

**APPENDIX N**

**Habitat Time Series Relationships**

(See Attached Electronic Media)

**List of Attachments**

Attachment A: Database of Habitat Time Series Relationship Development for Each Site

**Duncan Creek Below Diversion – Top of Reach**

Figure N1A – 1A. Duncan Creek – D6.3 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 800.804 (Top of Reach).

Figure N1A – 1B. Duncan Creek – D6.3 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 800.804 (Top of Reach).

Figure N1A – 2A. Duncan Creek – D6.3 Rainbow Trout Small Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 800.804 (Top of Reach).

Figure N1A – 2B. Duncan Creek – D6.3 Rainbow Trout Small Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 800.804 (Top of Reach).

Figure N1A – 2C. Duncan Creek – D6.3 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 800.804 (Top of Reach).

**Duncan Creek Below Diversion – Bottom of Reach**

Figure N1B – 1A. Duncan Creek – D6.3 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 805.806 (Bottom of Reach).

Figure N1B – 1B. Duncan Creek – D6.3 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 805.806 (Bottom of Reach).

Figure N1B – 2A. Duncan Creek – D6.3 Rainbow Trout Small Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above

- Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 805.806 (Bottom of Reach).
- Figure N1B – 2B. Duncan Creek – D6.3 Rainbow Trout Small Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 805.806 (Bottom of Reach).
- Figure N1B – 2C. Duncan Creek – D6.3 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 805.806 (Bottom of Reach).

#### North Fork Long Canyon Creek Below Diversion

- Figure N2 – 1A. North Fork Long Canyon – NFLC1.9 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 817.819.
- Figure N2 – 1B. North Fork Long Canyon – NFLC1.9 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 817.819.
- Figure N2 – 2A. North Fork Long Canyon – NFLC1.9 Rainbow Trout Small Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 817.819.
- Figure N2 – 2B. North Fork Long Canyon – NFLC1.9 Rainbow Trout Small Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 817.819.
- Figure N2 – 2C. North Fork Long Canyon – NFLC1.9 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 817.819.

#### South Fork Long Canyon Creek Below Diversion

- Figure N3 – 1A. South Fork Long Canyon – SFLC2.3 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 820.822.

- Figure N3 – 1B. South Fork Long Canyon – SFLC2.3 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 820.822.
- Figure N3 – 2A. South Fork Long Canyon – SFLC2.3 Rainbow Trout Small Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 820.822.
- Figure N3 – 2B. South Fork Long Canyon – SFLC2.3 Rainbow Trout Small Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 820.822.
- Figure N3 – 2C. South Fork Long Canyon – SFLC2.3 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 820.822.

#### Long Canyon Creek Above Ramsey Crossing – Top of Reach

- Figure N4A – 1A. Long Canyon – LC9.0 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 825.828 (Top of Reach).
- Figure N4A – 1B. Long Canyon – LC9.0 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 825.828 (Top of Reach).
- Figure N4A – 2A. Long Canyon – LC9.0 Rainbow Trout Small Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 825.828 (Top of Reach).
- Figure N4A – 2B. Long Canyon – LC9.0 Rainbow Trout Small Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 825.828 (Top of Reach).
- Figure N4A – 2C. Long Canyon – LC9.0 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 825.828 (Top of Reach).

Long Canyon Creek Above Ramsey Crossing – Bottom of Reach

- Figure N4B – 1A. Long Canyon – LC9.0 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 830.842 (Bottom of Reach).
- Figure N4B – 1B. Long Canyon – LC9.0 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 830.842 (Bottom of Reach).
- Figure N4B – 2A. Long Canyon – LC9.0 Rainbow Trout Small Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 830.842 (Bottom of Reach).
- Figure N4B – 2B. Long Canyon – LC9.0 Rainbow Trout Small Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 830.842 (Bottom of Reach).
- Figure N4B – 2C. Long Canyon – LC9.0 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 830.842 (Bottom of Reach).

Middle Fork American River Below French Meadows – Top of Reach

- Figure N5A – 1A. Middle Fork of the American River – MF44.7 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 530.802 (Top of Reach).
- Figure N5A – 1B. Middle Fork of the American River – MF44.7 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 530.802 (Top of Reach).
- Figure N5A – 2A. Middle Fork of the American River – MF44.7 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 530.802 (Top of Reach).

Figure N5A – 2B. Middle Fork of the American River – MF44.7 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 530.802 (Top of Reach).

Figure N5A – 2C. Middle Fork of the American River – MF44.7 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 530.802 (Top of Reach).

Middle Fork American River Below French Meadows – Bottom of Reach

Figure N5B – 1A. Middle Fork of the American River – MF44.7 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 802.806 + 806 Accretion (Bottom of Reach).

Figure N5B – 1B. Middle Fork of the American River – MF44.7 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 802.806 + 806 Accretion (Bottom of Reach).

Figure N5B – 2A. Middle Fork of the American River – MF44.7 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 802.806 + 806 Accretion (Bottom of Reach).

Figure N5B – 2B. Middle Fork of the American River – MF44.7 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 802.806 + 806 Accretion (Bottom of Reach).

Figure N5B – 2C. Middle Fork of the American River – MF44.7 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 802.806 + 806 Accretion (Bottom of Reach).

Middle Fork American River Above Interbay – Top of Reach

Figure N6A – 1A. Middle Fork of the American River – MF36.2 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 (Top of Reach).

- Figure N6A – 1B. Middle Fork of the American River – MF36.2 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 (Top of Reach).
- Figure N6A – 2A. Middle Fork of the American River – MF36.2 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 (Top of Reach).
- Figure N6A – 2B. Middle Fork of the American River – MF36.2 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 (Top of Reach).
- Figure N6A – 2C. Middle Fork of the American River – MF36.2 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 (Top of Reach).

Middle Fork American River Above Interbay – Bottom of Reach

- Figure N6B – 1A. Middle Fork of the American River – MF36.2 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 + 810 Accretion (Bottom of Reach).
- Figure N6B – 1B. Middle Fork of the American River – MF36.2 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 + 810 Accretion (Bottom of Reach).
- Figure N6B – 2A. Middle Fork of the American River – MF36.2 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 + 810 Accretion (Bottom of Reach).
- Figure N6B – 2B. Middle Fork of the American River – MF36.2 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 + 810 Accretion (Bottom of Reach).

Figure N6B – 2C. Middle Fork of the American River – MF36.2 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 806.810 + 810 Accretion (Bottom of Reach).

Middle Fork American River Above Ralston Afterbay – Top of Reach

Figure N7A – 1A. Middle Fork of the American River – MF26.2 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).

Figure N7A – 1B. Middle Fork of the American River – MF26.2 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).

Figure N7A – 1C. Middle Fork of the American River – MF26.2 Foothill Yellow-Legged Frog Breeding Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).

Figure N7A – 2A. Middle Fork of the American River – MF26.2 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).

Figure N7A – 2B. Middle Fork of the American River – MF26.2 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).

Figure N7A – 2C. Middle Fork of the American River – MF26.2 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).

Figure N7A – 2D. Middle Fork of the American River – MF26.2 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).



- Figure N7A – 2E. Middle Fork of the American River – MF26.2 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).
- Figure N7A – 2F. Middle Fork of the American River – MF26.2 Foothill Yellow-Legged Frog Tadpole Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 810.812 (Top of Reach).

Middle Fork American River Above Ralston Afterbay – Bottom of Reach

- Figure N7B – 1A. Middle Fork of the American River – MF26.2 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).
- Figure N7B – 1B. Middle Fork of the American River – MF26.2 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).
- Figure N7B – 1C. Middle Fork of the American River – MF26.2 Foothill Yellow-Legged Frog Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).
- Figure N7B – 2A. Middle Fork of the American River – MF26.2 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).
- Figure N7B – 2B. Middle Fork of the American River – MF26.2 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).
- Figure N7B – 2C. Middle Fork of the American River – MF26.2 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).

- Figure N7B – 2D. Middle Fork of the American River – MF26.2 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).
- Figure N7B – 2E. Middle Fork of the American River – MF26.2 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).
- Figure N7B – 2F. Middle Fork of the American River – MF26.2 Foothill Yellow-Legged Frog Tadpole Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 813.845 (Bottom of Reach).

#### Rubicon River Above Parsley Bar (Helicopter Site) – Top of Reach

- Figure N8A – 1A. Rubicon River – R25.7 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 540.832 (Top of Reach).
- Figure N8A – 1B. Rubicon River – R25.7 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 540.832 (Top of Reach).
- Figure N8A – 2A. Rubicon River – R25.7 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 540.832 (Top of Reach).
- Figure N8A – 2B. Rubicon River – R25.7 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 540.832 (Top of Reach).
- Figure N8A – 2C. Rubicon River – R25.7 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 540.832 (Top of Reach).

#### Rubicon River Above Parsley Bar (Helicopter Site) – Bottom of Reach

- Figure N8B – 1A. Rubicon River – R25.7 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 832.835 (Bottom of Reach).

- Figure N8B – 1B. Rubicon River – R25.7 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 832.835 (Bottom of Reach).
- Figure N8B – 2A. Rubicon River – R25.7 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 832.835 (Bottom of Reach).
- Figure N8B – 2B. Rubicon River – R25.7 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 832.835 (Bottom of Reach).
- Figure N8B – 2C. Rubicon River – R25.7 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 832.835 (Bottom of Reach).

#### Rubicon River Below Ellicott Bridge – Top of Reach

- Figure N9A – 1A. Rubicon River – R20.9 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 834.836 (Top of Reach).
- Figure N9A – 1B. Rubicon River – R20.9 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 834.836 (Top of Reach).
- Figure N9A – 2A. Rubicon River – R20.9 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 834.836 (Top of Reach).
- Figure N9A – 2B. Rubicon River – R20.9 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 834.836 (Top of Reach).
- Figure N9A – 2C. Rubicon River – R20.9 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 834.836 (Top of Reach).

Figure N9A – 2D. Rubicon River – R20.9 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 834.836 (Top of Reach).

Figure N9A – 2E. Rubicon River – R20.9 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 834.836 (Top of Reach).

Rubicon River Below Ellicott Bridge – Bottom of Reach

Figure N9B – 1A. Rubicon River – R20.9 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 840.842 + 842 Accretion (Bottom of Reach).

Figure N9B – 1B. Rubicon River – R20.9 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 840.842 + 842 Accretion (Bottom of Reach).

Figure N9B – 2A. Rubicon River – R20.9 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 840.842 + 842 Accretion (Bottom of Reach).

Figure N9B – 2B. Rubicon River – R20.9 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 840.842 + 842 Accretion (Bottom of Reach).

Figure N9B – 2C. Rubicon River – R20.9 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 840.842 + 842 Accretion (Bottom of Reach).

Figure N9B – 2D. Rubicon River – R20.9 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 840.842 + 842 Accretion (Bottom of Reach).

Figure N9B – 2E. Rubicon River – R20.9 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 840.842 + 842 Accretion (Bottom of Reach).

Rubicon River at Confluence with Long Canyon Creek – Top of Reach

Figure N10A – 1A. Rubicon River – R3.5 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 1B. Rubicon River – R3.5 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 1C. Rubicon River – R3.5 Foothill Yellow-Legged Frog Breeding Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 2A. Rubicon River – R3.5 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 2B. Rubicon River – R3.5 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 2C. Rubicon River – R3.5 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 2D. Rubicon River – R3.5 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 2E. Rubicon River – R3.5 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Figure N10A – 2F. Rubicon River – R3.5 Foothill Yellow-Legged Frog Tadpole Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 (Top of Reach).

Rubicon River at Confluence with Long Canyon Creek – Bottom of Reach

Figure N10B – 1A. Rubicon River – R3.5 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 1B. Rubicon River – R3.5 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 1C. Rubicon River – R3.5 Foothill Yellow-Legged Frog Breeding Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 2A. Rubicon River – R3.5 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 2B. Rubicon River – R3.5 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 2C. Rubicon River – R3.5 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 2D. Rubicon River – R3.5 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 2E. Rubicon River – R3.5 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Figure N10B – 2F. Rubicon River – R3.5 Foothill Yellow-Legged Frog Tadpole Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 842.815 + 815 Accretion (Bottom of Reach).

Middle Fork of the American River – MF14.1 at Fords Bar (15-Minute Data)

Figure N11 – 1A. Middle Fork of the American River – MF14.1 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Figure N11 – 1B. Middle Fork of the American River – MF14.1 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model 855.857 (15-Minute Data).

Figure N11 – 1C. Middle Fork of the American River – MF14.1 Foothill Yellow-Legged Frog Breeding Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Figure N11 – 2A. Middle Fork of the American River – MF14.1 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Figure N11 – 2B. Middle Fork of the American River – MF14.1 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Figure N11 – 2C. Middle Fork of the American River – MF14.1 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Figure N11 – 2D. Middle Fork of the American River – MF14.1 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Figure N11 – 2E. Middle Fork of the American River – MF14.1 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type

- Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).
- Figure N11 – 2F. Middle Fork of the American River – MF14.1 Foothill Yellow-Legged Frog Tadpole Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Middle Fork of the American River – MF4.8 at Buckeye Bar (15-Minute Data)

- Figure N12 – 1A. Middle Fork of the American River – MF14.1 Rainbow Trout Spawning Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).
- Figure N12 – 1B. Middle Fork of the American River – MF14.1 Rainbow Trout Spawning Depth Sensitivity Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model 855.857 (15-Minute Data).
- Figure N12 – 1C. Middle Fork of the American River – MF14.1 Foothill Yellow-Legged Frog Breeding Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).
- Figure N12 – 2A. Middle Fork of the American River – MF14.1 Rainbow Trout Large Stream Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).
- Figure N12 – 2B. Middle Fork of the American River – MF14.1 Rainbow Trout Large Stream Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).
- Figure N12 – 2C. Middle Fork of the American River – MF14.1 Rainbow Trout Fry Summer (June - August) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).
- Figure N11 – 2D. Middle Fork of the American River – MF14.1 Hardhead/Sacramento Pikeminnow Juvenile Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).



Figure N12 – 2E. Middle Fork of the American River – MF14.1 Hardhead/Sacramento Pikeminnow Adult Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

Figure N12 – 2F. Middle Fork of the American River – MF14.1 Foothill Yellow-Legged Frog Tadpole Summer Through Fall (June - October) Habitat Exceedance Plots for All Water Years and each Water Year Type Separately (Wet, Above Normal, Below Normal, Dry, Critically Dry). Hydrology Model Node 855.857 (15-Minute Data).

**ATTACHMENT A**

**Database of Habitat Time Series Relationship Development for Each Site**

(See Attached Electronic Media)

