
APPENDIX J - SIMULATED VERSUS ESTIMATED HYDROGRAPHS OF RIVER PICKUP BASEFLOW BETWEEN GAGING STATIONS

Appendix J shows the hydrographs and duration curves of the observed and estimated pickup baseflows for river segments between USGS gages on the main stem of four major rivers in the model domain (St. Johns, Ocklawaha, Withlacoochee, Hillsborough) during the transient model simulation period (2005 through 2018). Pickup (or segmental) baseflow is a measure of the contribution of the groundwater system to the flow of a stream between a downstream point and one or more upstream points. Segmental baseflow estimates were determined as differences in baseflow between a downstream gage and the sum of baseflows of one or more upstream gages.

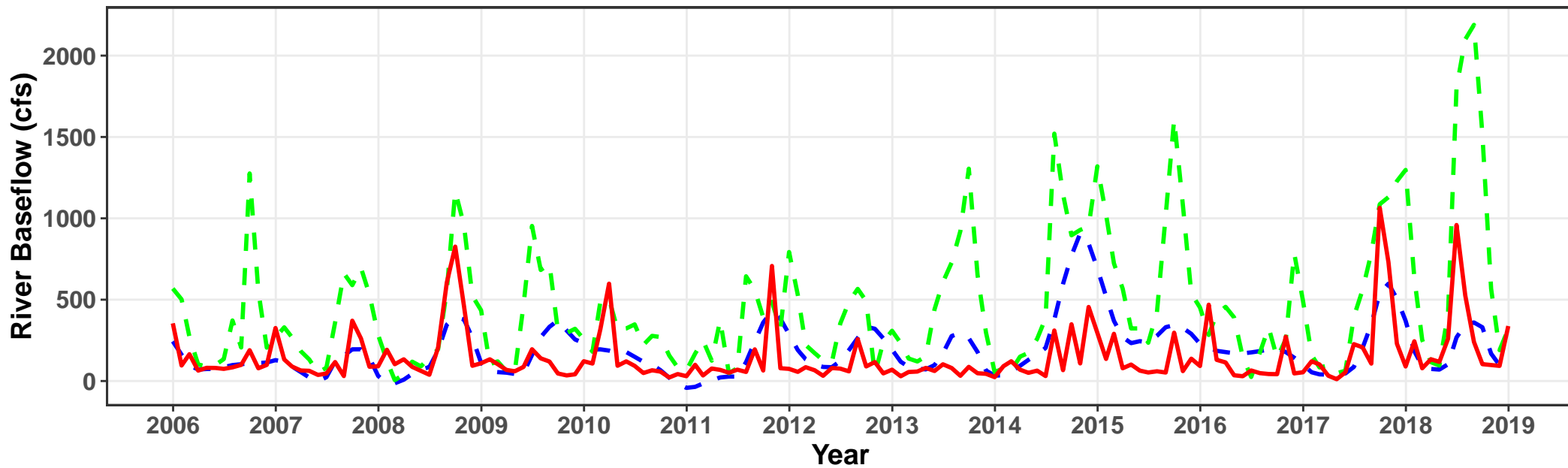
Model simulated hydrographs of pickup river baseflows between gages were compared with the minimum and maximum estimated pickup baseflows. The hydrograph on the top of each page illustrates a monthly time-series of pickup river baseflow. The flow-duration curve on the bottom of each page represents pickup river baseflow and the corresponding percentage of time that a particular pickup baseflow is exceeded between two selected gages. The same dataset was used to construct the hydrograph and flow-duration curve pair.

Note: The following definition applies to all figures included in this appendix.

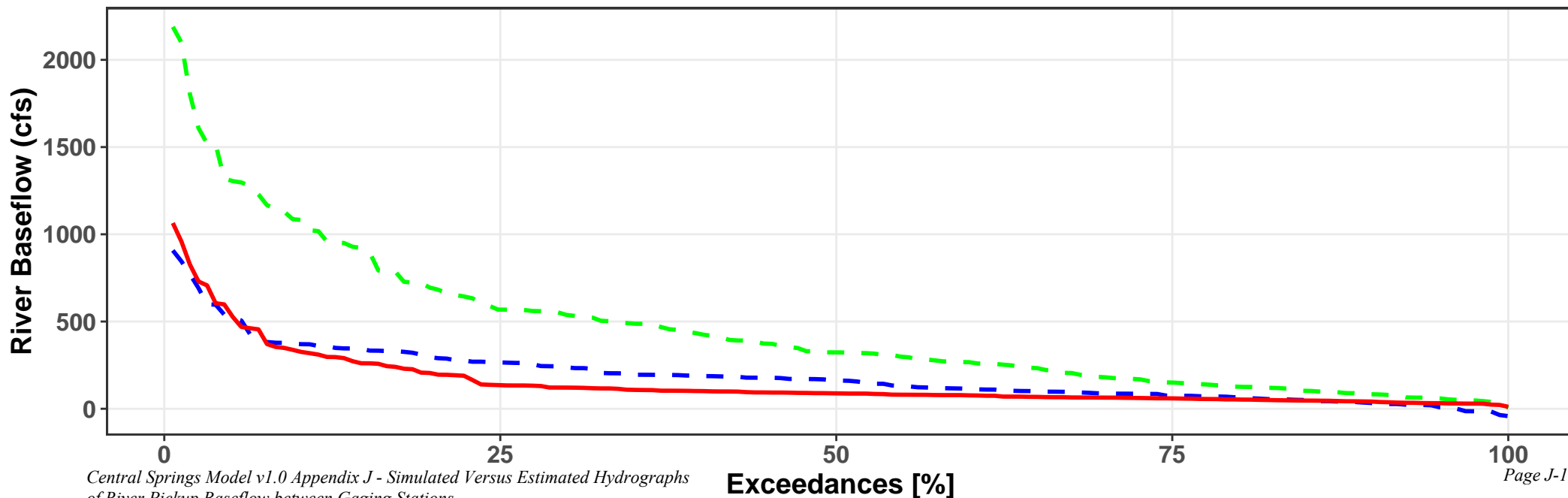
cfs = cubic feet per second

**Pickup Baseflow Between
USGS02232500 @ ST. JOHNS RIVER NEAR CHRISTMAS, FL
USGS02234000 @ ST. JOHNS RIVER ABOVE LAKE HARNEY NEAR GENEVA, FL**

Estimated Maximum **Estimated Minimum** **Simulated**

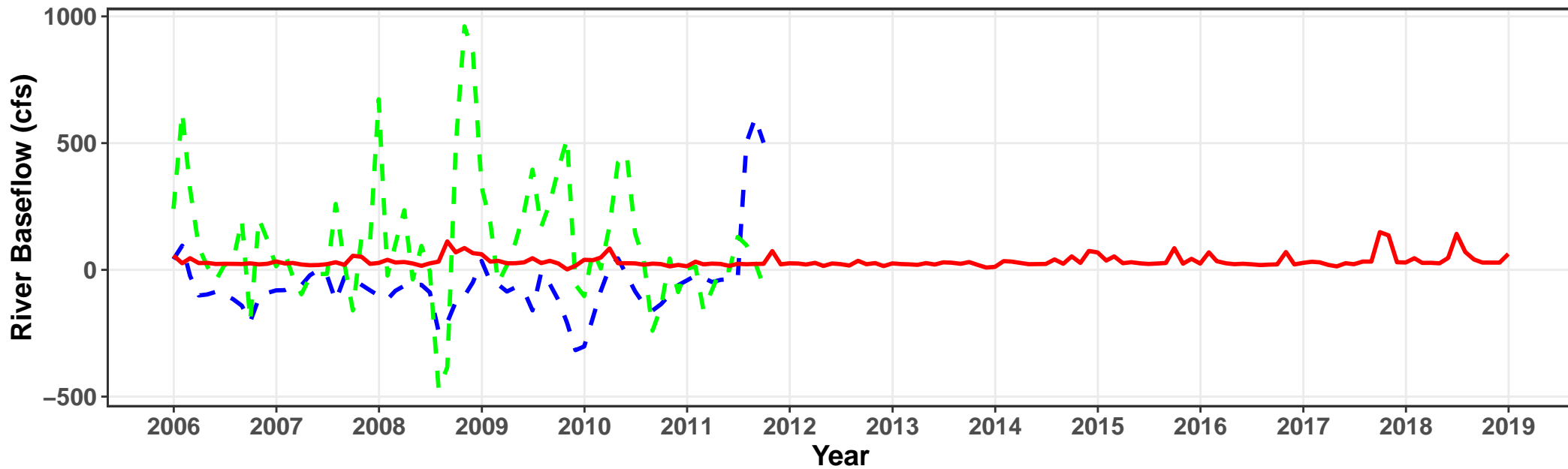


Flow–Duration Curve

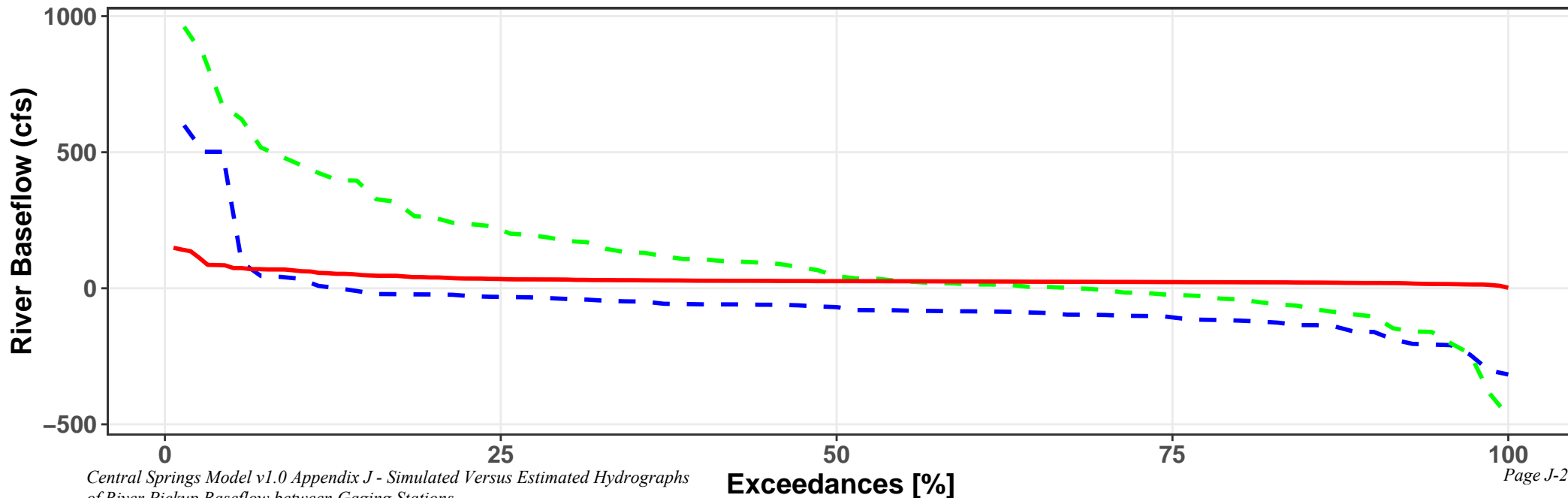


**Pickup Baseflow Between
USGS02234000 @ ST. JOHNS RIVER ABOVE LAKE HARNEY NEAR GENEVA, FL
USGS02234010 @ ST. JOHNS RIVER AT OSCEOLA, FL**

— Estimated Maximum — Estimated Minimum — Simulated

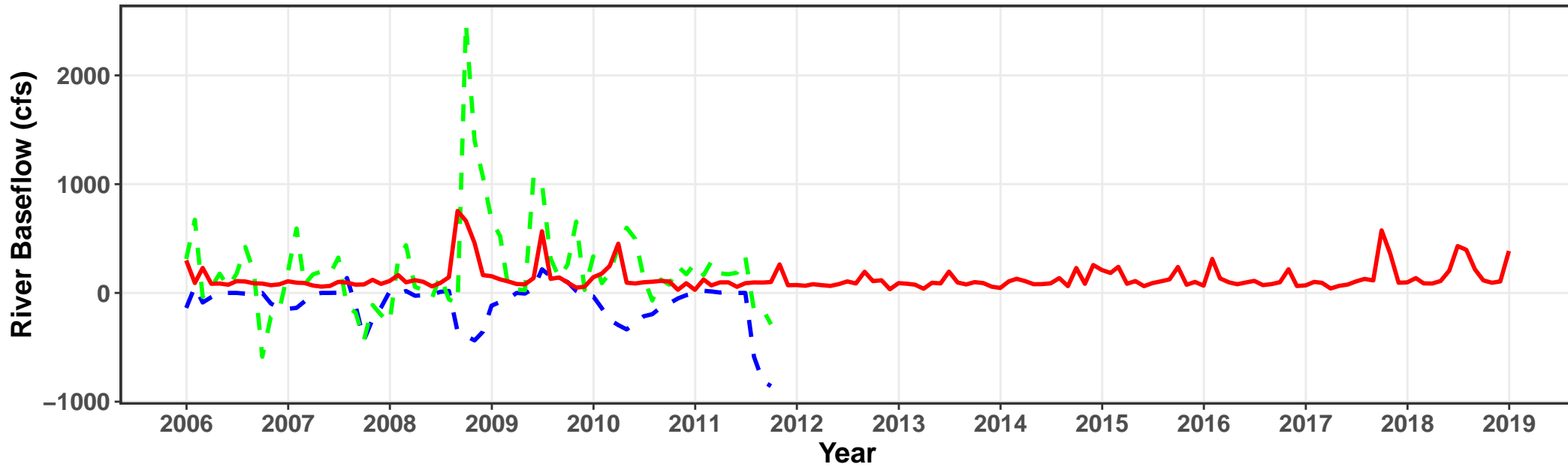


Flow–Duration Curve

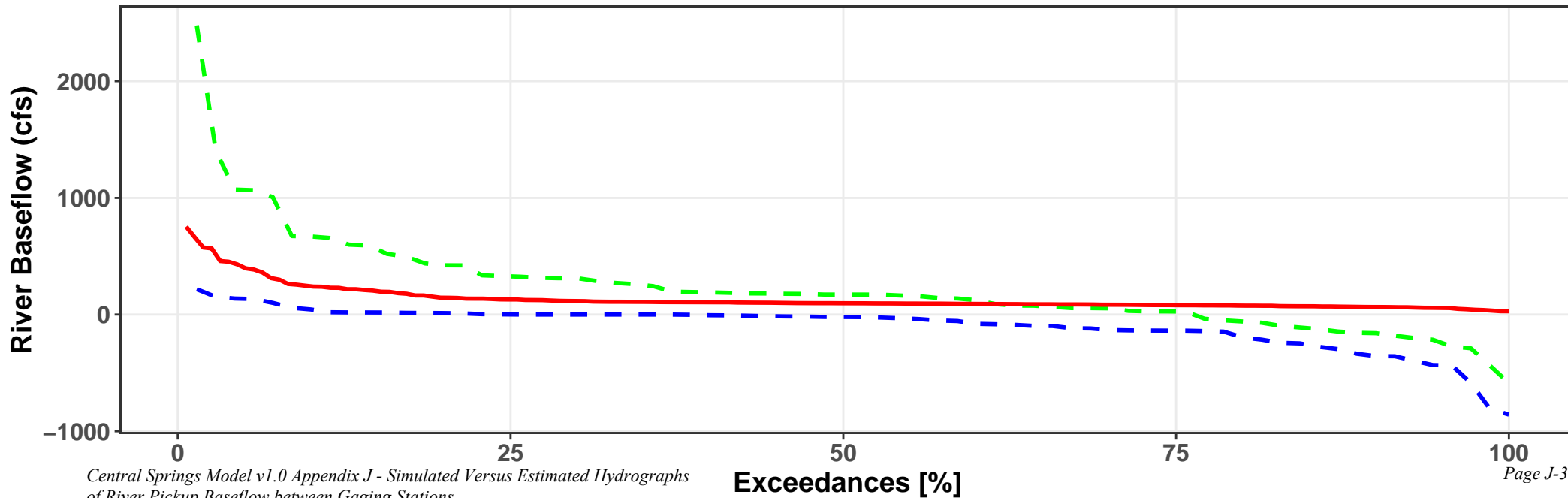


**Pickup Baseflow Between
USGS02234010 @ ST. JOHNS RIVER AT OSCEOLA, FL
USGS02234500 @ ST. JOHNS RIVER NEAR SANFORD, FL**

Estimated Maximum **Estimated Minimum** **Simulated**

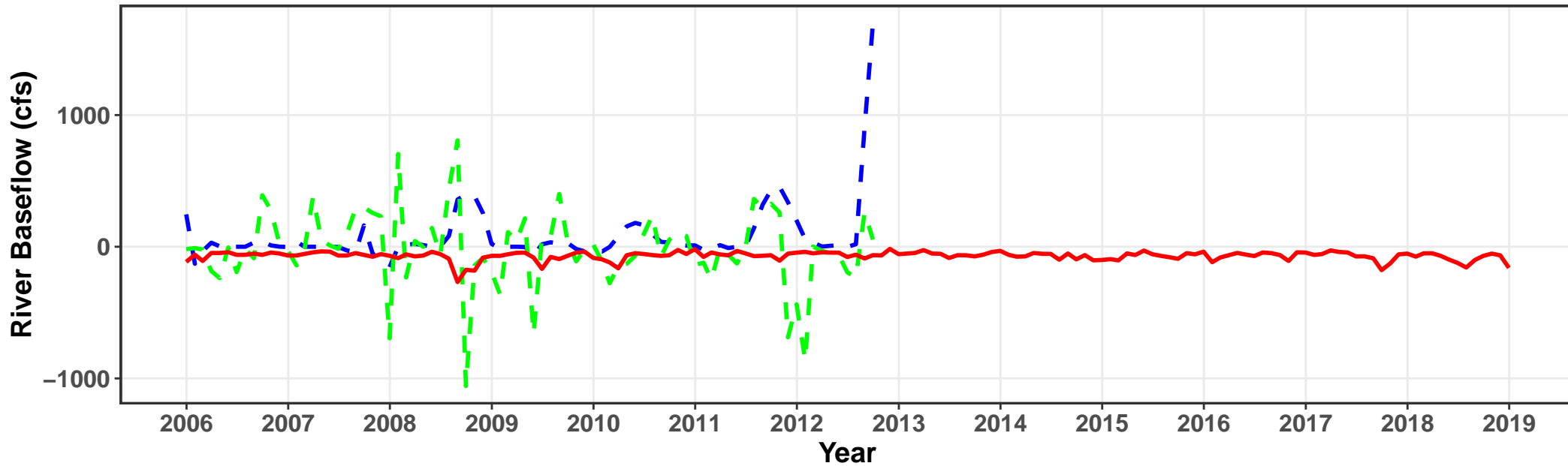


Flow-Duration Curve

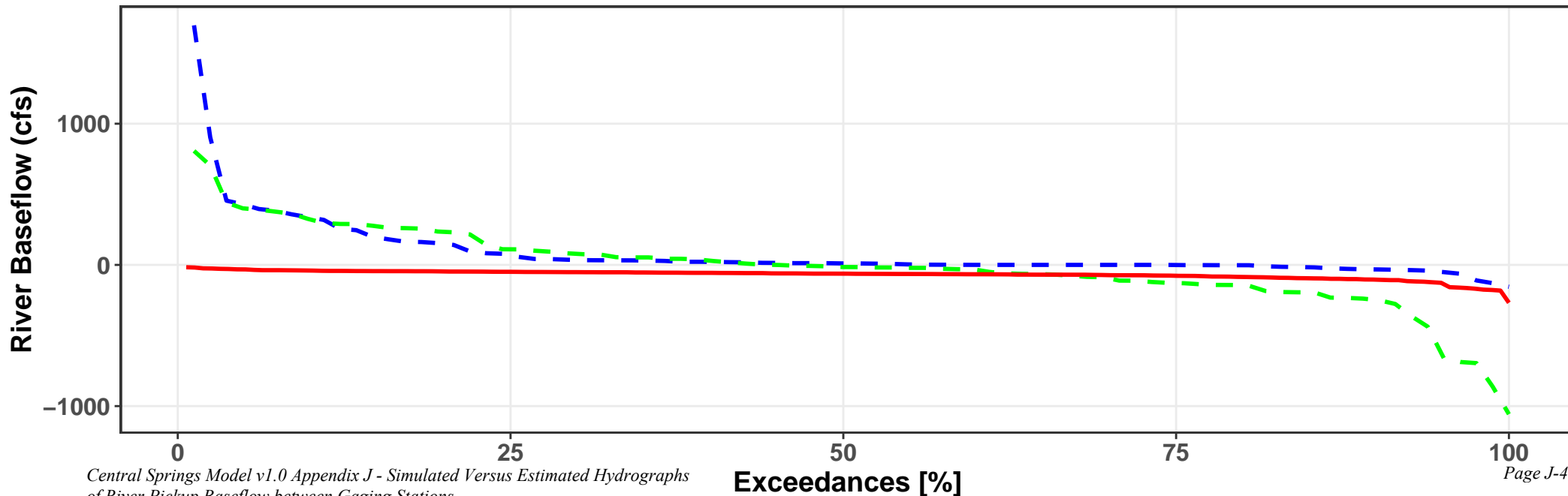


**Pickup Baseflow Between
USGS02234500 @ ST. JOHNS RIVER NEAR SANFORD, FL
USGS02234440 @ ST. JOHNS RIVER AT STATE HWY 415 NEAR SANFORD, FL**

— Estimated Maximum — Estimated Minimum — Simulated

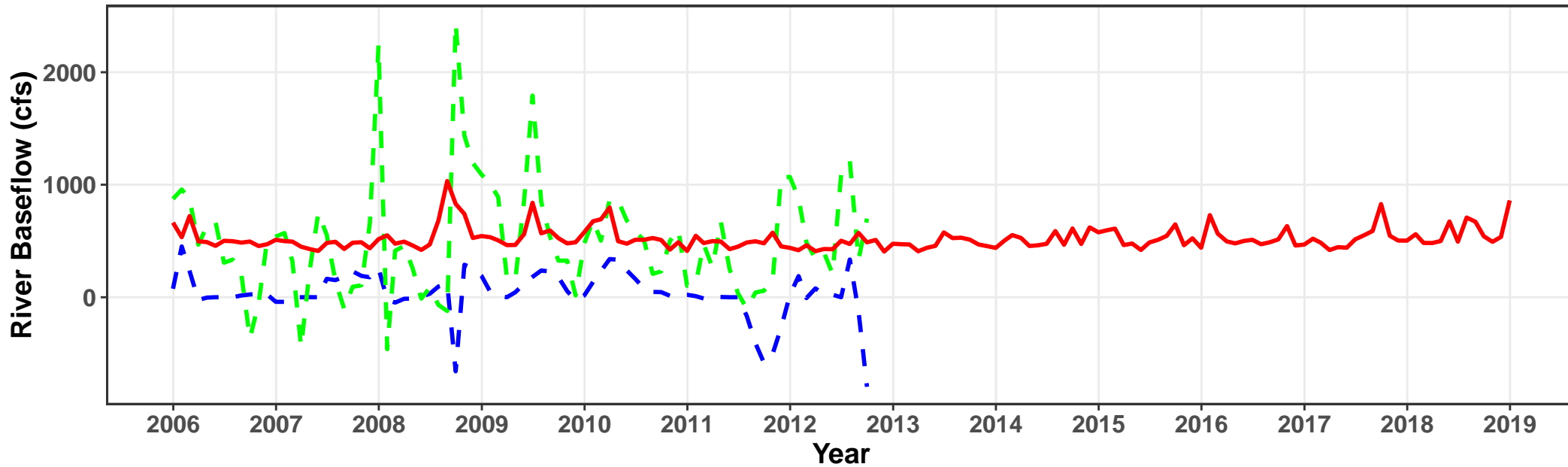


Flow–Duration Curve

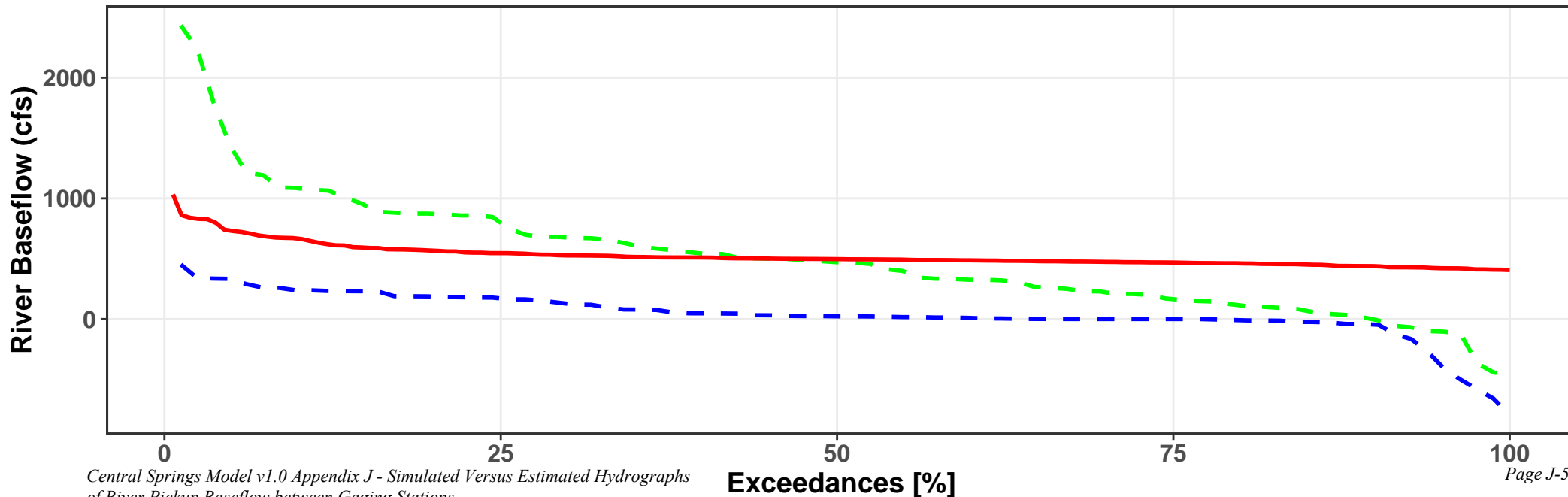


**Pickup Baseflow Between
USGS02234440 @ ST. JOHNS RIVER AT STATE HWY 415 NEAR SANFORD, FL
USGS02236000 @ ST. JOHNS RIVER NEAR DE LAND, FL**

— Estimated Maximum — Estimated Minimum — Simulated

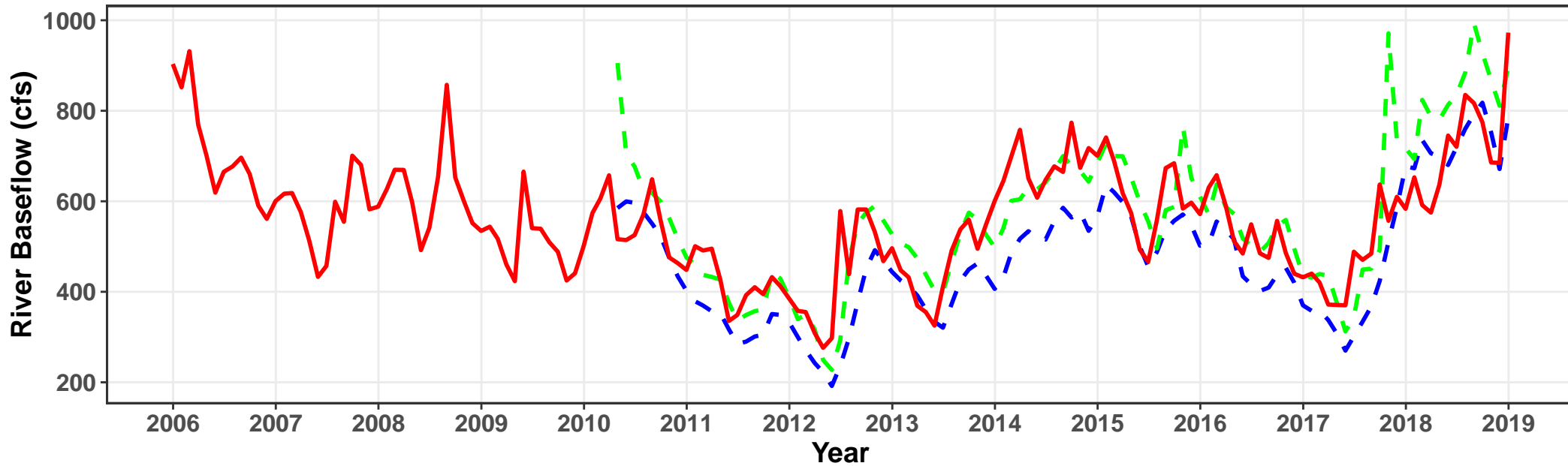


Flow–Duration Curve

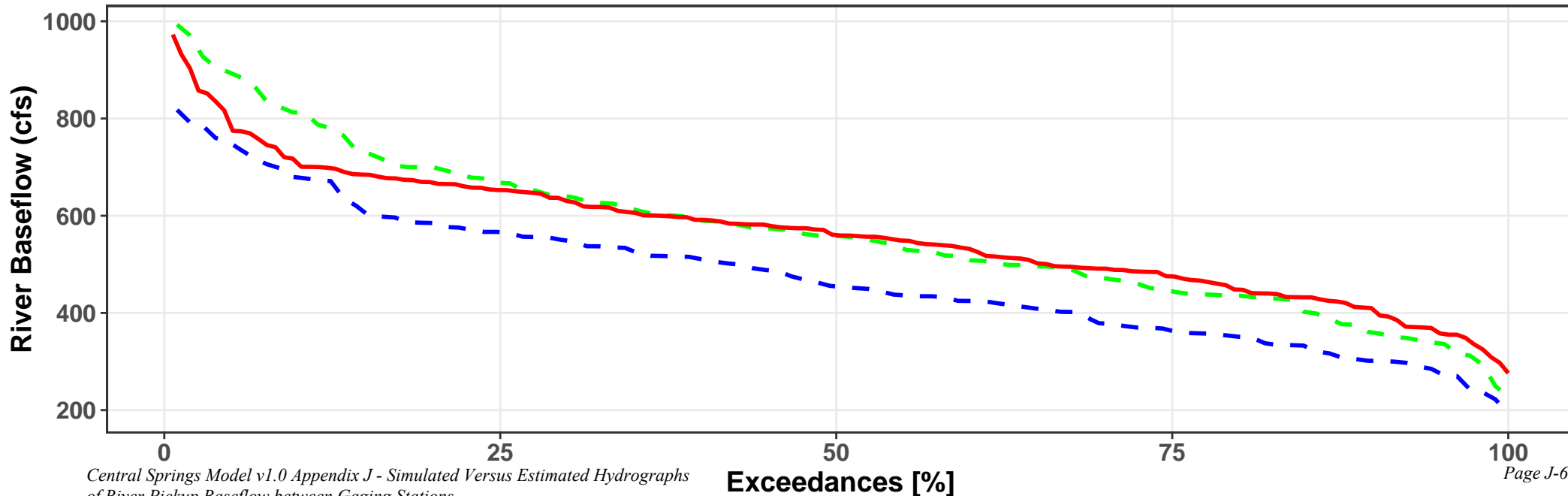


**Pickup Baseflow Between
USGS02239000 @ OCKLAWAHA RIVER NR OCALA,FLA.
USGS02240000 @ OCKLAWAHA RIVER NEAR CONNER, FL**

Estimated Maximum **Estimated Minimum** **Simulated**

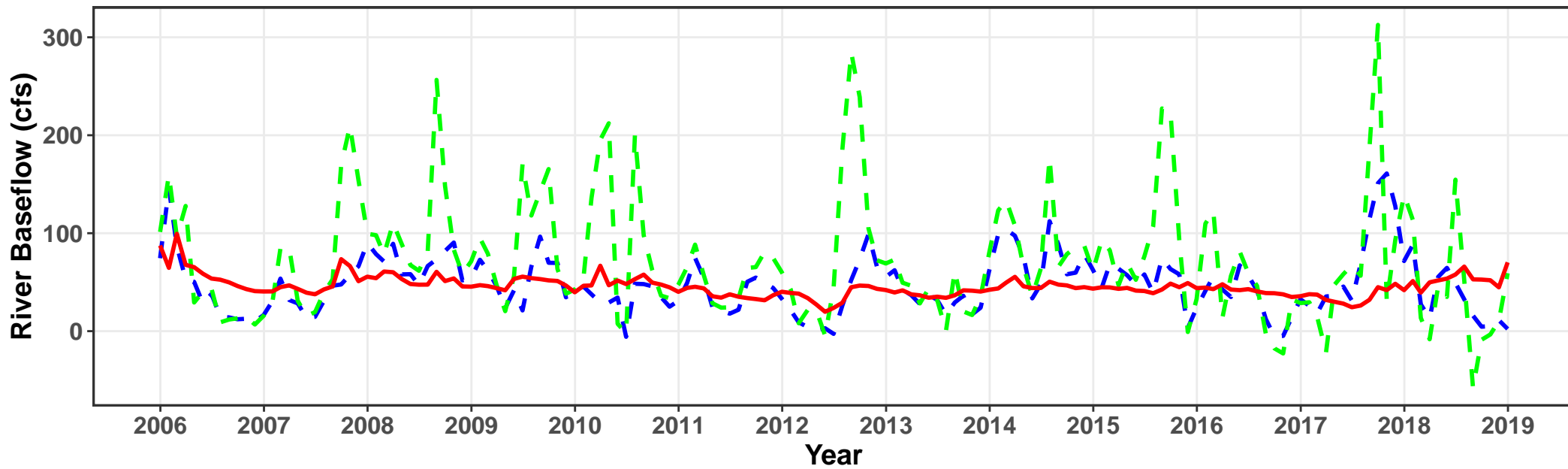


Flow–Duration Curve

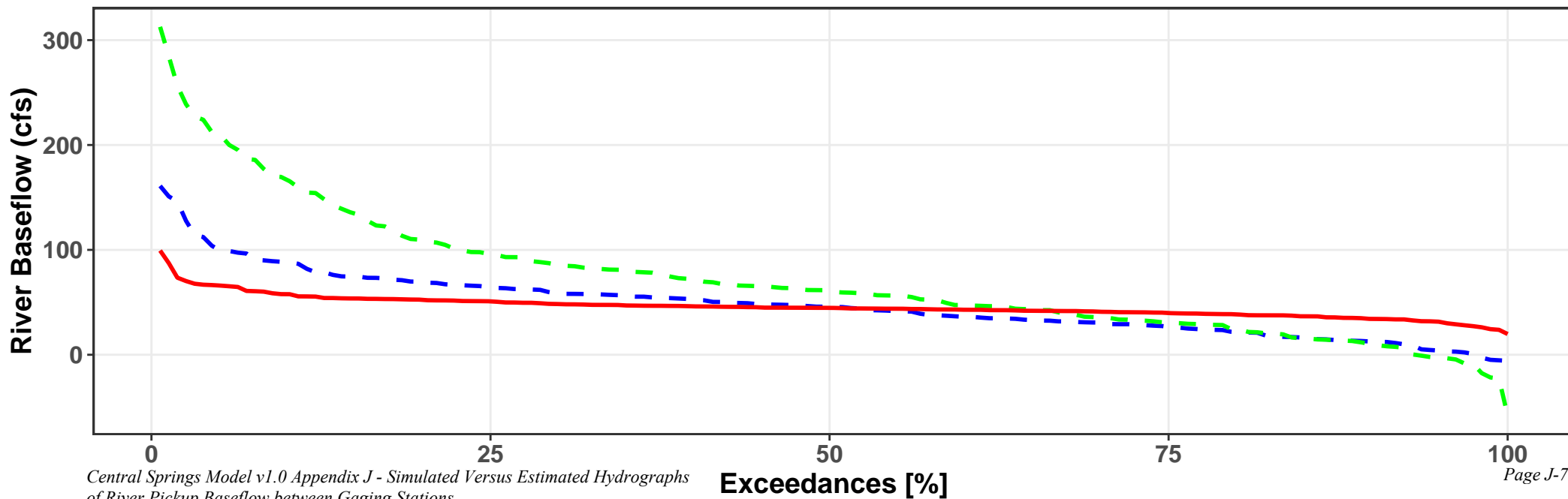


**Pickup Baseflow Between
USGS02240000 @ OCKLAWAHA RIVER NEAR CONNER, FL
USGS02240500 @ OCKLAWAHA RIVER AT EUREKA, FL**

— Estimated Maximum — Estimated Minimum — Simulated

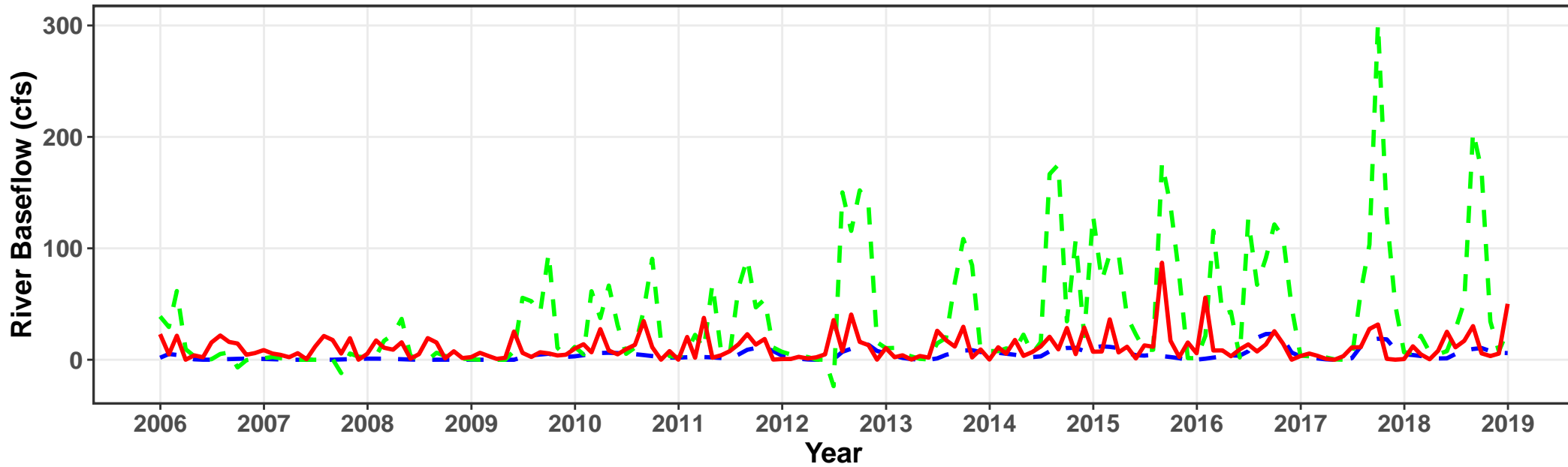


Flow–Duration Curve

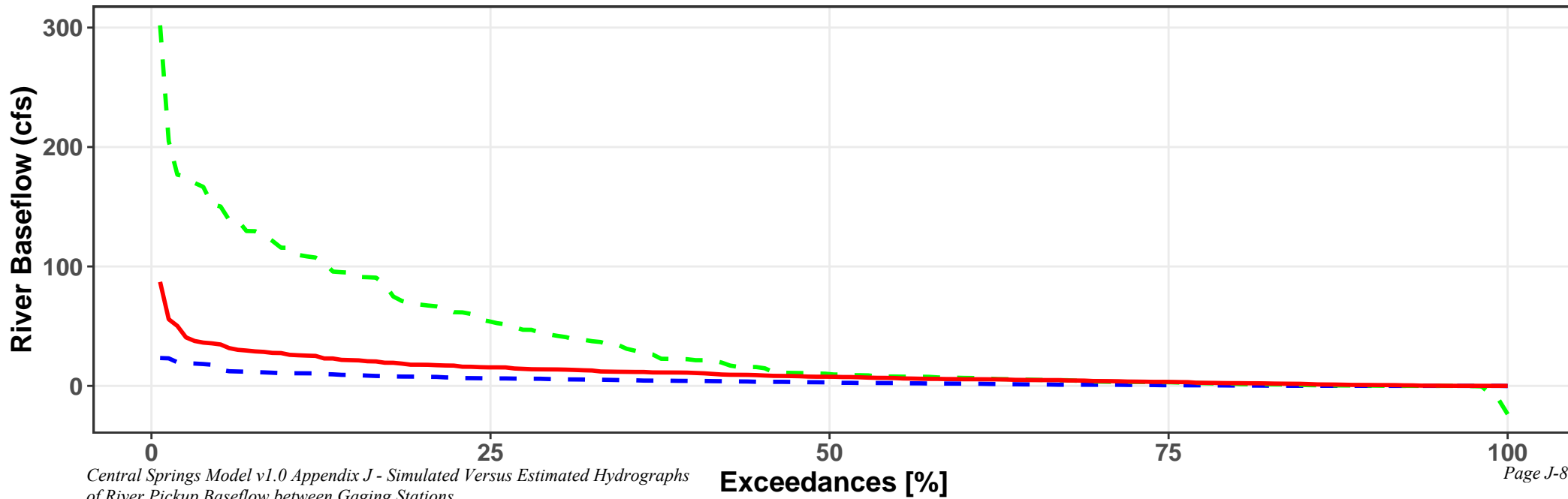


**Pickup Baseflow Between
USGS02310947 @ WITHLACOOCHEE RIVER NEAR CUMPRESCO, FL
USGS02311500 @ WITHLACOOCHEE RIVER NEAR DADE CITY, FL**

— Estimated Maximum — Estimated Minimum — Simulated

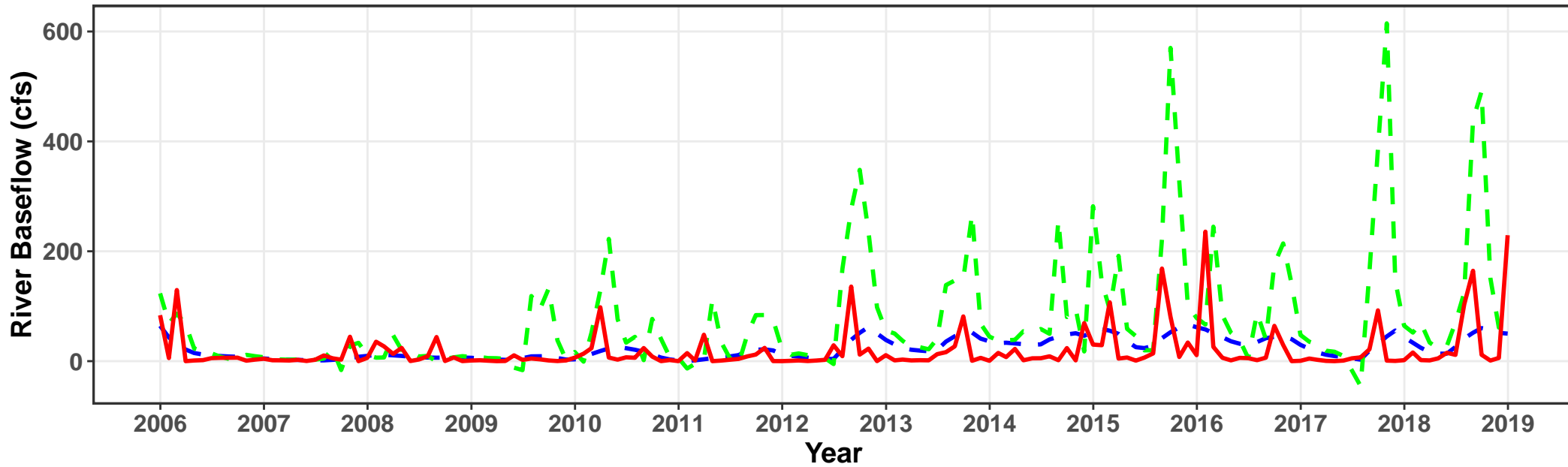


Flow-Duration Curve

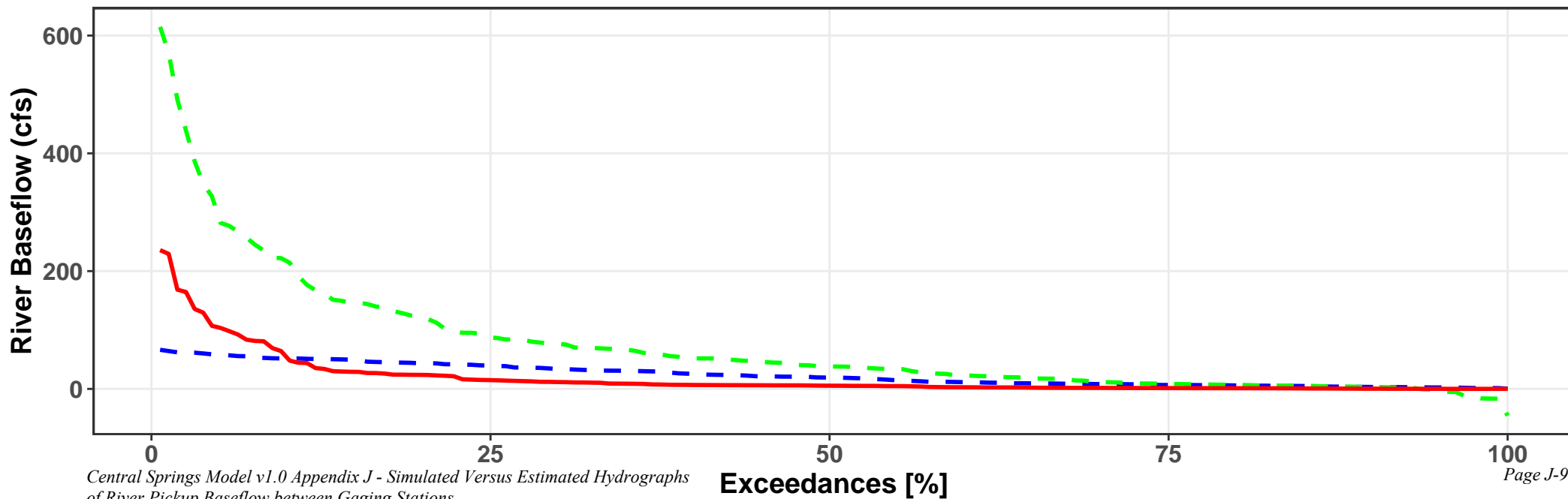


**Pickup Baseflow Between
USGS02311500 @ WITHLACOOCHEE RIVER NEAR DADE CITY, FL
USGS02312000 @ WITHLACOOCHEE RIVER AT US 301 AT TRILBY, FL**

— Estimated Maximum — Estimated Minimum — Simulated

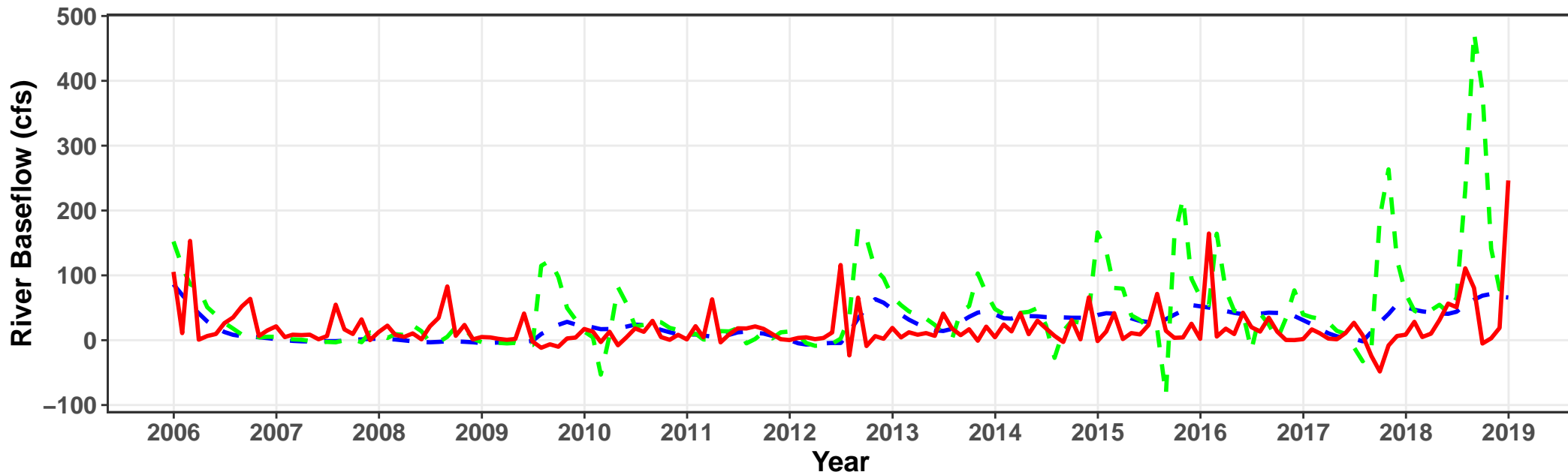


Flow–Duration Curve

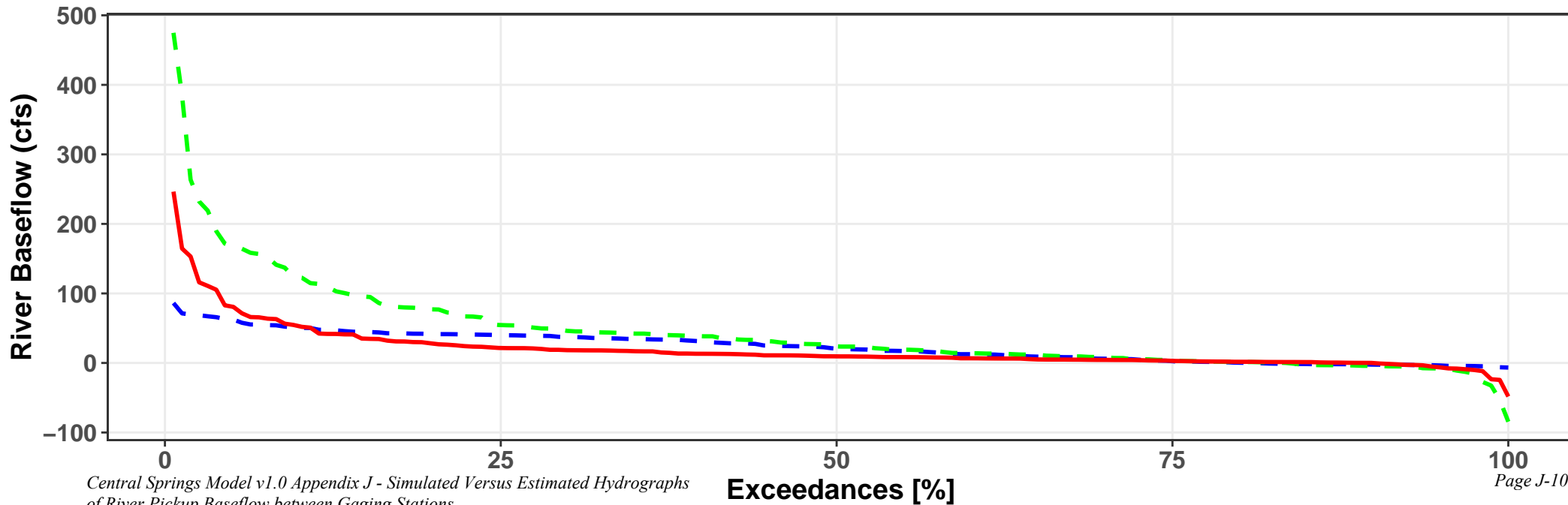


**Pickup Baseflow Between
USGS02312000 @ WITHLACOOCHEE RIVER AT US 301 AT TRILBY, FL
USGS02312500 @ WITHLACOOCHEE RIVER AT CROOM, FL**

— Estimated Maximum — Estimated Minimum — Simulated

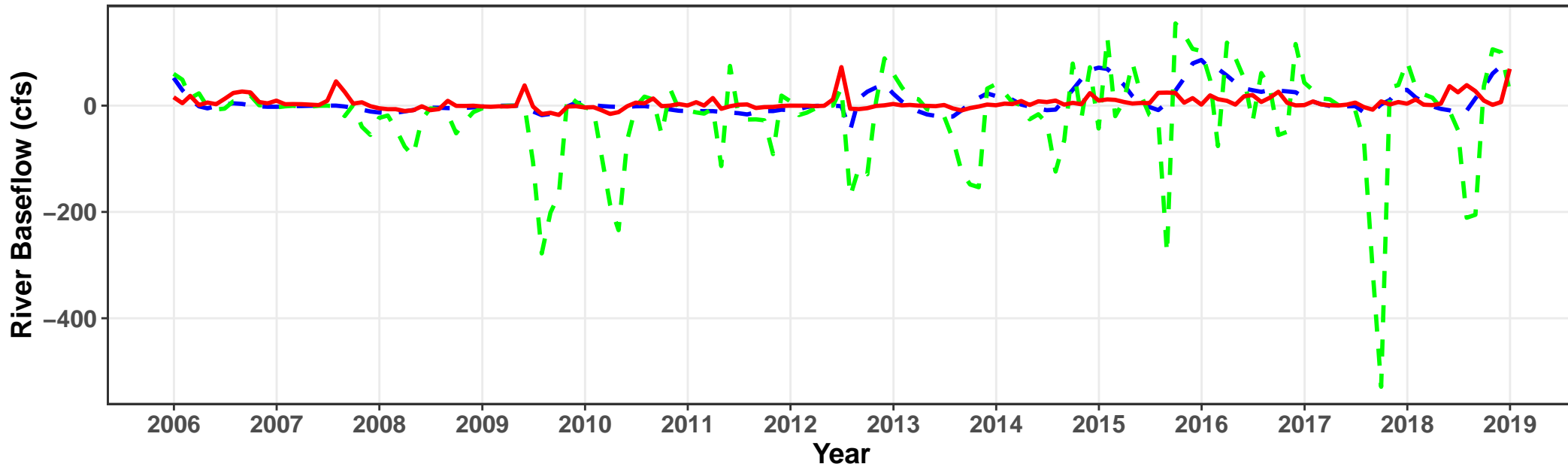


Flow–Duration Curve

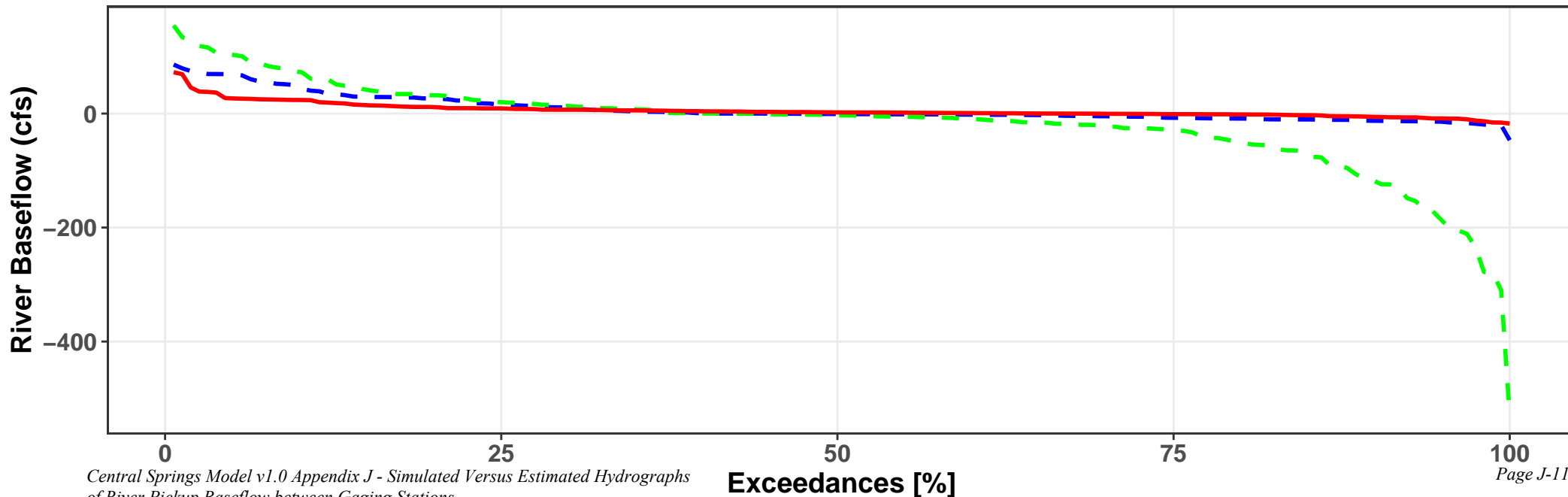


**Pickup Baseflow Between
USGS02312500 @ WITHLACOOCHEE RIVER AT CROOM, FL
USGS02312600 @ WITHLACOOCHEE RIVER NEAR FLORAL CITY, FL**

— Estimated Maximum — Estimated Minimum — Simulated

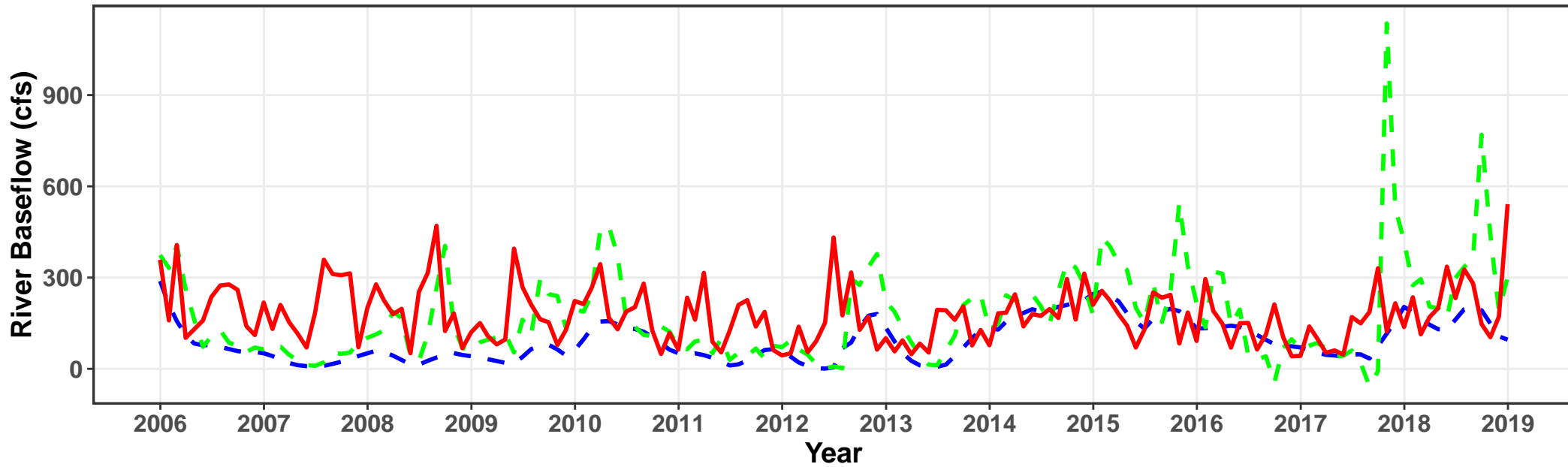


Flow–Duration Curve

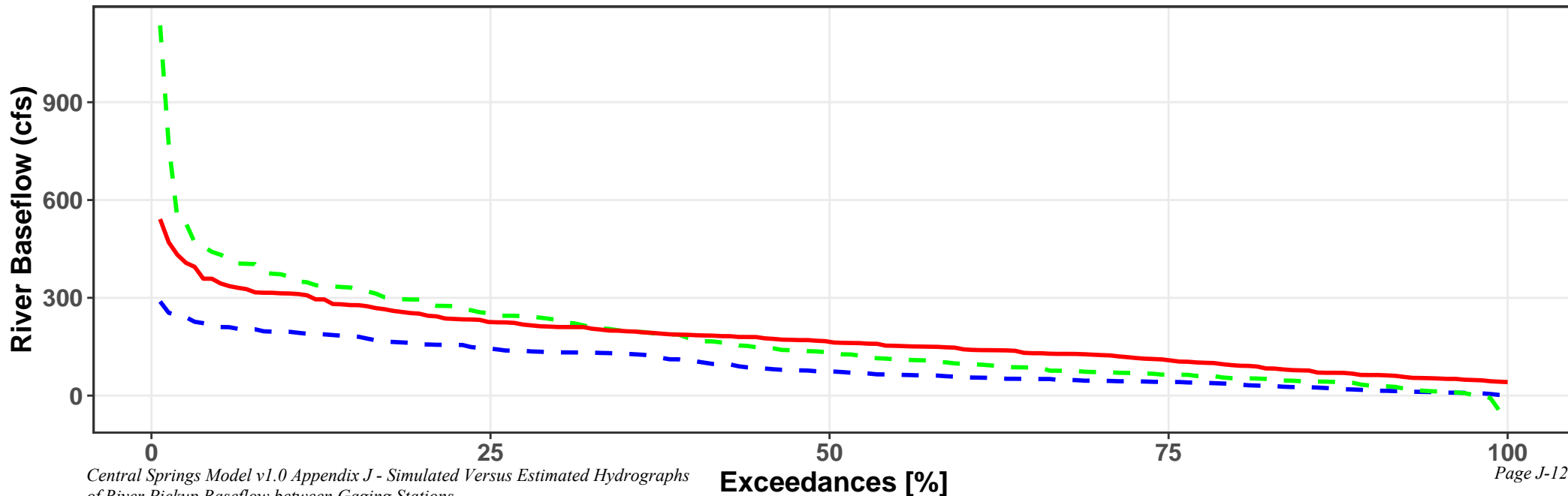


**Pickup Baseflow Between
USGS02312600 @ WITHLACOOCHEE RIVER NEAR FLORAL CITY, FL
USGS02312762 @ WITHLACOOCHEE RIVER NEAR INVERNESS, FL**

— Estimated Maximum — Estimated Minimum — Simulated

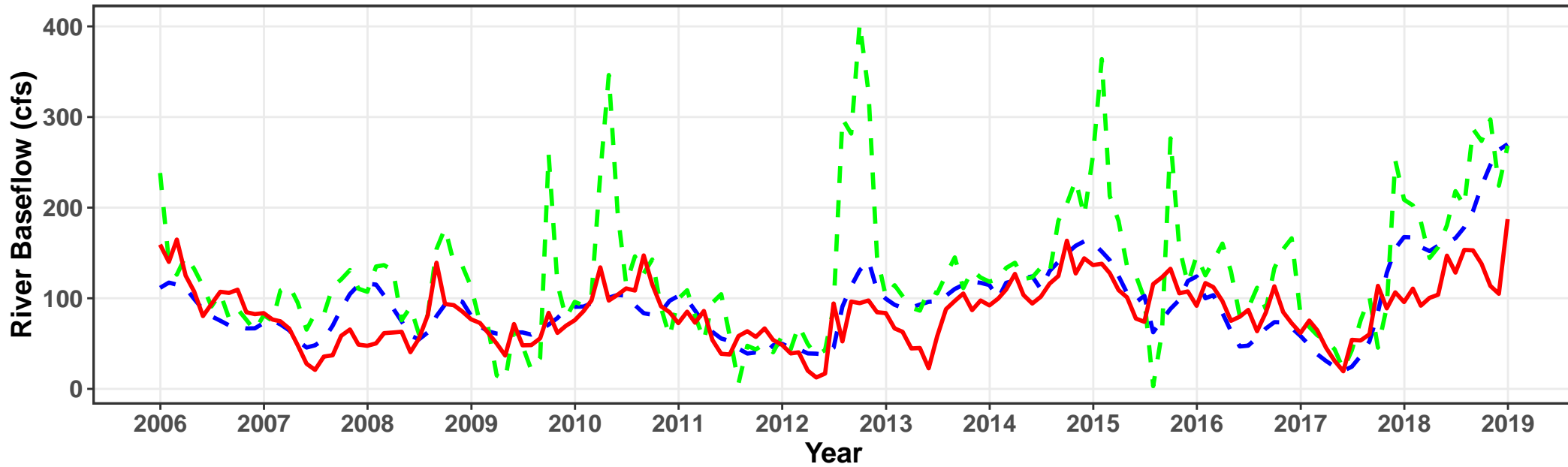


Flow–Duration Curve

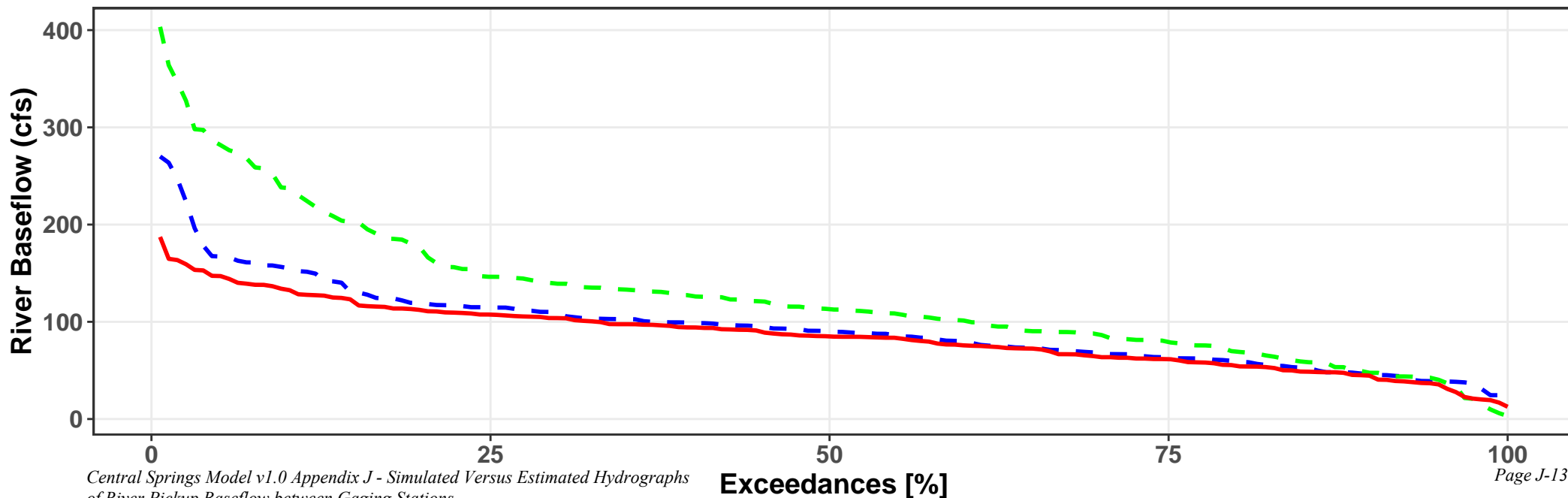


**Pickup Baseflow Between
USGS02312762 @ WITHLACOOCHEE RIVER NEAR INVERNESS, FL
USGS02313000 @ WITHLACOOCHEE RIVER AT SR 200 NEAR HOLDER, FL**

— Estimated Maximum — Estimated Minimum — Simulated

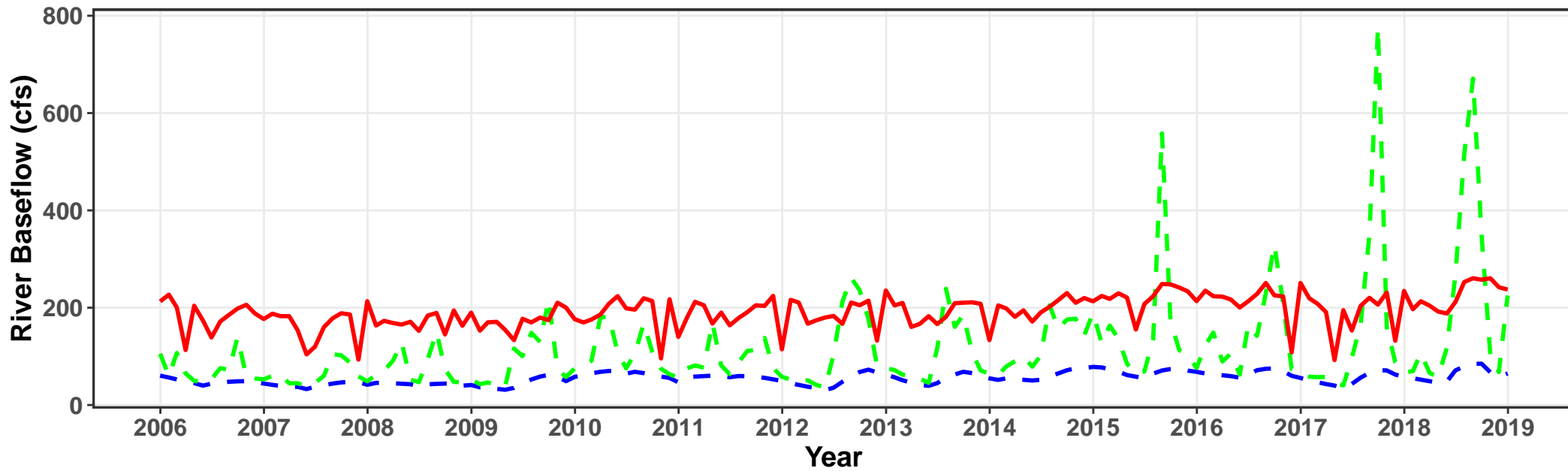


Flow-Duration Curve

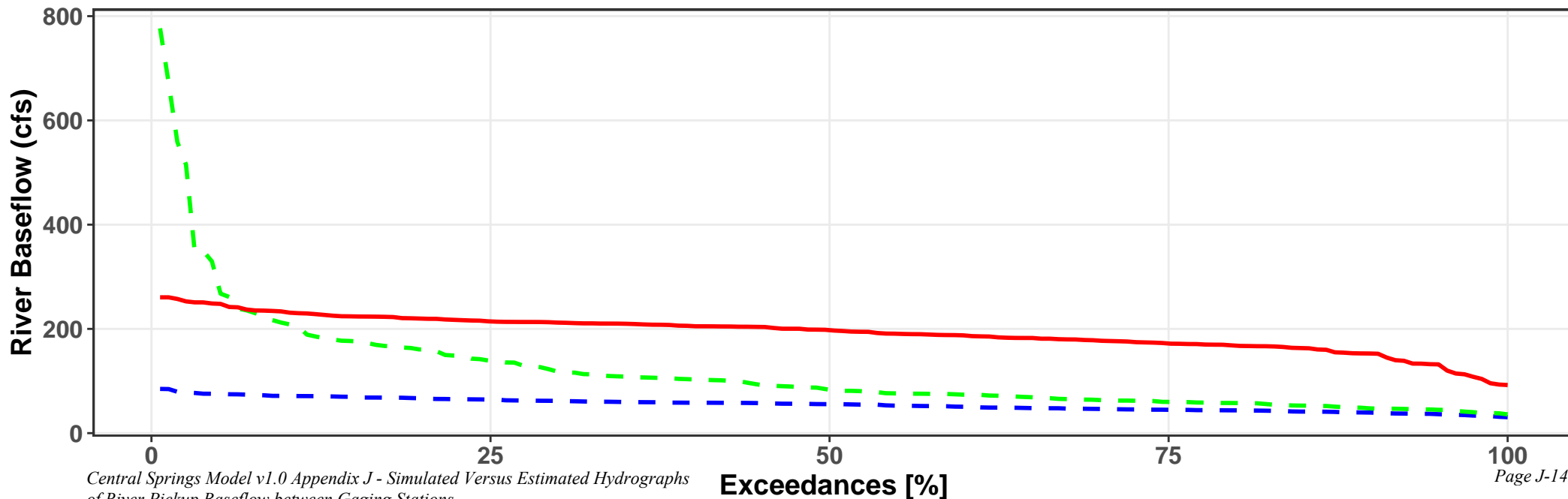


**Pickup Baseflow Between
USGS02301990 @ HILLSBOROUGH R AB CRYSTAL SPR NEAR ZEPHYRHILLS FL
USGS02303000 @ HILLSBOROUGH RV AT STATE PARK NR ZEPHYRHILLS, FL**

— Estimated Maximum — Estimated Minimum — Simulated

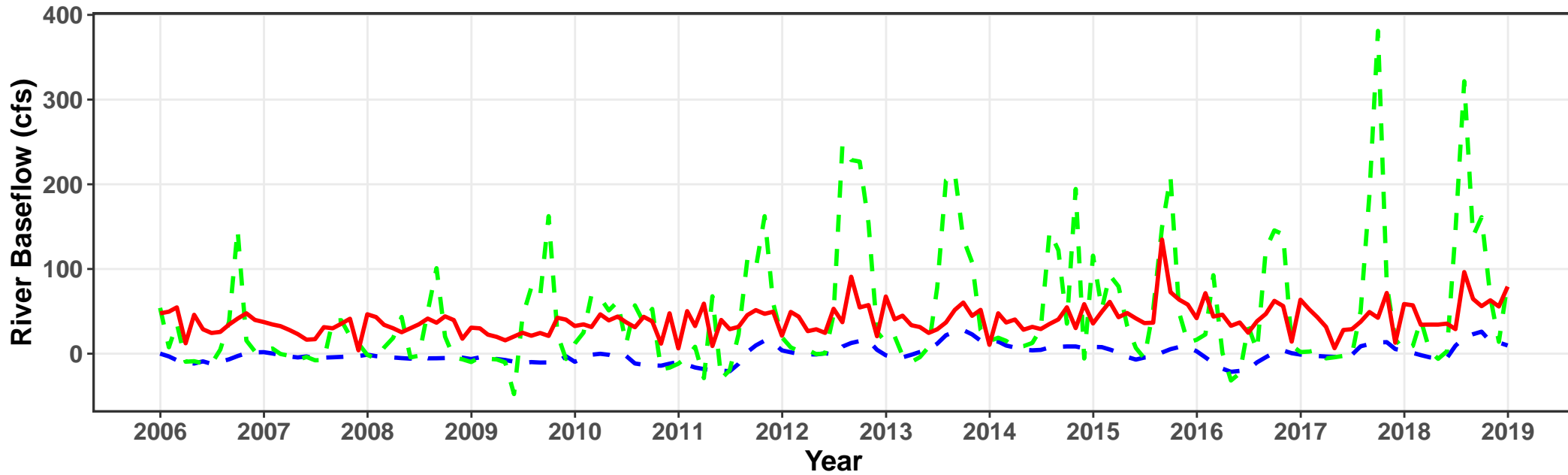


Flow–Duration Curve



**Pickup Baseflow Between
USGS02303000 @ HILLSBOROUGH RV AT STATE PARK NR ZEPHYRHILLS, FL
USGS02303330 @ HILLSBOROUGH R AT MORRIS BR NEAR THONOTOSASSA FL**

— Estimated Maximum — Estimated Minimum — Simulated



Flow–Duration Curve

