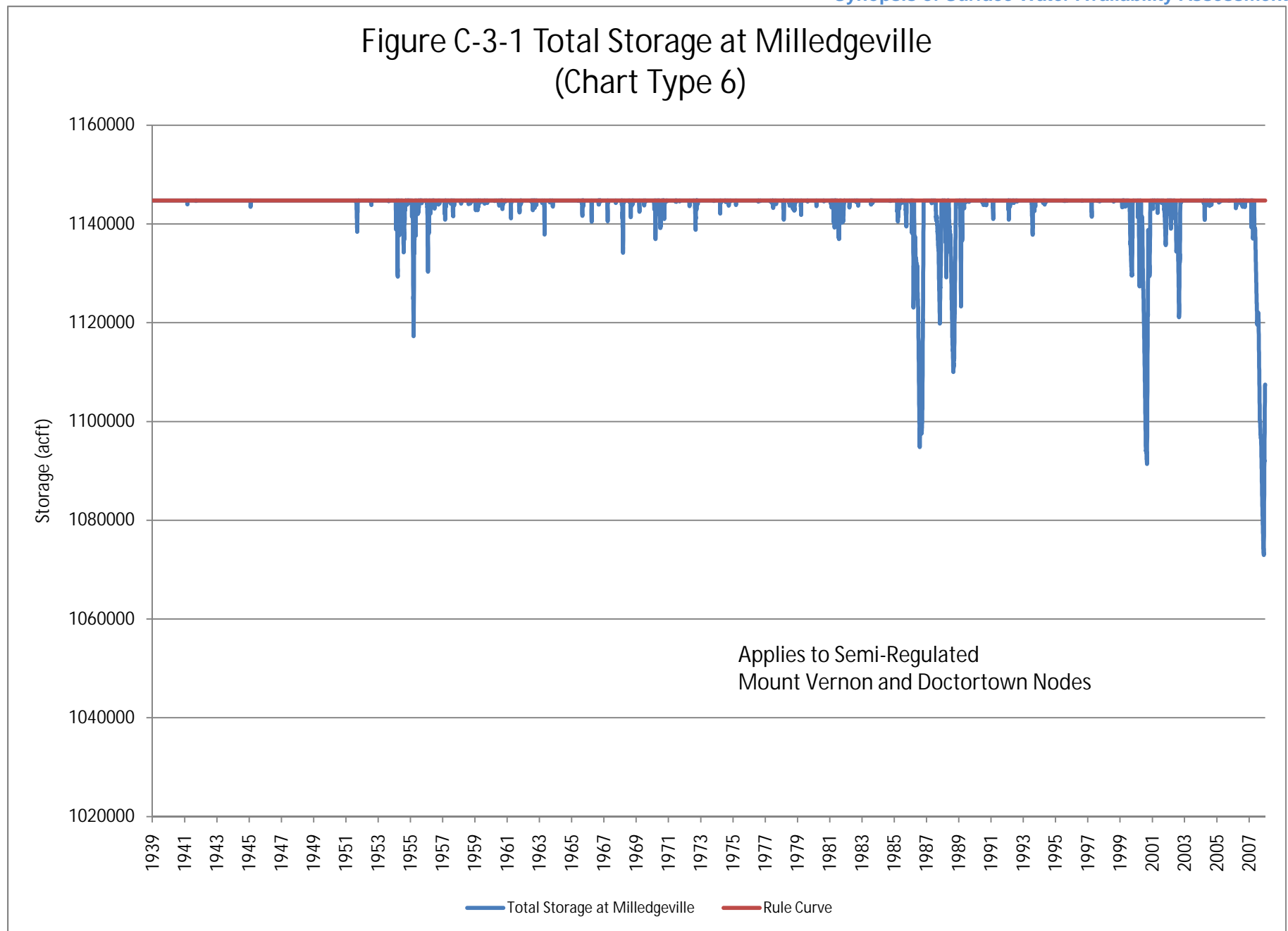


Figure C-3-2 Percent of Total Storage at Milledgeville Relative to Rule Curve
(Chart Type 7)

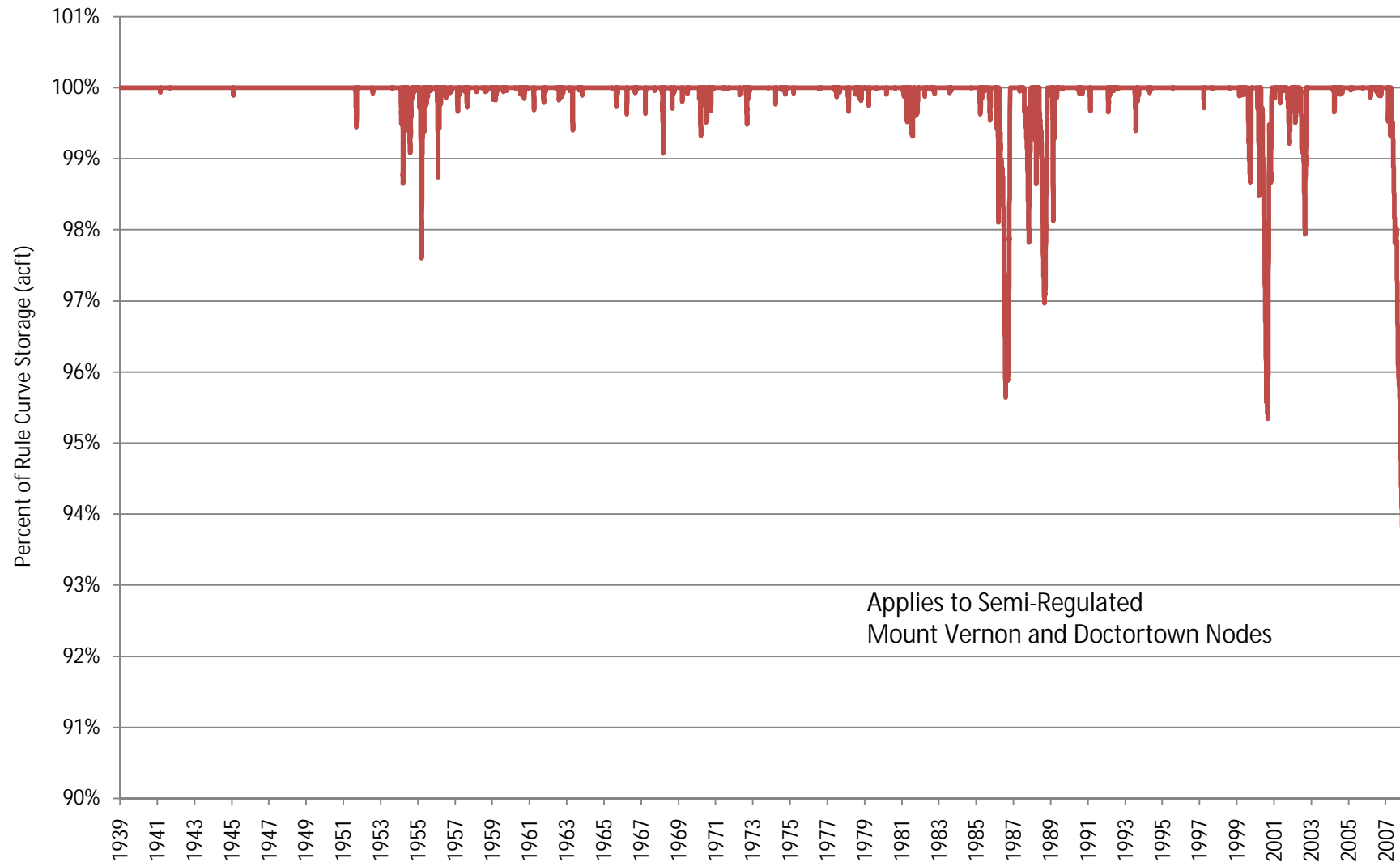
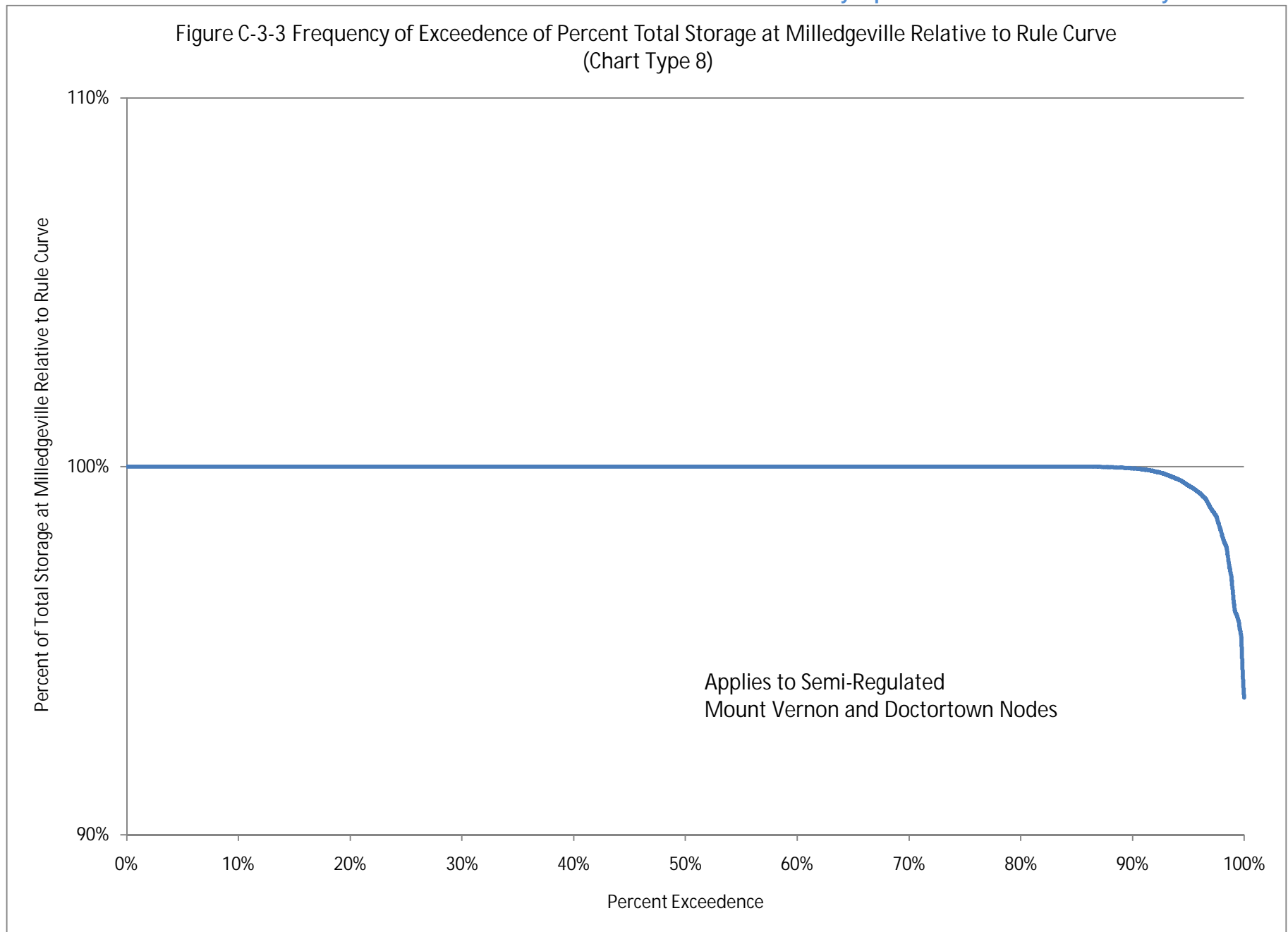


Figure C-3-3 Frequency of Exceedence of Percent Total Storage at Milledgeville Relative to Rule Curve
(Chart Type 8)



Synopsis of Surface Water Availability Assessment

Appendix D

Ochlockonee-Suwannee-Satilla-St. Mary's

Charts depicting flows and shortages relative to flow regime by planning node for current conditions model.

1. Quincy
2. Concord
3. Pinetta
4. Statenville
5. Atkinson
6. Jennings
7. Fargo
8. Gross

Synopsis of Surface Water Availability Assessment

Chart type 1 is a pie chart that shows the percentage of daily flows above and below the adjusted flow regime. The percentage of time above the adjusted flow regime is an indication of how often the flow regime can be met and withdrawals can be made.

Chart type 2 shows the percentage of time that flows are below the adjusted flow regime for each month of the year, indicating months in which water availability is most constrained. The higher the percentage, the more often there are shortfalls, hence more water availability constraints.

Chart type 3 shows certain monthly statistics during periods of shortfalls. Namely, average simulated river flows, average adjusted flow regime flows, and average unimpaired flows are shown by line plots. In addition, each month's average shortfall and the range between the largest and smallest shortfall are shown by bar plots. This chart shows the magnitude of a shortfall for a given month relative to the typical flows available during the month only on the days shortfalls occur. Flows for days without shortfalls are not included in generating these statistics.

Chart type 4 shows plots of monthly values of the adjusted flow regime and the 10-percentile (the lowest 10 percent of unimpaired flows), the 50-percentile (mid-range flows), and 90-percentile (all but the top 10 percent) flows. This range of percentiles covers dry, median, and wet conditions, respectively. The chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream if there were no effects of human development.

Chart type 5 shows plots of monthly values of the adjusted flow regime and the lowest 10 percent of simulated flows, i.e., 10-percentile flows, 50-percentile flows, and 90-percentile flows. This chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream under current condition assumptions.

AFR = Adjusted Flow Regime

Figure D-1-1 Average Percentage of Flow Compared to Flow Regime at Quincy (Chart Type 1)

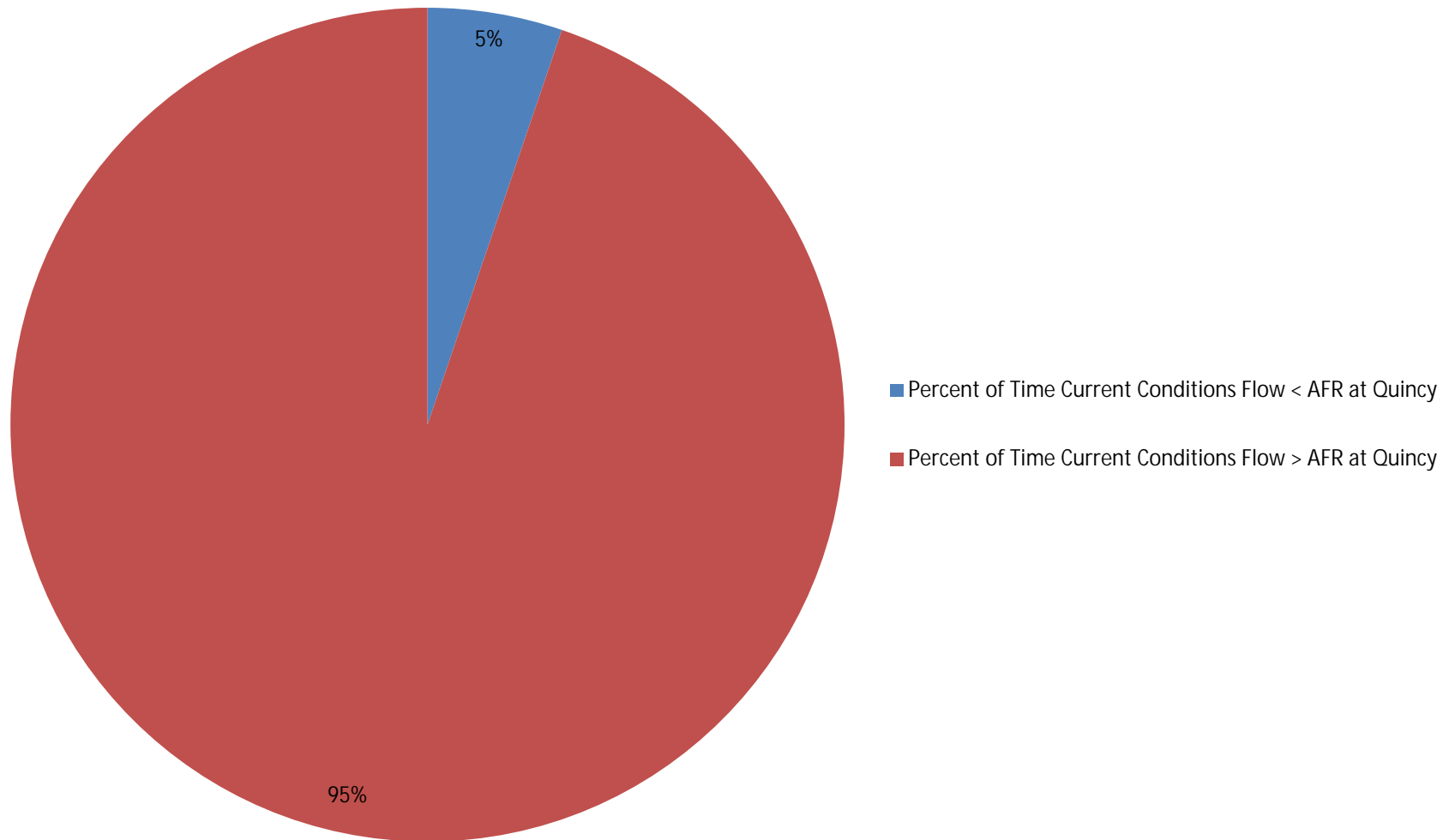


Figure D-1-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Quincy (Chart Type 2)

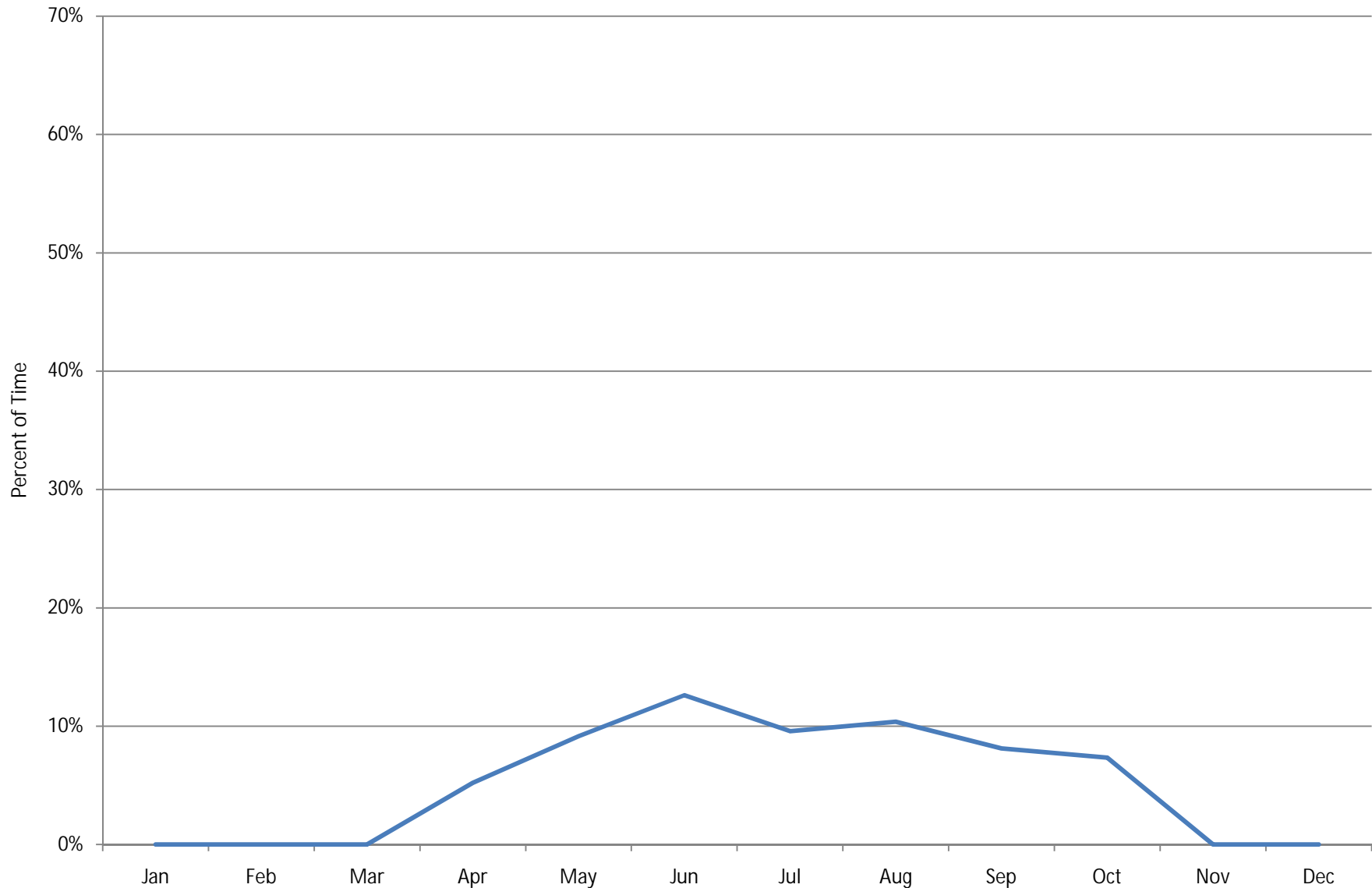


Figure D-1-3 Range of Deficit of Flow Regime at Quincy (Chart Type 3)

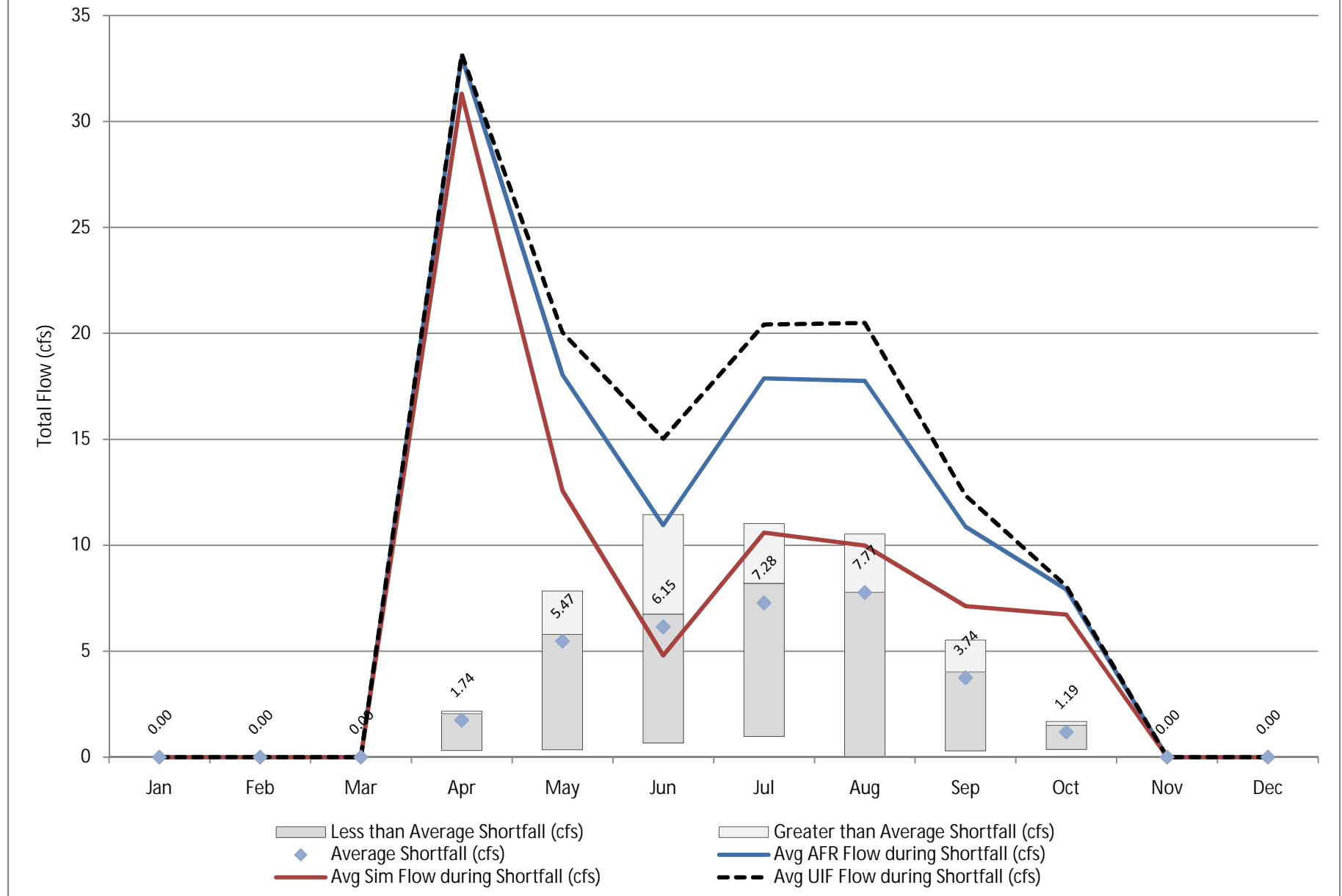


Figure D-1-4 Unimpaired Monthly Range of Flow at Quincy (Chart Type 4)

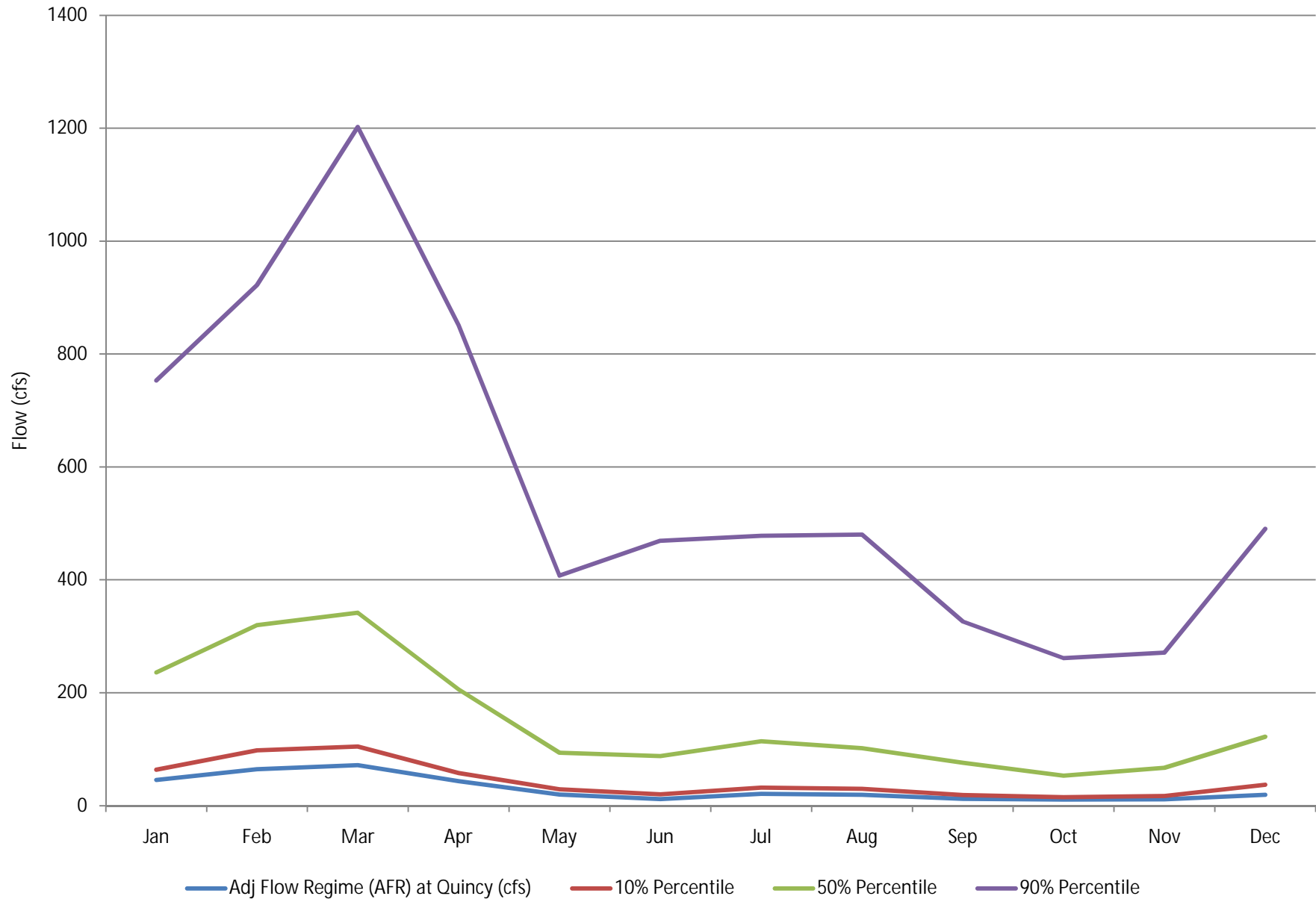


Figure D-1-5 Simulated Monthly Range of Flow at Quincy (Chart Type 5)

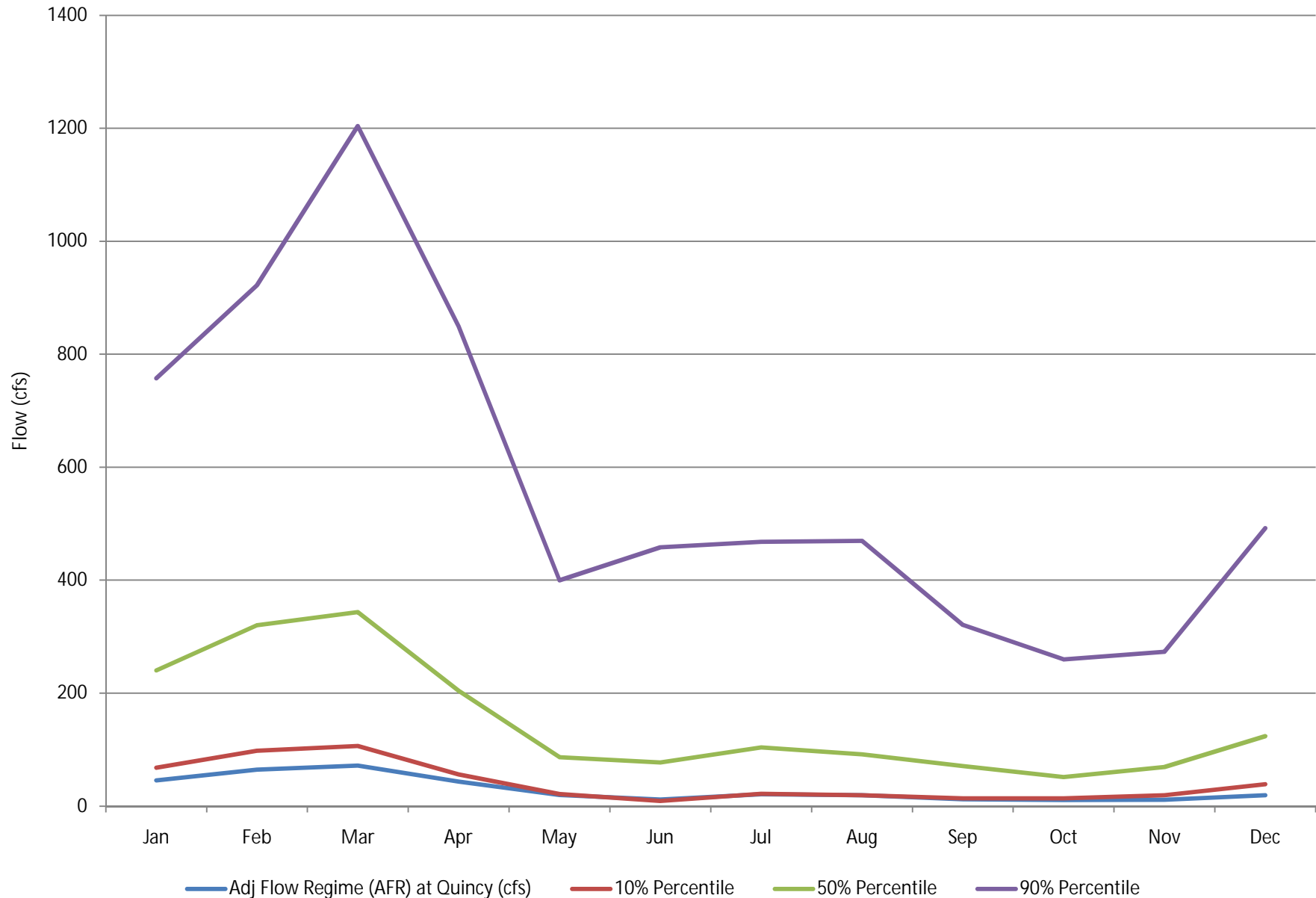


Figure D-2-1 Average Percentage of Flow Compared to Flow Regime at Concord (Chart Type 1)

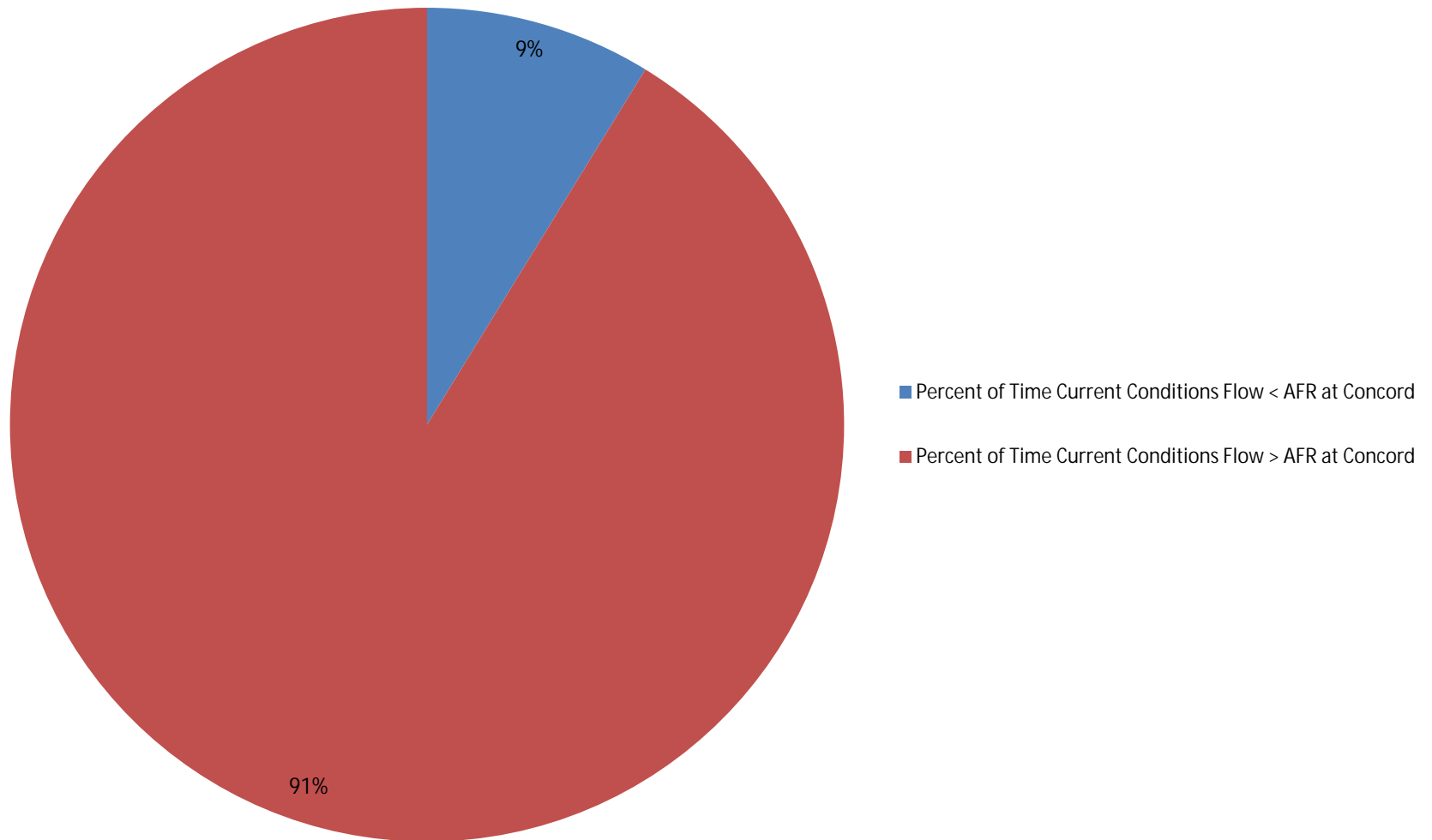


Figure D-2-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Concord (Chart Type 2)

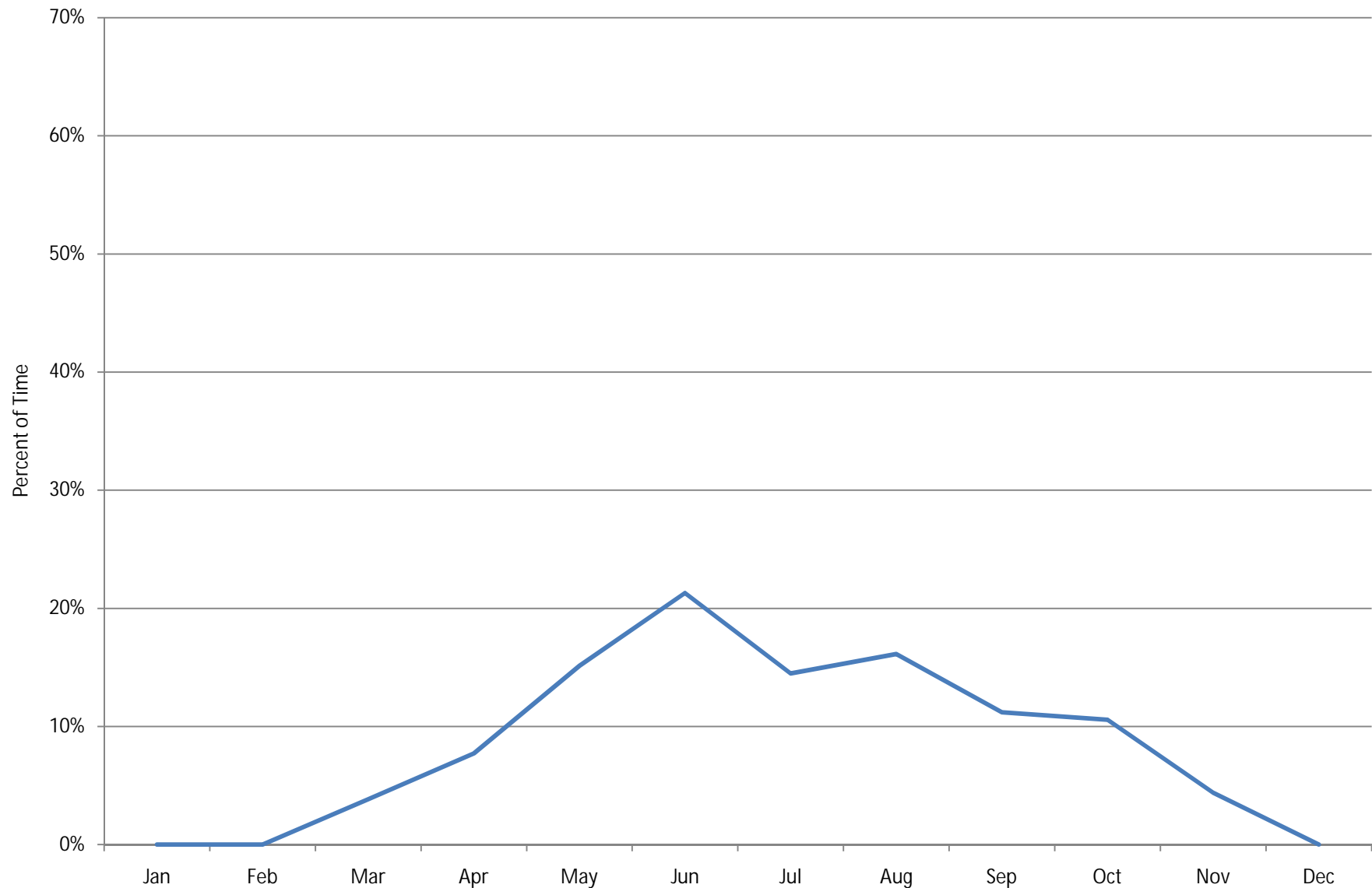


Figure D-2-3 Range of Deficit of Flow Regime at Concord (Chart Type 3)

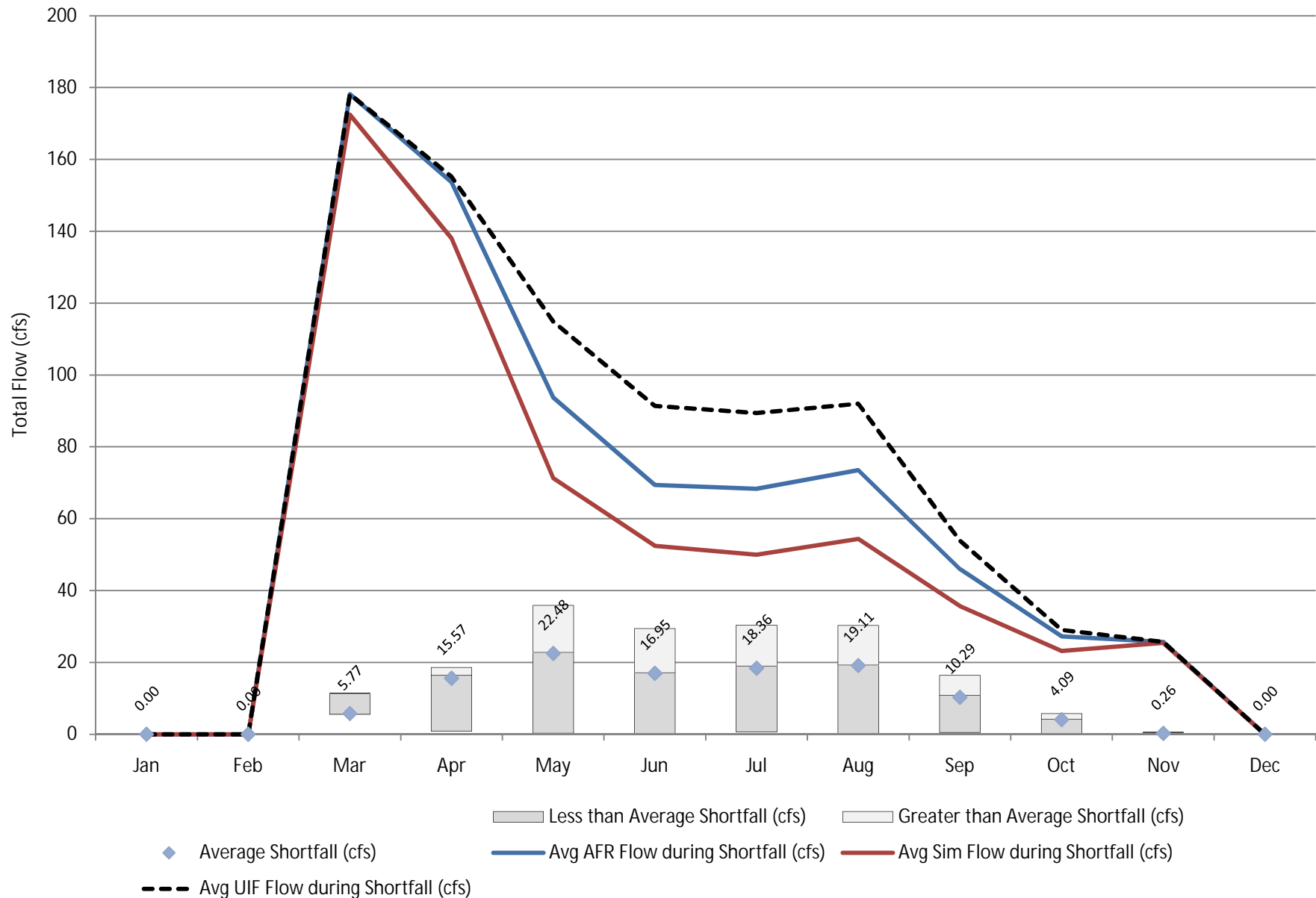


Figure D-2-4 Unimpaired Monthly Range of Flow at Concord (Chart Type 4)

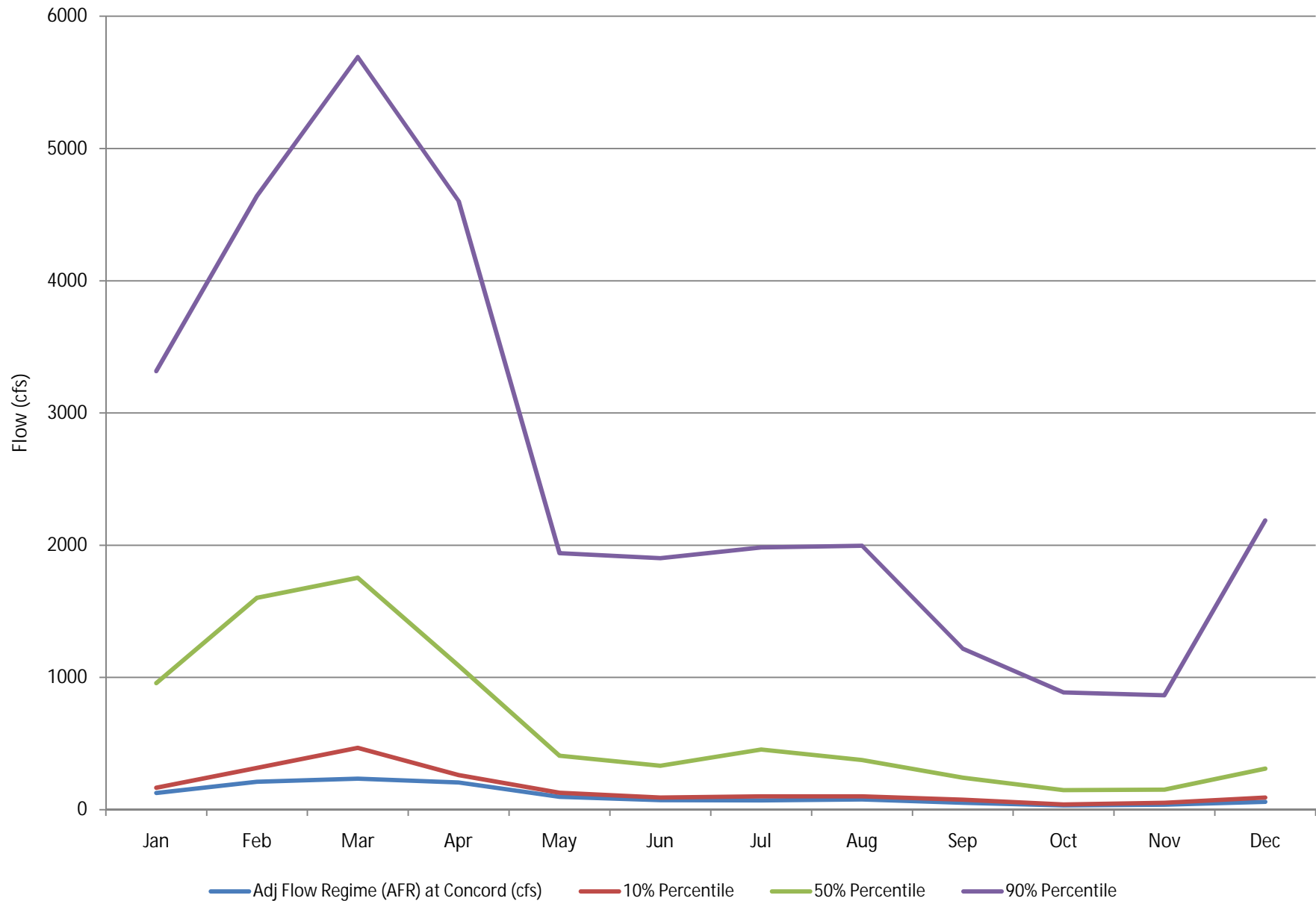


Figure D-2-5 Simulated Monthly Range of Flow at Concord (Chart Type 5)

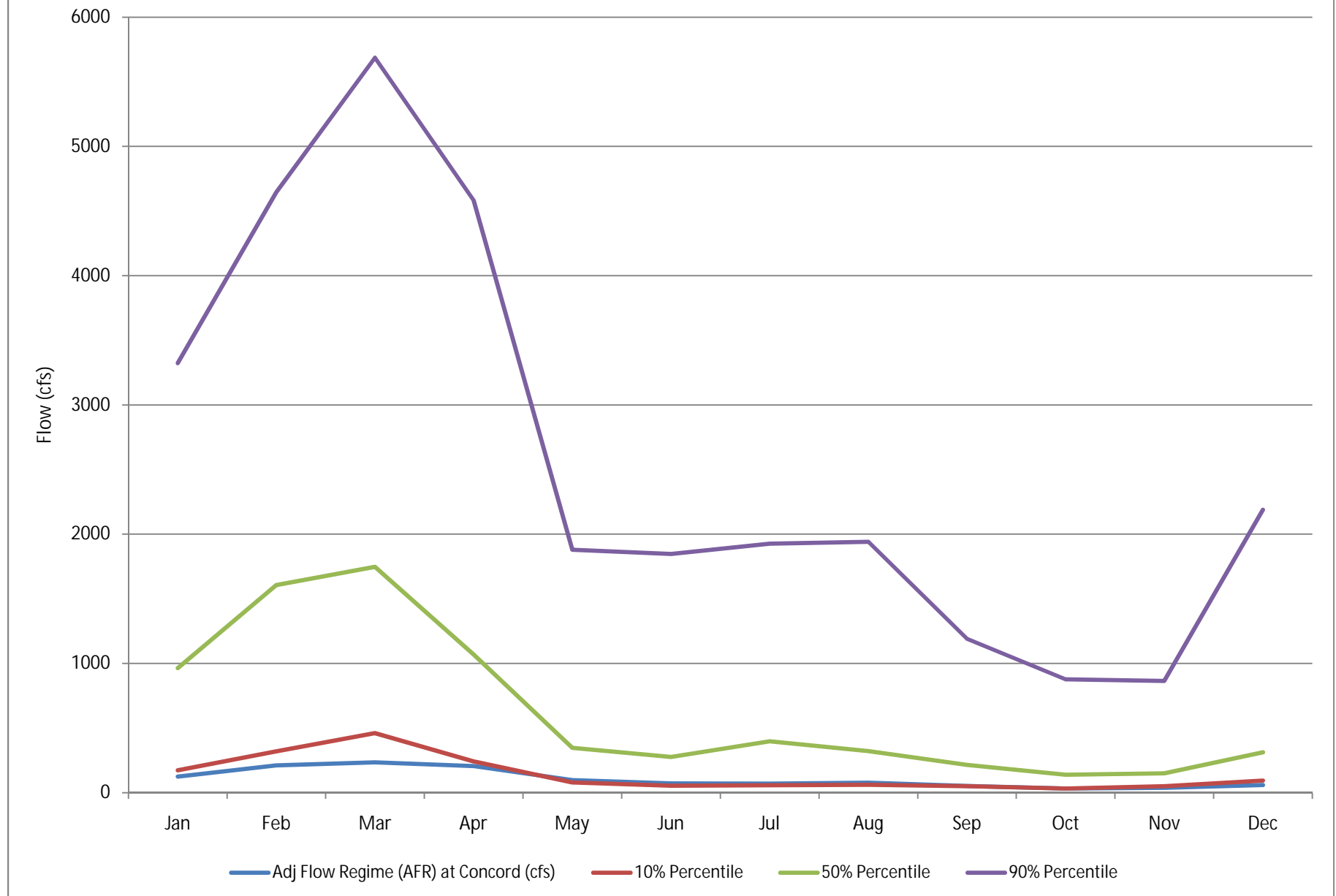


Figure D-3-1 Average Percentage of Flow Compared to Flow Regime at Pinetta (Chart Type 1)

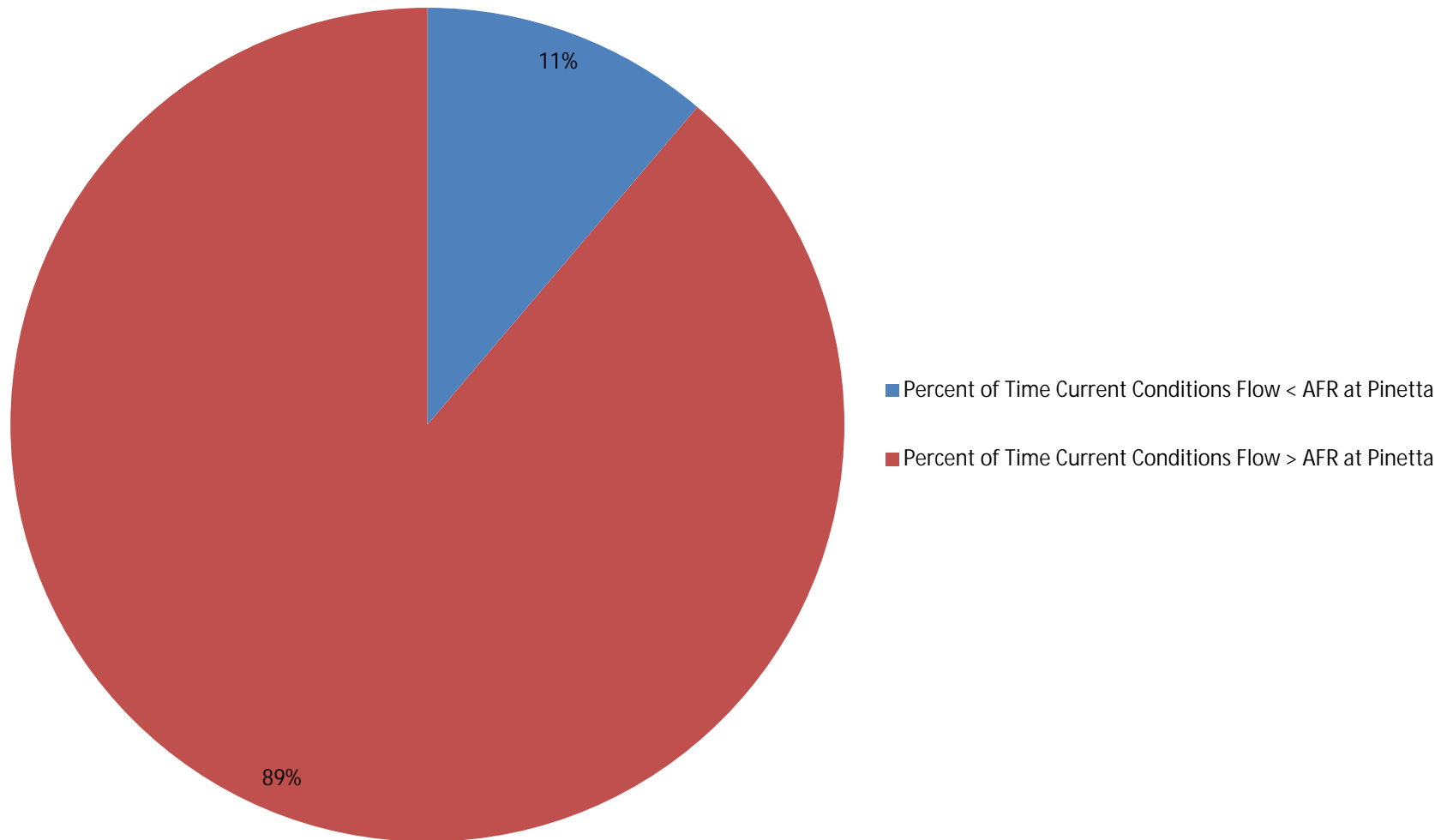


Figure D-3-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Pinetta (Chart Type 2)

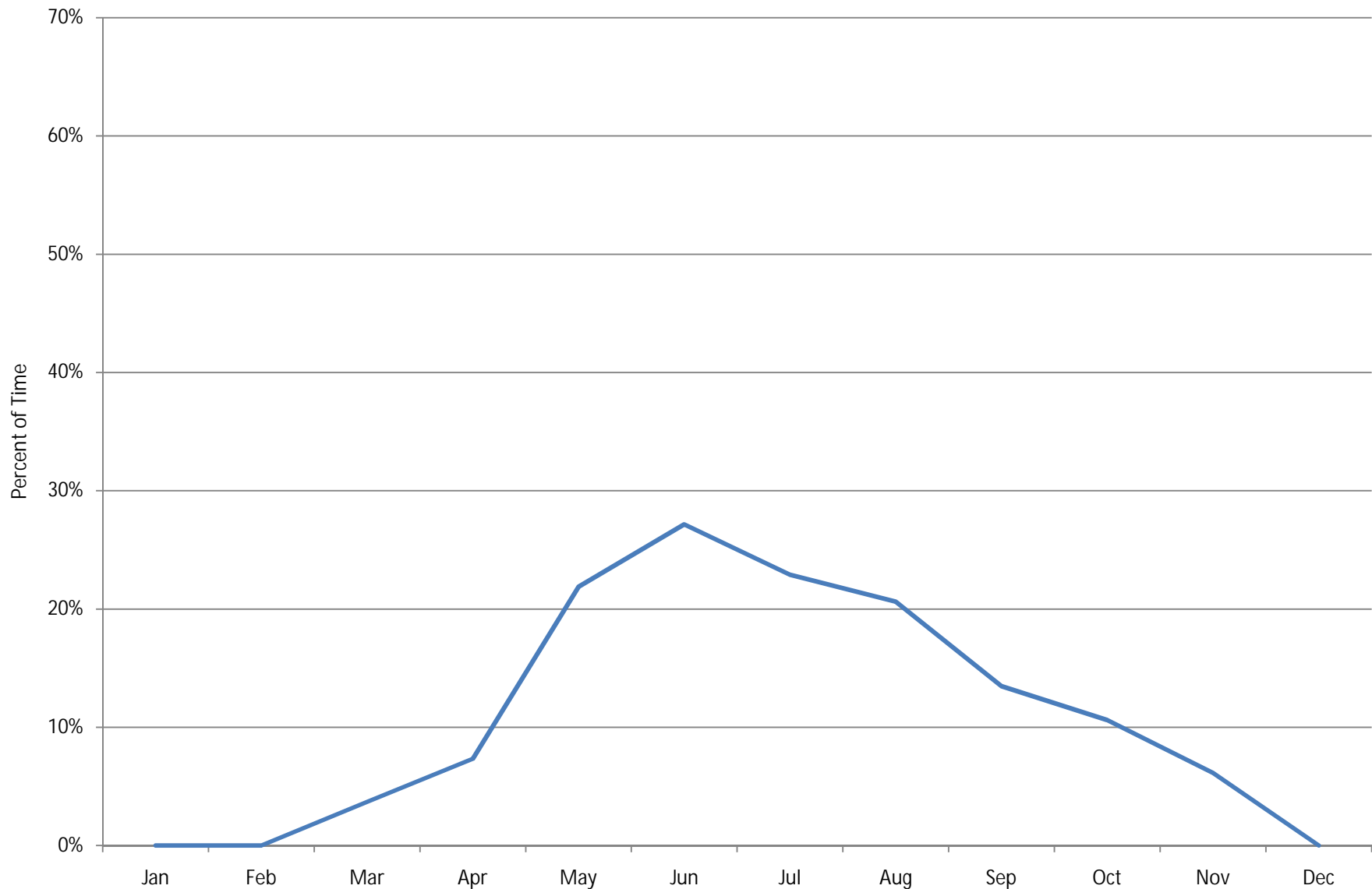


Figure D-3-3 Range of Deficit of Flow Regime at Pinetta (Chart Type 3)

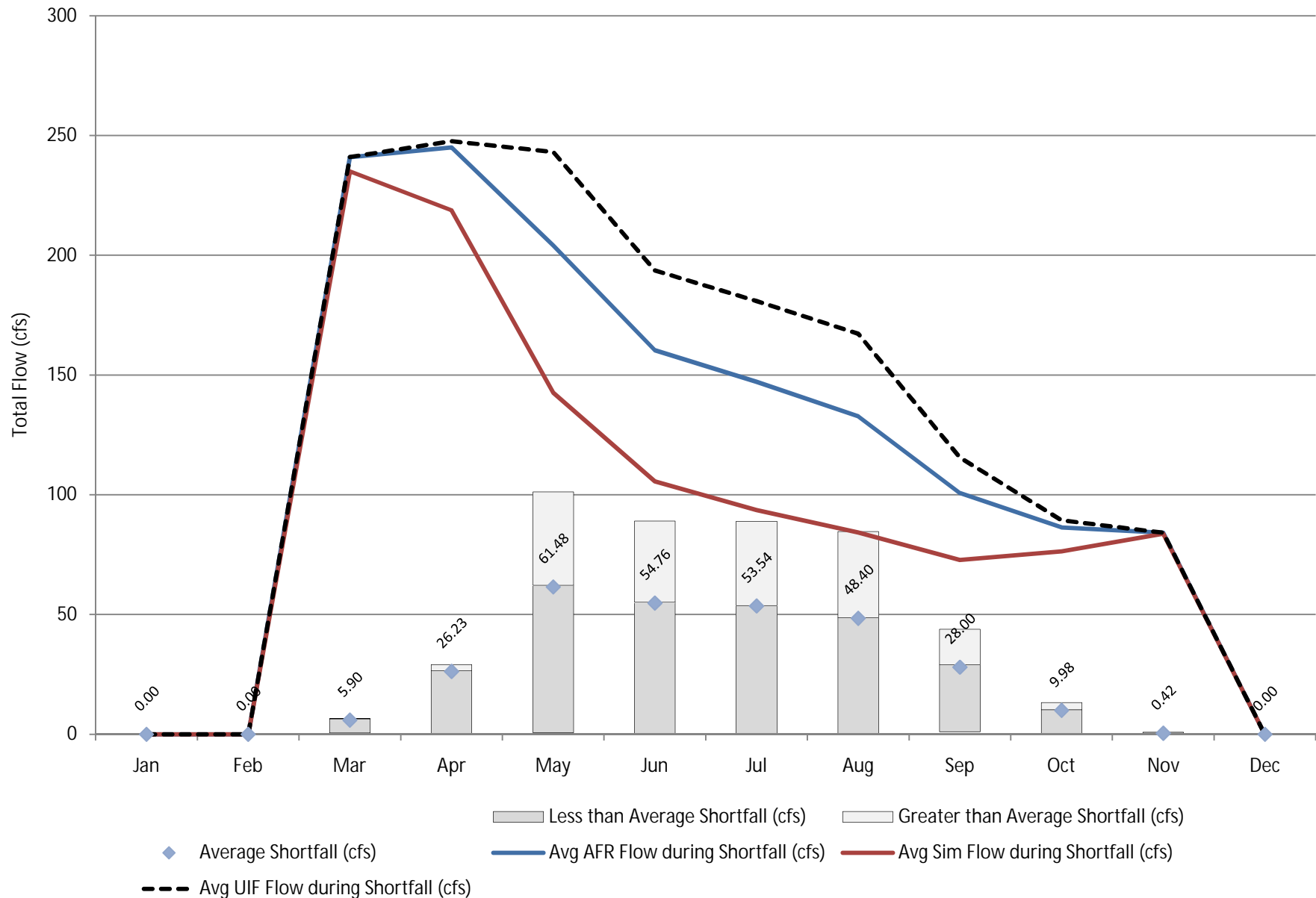


Figure D-3-4 Unimpaired Monthly Range of Flow at Pinetta (Chart Type 4)

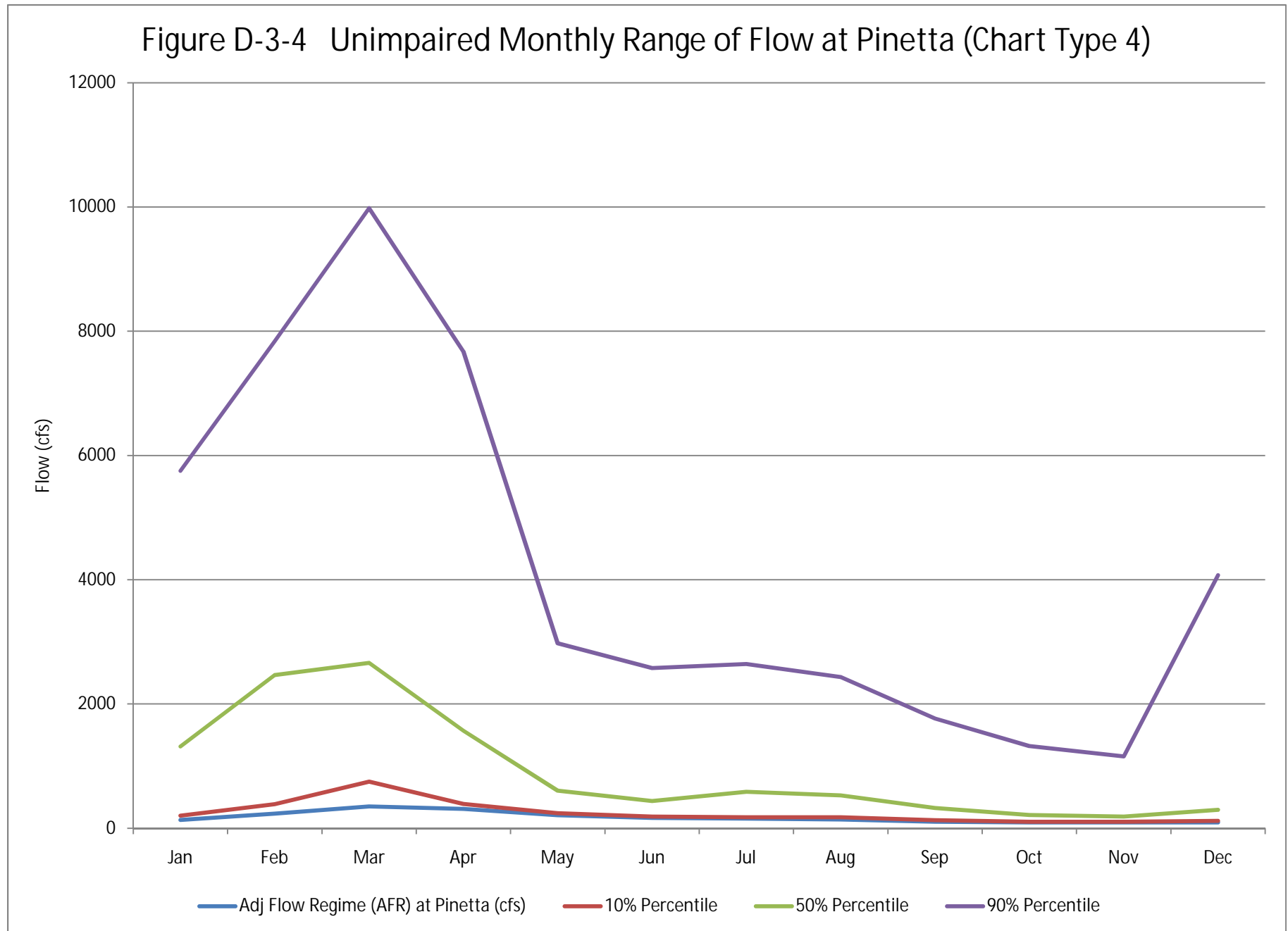


Figure D-3-5 Simulated Monthly Range of Flow at Pinetta (Chart Type 5)

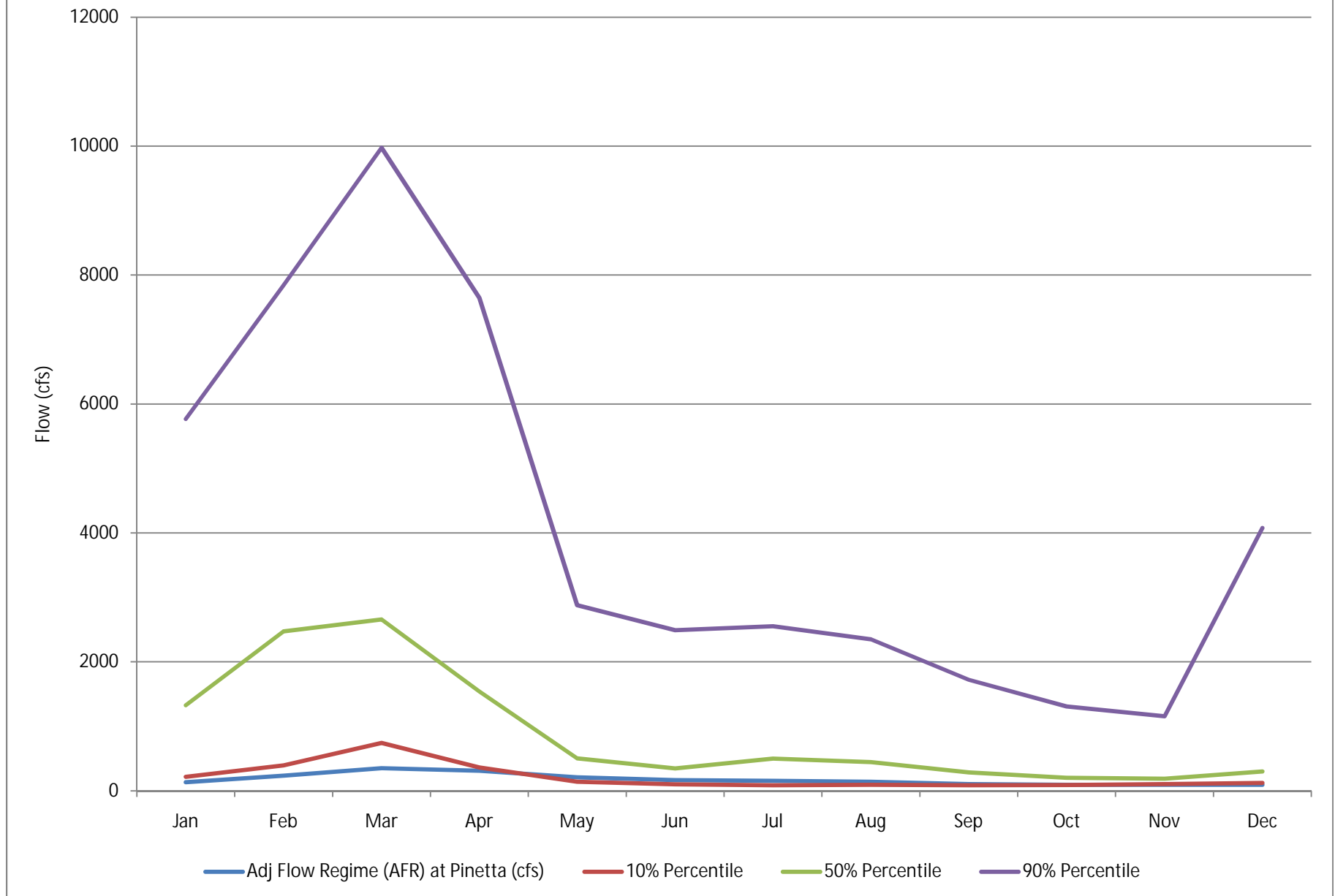


Figure D-4-1 Average Percentage of Flow Compared to Flow Regime at Statenville (Chart Type 1)

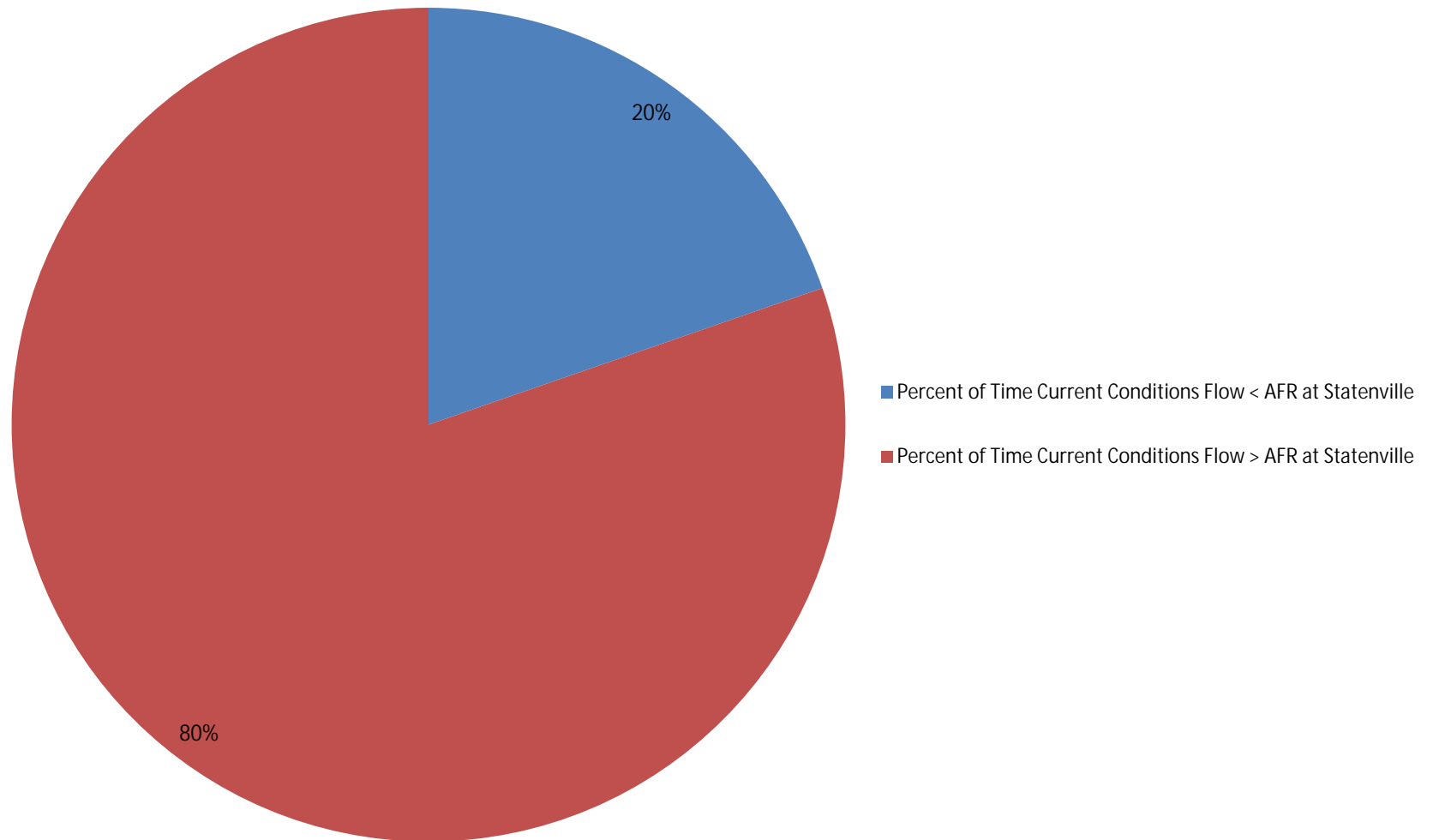


Figure D-4-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Statenville (Chart Type 2)

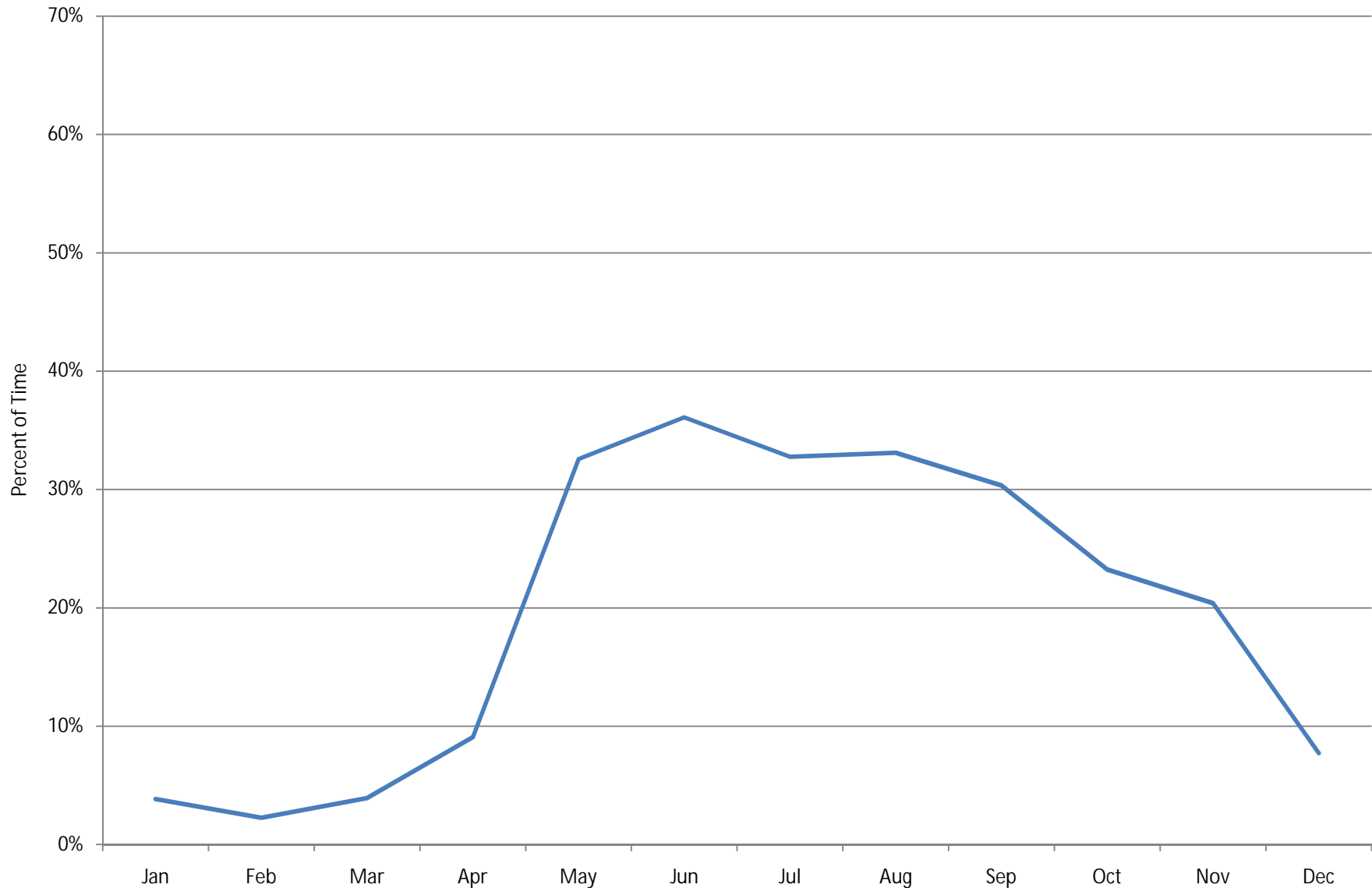


Figure D-4-3 Range of Deficit of Flow Regime at Statenville (Chart Type 3)

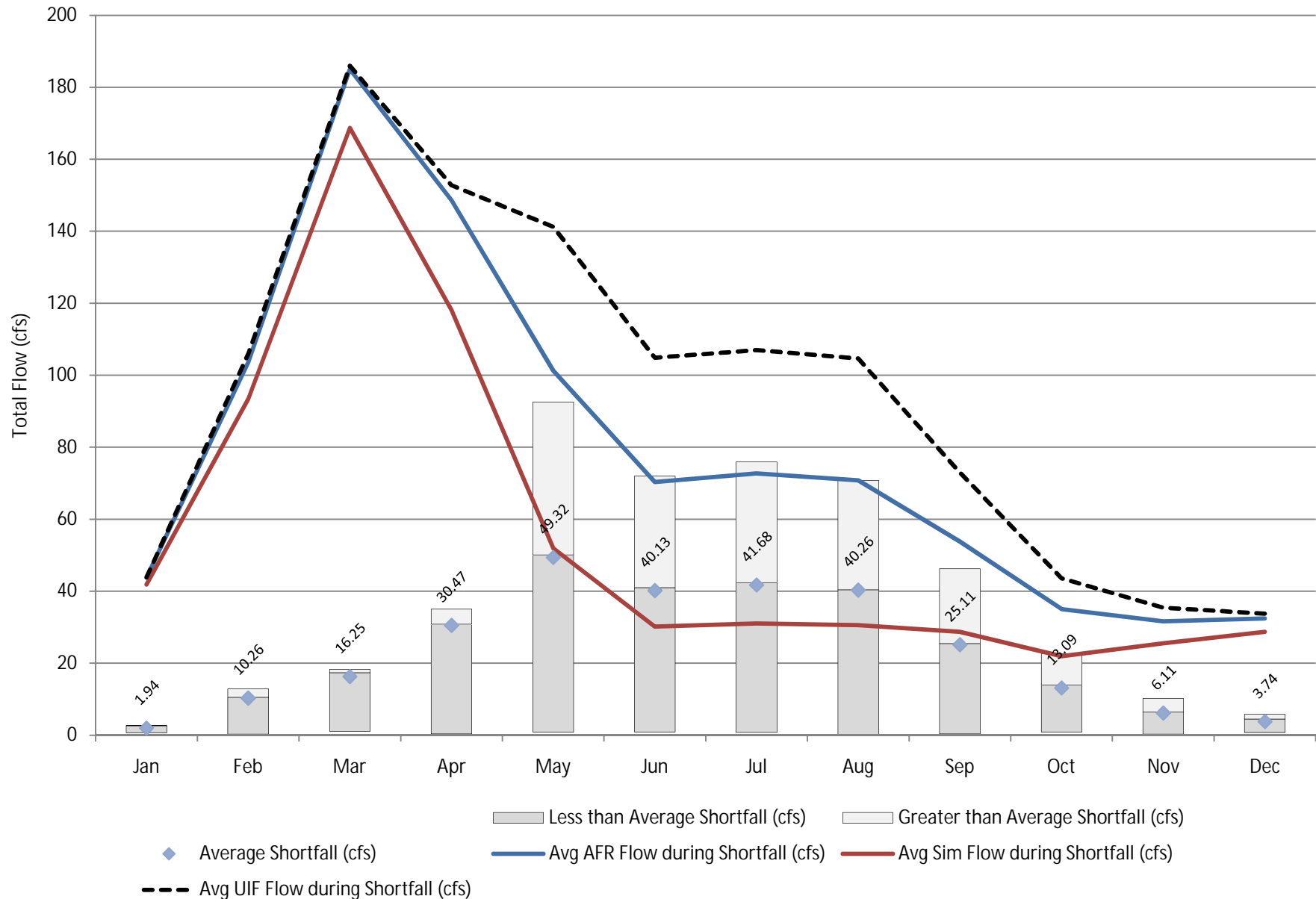


Figure D-4-4 Unimpaired Monthly Range of Flow at Statenville (Chart Type 4)

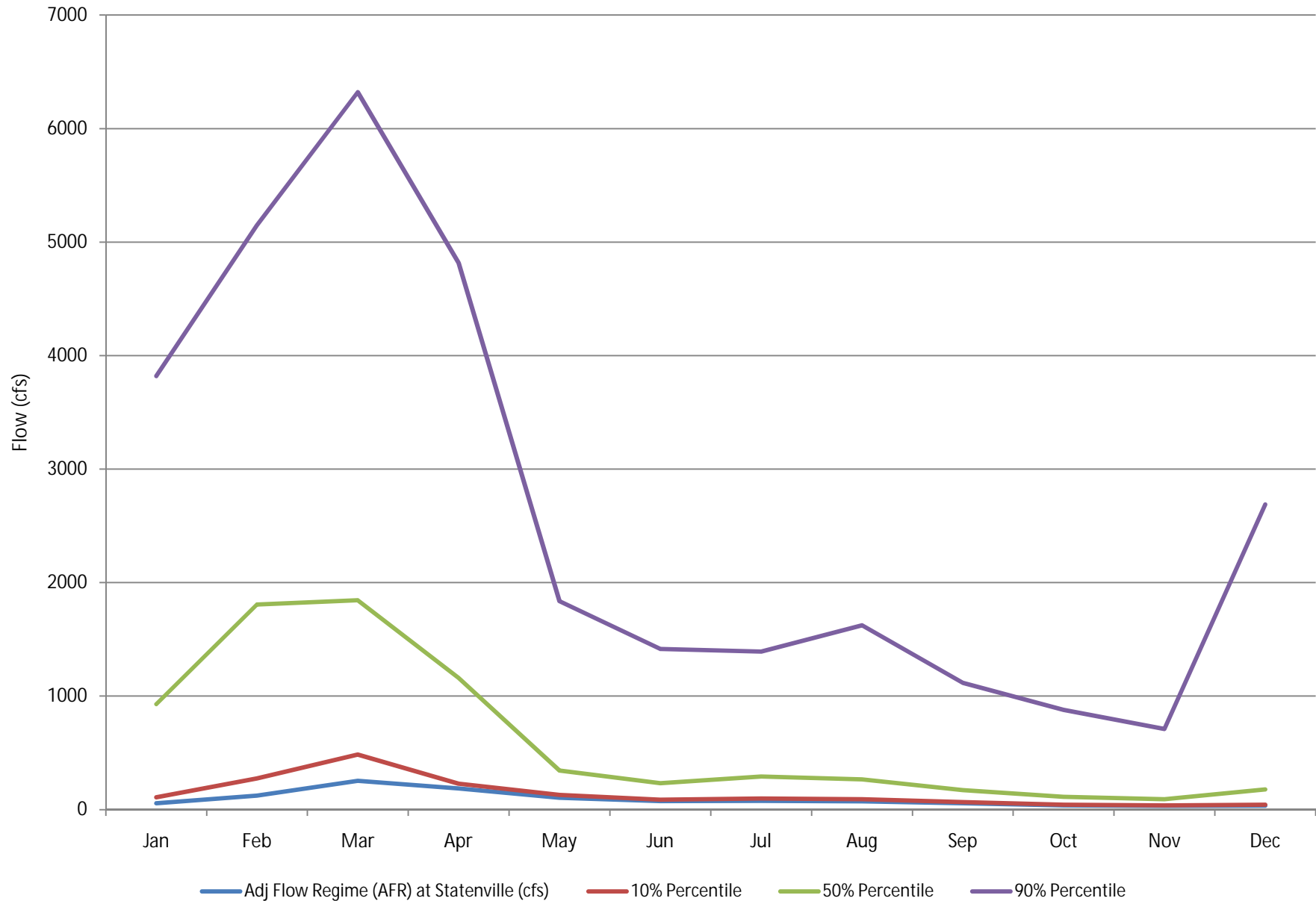


Figure D-4-5 Simulated Monthly Range of Flow at Statenville (Chart Type 5)

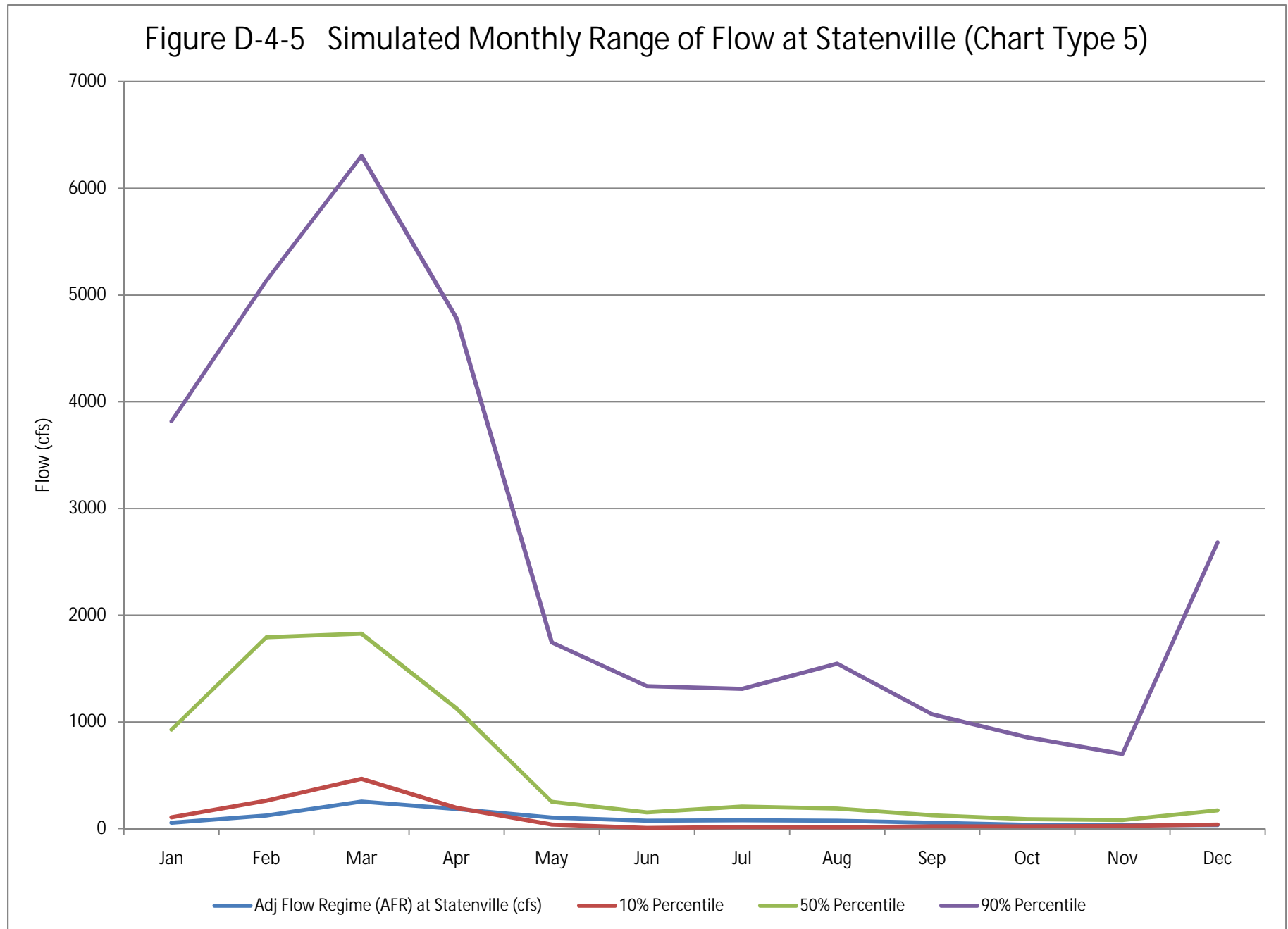


Figure D-5-1 Average Percentage of Flow Compared to Flow Regime at Atkinson (Chart Type 1)

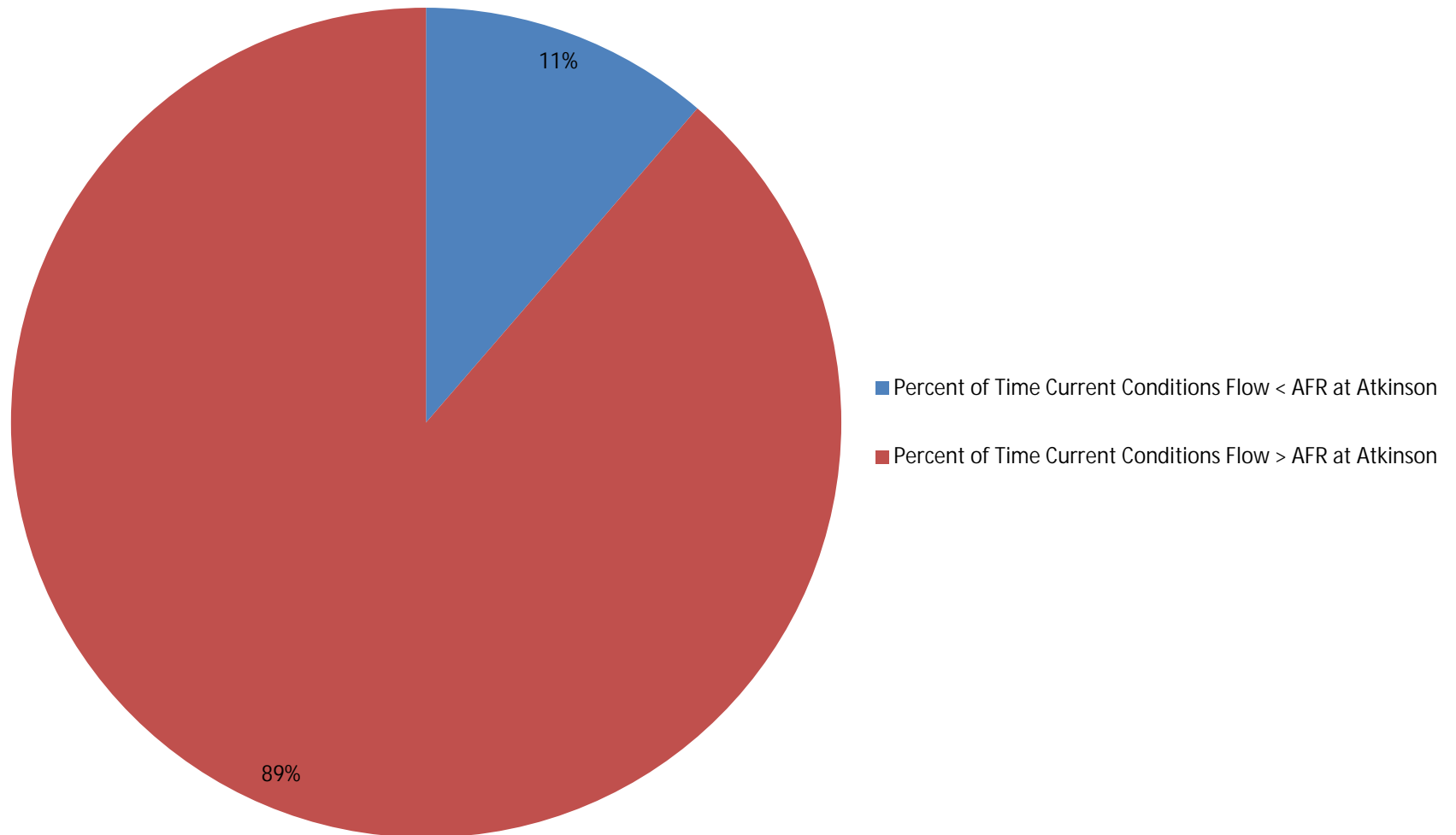


Figure D-5-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Atkinson (Chart Type 2)

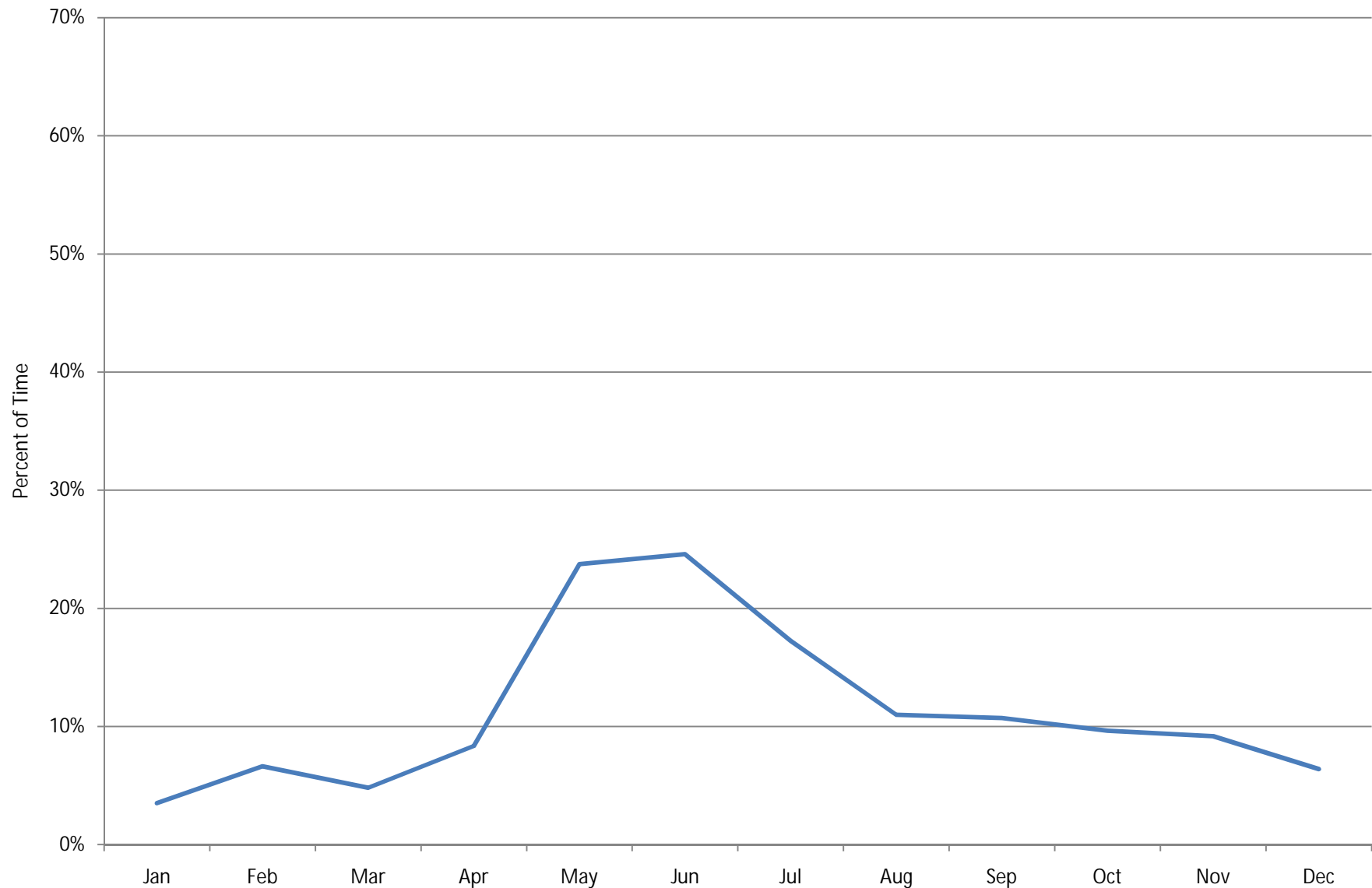


Figure D-5-3 Range of Deficit of Flow Regime at Atkinson (Chart Type 3)

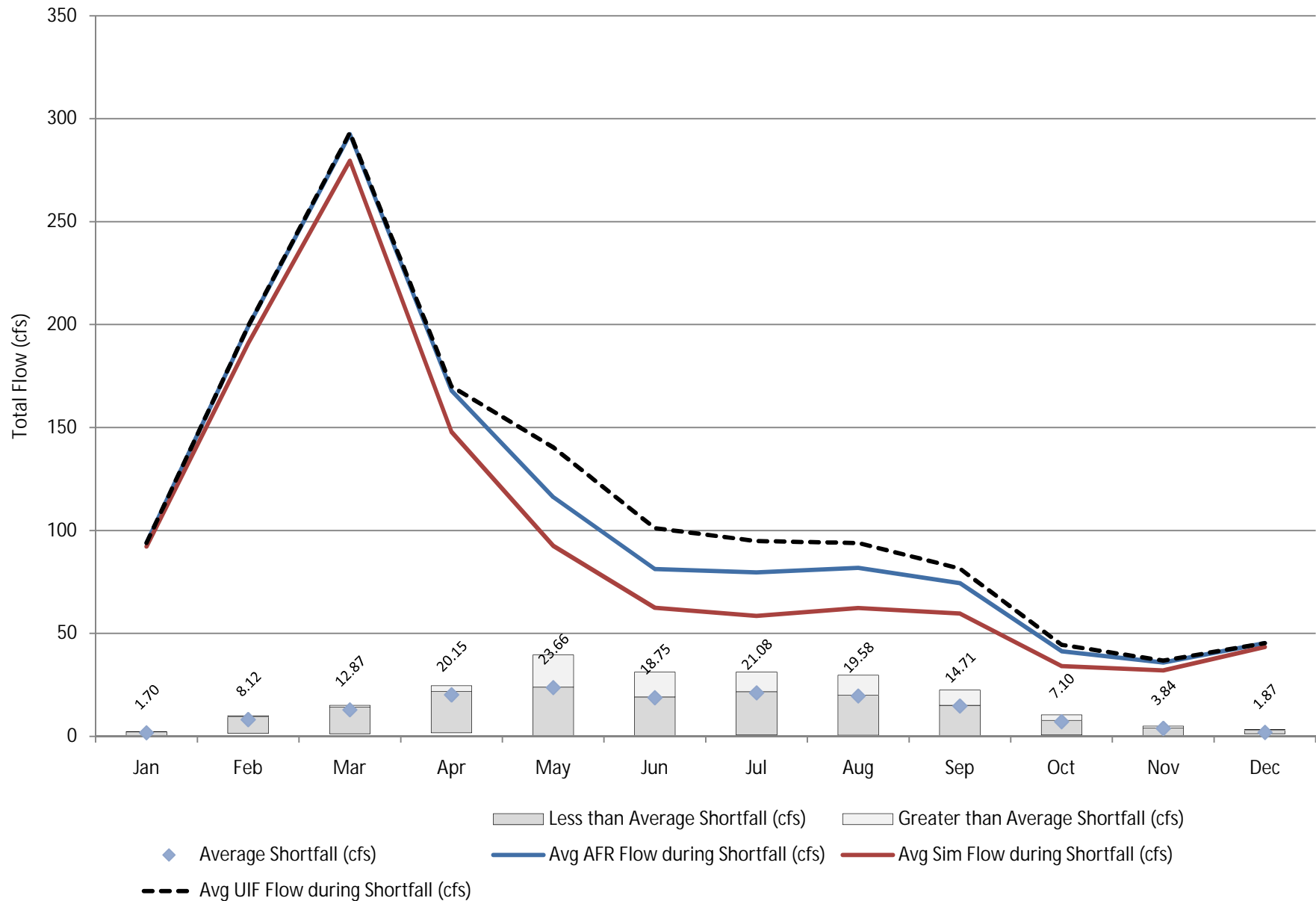


Figure D-5-4 Unimpaired Monthly Range of Flow at Atkinson (Chart Type 4)

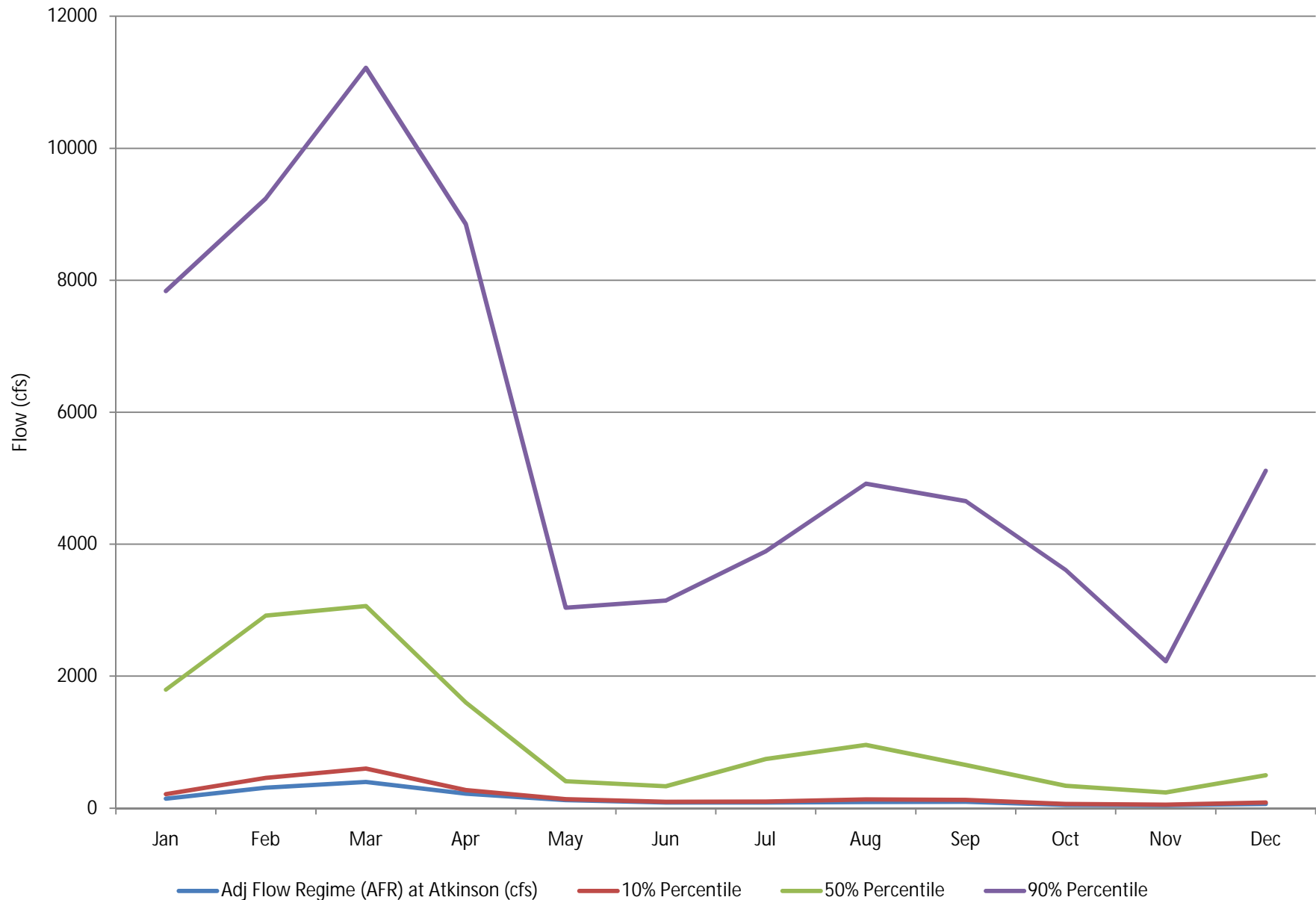


Figure D-5-5 Simulated Monthly Range of Flow at Atkinson (Chart Type 5)



Figure D-6-1 Average Percentage of Flow Compared to Flow Regime at Jennings (Chart Type 1)

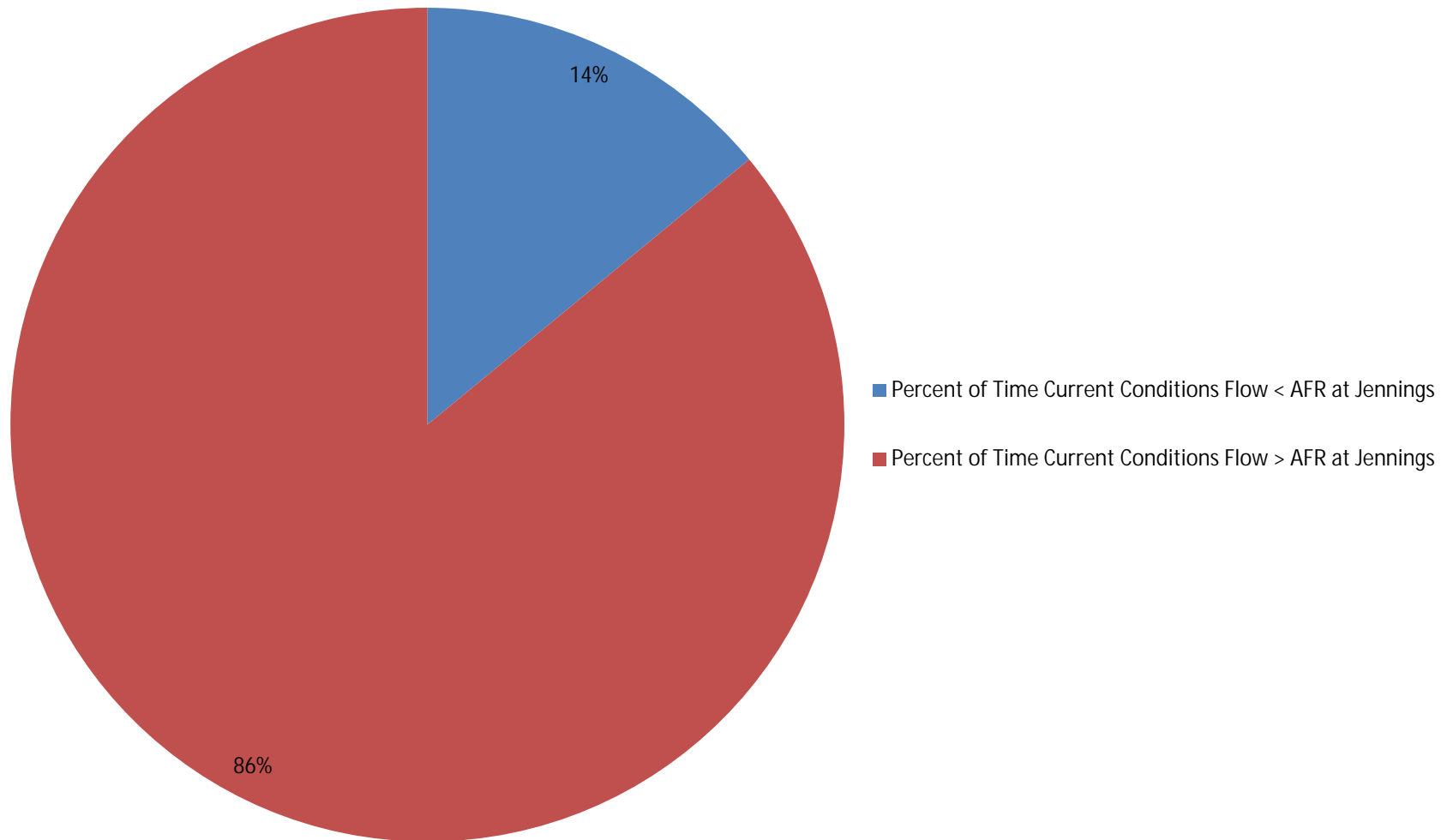


Figure D-6-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Jennings (Chart Type 2)

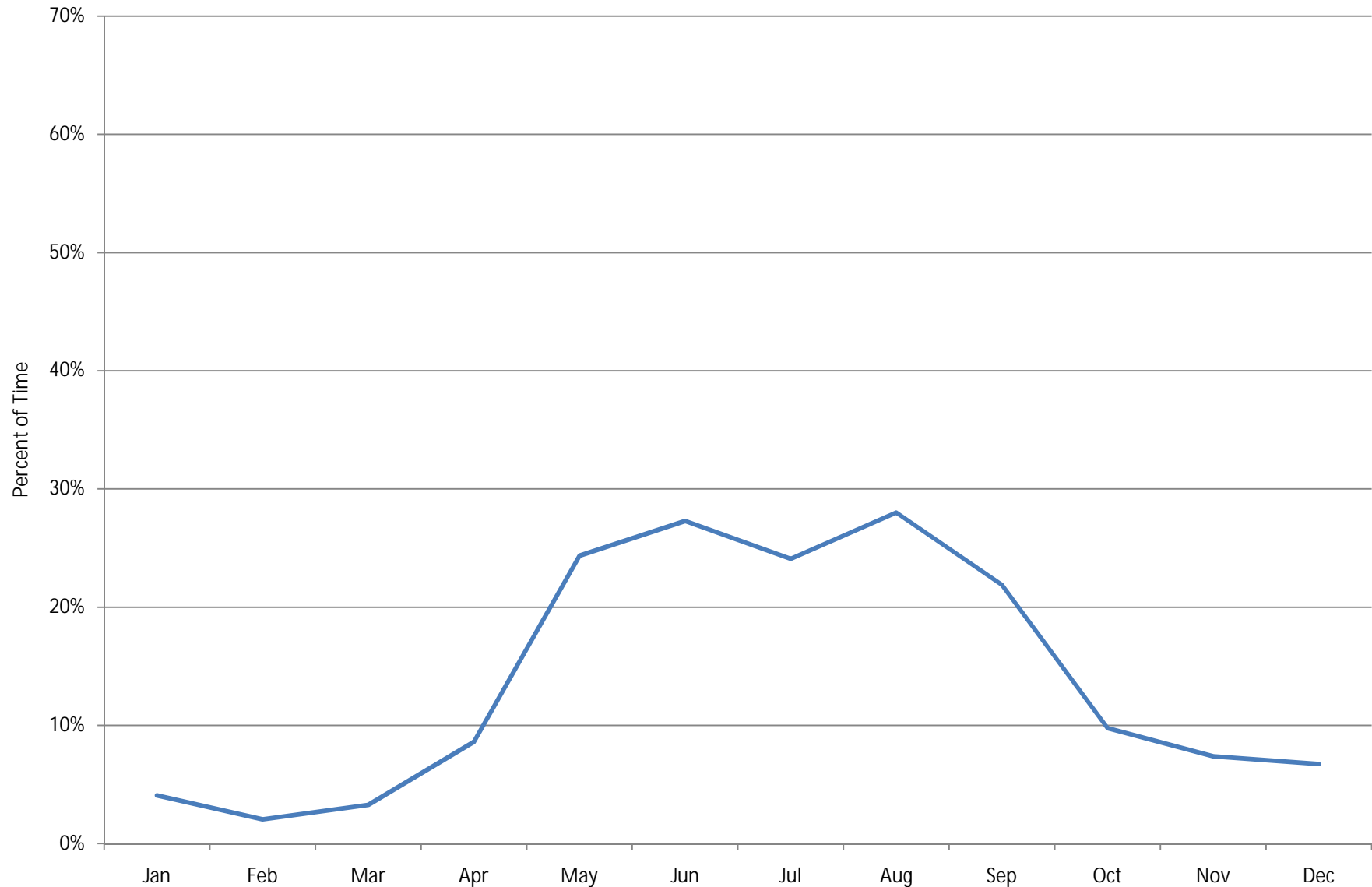


Figure D-6-3 Range of Deficit of Flow Regime at Jennings (Chart Type 3)

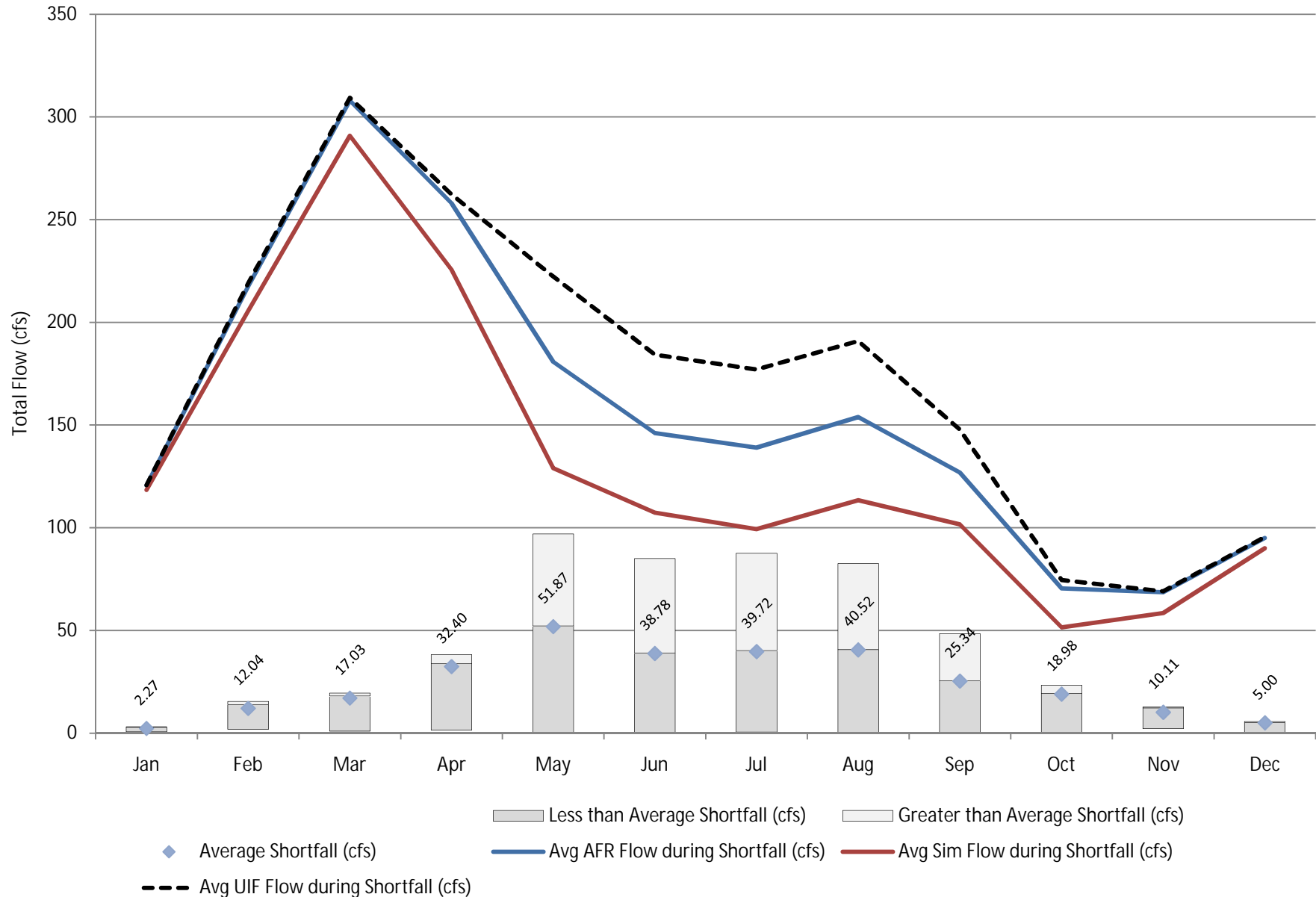


Figure D-6-4 Unimpaired Monthly Range of Flow at Jennings (Chart Type 4)

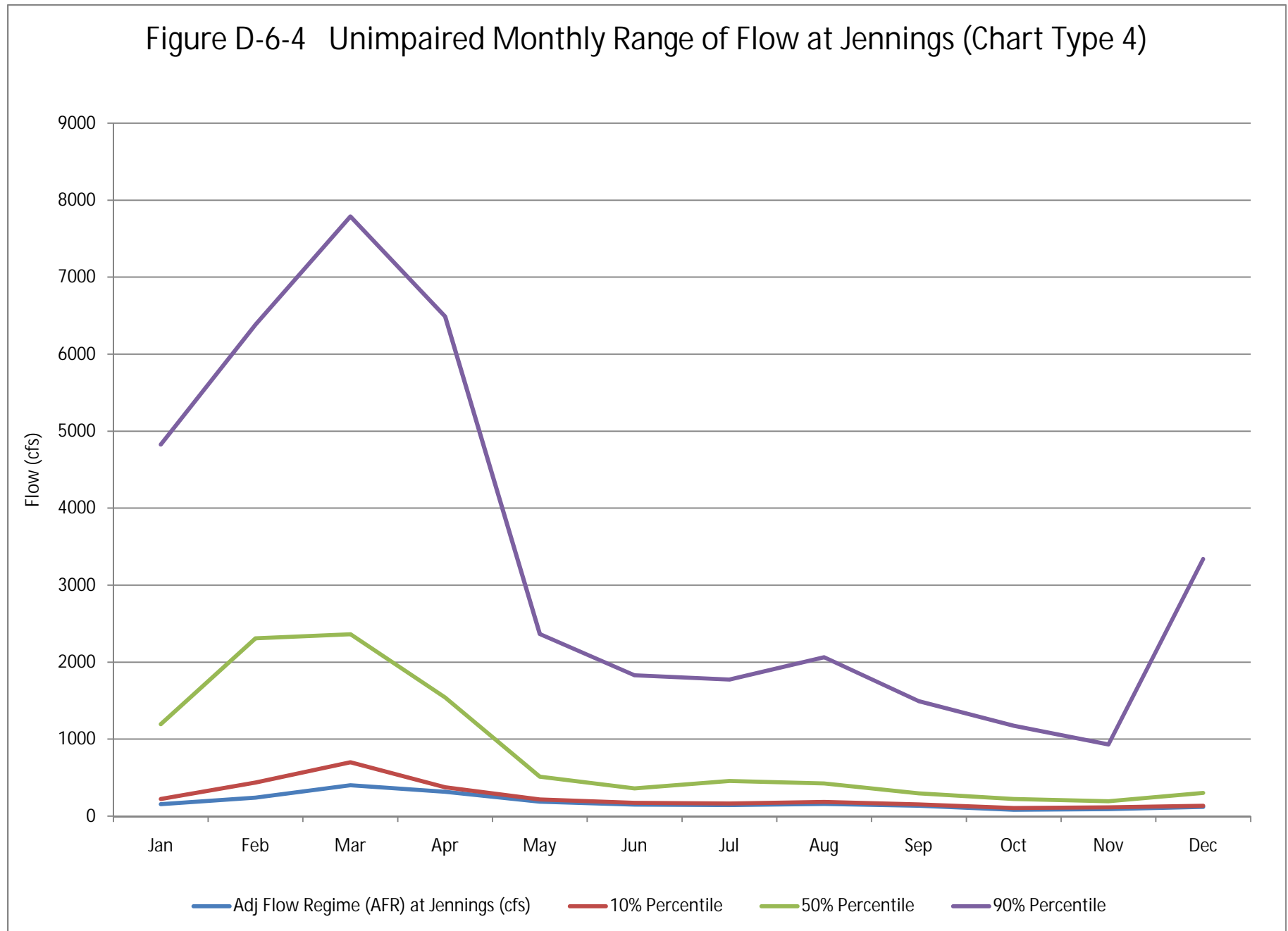


Figure D-6-5 Simulated Monthly Range of Flow at Jennings (Chart Type 5)

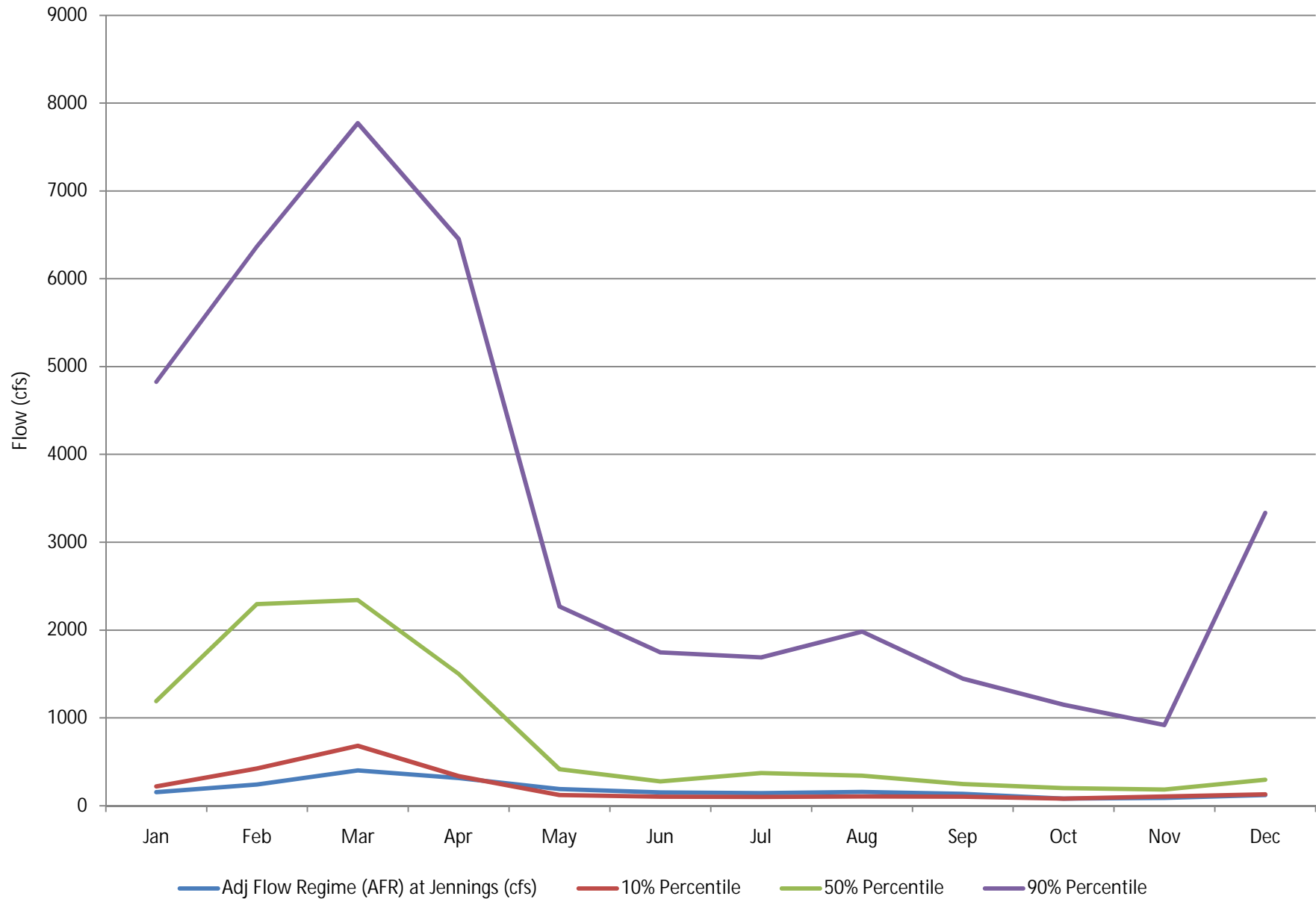


Figure D-7-1 Average Percentage of Flow Compared to Flow Regime at Fargo (Chart Type 1)

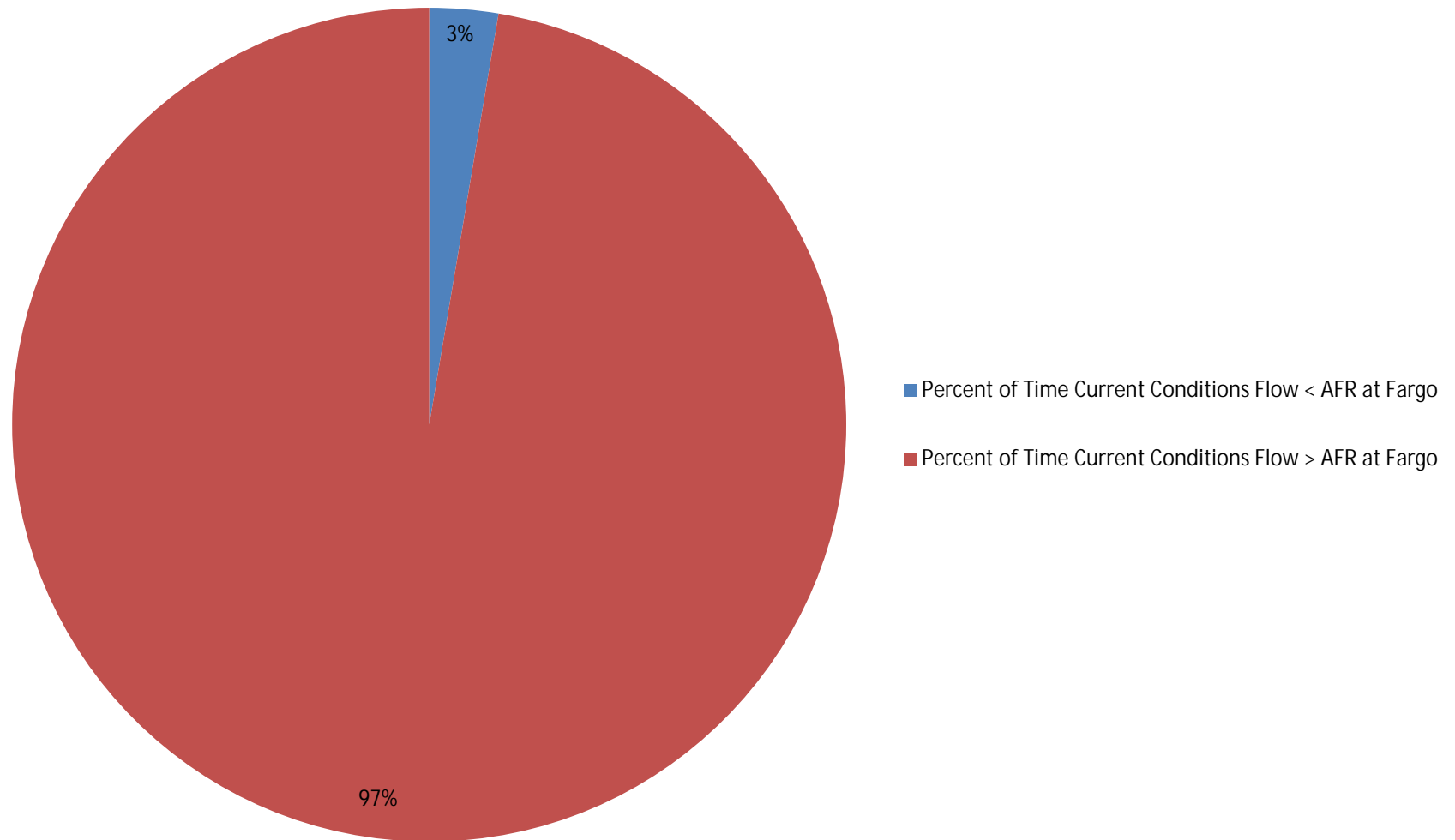


Figure D-7-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Fargo (Chart Type 2)

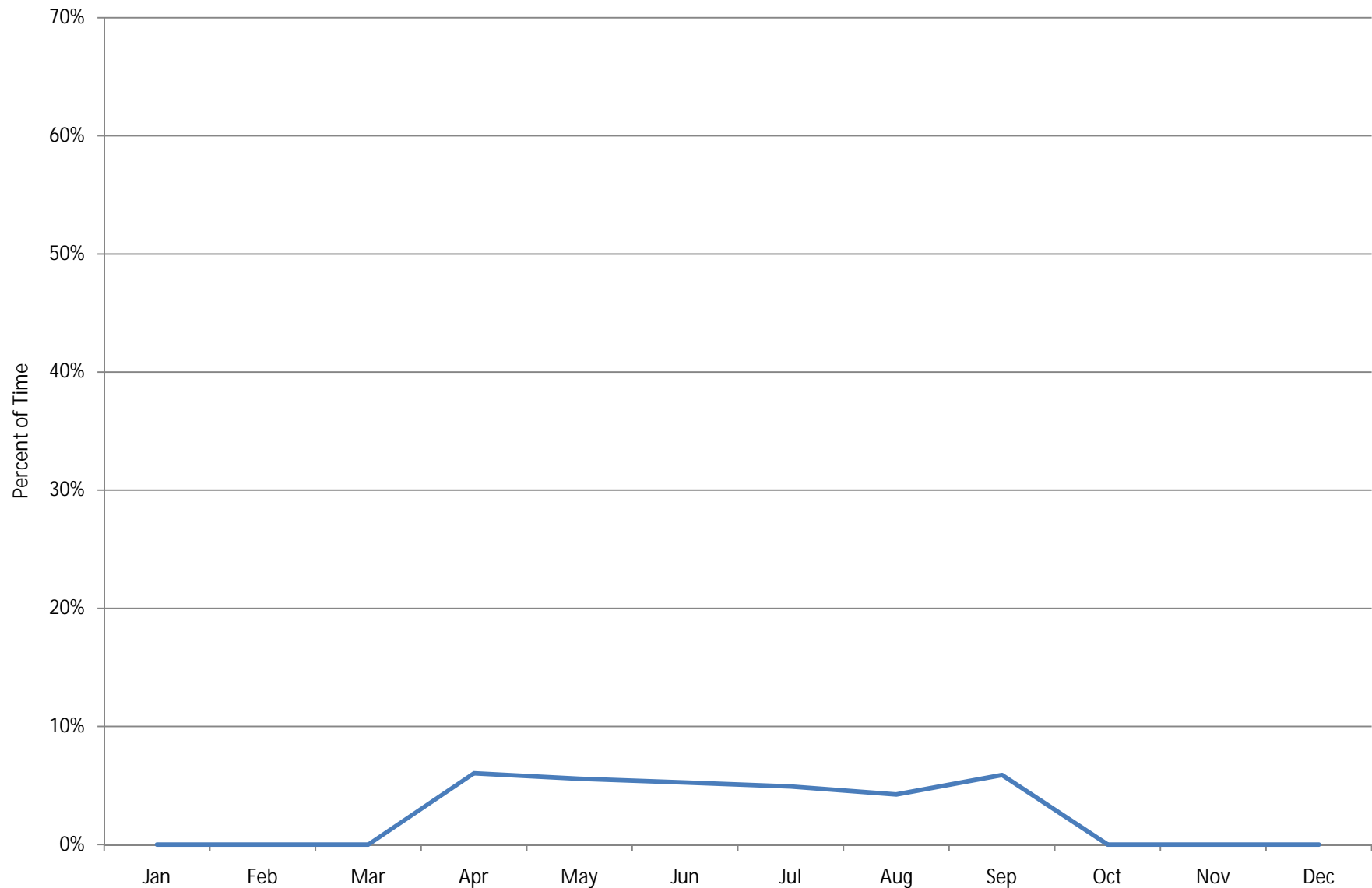


Figure D-7-3 Range of Deficit of Flow Regime at Fargo (Chart Type 3)

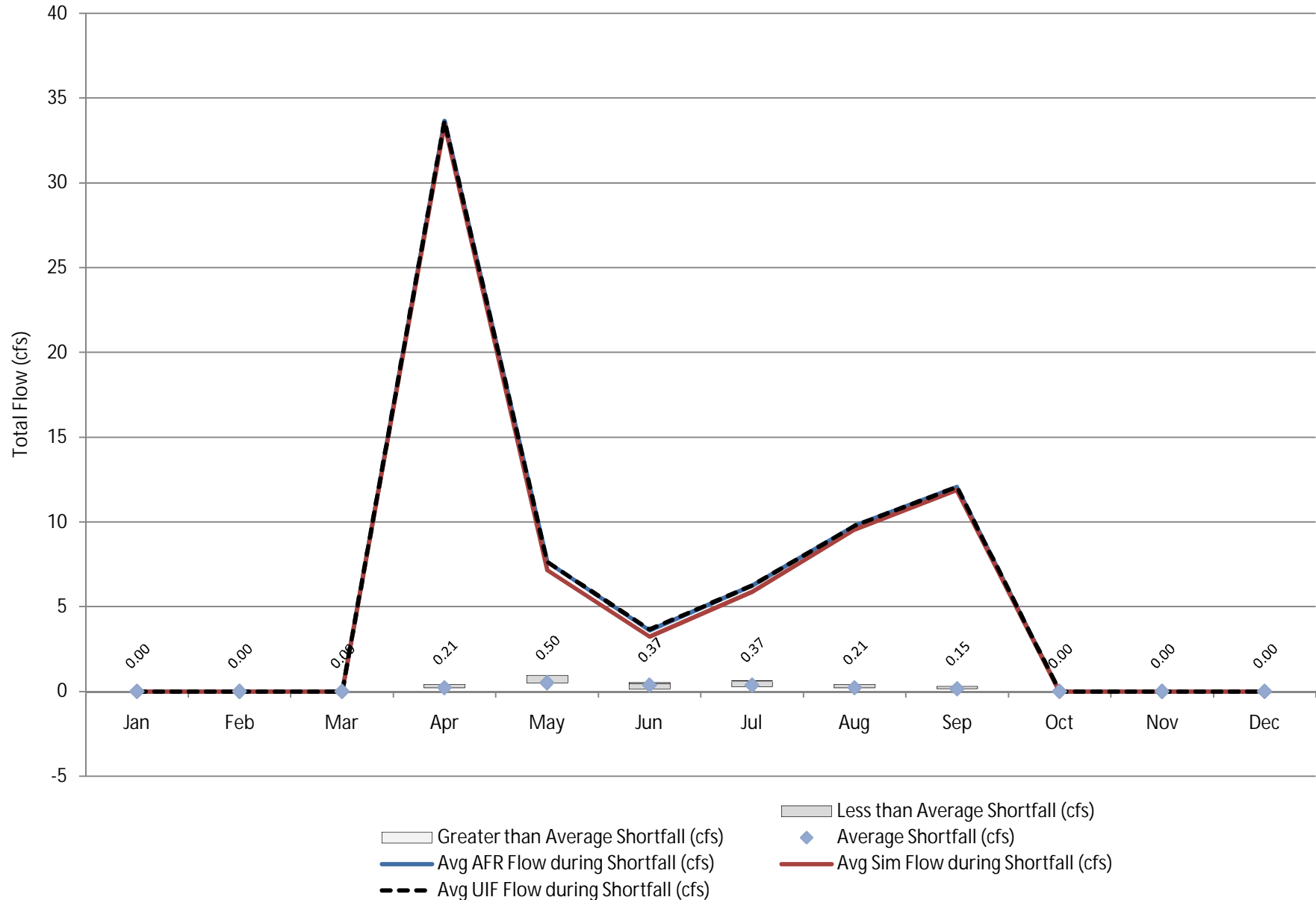


Figure D-7-4 Unimpaired Monthly Range of Flow at Fargo (Chart Type 4)



Figure D-7-5 Simulated Monthly Range of Flow at Fargo (Chart Type 5)

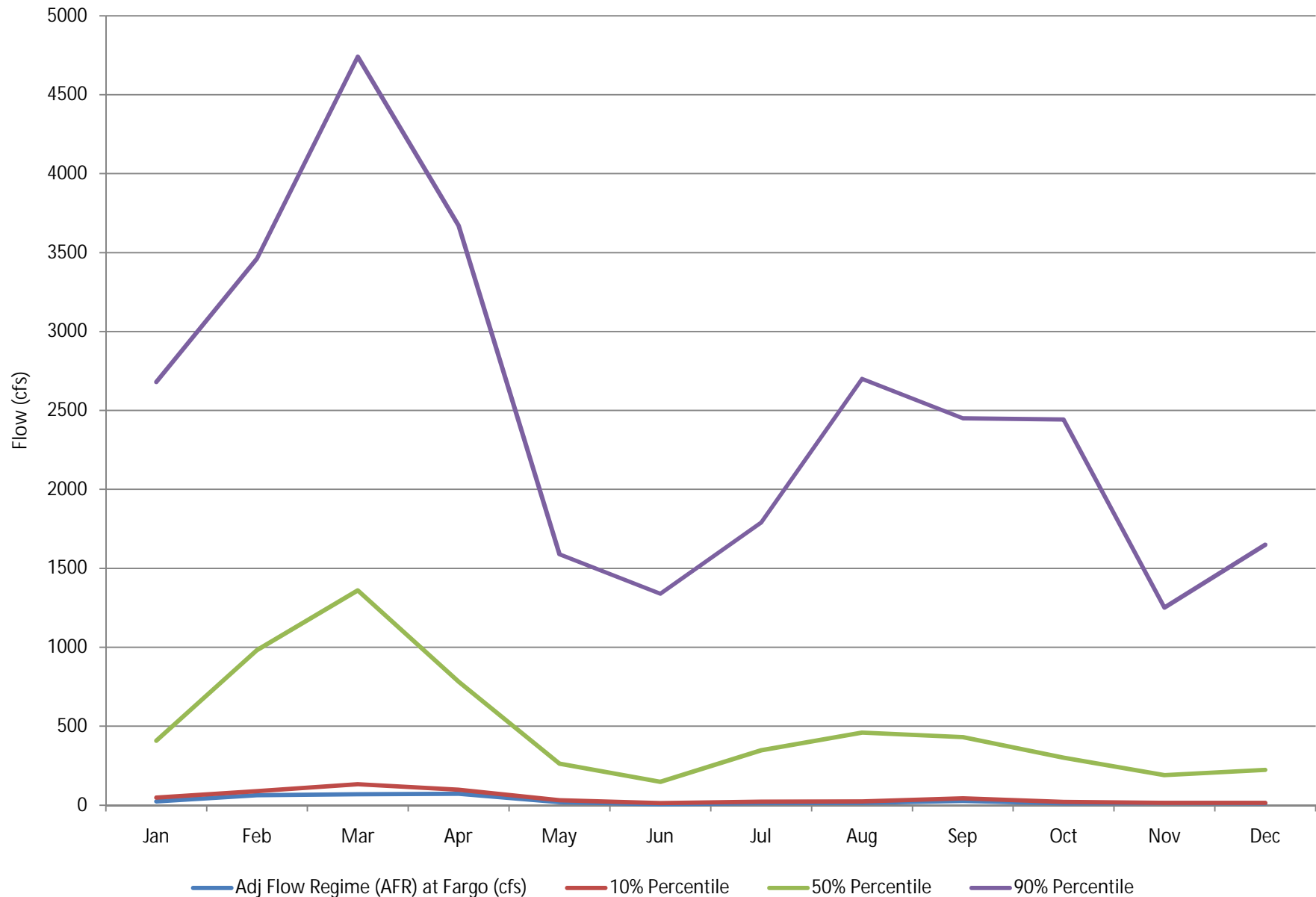


Figure D-8-1 Average Percentage of Flow Compared to Flow Regime at Gross (Chart Type 1)

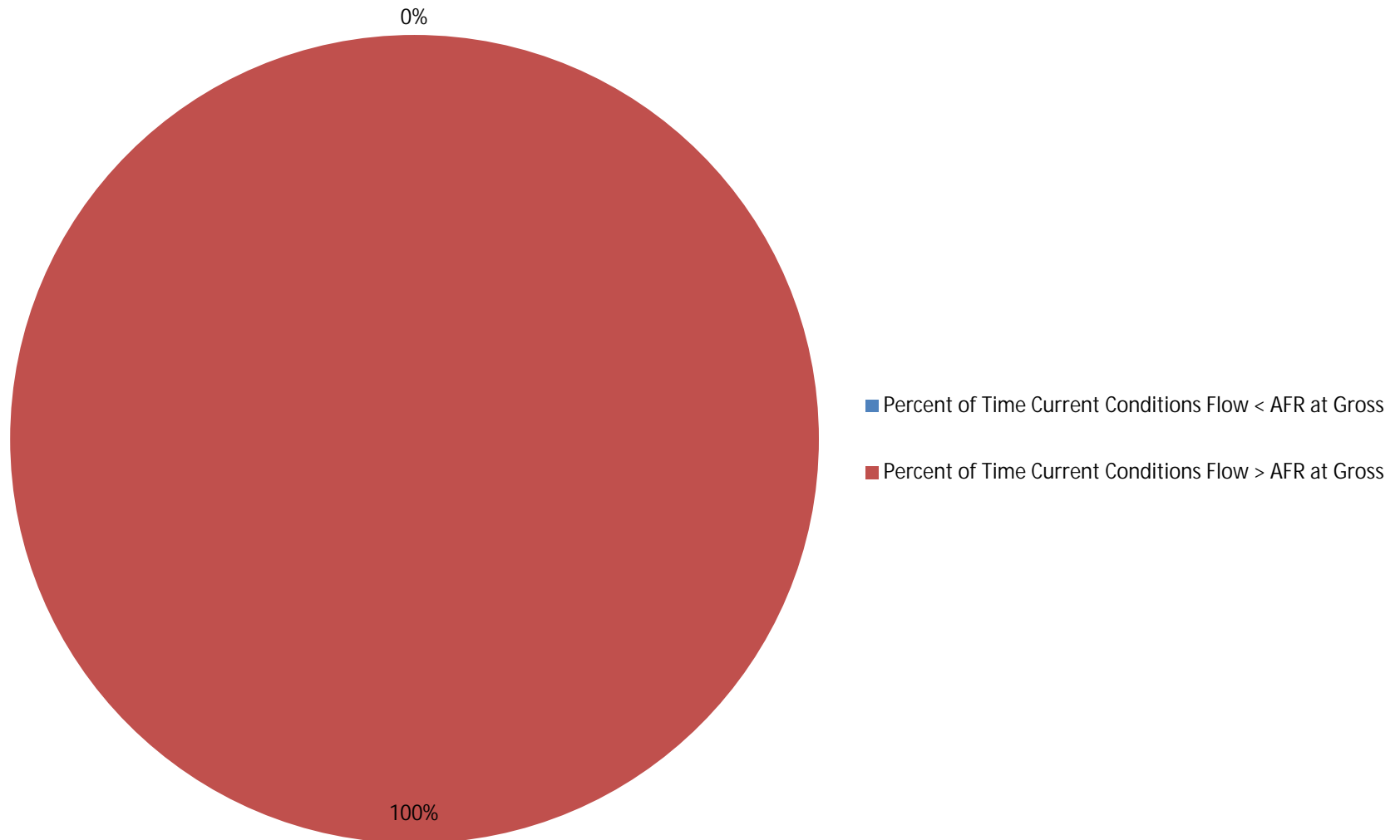


Figure D-8-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Gross (Chart Type 2)

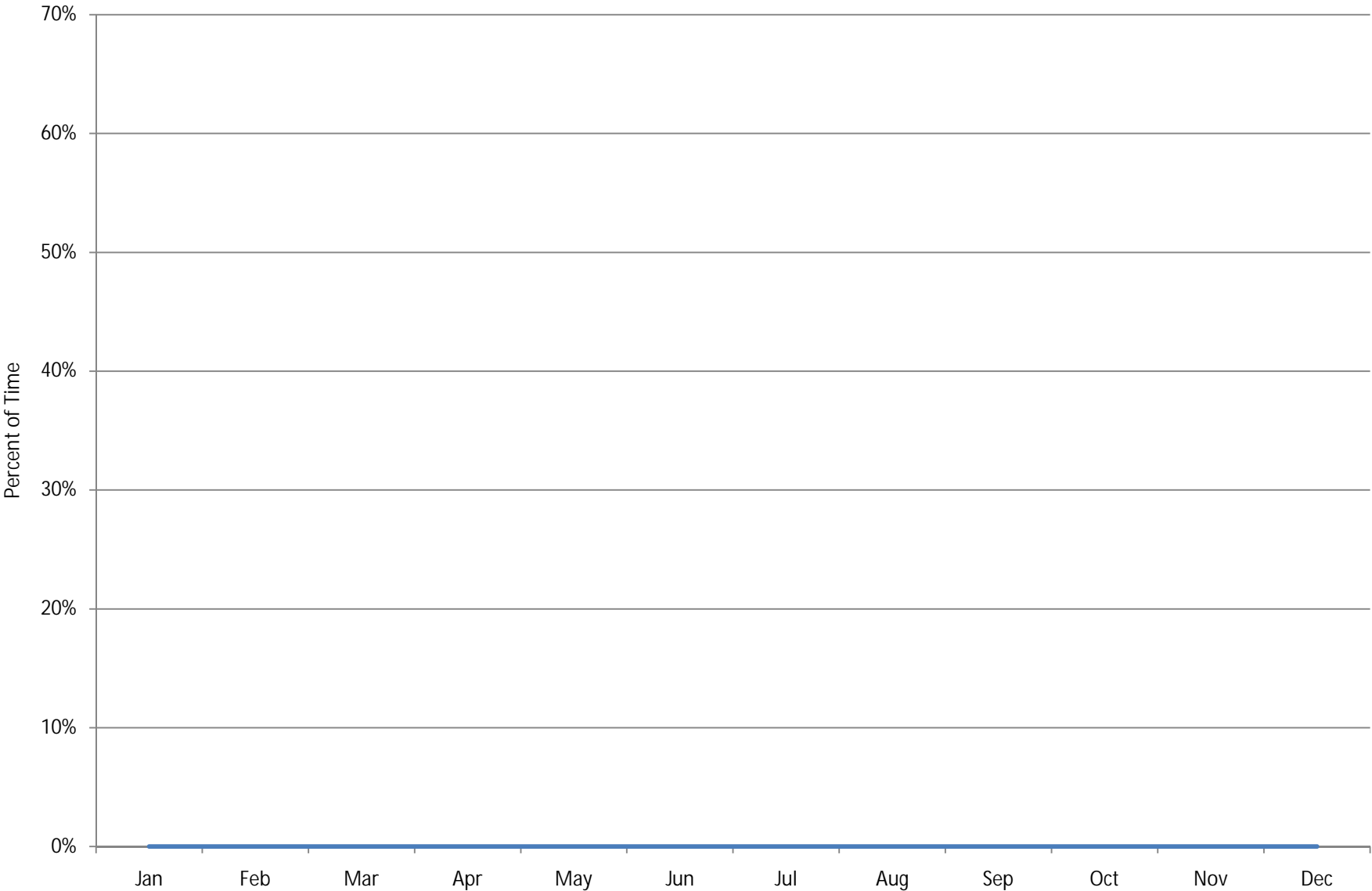


Figure D-8-3 Range of Deficit of Flow Regime at Gross (Chart Type 3)

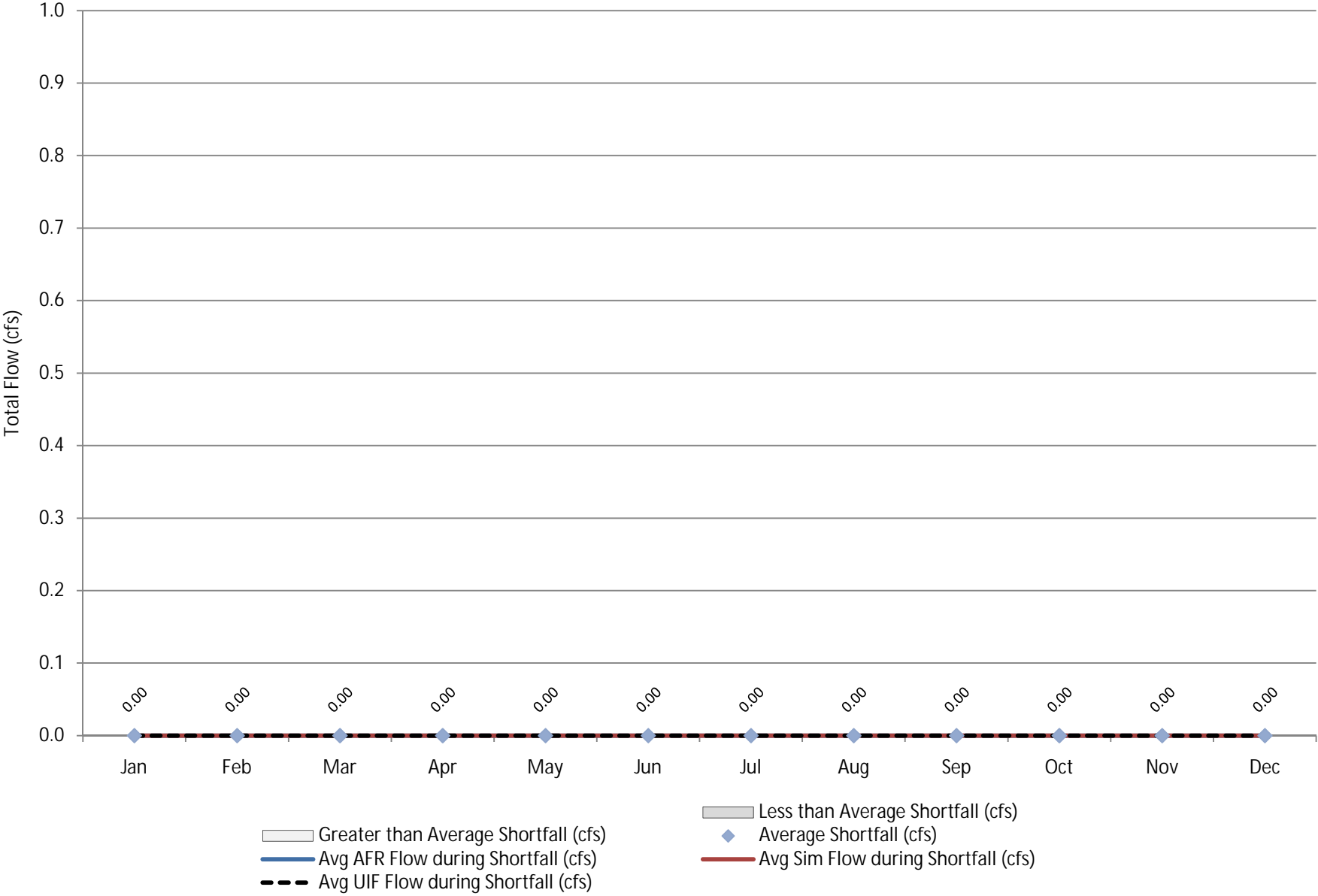


Figure D-8-4 Unimpaired Monthly Range of Flow at Gross (Chart Type 4)

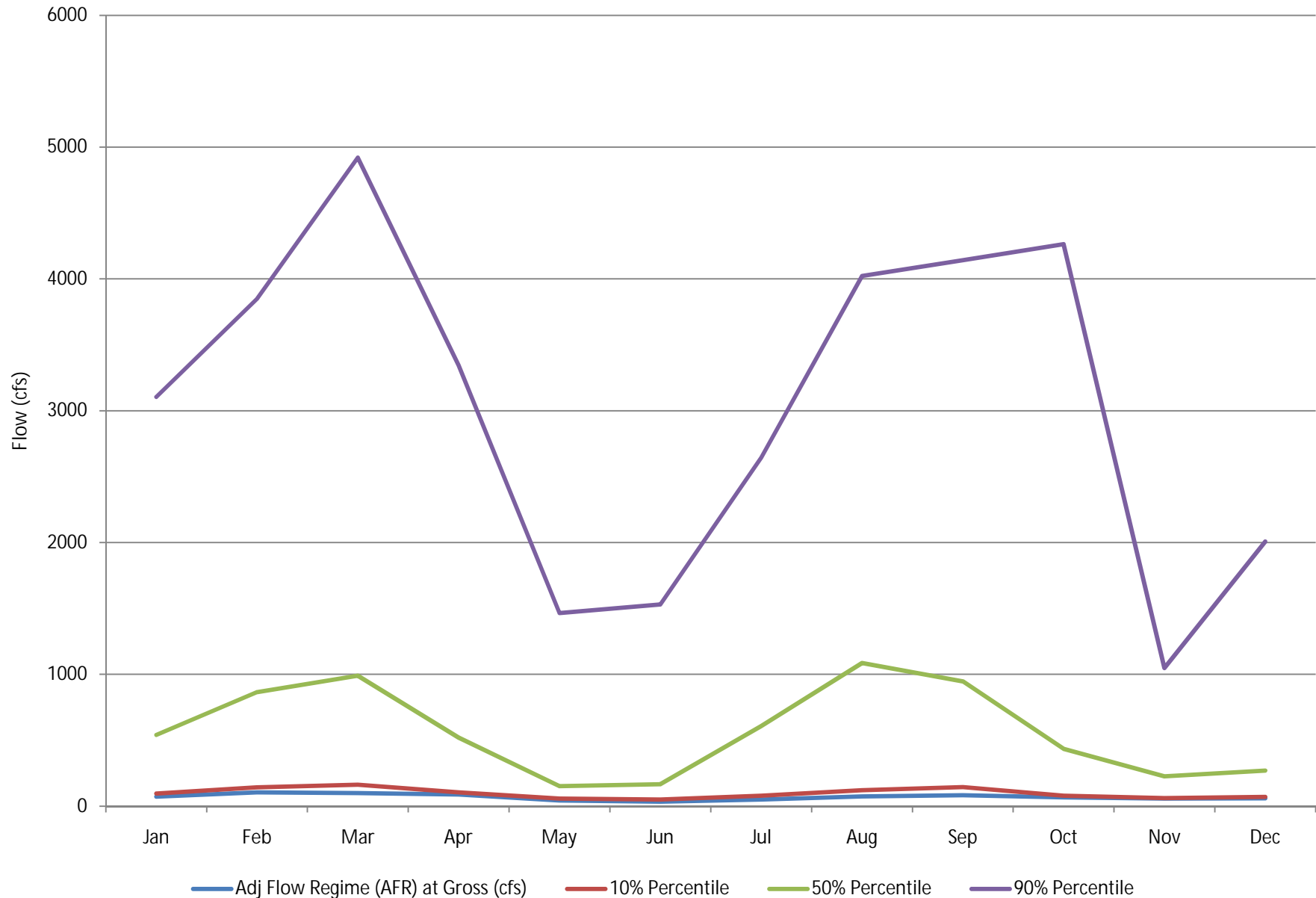
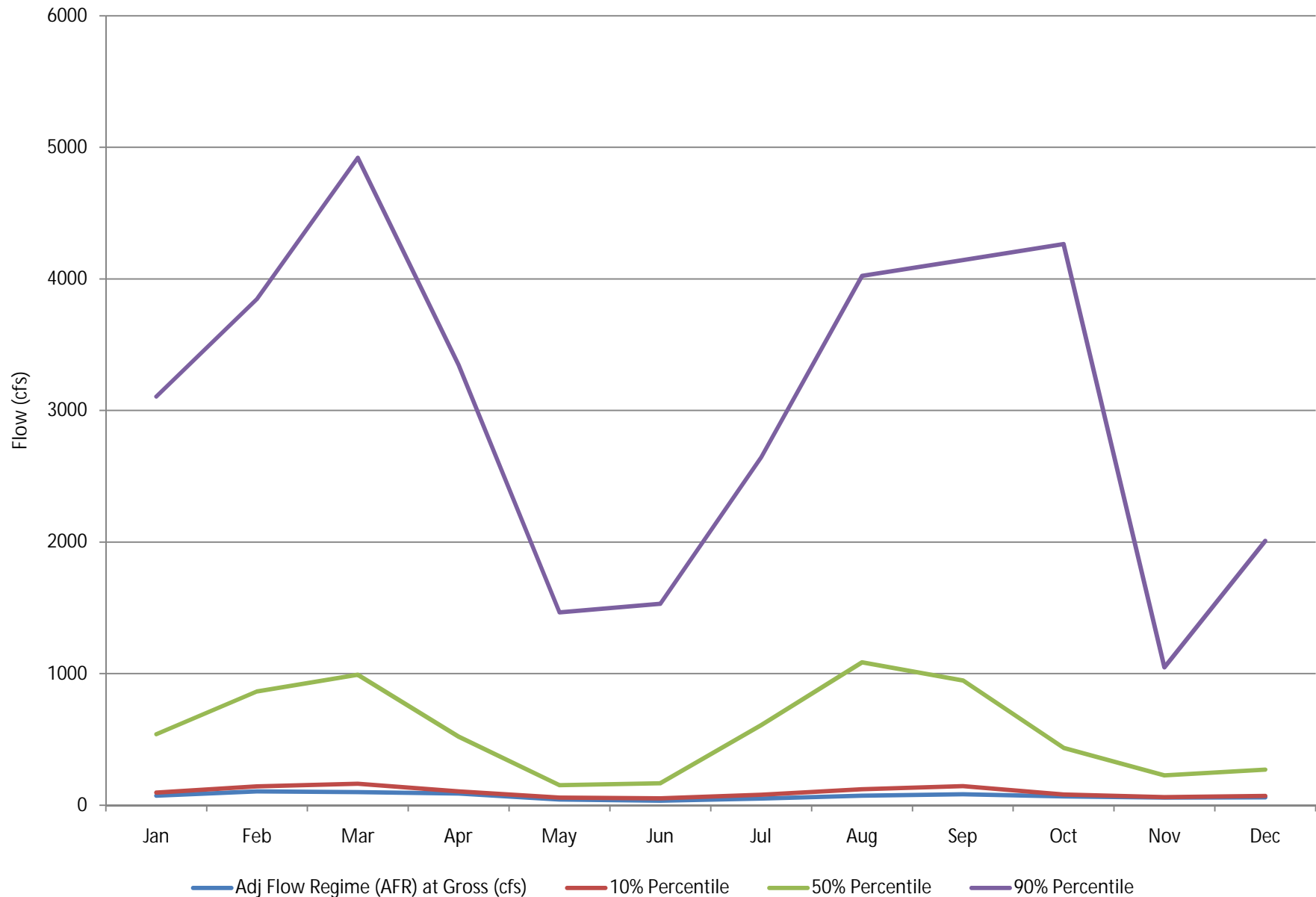


Figure D-8-5 Simulated Monthly Range of Flow at Gross (Chart Type 5)



Synopsis of Surface Water Availability Assessment

Appendix E

Savannah-Ogeechee

Charts depicting flows and shortages relative to flow regime by planning node for current conditions model.

1. Augusta
2. Clyo
3. Savannah
4. Claxton
5. Kings Ferry
6. Eden

Synopsis of Surface Water Availability Assessment

Chart type 1 is a pie chart that shows the percentage of daily flows above and below the adjusted flow regime. The percentage of time above the adjusted flow regime is an indication of how often the flow regime can be met and withdrawals can be made.

Chart type 2 shows the percentage of time that flows are below the adjusted flow regime for each month of the year, indicating months in which water availability is most constrained. The higher the percentage, the more often there are shortfalls, hence more water availability constraints.

Chart type 3 shows certain monthly statistics during periods of shortfalls. Namely, average simulated river flows, average adjusted flow regime flows, and average unimpaired flows are shown by line plots. In addition, each month's average shortfall and the range between the largest and smallest shortfall are shown by bar plots. This chart shows the magnitude of a shortfall for a given month relative to the typical flows available during the month only on the days shortfalls occur. Flows for days without shortfalls are not included in generating these statistics.

Chart type 4 shows plots of monthly values of the adjusted flow regime and the 10-percentile (the lowest 10 percent of unimpaired flows), the 50-percentile (mid-range flows), and 90-percentile (all but the top 10 percent) flows. This range of percentiles covers dry, median, and wet conditions, respectively. The chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream if there were no effects of human development.

Chart type 5 shows plots of monthly values of the adjusted flow regime and the lowest 10 percent of simulated flows, i.e., 10-percentile flows, 50-percentile flows, and 90-percentile flows. This chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream under current condition assumptions.

Chart type 6 shows the daily storage and seasonal top of conservation curve for a given reservoir over the period of record. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 7 shows the percentage of storage remaining relative to the seasonal top of conservation pool for a given reservoir over the period of record. The reservoir is 100 percent full when the level is at or above the rule curve. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 8 shows the percentage of time that the remaining storage of a given reservoir is above a given percentage relative to the rule curve. The reservoir is 100 percent full when the level is at or above the rule curve. Storage remaining in the reservoir reflects magnitude and timing of demands.

AFR = Adjusted Flow Regime

Figure E-1-1 Total Storage at Thurmond
(Chart Type 6)

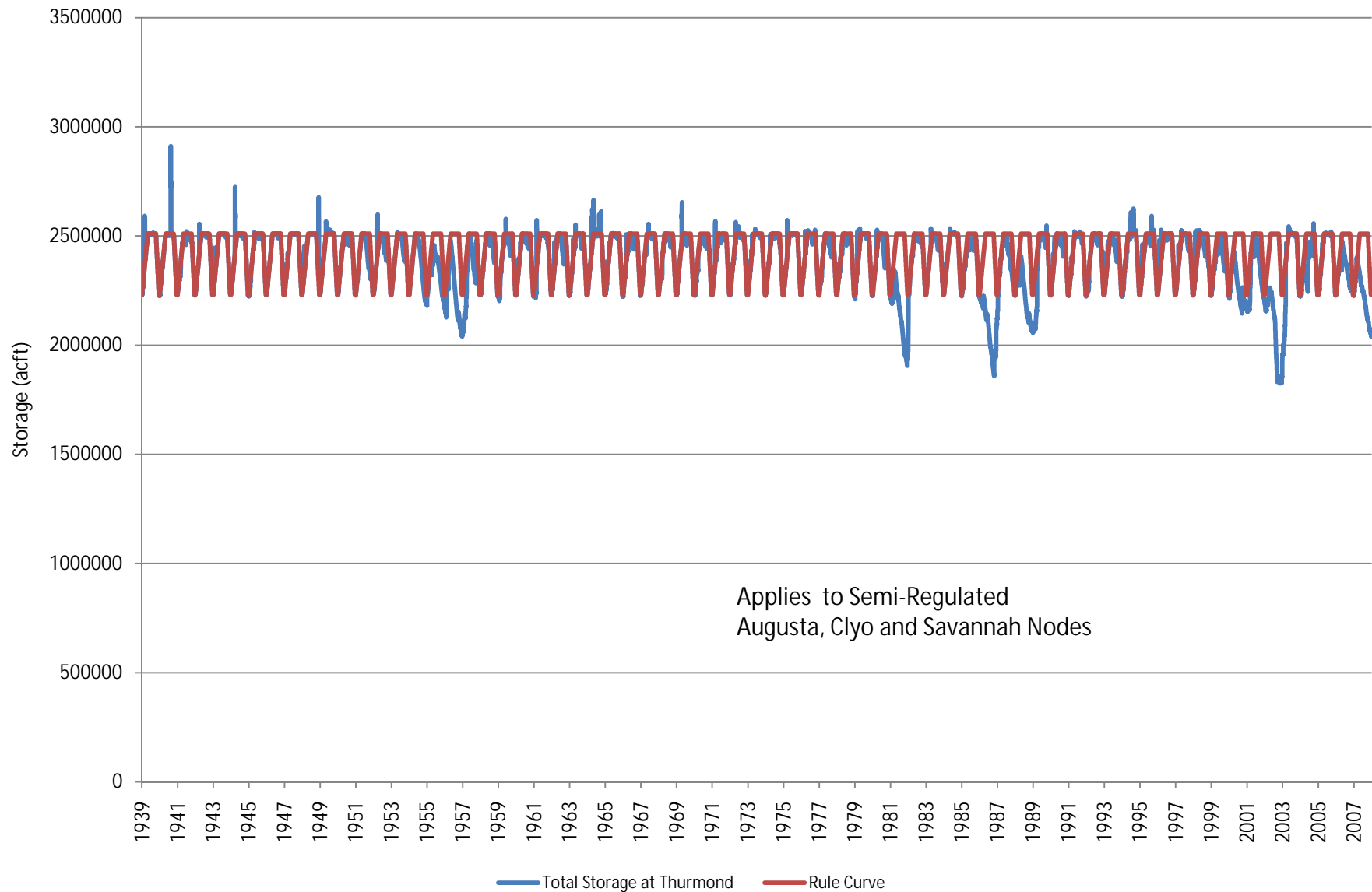


Figure E-1-2 Percent of Total Storage at Thurmond Relative to Rule Curve
(Chart Type 7)

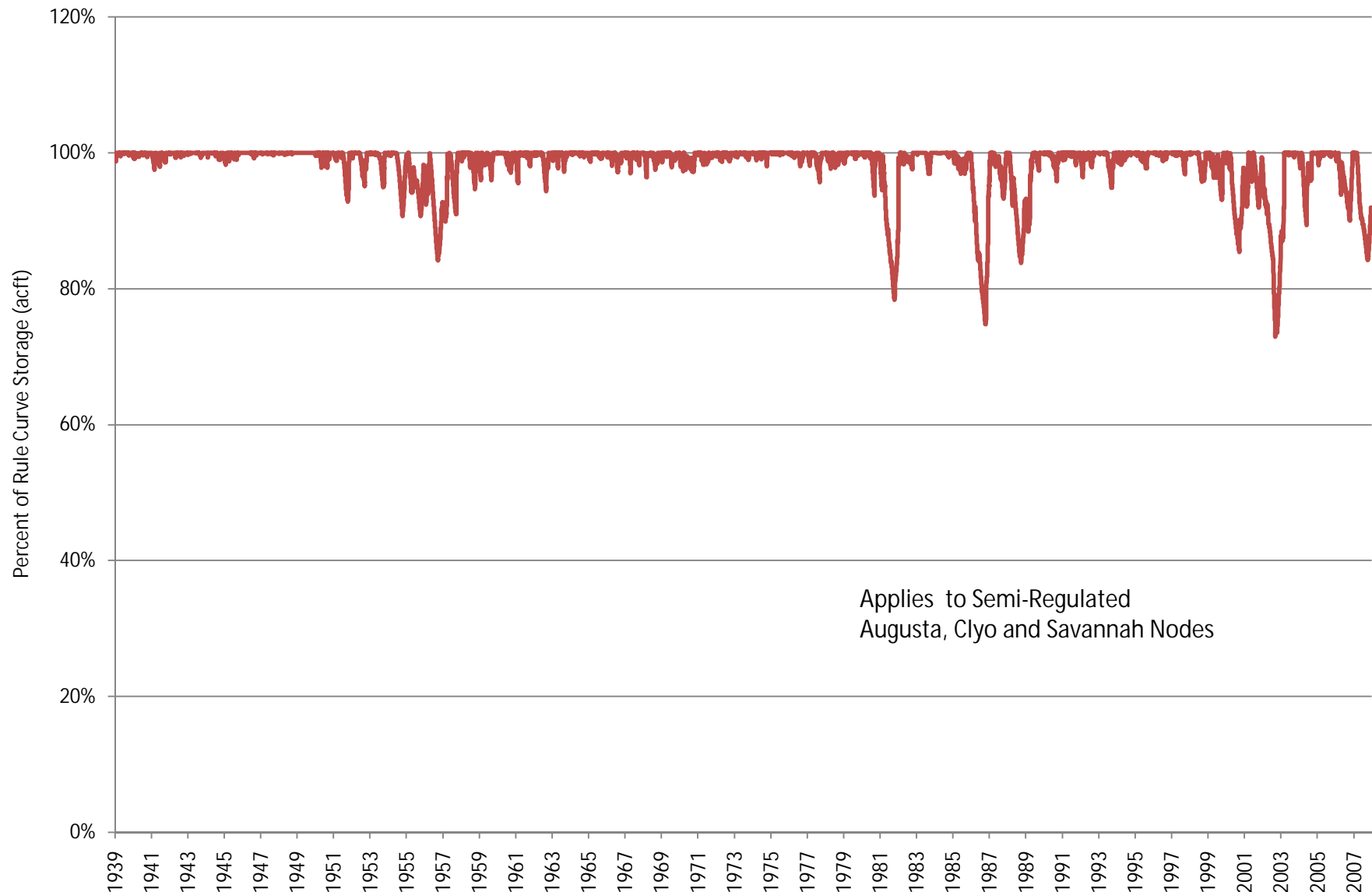


Figure E-1-3 Frequency of Exceedence of Percent Total Storage at Thurmond Relative to Rule Curve
(Chart Type 8)

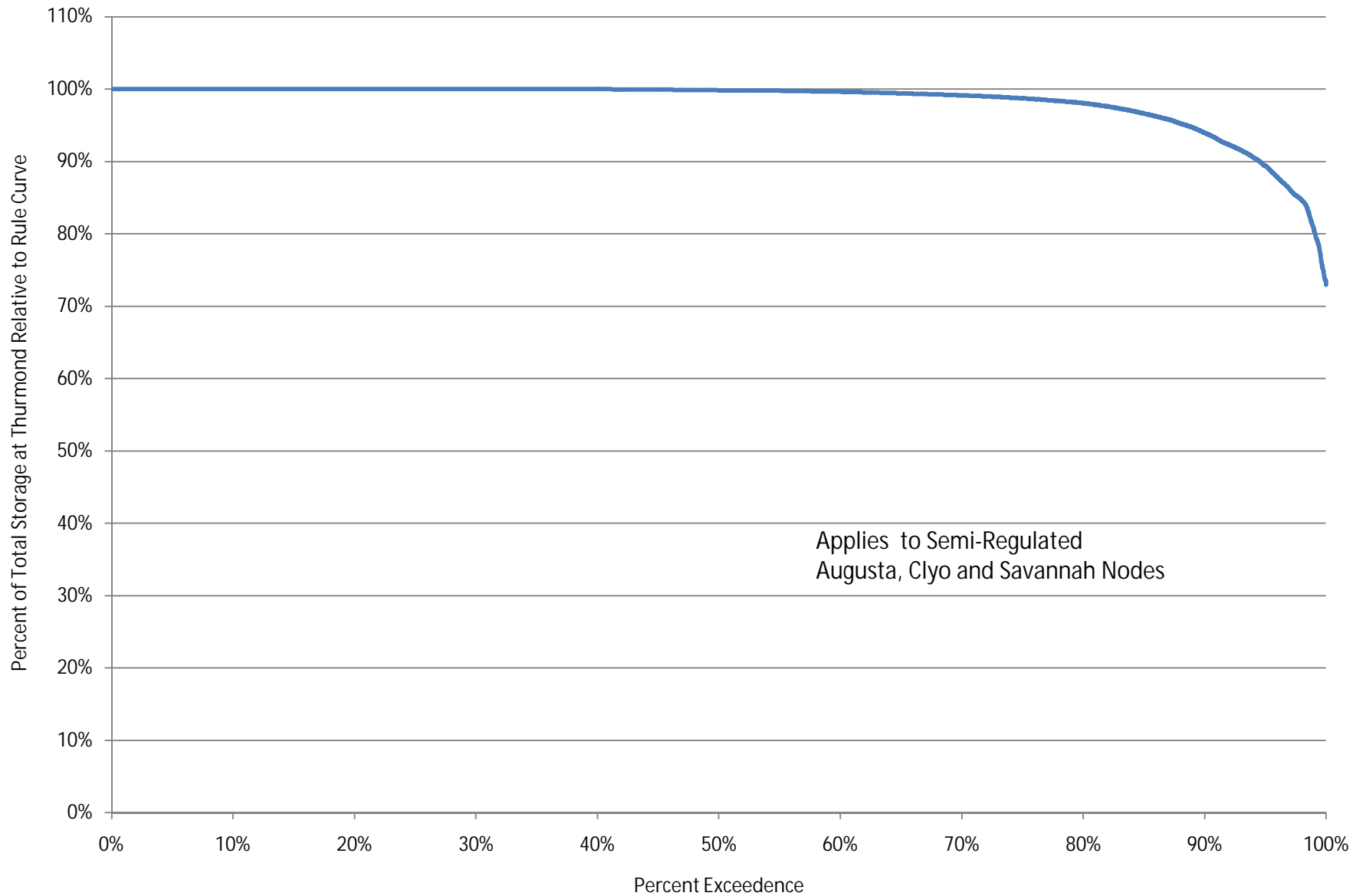


Figure E-4-1 Average Percentage of Flow Compared to Flow Regime at Claxton (Chart Type 1)

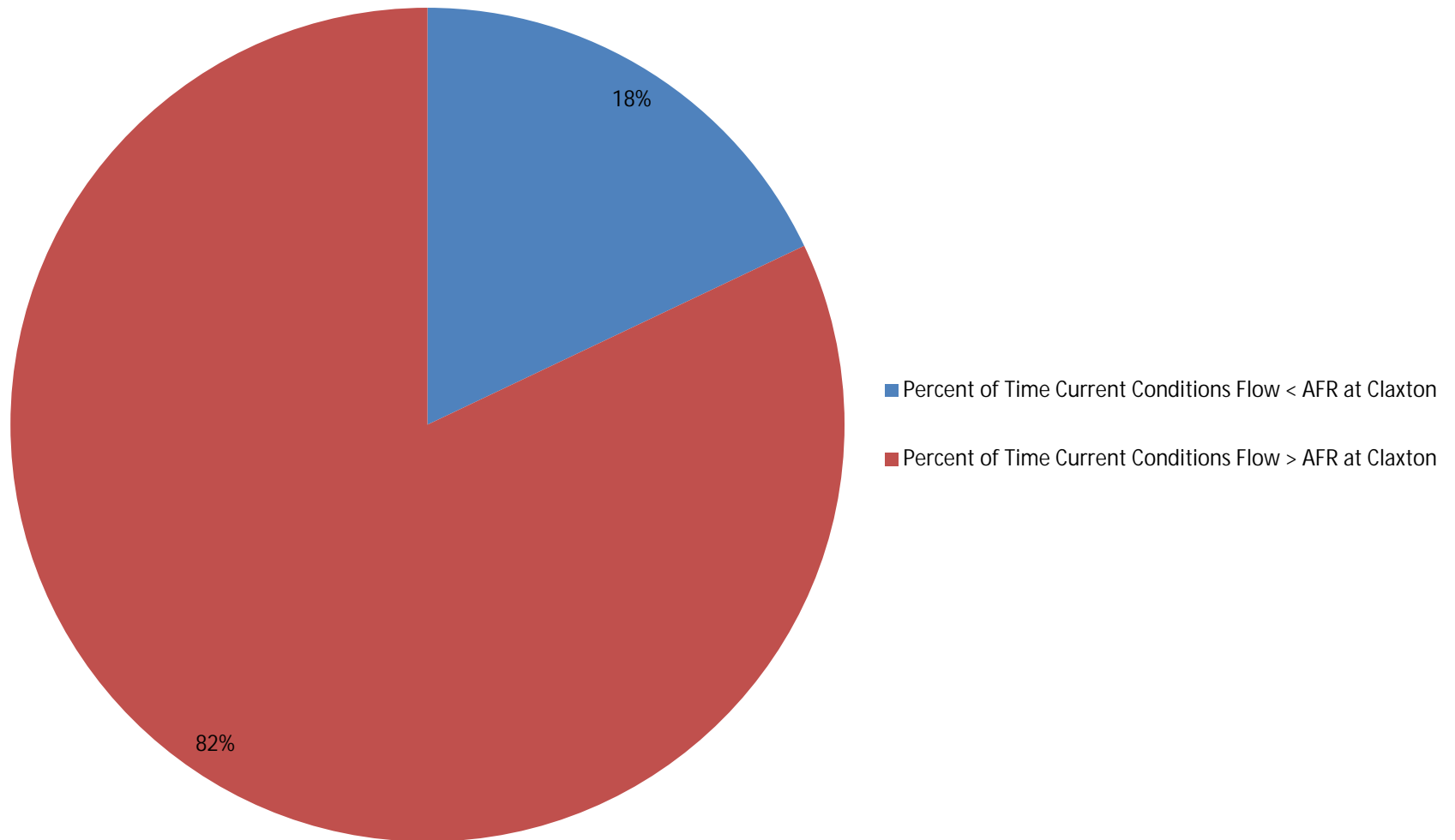


Figure E-4-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Claxton (Chart Type 2)

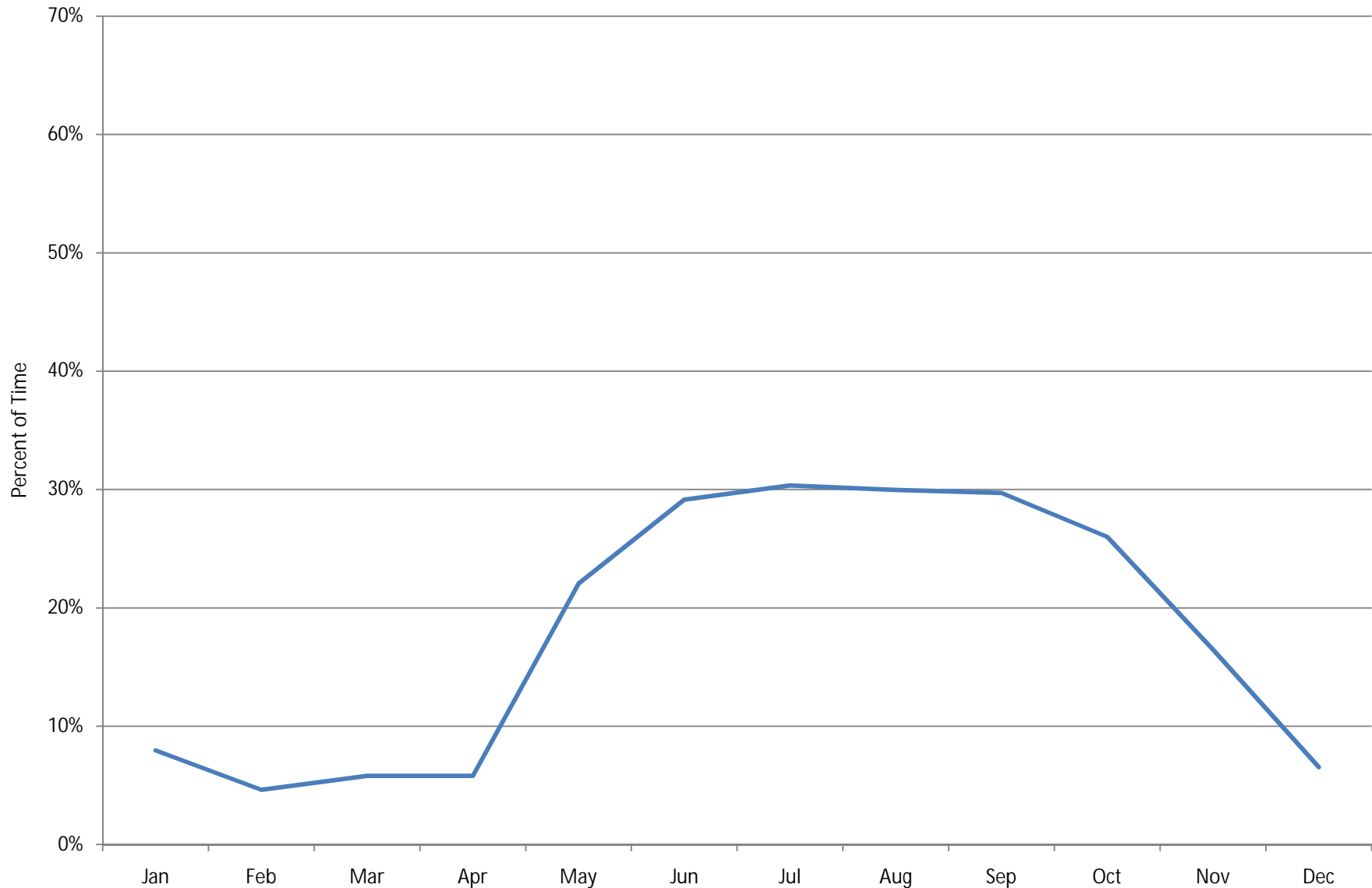


Figure E-4-3 Range of Deficit of Flow Regime at Claxton (Chart Type 3)

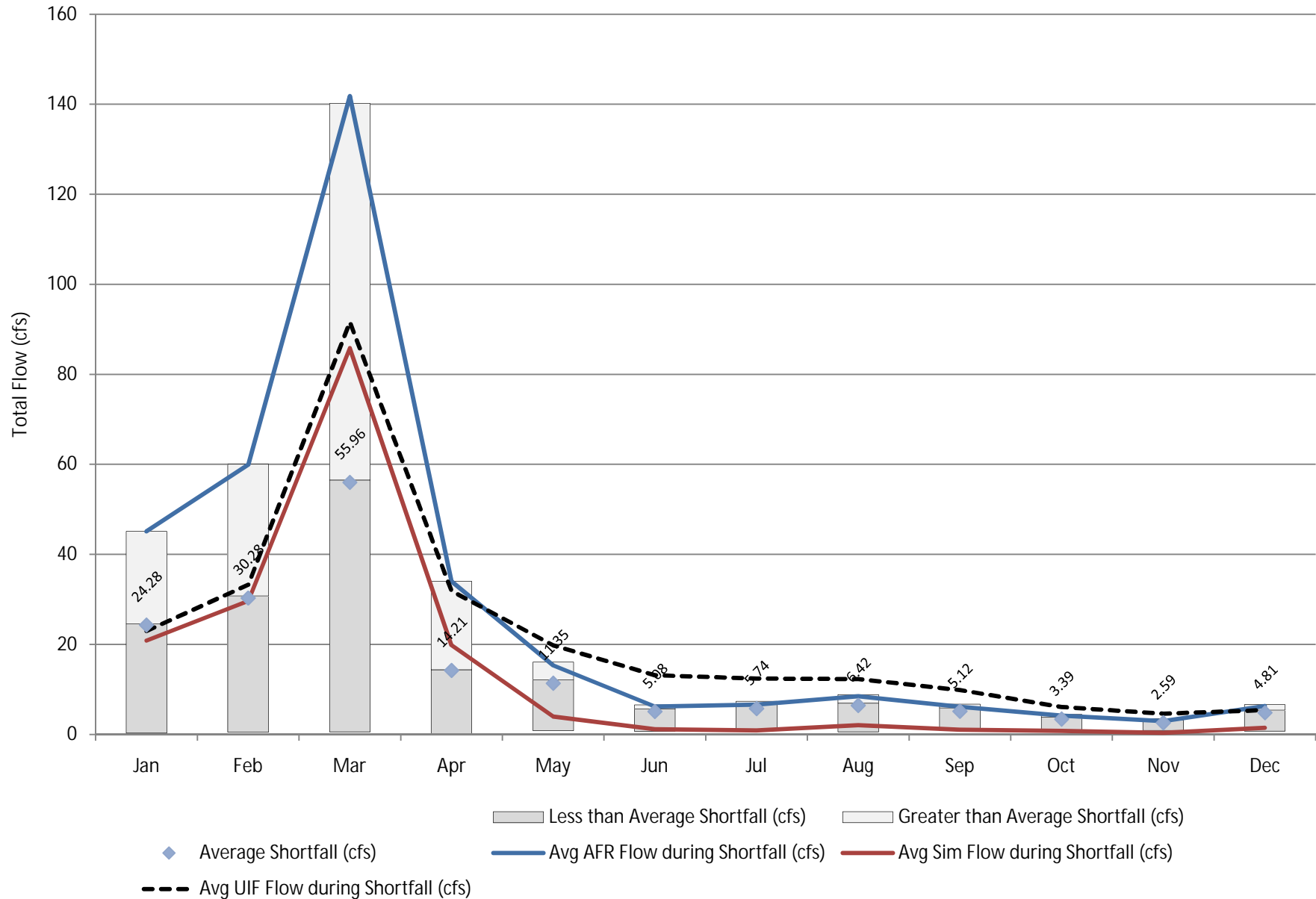


Figure E-4-4 Unimpaired Monthly Range of Flow at Claxton (Chart Type 4)

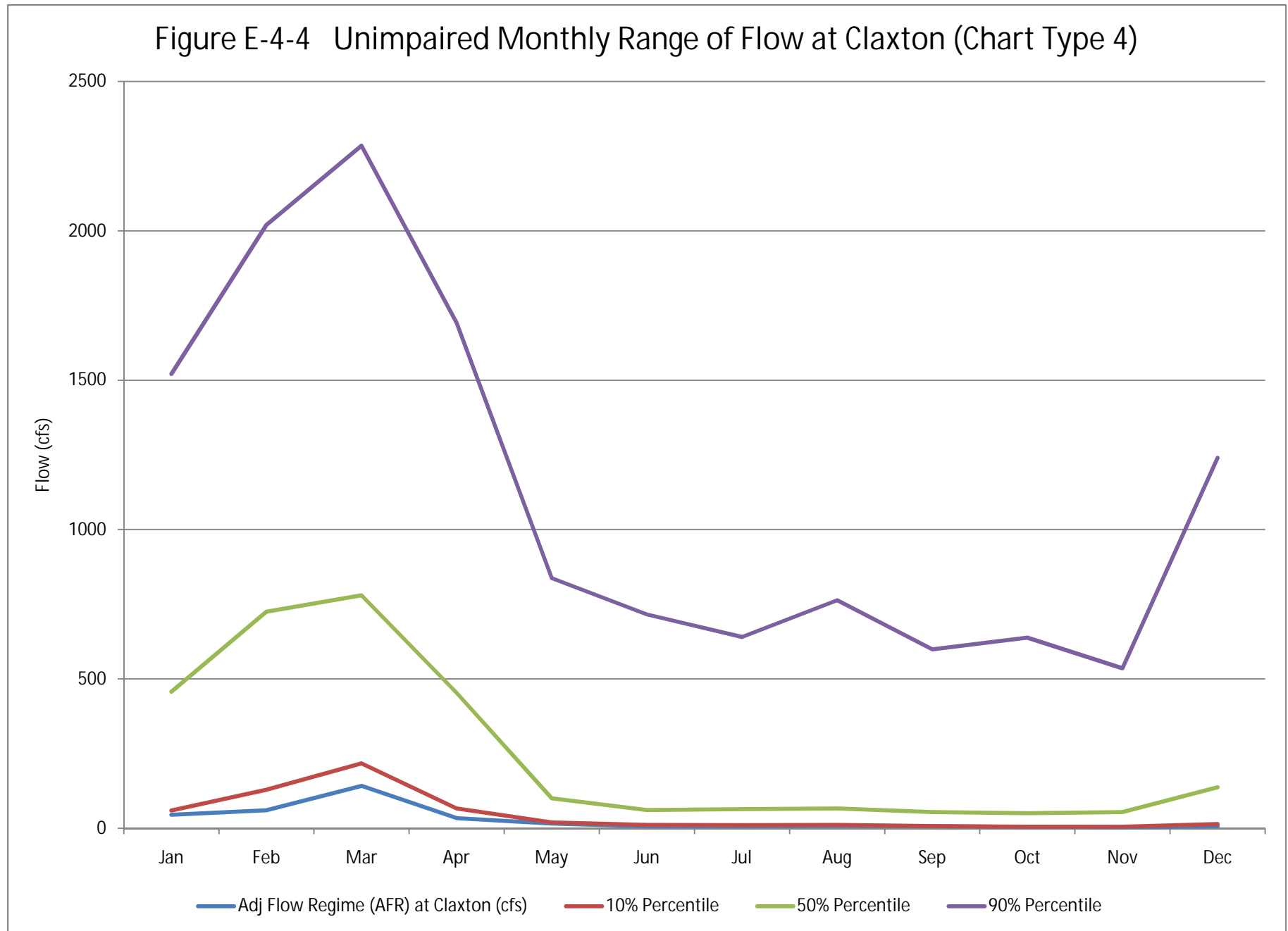


Figure E-4-5 Simulated Monthly Range of Flow at Claxton (Chart Type 5)

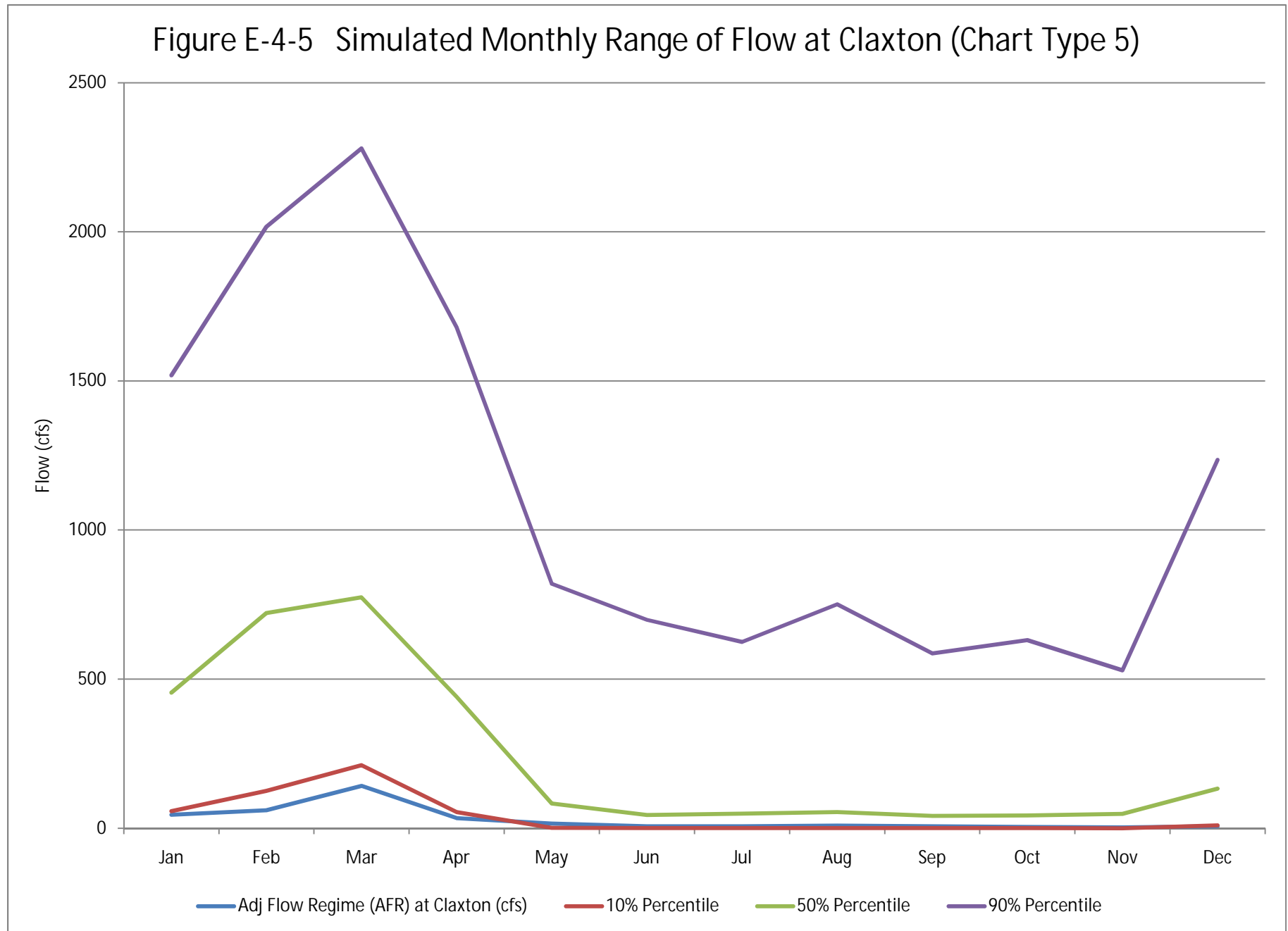


Figure E-5-1 Average Percentage of Flow Compared to Flow Regime at Kings Ferry (Chart Type 1)

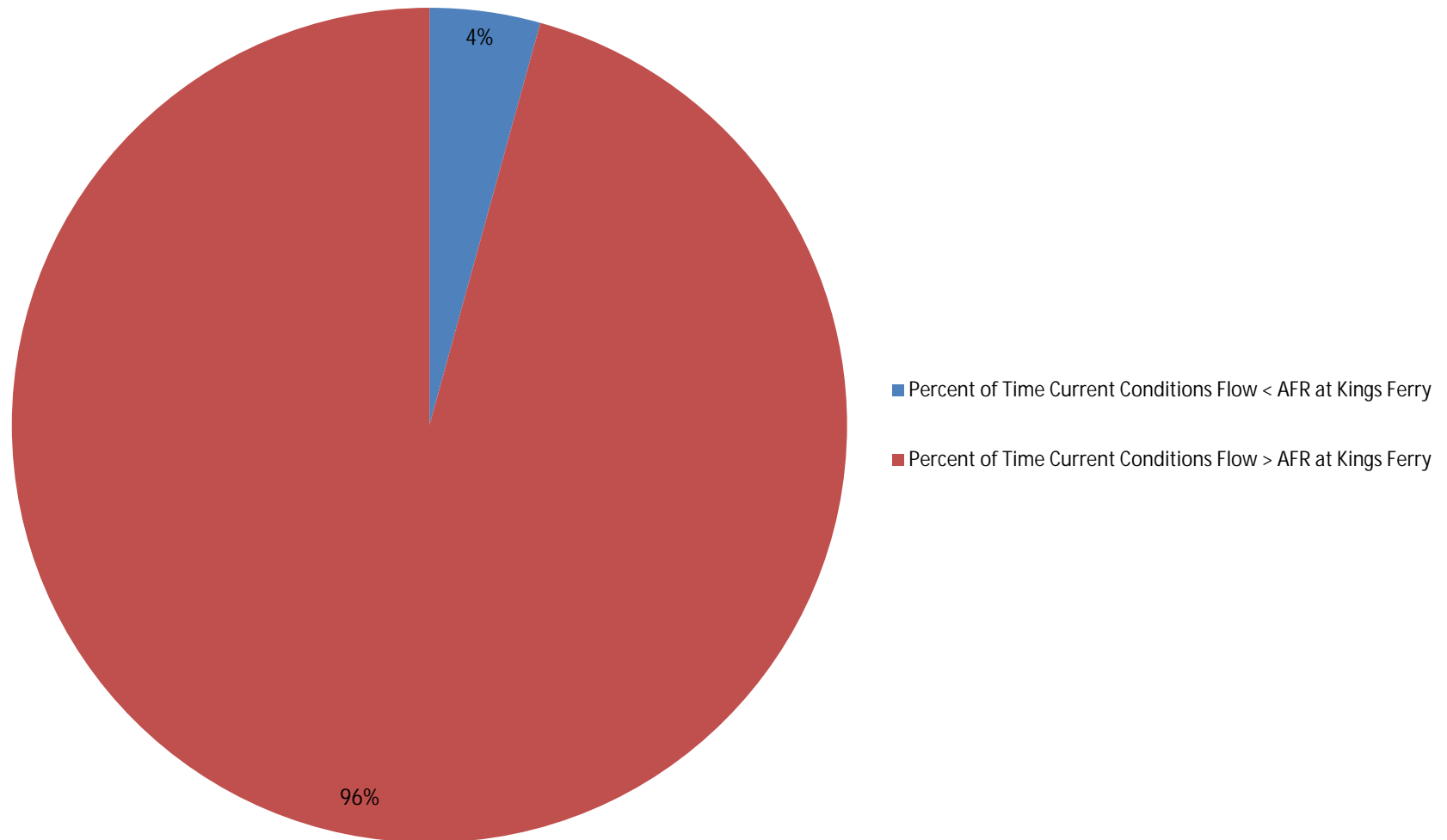


Figure E-5-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Kings Ferry (Chart Type 2)

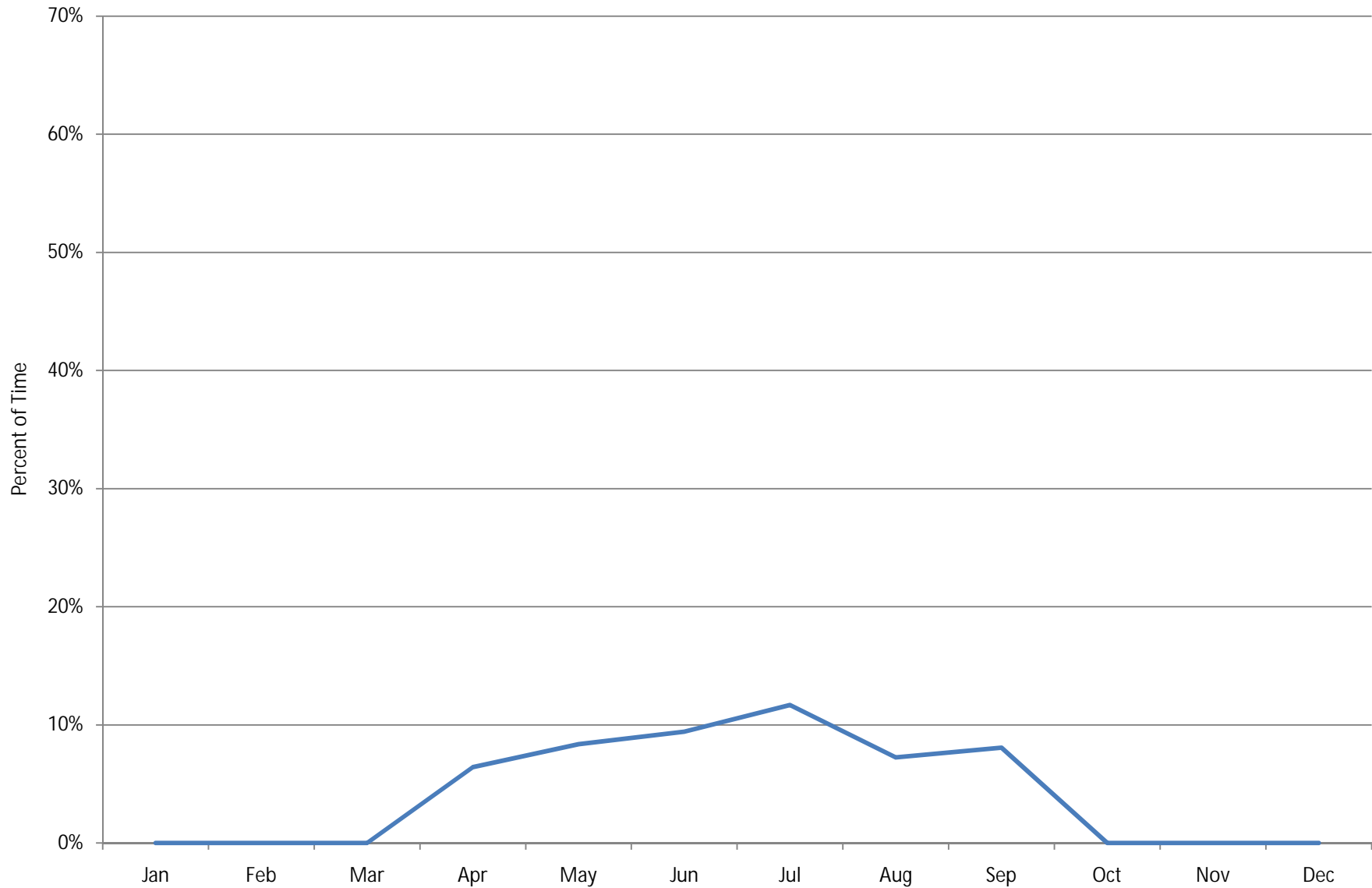


Figure E-5-3 Range of Deficit of Flow Regime at Kings Ferry (Chart Type 3)

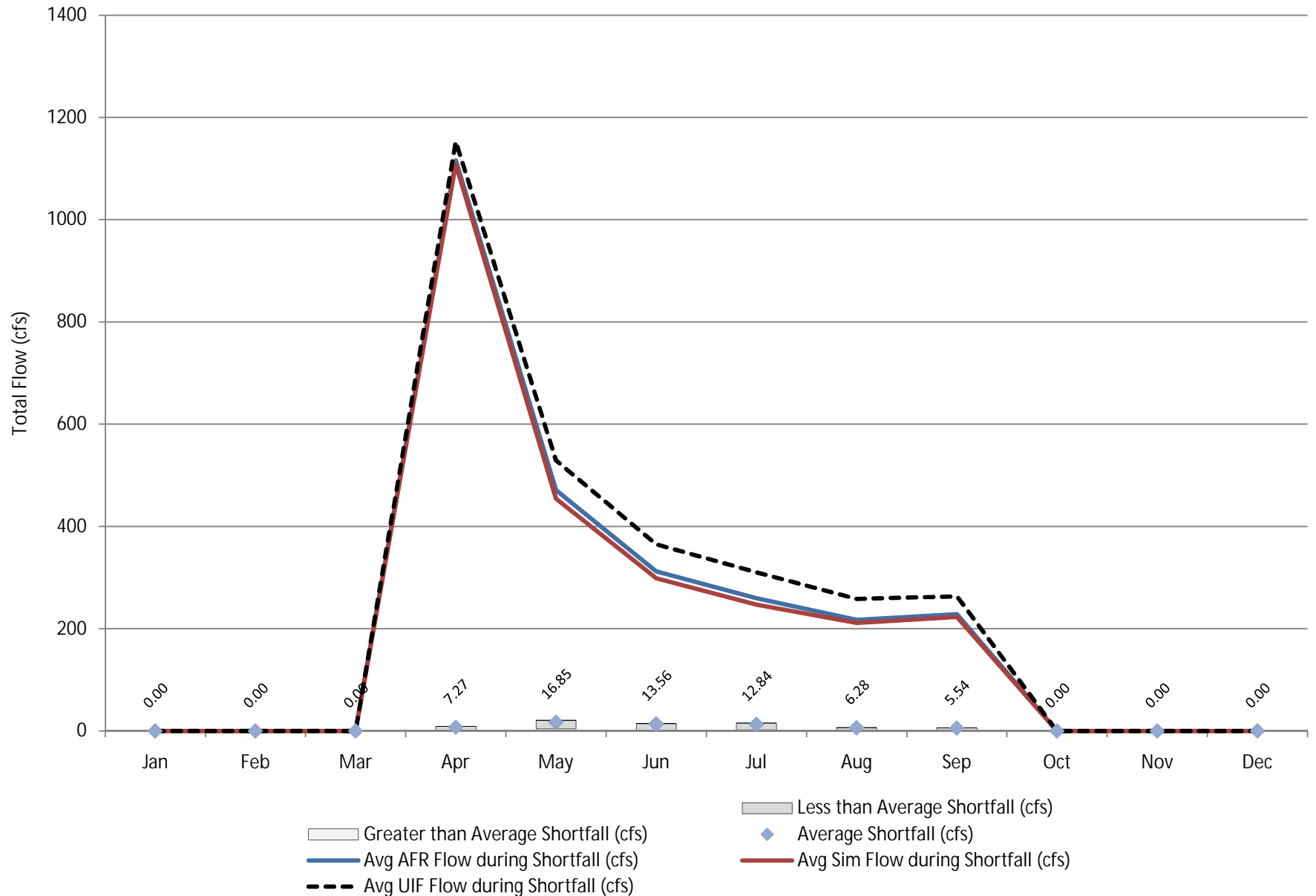


Figure E-5-4 Unimpaired Monthly Range of Flow at Kings Ferry (Chart Type 4)

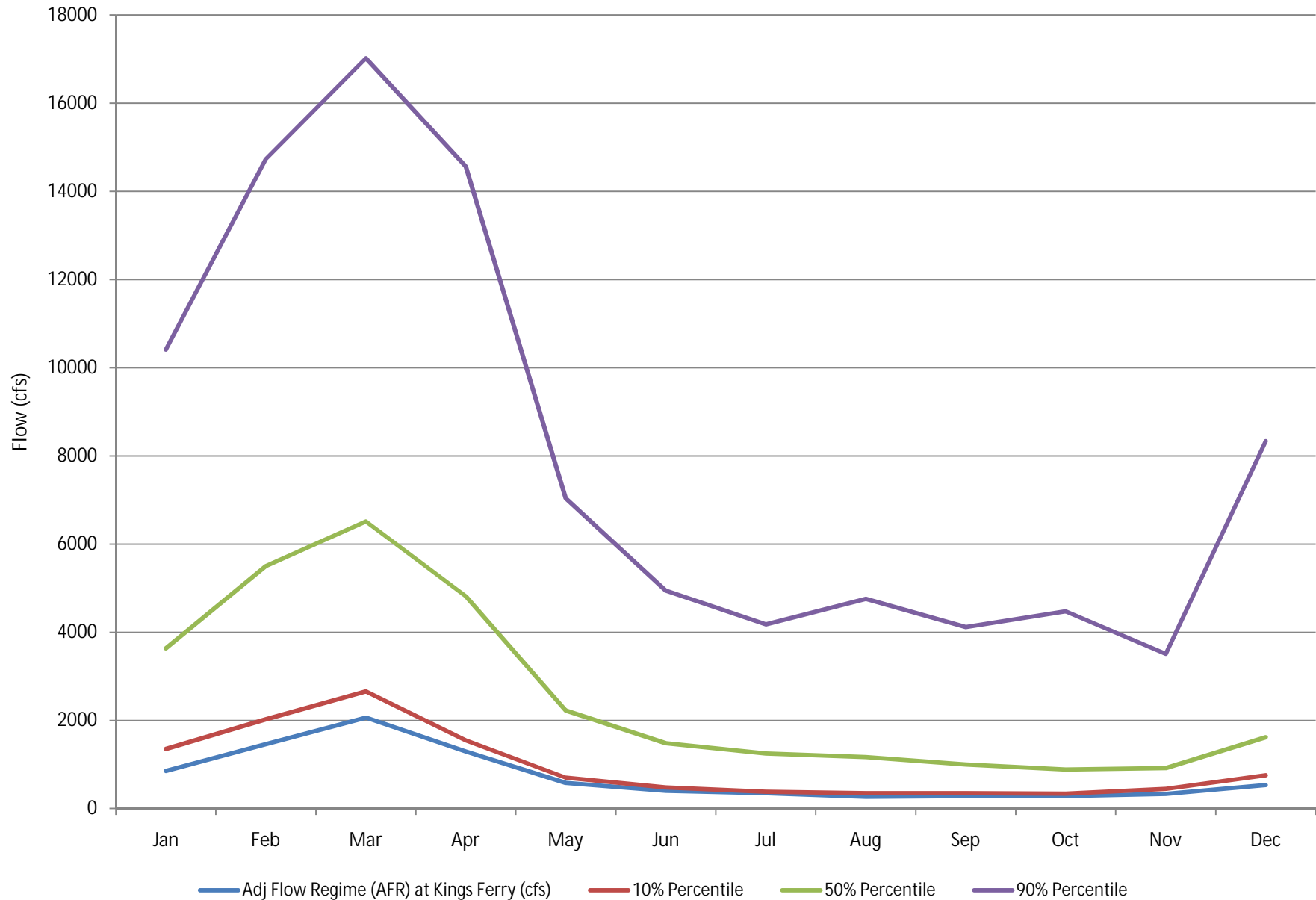


Figure E-5-5 Simulated Monthly Range of Flow at Kings Ferry (Chart Type 5)

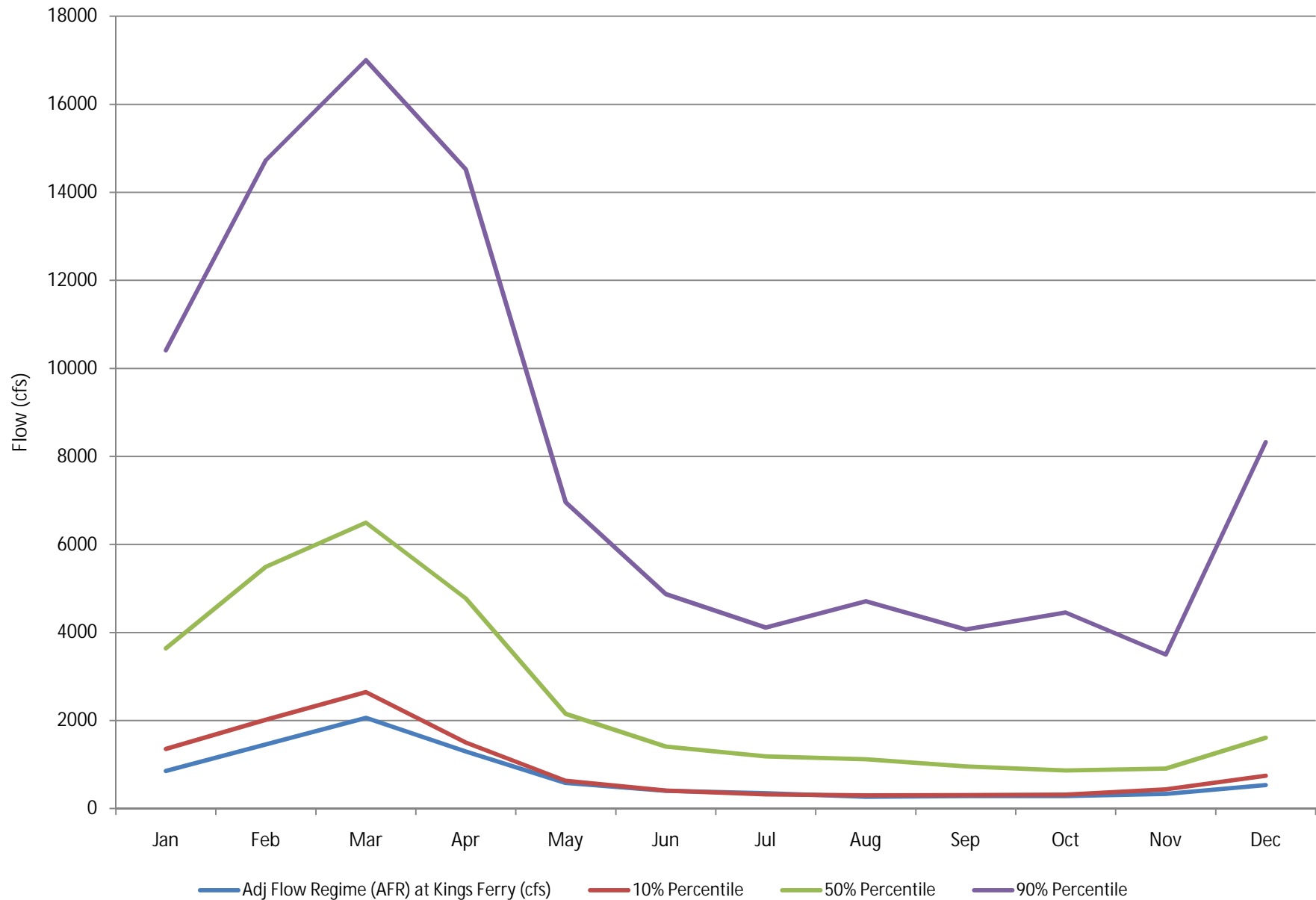


Figure E-6-1 Average Percentage of Flow Compared to Flow Regime at Eden (Chart Type 1)

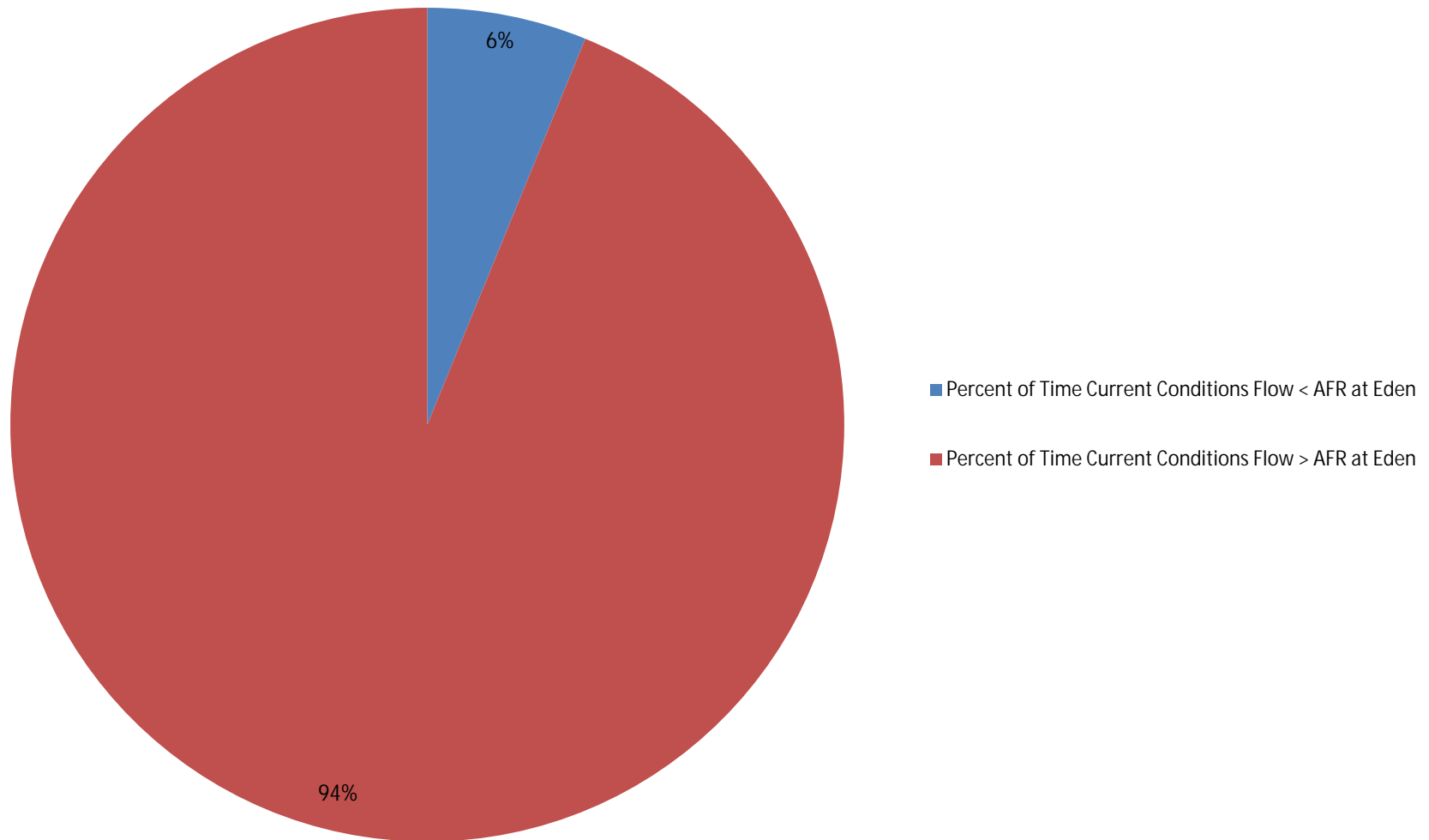


Figure E-6-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Eden (Chart Type 2)

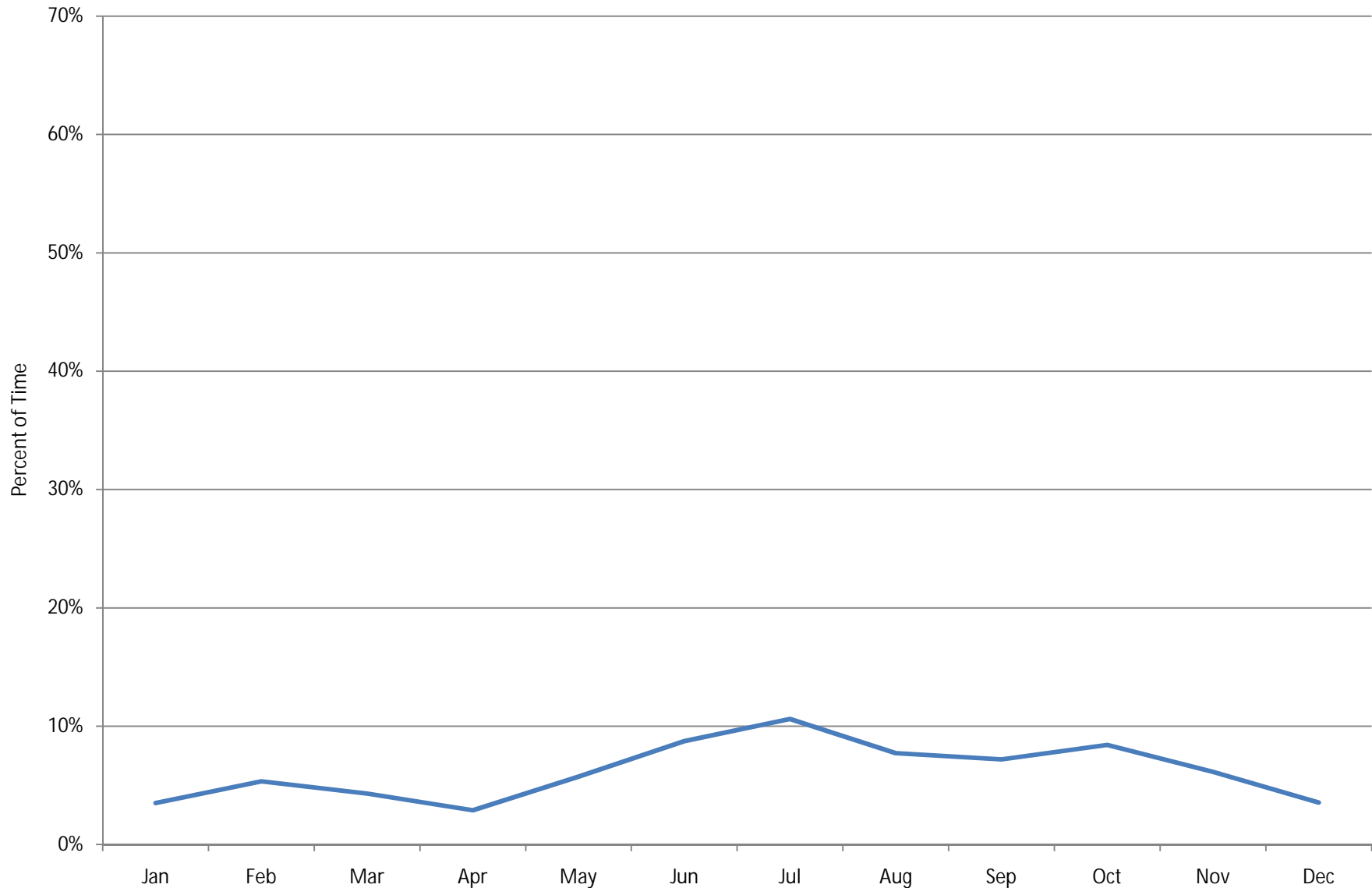


Figure E-6-3 Range of Deficit of Flow Regime at Eden (Chart Type 3)

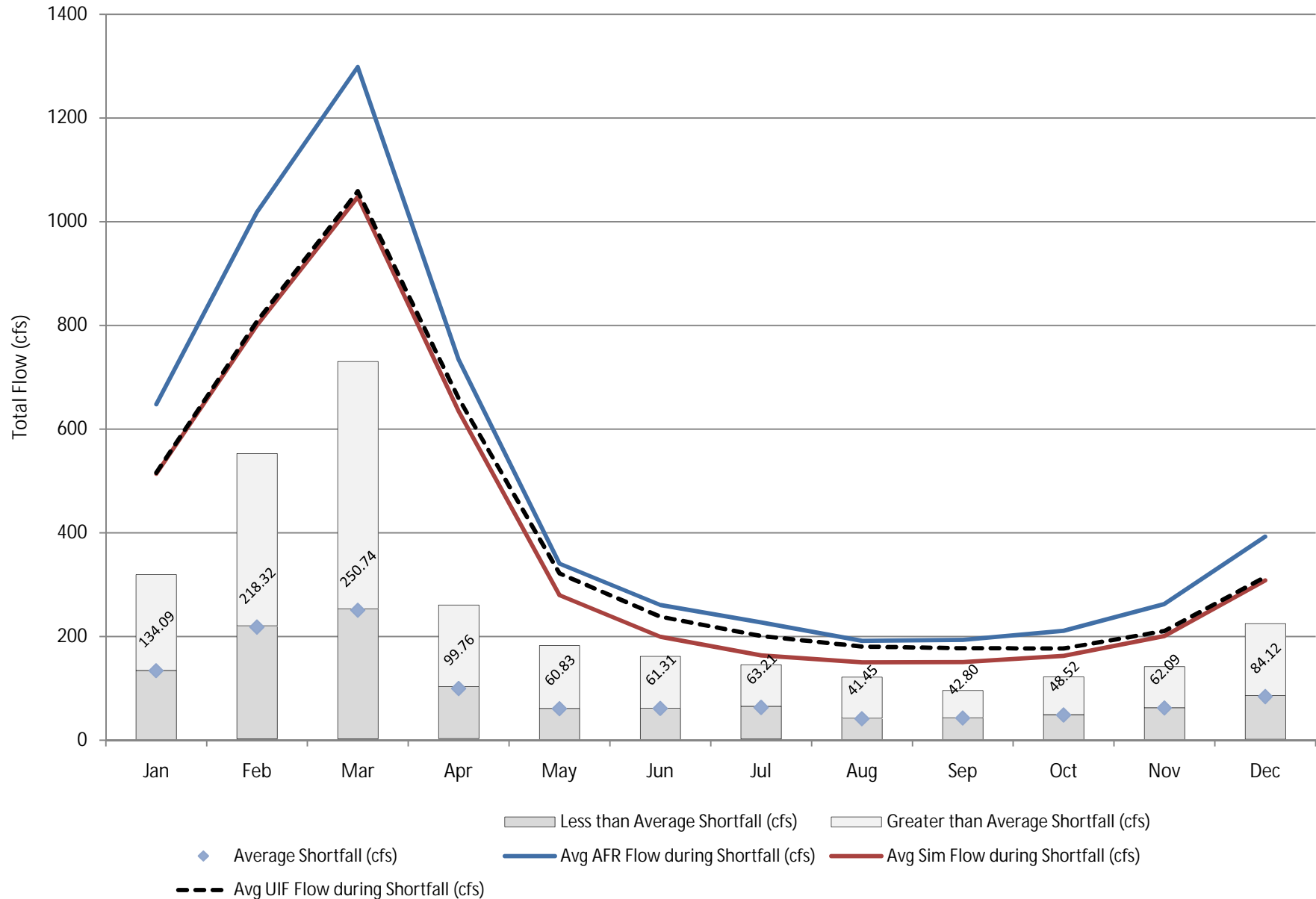


Figure E-6-4 Unimpaired Monthly Range of Flow at Eden (Chart Type 4)

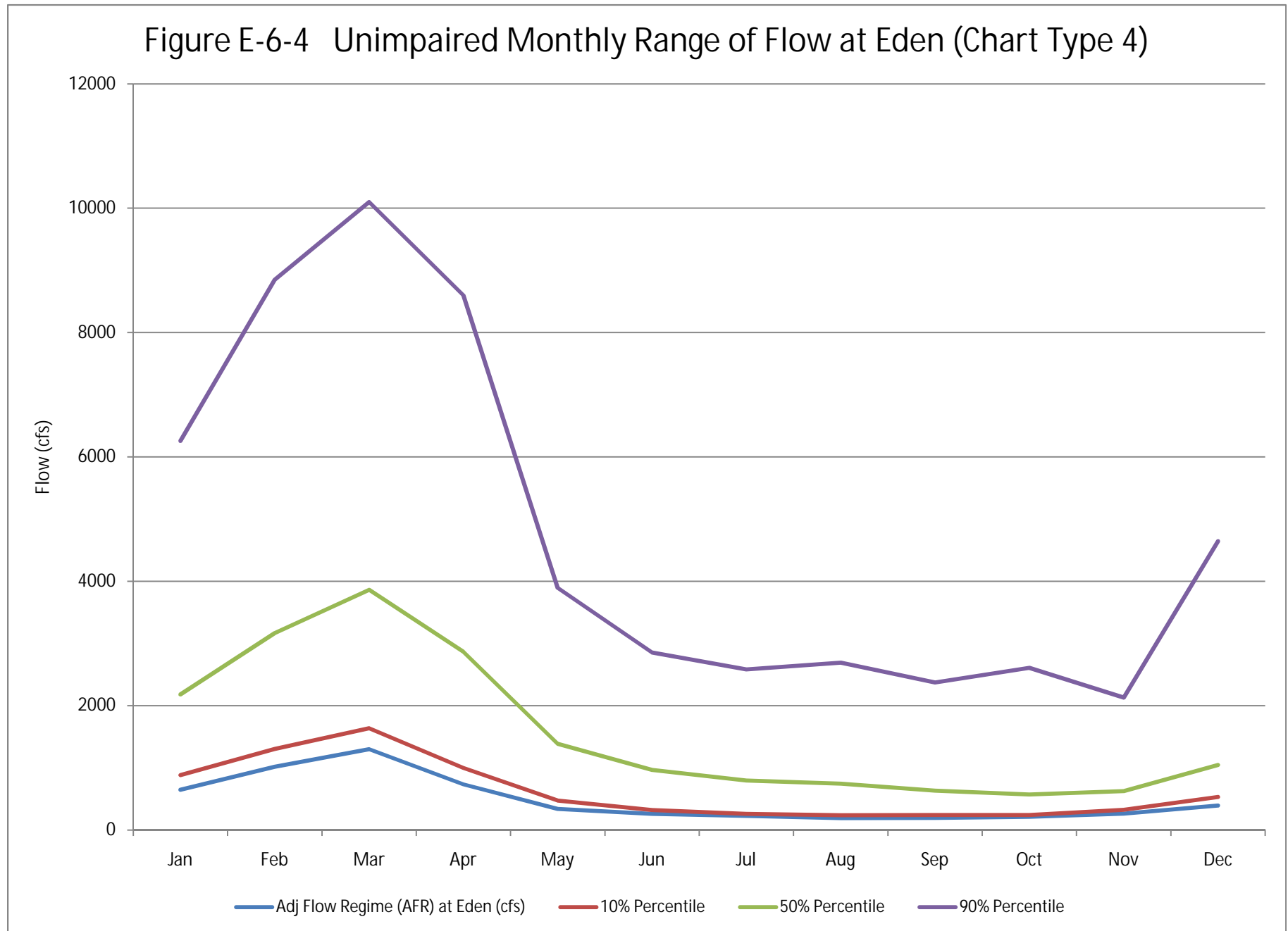
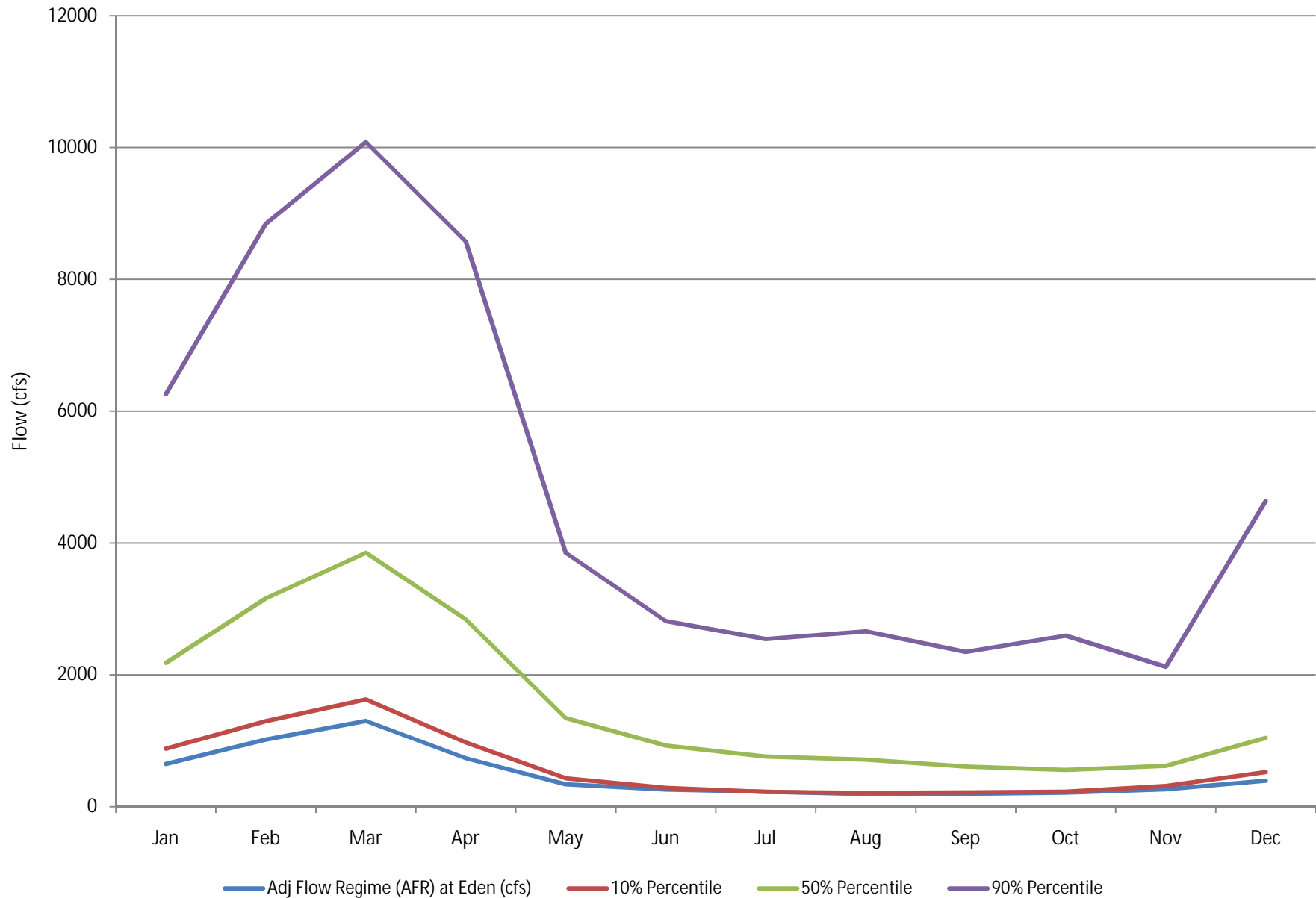


Figure E-6-5 Simulated Monthly Range of Flow at Eden (Chart Type 5)



Appendix F

Tennessee

Charts depicting flows and shortages relative to flow regime by planning node for current conditions model.

1. New England
2. Chickamauga
3. Copperhill
4. Little Tennessee

Synopsis of Surface Water Availability Assessment

Chart type 1 is a pie chart that shows the percentage of daily flows above and below the adjusted flow regime. The percentage of time above the adjusted flow regime is an indication of how often the flow regime can be met and withdrawals can be made.

Chart type 2 shows the percentage of time that flows are below the adjusted flow regime for each month of the year, indicating months in which water availability is most constrained. The higher the percentage, the more often there are shortfalls, hence more water availability constraints.

Chart type 3 shows certain monthly statistics during periods of shortfalls. Namely, average simulated river flows, average adjusted flow regime flows, and average unimpaired flows are shown by line plots. In addition, each month's average shortfall and the range between the largest and smallest shortfall are shown by bar plots. This chart shows the magnitude of a shortfall for a given month relative to the typical flows available during the month only on the days shortfalls occur. Flows for days without shortfalls are not included in generating these statistics.

Chart type 4 shows plots of monthly values of the adjusted flow regime and the 10-percentile (the lowest 10 percent of unimpaired flows), the 50-percentile (mid-range flows), and 90-percentile (all but the top 10 percent) flows. This range of percentiles covers dry, median, and wet conditions, respectively. The chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream if there were no effects of human development.

Chart type 5 shows plots of monthly values of the adjusted flow regime and the lowest 10 percent of simulated flows, i.e., 10-percentile flows, 50-percentile flows, and 90-percentile flows. This chart shows the magnitude of the adjusted flow regime relative to the flows that would be in the stream under current condition assumptions.

Chart type 6 shows the daily storage and seasonal top of conservation curve for a given reservoir over the period of record. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 7 shows the percentage of storage remaining relative to the seasonal top of conservation pool for a given reservoir over the period of record. The reservoir is 100 percent full when the level is at or above the rule curve. The storage remaining in the reservoir reflects the magnitude and timing of demands.

Chart type 8 shows the percentage of time that the remaining storage of a given reservoir is above a given percentage relative to the rule curve. The reservoir is 100 percent full when the level is at or above the rule curve. Storage remaining in the reservoir reflects magnitude and timing of demands.

AFR = Adjusted Flow Regime

Figure F-1-1 Average Percentage of Flow Compared to Flow Regime at New England (Chart Type 1)

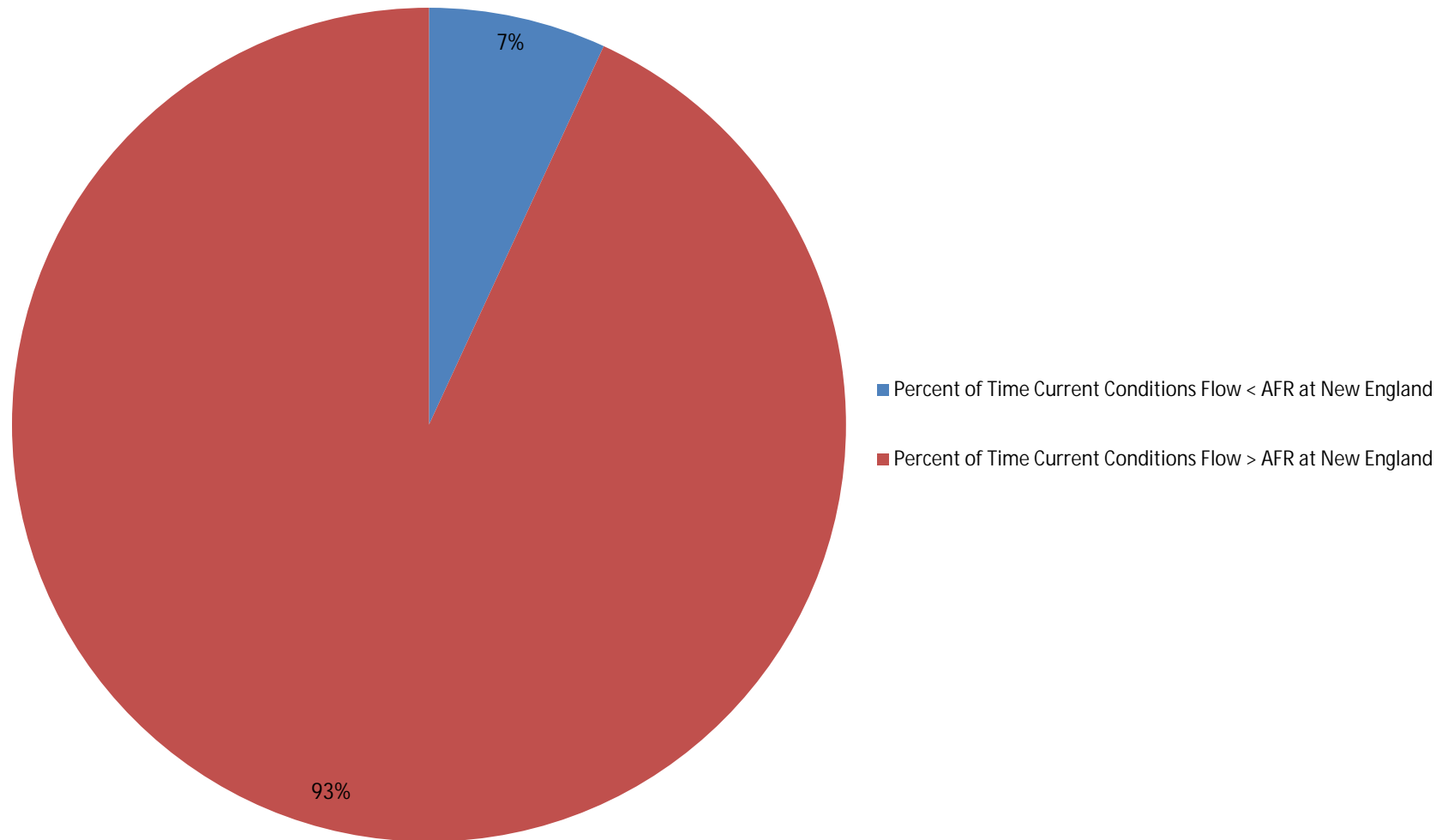


Figure F-1-2 Current Conditions Flow Less Than Adjusted Flow Regime
at New England (Chart Type 2)

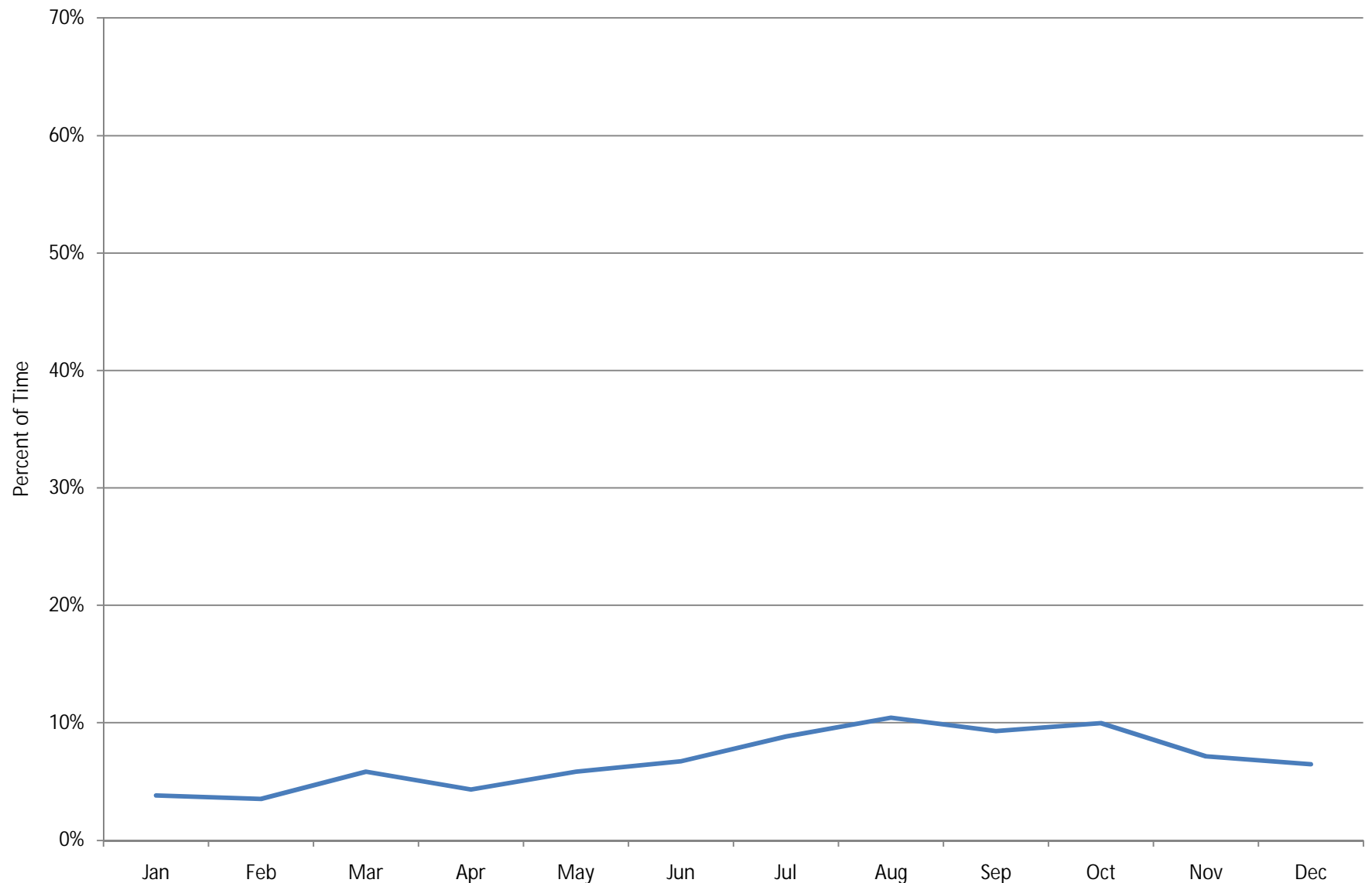


Figure F-1-3 Range of Deficit of Flow Regime at New England (Chart Type 3)

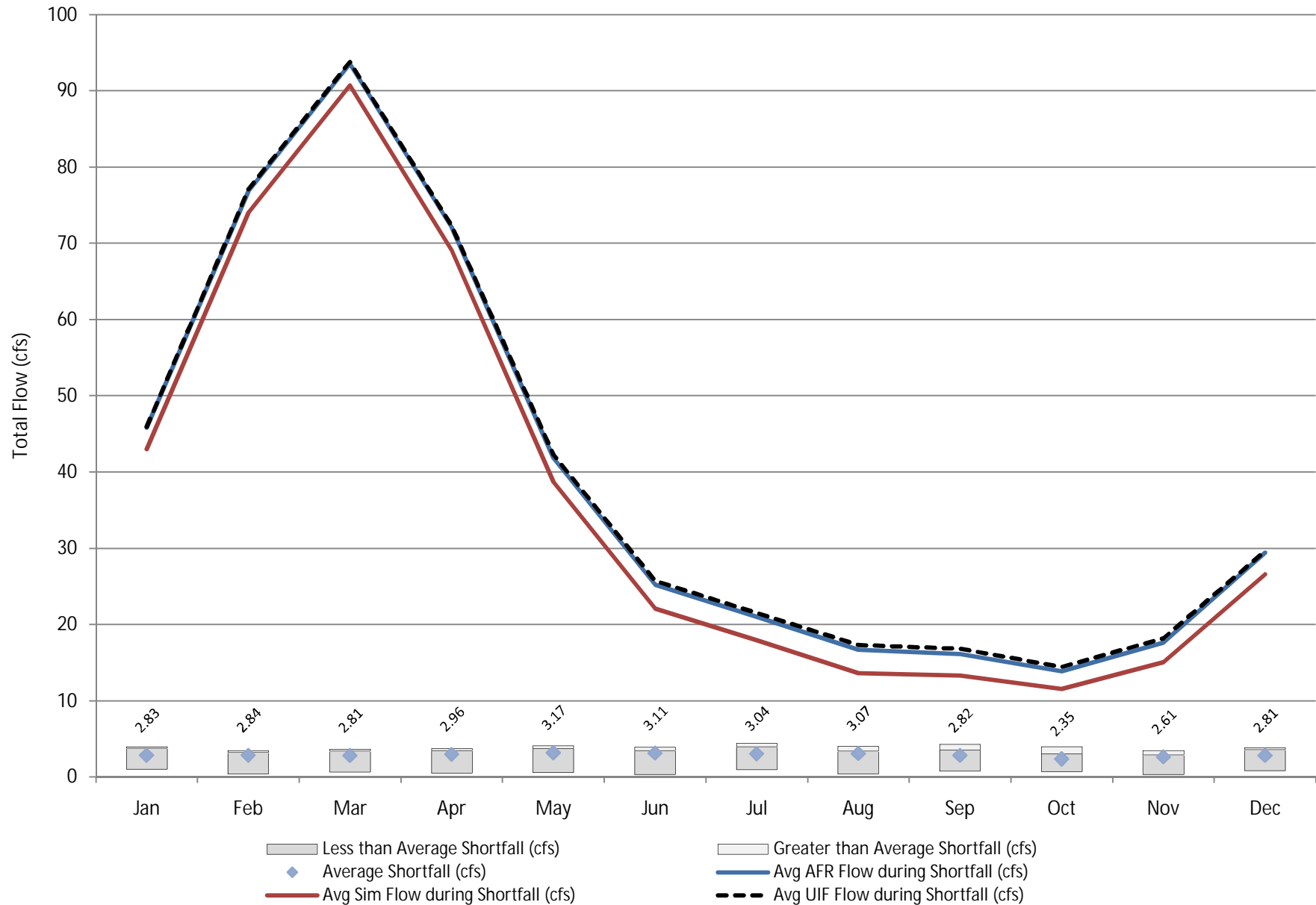


Figure F-1-4 Unimpaired Monthly Range of Flow at New England (Chart Type 4)

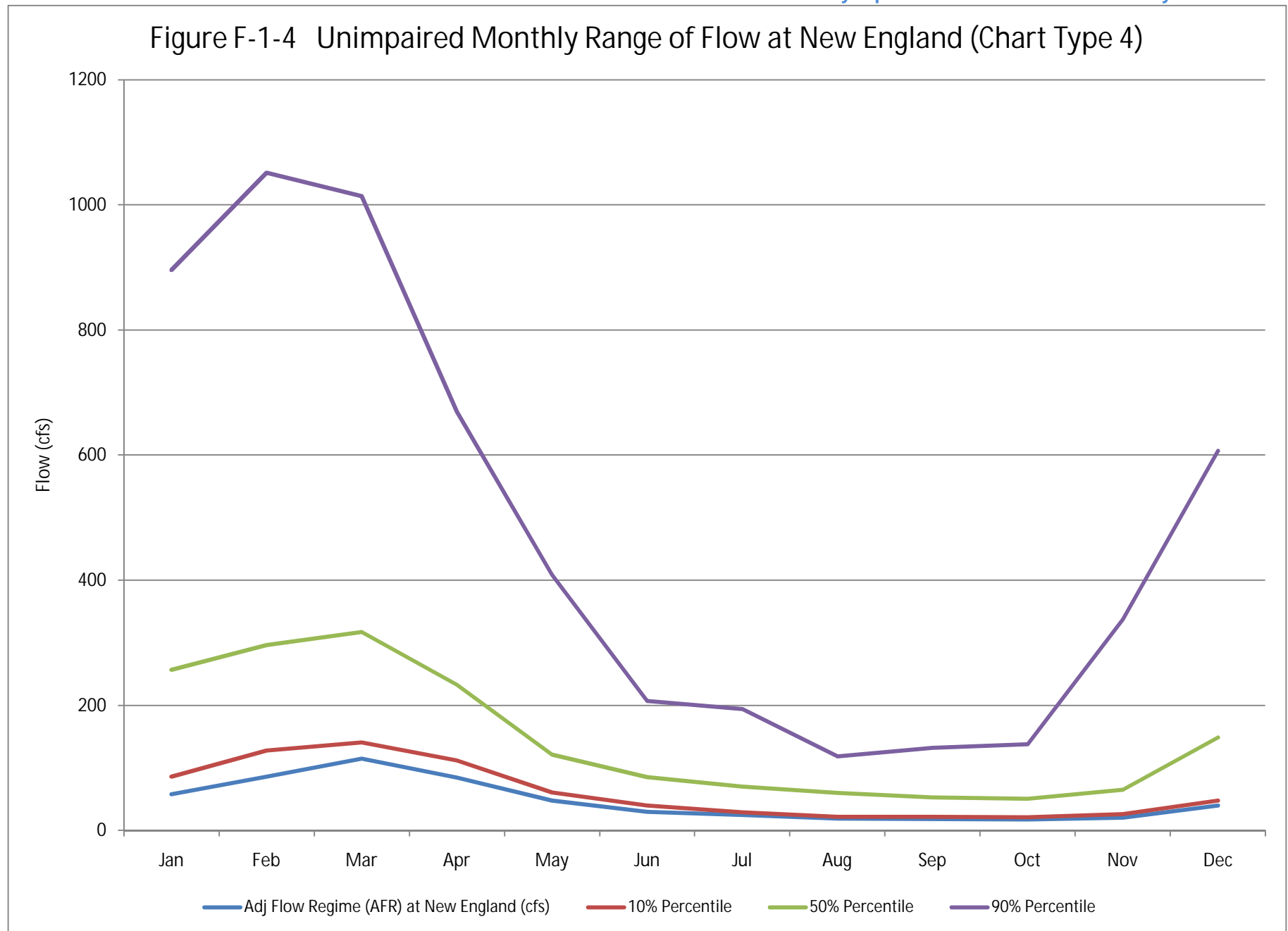


Figure F-1-5 Simulated Monthly Range of Flow at New England (Chart Type 5)

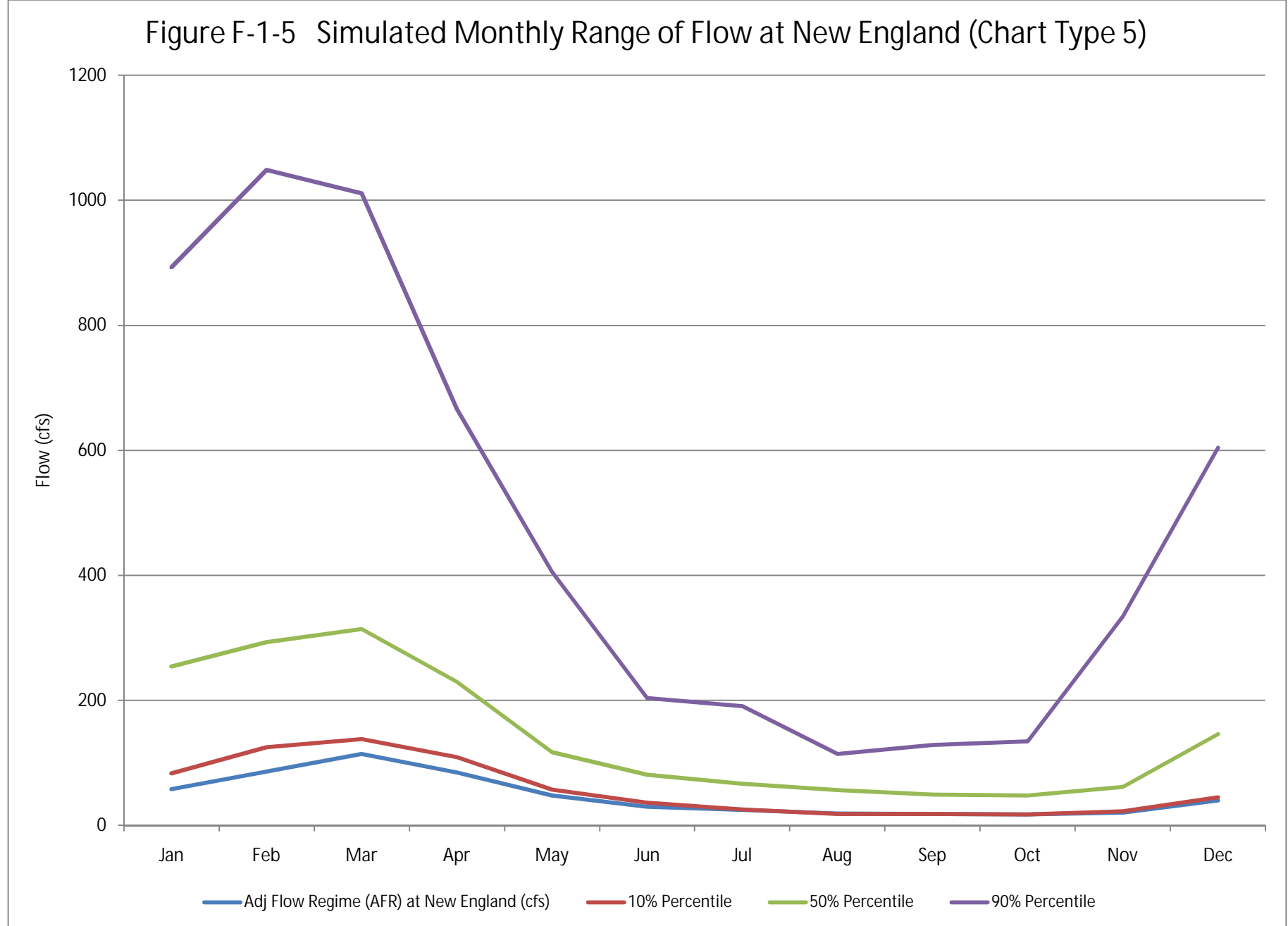


Figure F-2-1 Average Percentage of Flow Compared to Flow Regime at Chickamauga (Chart Type 1)

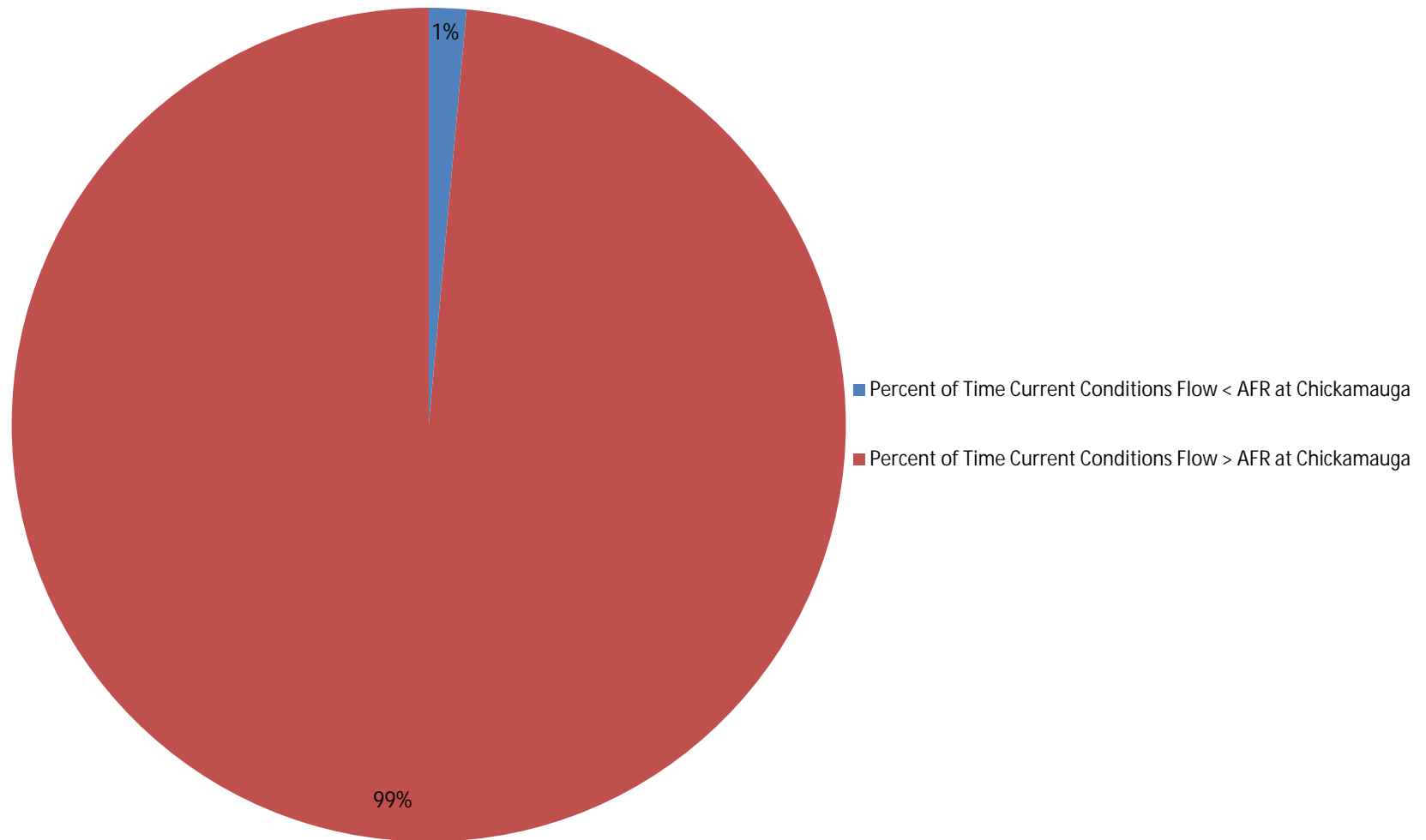


Figure F-2-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Chickamauga (Chart Type 2)

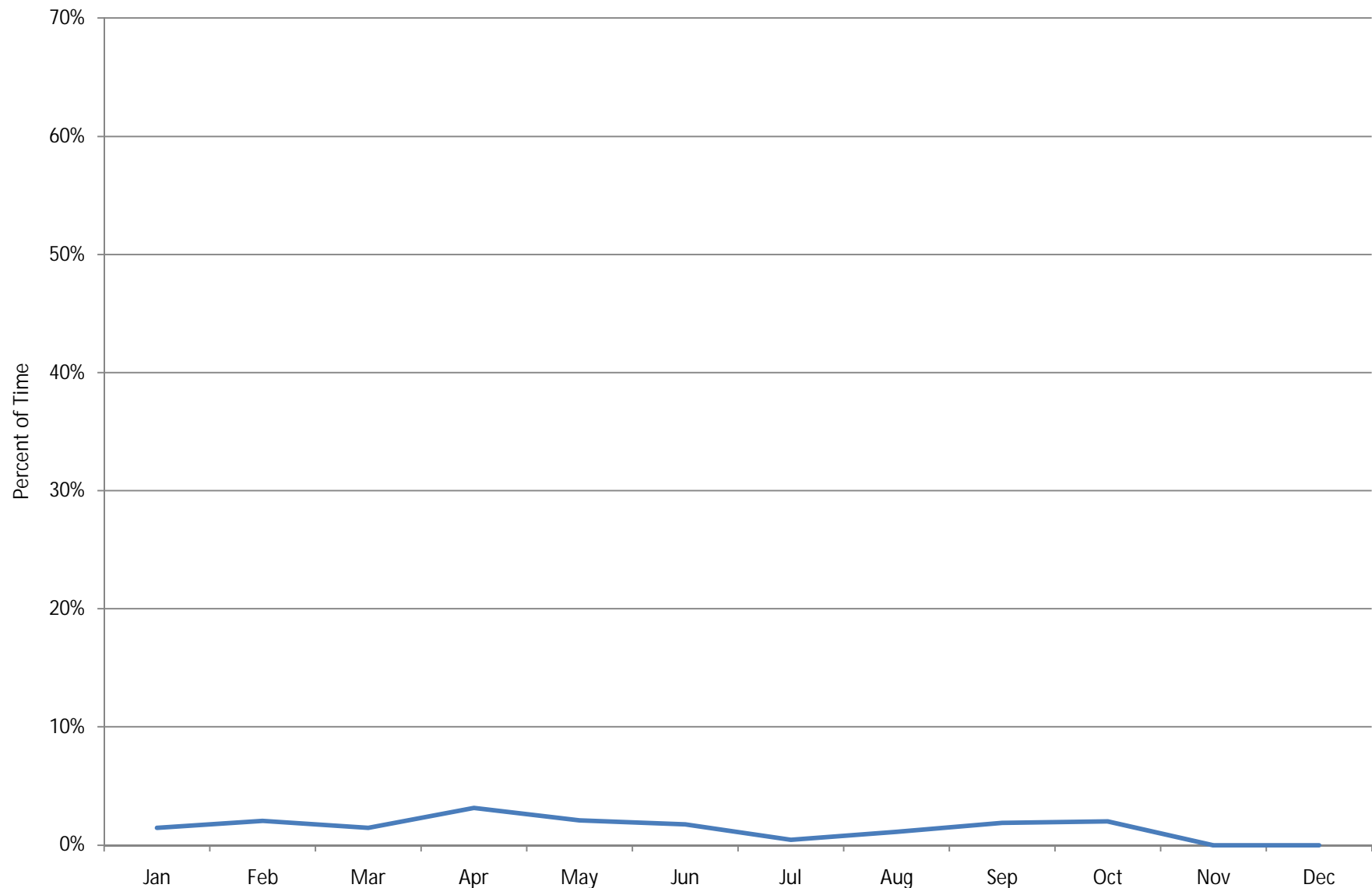


Figure F-2-3 Range of Deficit of Flow Regime at Chickamauga (Chart Type 3)

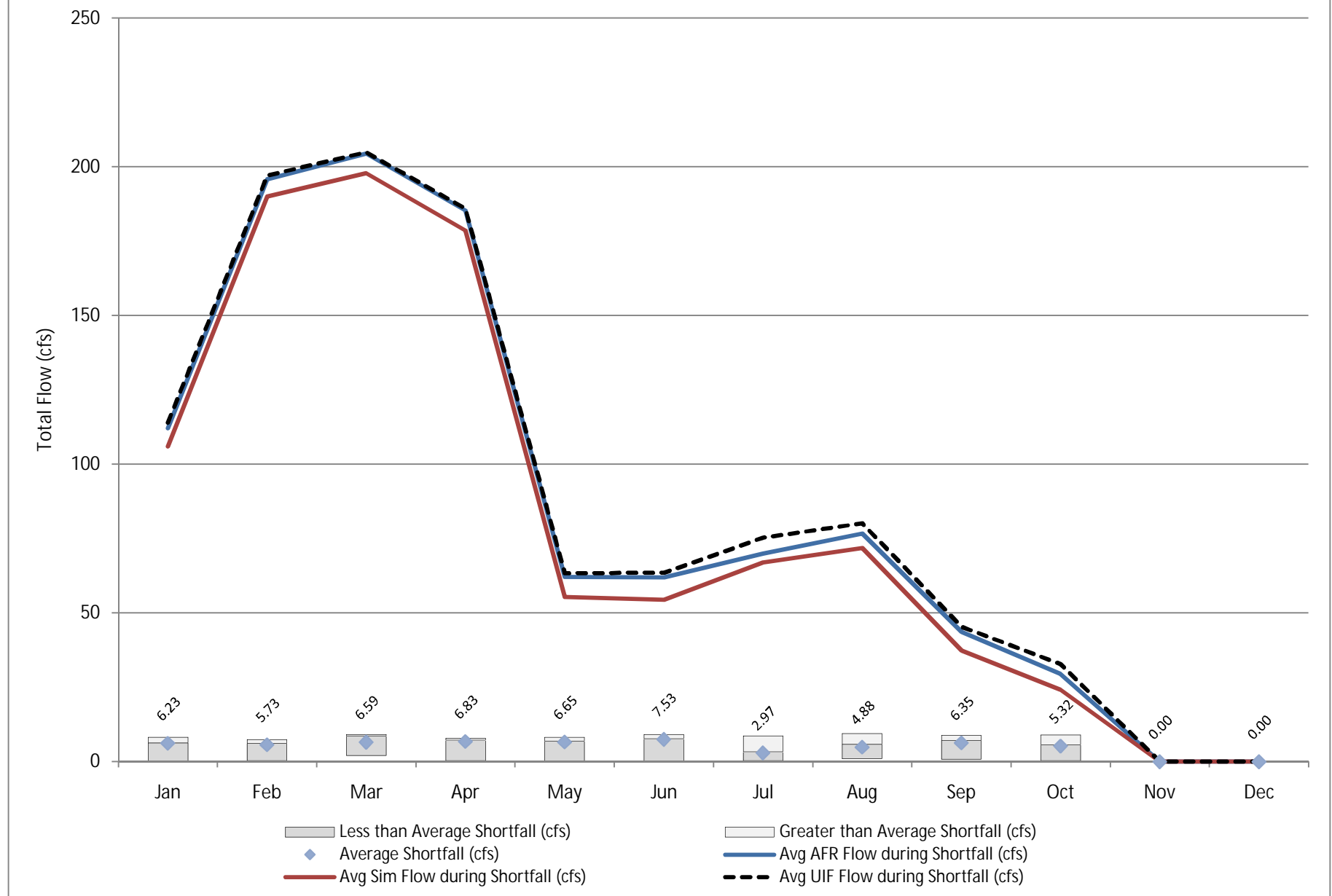


Figure F-2-4 Unimpaired Monthly Range of Flow at Chickamauga (Chart Type 4)

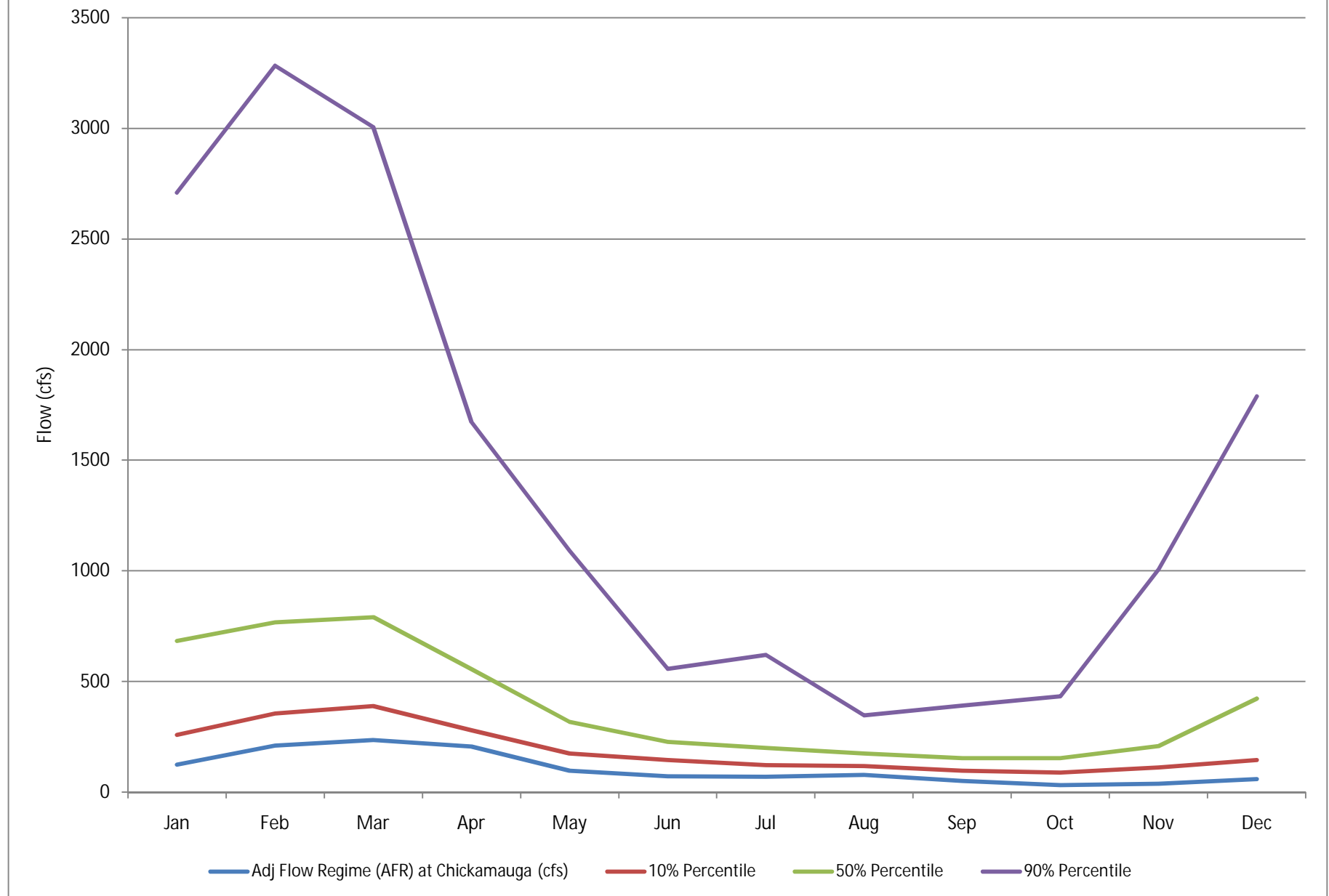


Figure F-2-5 Simulated Monthly Range of Flow at Chickamauga (Chart Type 5)

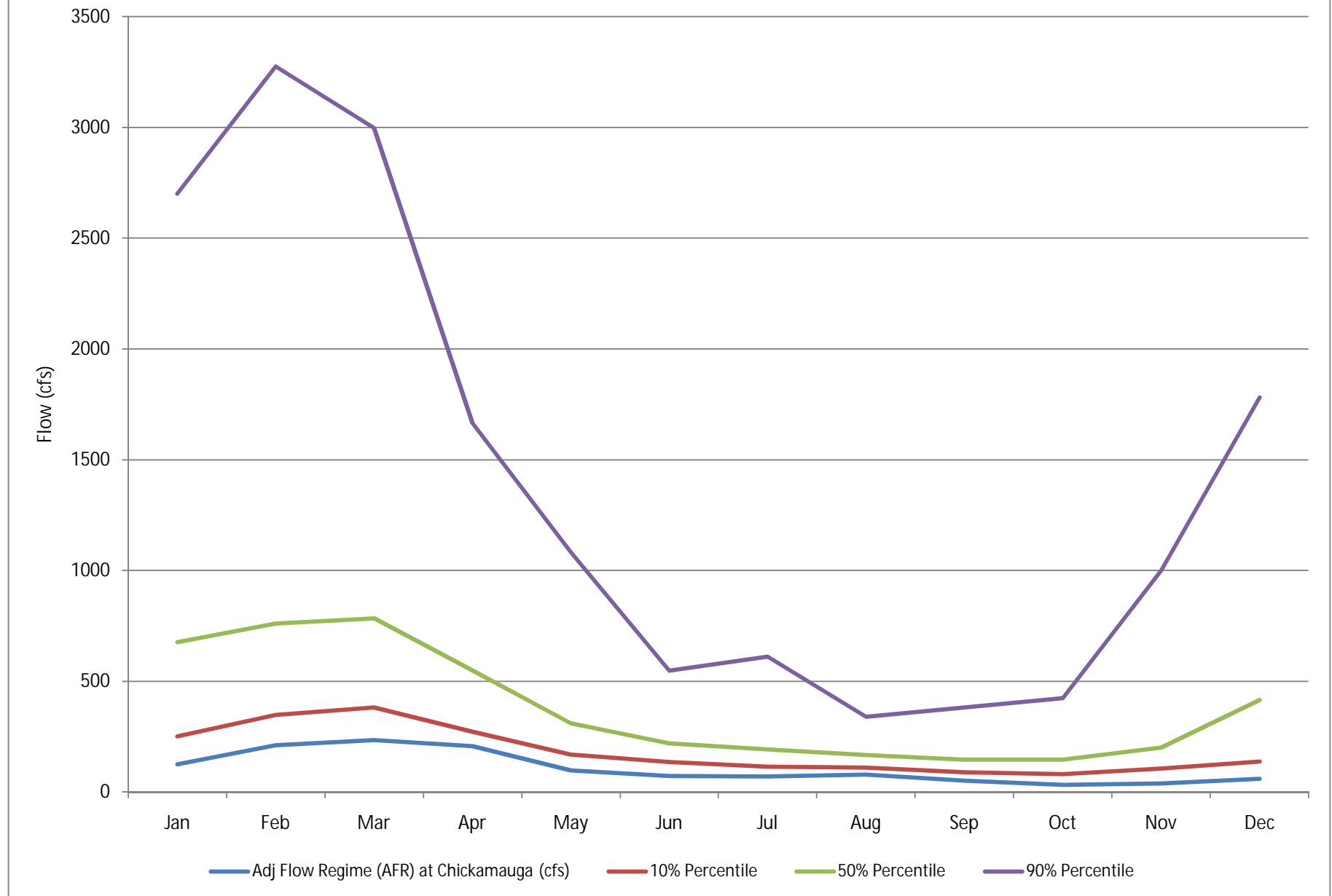


Figure F-3-1 Total Storage at Blue Ridge
(Chart Type 6)

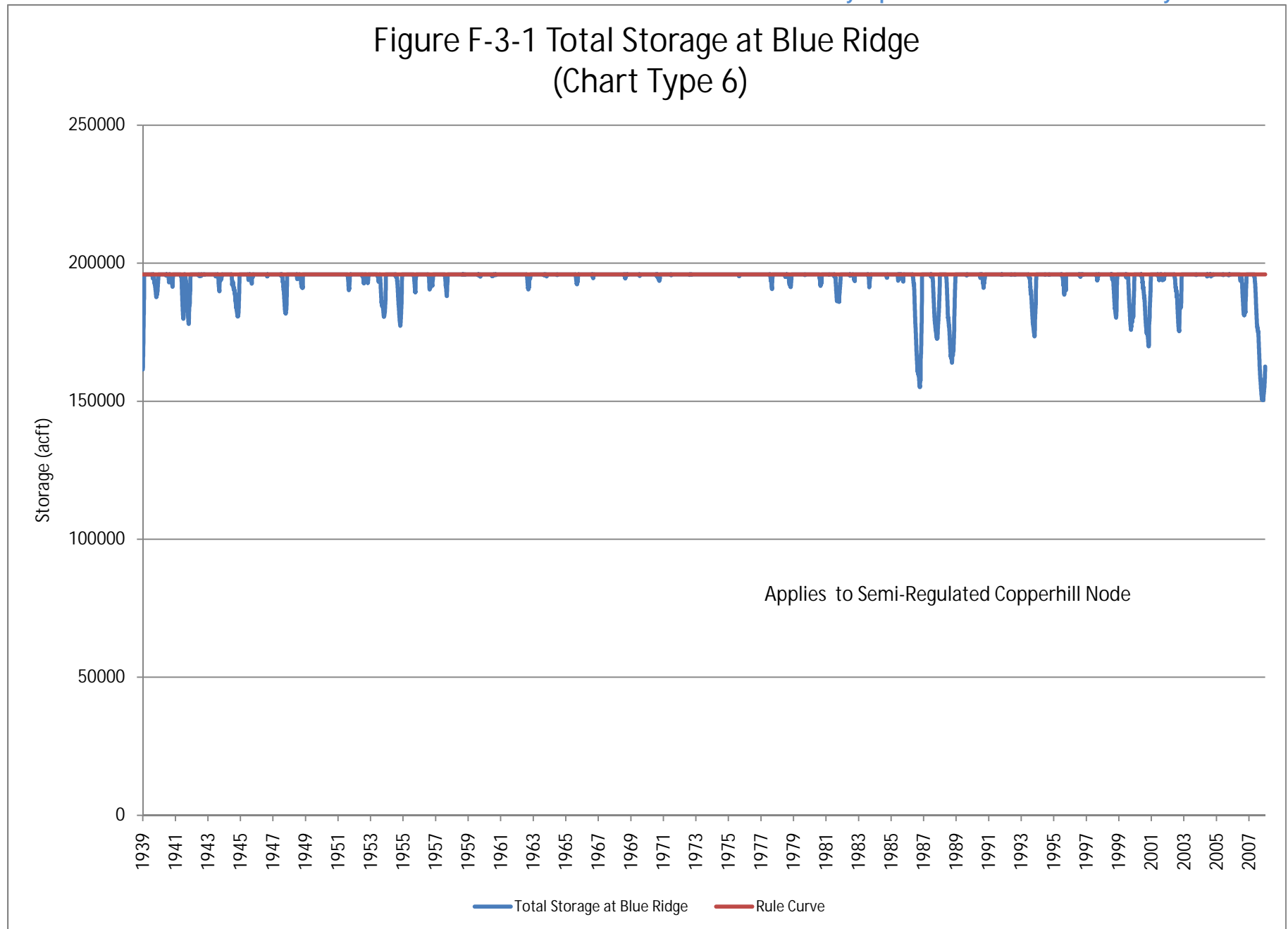


Figure F-3-2 Percent of Total Storage at Blue Ridge Relative to Rule Curve(Chart Type 7)

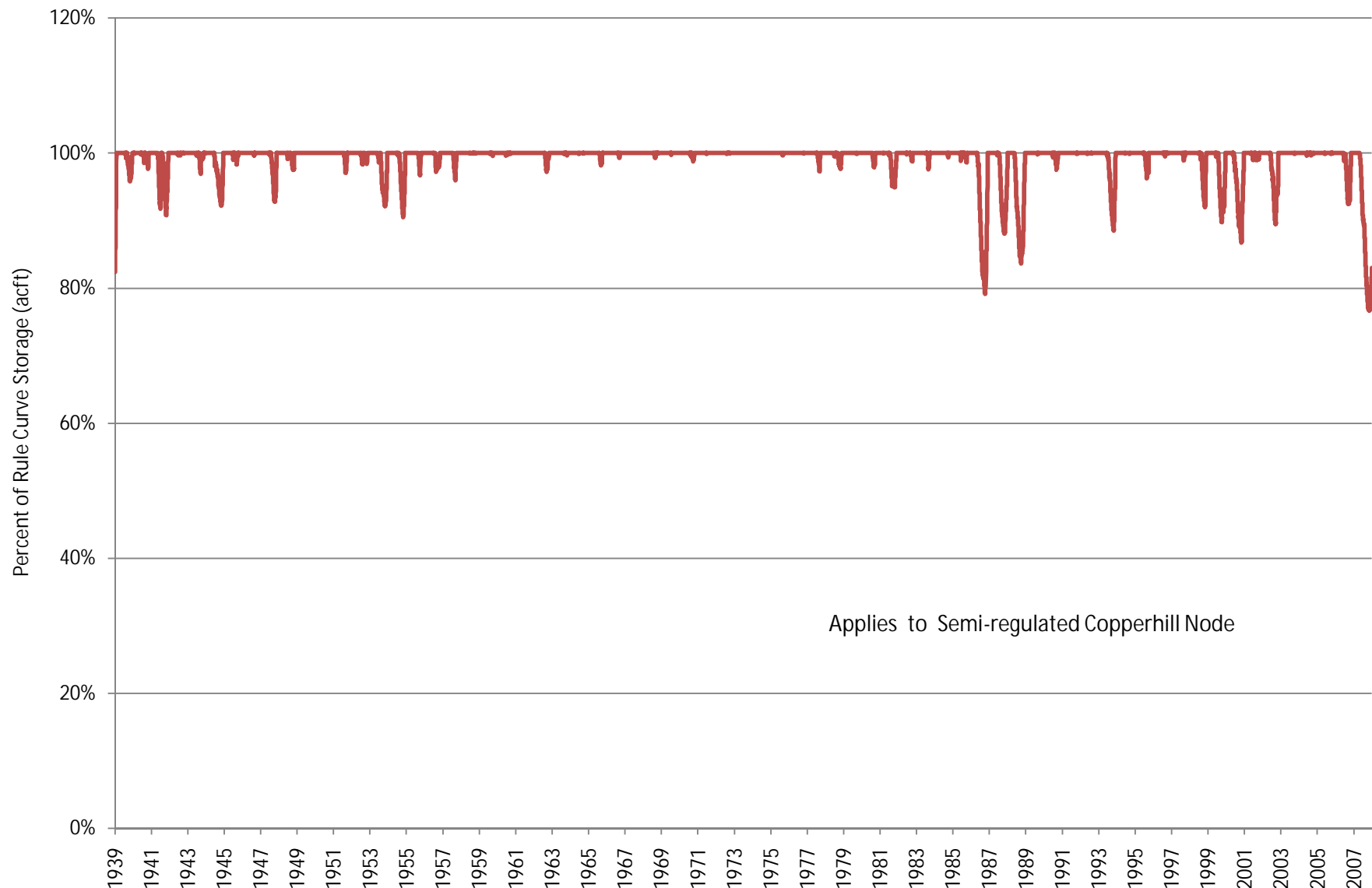


Figure F-3-3 Frequency of Exceedence of Percent Total Storage at Blue Ridge Relative to Rule Curve
(Chart Type 8)

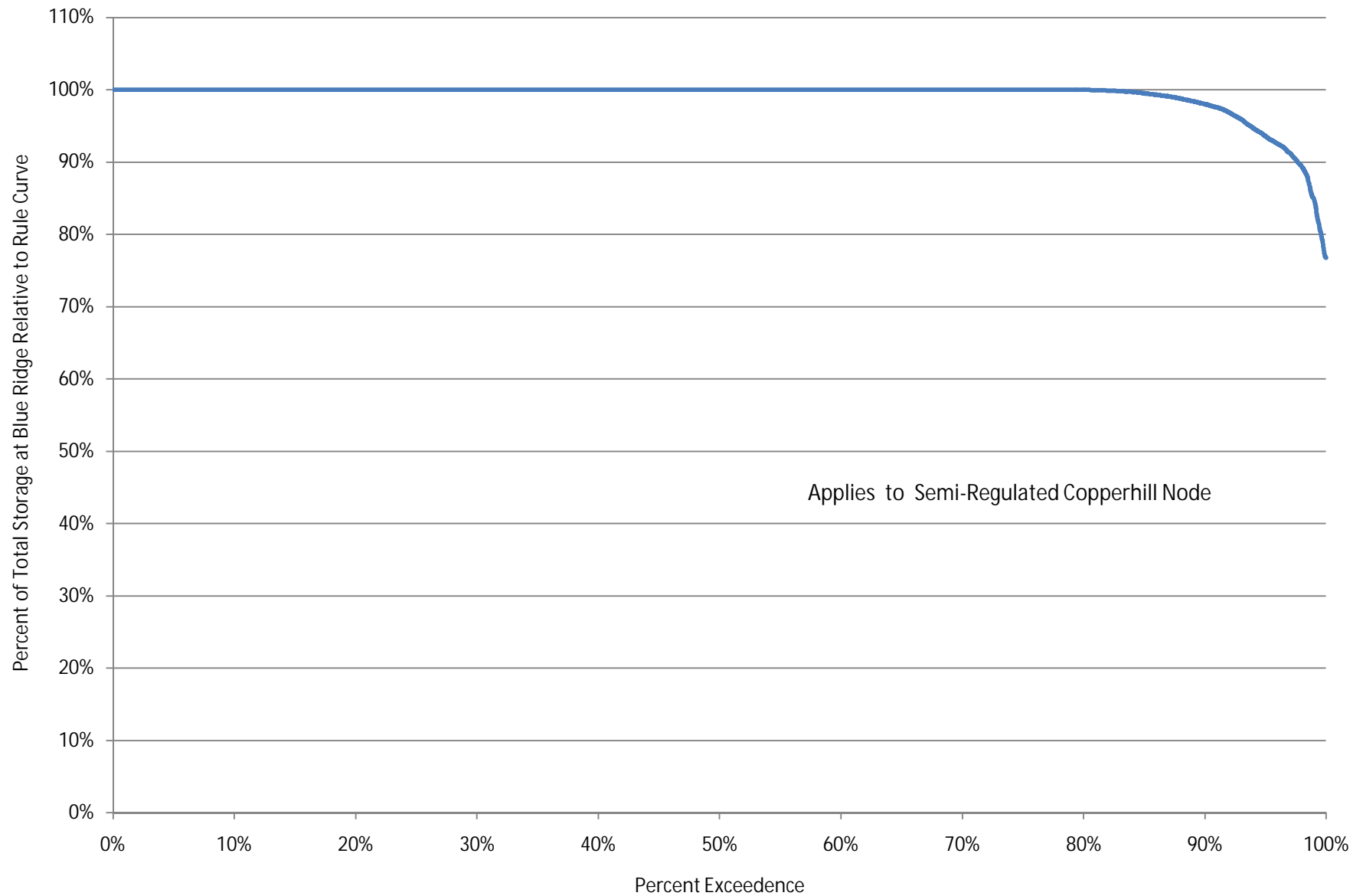


Figure F-4-1 Average Percentage of Flow Compared to Flow Regime at Little Tennessee (Chart Type 1)

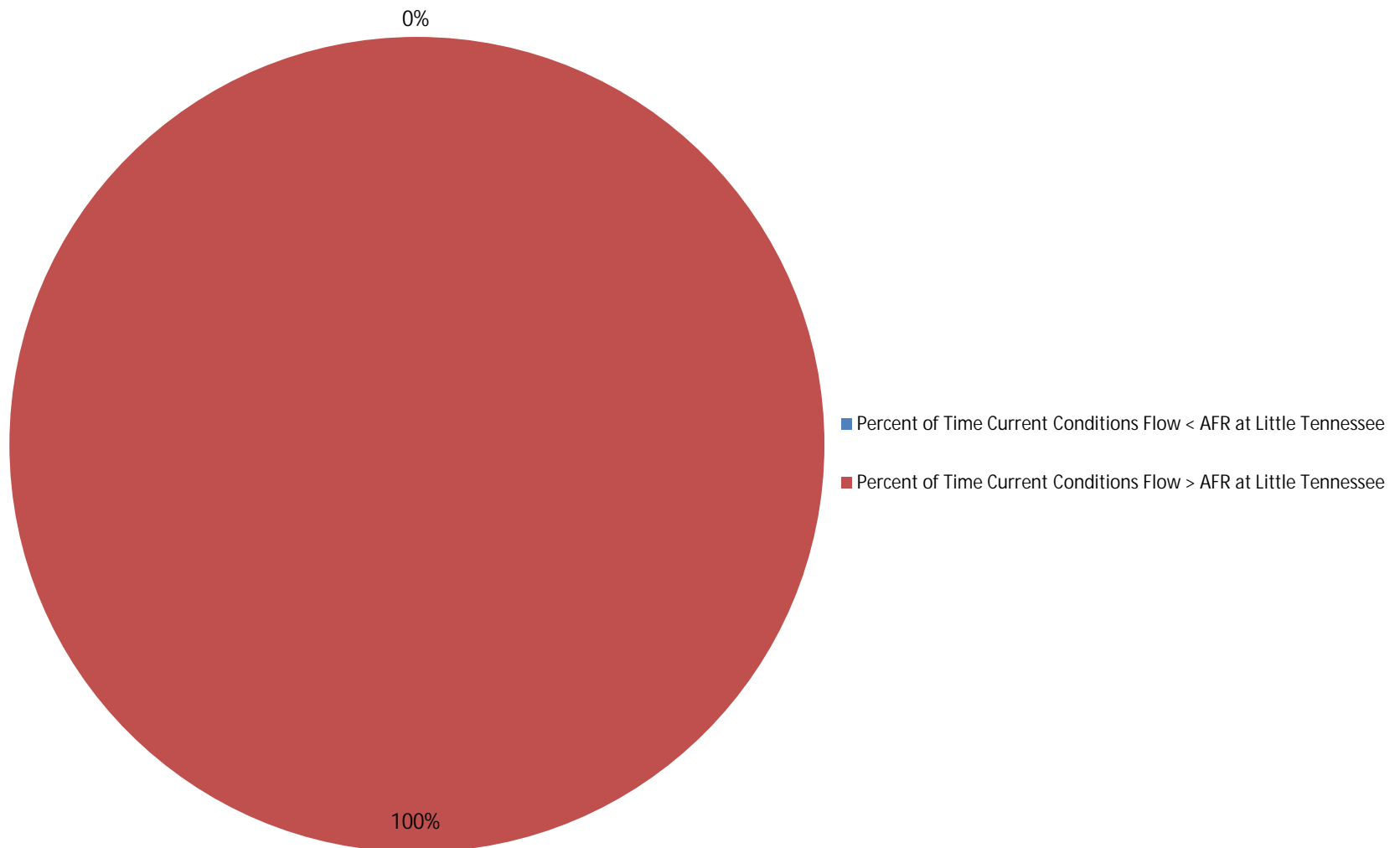


Figure F-4-2 Current Conditions Flow Less Than Adjusted Flow Regime
at Little Tennessee (Chart Type 2)

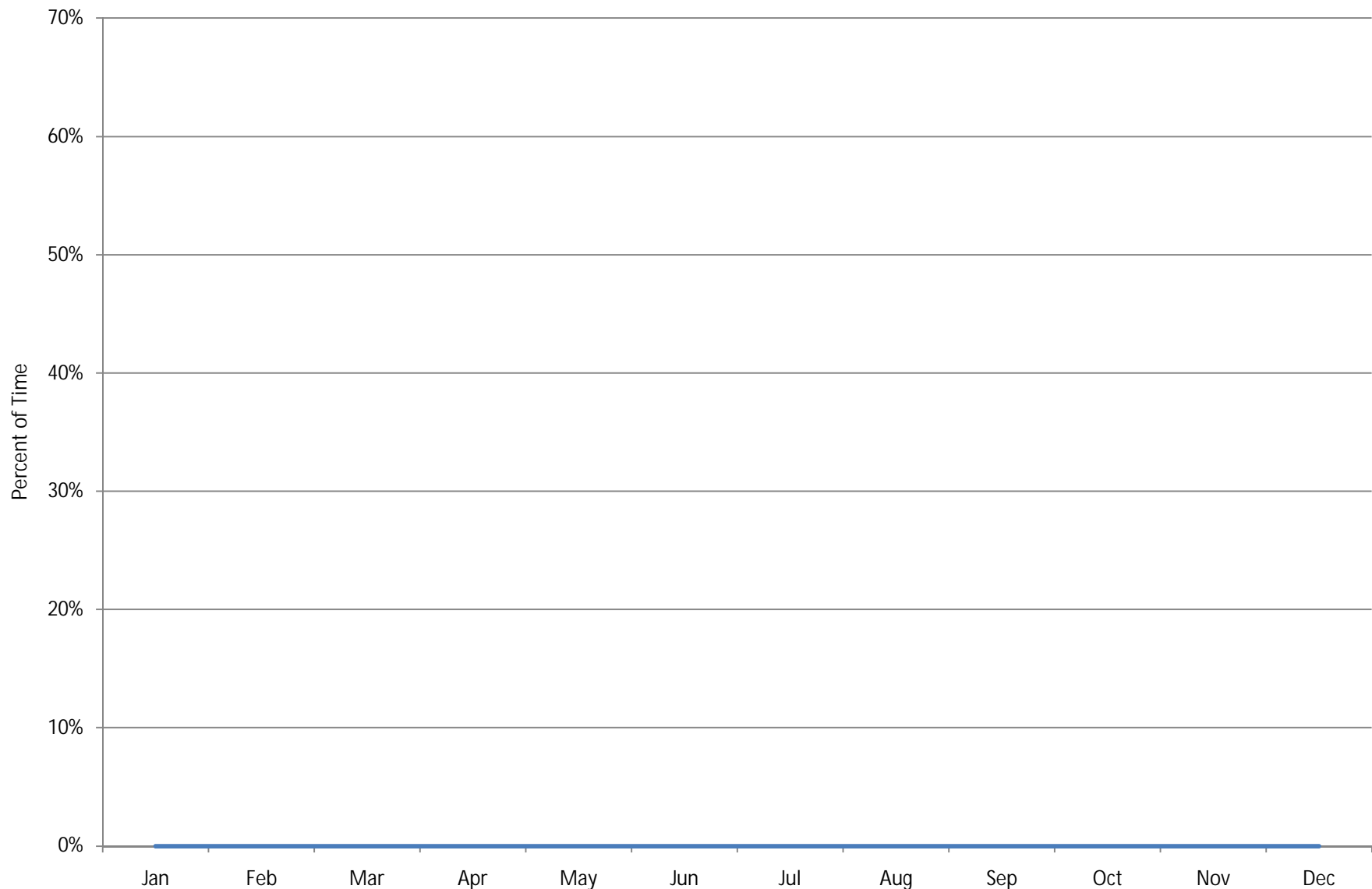


Figure F-4-3 Range of Deficit of Flow Regime at Little Tennessee (Chart Type 3)

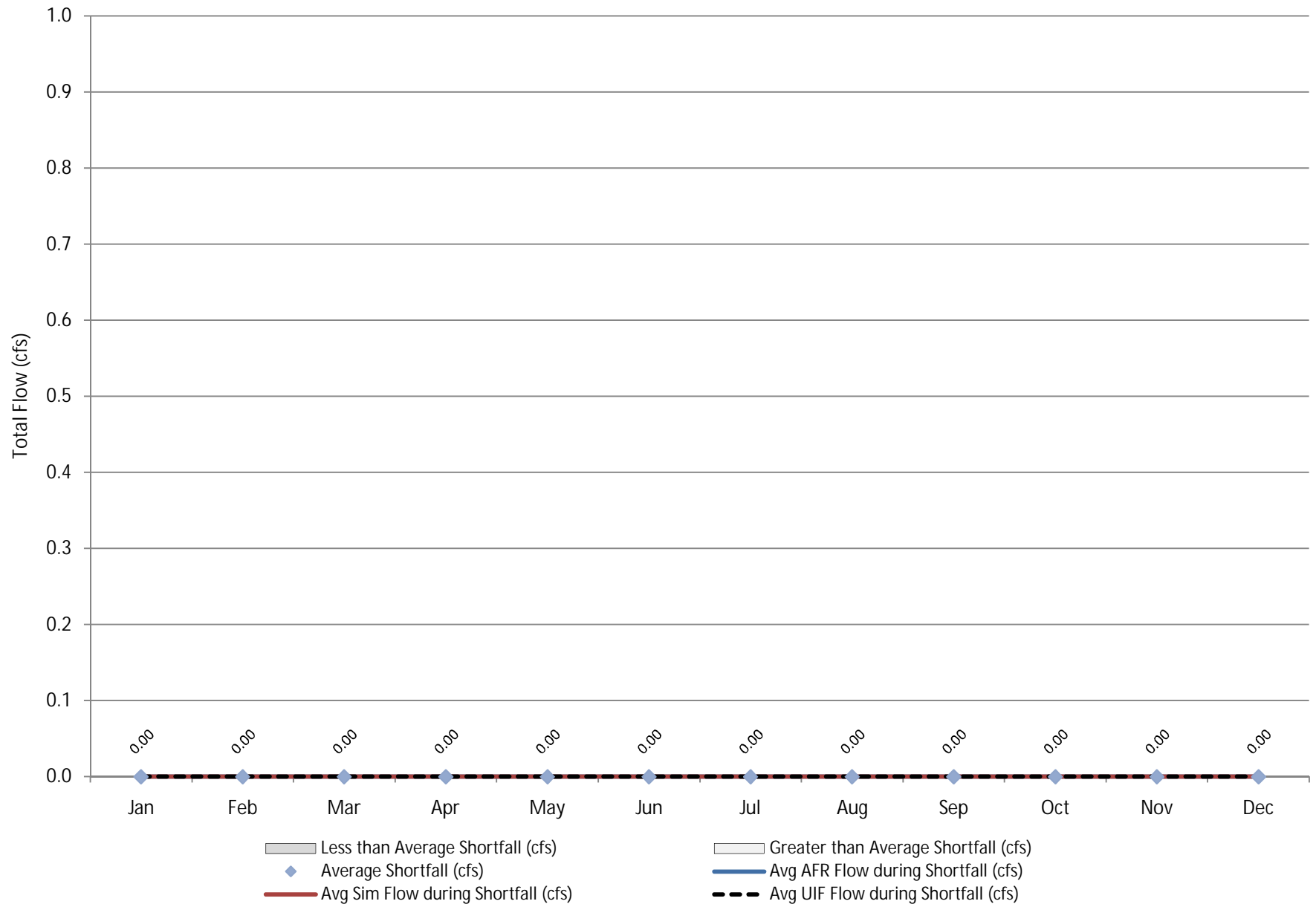


Figure F-4-4 Unimpaired Monthly Range of Flow at Little Tennessee (Chart Type 4)

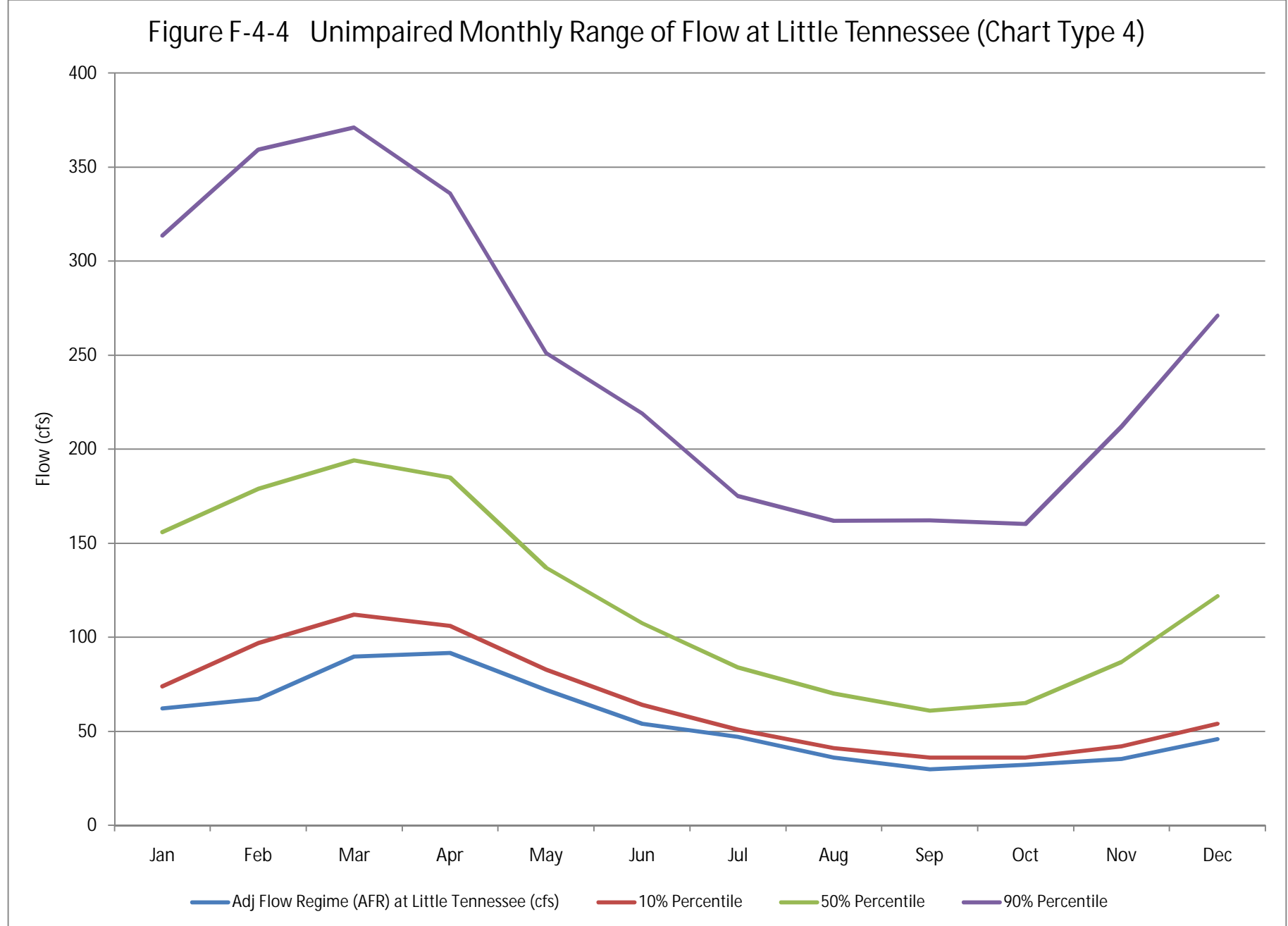


Figure F-4-5 Simulated Monthly Range of Flow at Little Tennessee (Chart Type 5)

