structure\_file\_olivaceus\_notatus.txt – used for initial screening of all *F. olivaceus* and *F. notatus* samples included in the study. Maximum missing data threshold by locus 5%, maximum missing data threshold by individual 20%, minimum global allele frequency 2%, minimum distance between loci (within contigs) 5000 bp.The file dimensions are 732 individuals, 1000 loci (rarefied). File includes a header of locus names, and columns for sample names and PopFlag.

File name: structure\_file\_olivaceus\_notatus.txt

Map Stream Drainage N sample names

Western Gulf Slope

1 Colorado River Colorado *F. notatus* 20 Color\_01-20

2 Angelina River Neches *F. notatus* 9 Angel\_01-09

3a Sabine River Sabine *F. olivaceus* 19 SabineO\_01-20

3b Sabine River Sabine *F. notatus* 20 SabineN\_01-20

Red River

4 Glover River Little/Red *F. notatus* 6 Glov12N\_31, 35, JAH12\_30N\_1-5

 Little River Little/Red *F. olivaceus* 8 Glov12O\_74, 80, JAH12\_28O\_1-6

5 Mountain Fork Little/Red *F. notatus* 6 MTFO15\_1-6

6 Cossatot Little/Red *F. olivaceus* 14 CossO\_007- 111, COSS15O\_1-6

 Little River Little/Red *F. notatus* 13 CossN\_123-167

7 Kiamichi Red *F. olivaceus* 15 KIAHU15\_02-16

 *F. notatus* 10 FRAZ15\_17-26

8 Twelve Mile Bayou Red *F. notatus* 13 TWB15\_01-18

9 Old River Bayou Red *F. olivaceus* 11 ORB15\_01-11

Coastal Drainages

11a Pascagoula River Pascagoula *F. olivaceus* 22 PascOli\_01-22

11b Pascagoula River Pascagoula *F. notatus* 22 PascNot\_01-23

12 Tombigbee River Mobile *F. olivaceus* 28 TNTB15O\_02-89

 *F. notatus* 63 TNTB15N\_03-91, TomNot\_01-11

13 Yellow River Yellow *F. olivaceus* 20 YellOli\_02-21

Mississippi River

14 Big Blue Hole Mississippi *F. notatus* 16 BBH15\_01-19

15 Chotard Lake Mississippi *F. notatus* 14 CHO15\_01-15

16 Elk River Tennessee *F. olivaceus* 17 ElkO\_01-19

 *F. notatus* 14 ElkN\_01-14

17 Duck River Tennessee *F. notatus* 6 Duck\_01-07

18 Spring River Spring/Neosho *F. notatus* 19 SpringN\_01-20

 Shoal Creek Spring/Neosho *F. olivaceus* 20 SpringO\_01-20

19 White River White *F. olivaceus* 10 White\_01-10

20 Black River Black/White *F. olivaceus* 10 Black\_01-10

21 St. Francis River St. Francis *F. olivaceus* 10 StFr\_01-10

22 Cahokia Creek Mississippi *F. notatus* 11 cah\_07-17

23a Meramec River Meramec *F. olivaceus* 37 Mer13\_061-098

23b Meramec River Meramec *F. olivaceus* 39 Mer13\_099-138

23c Dry Fork Meramec *F. olivaceus* 19 Mer13\_036-055

24 Big River Meramec *F. olivaceus* 34 Mer13\_001-035

25a Gasconade River Gasconade *F. olivaceus* 35 Gas13\_116-150

25b Gasconade River Gasconade *F. olivaceus* 28 Gas13\_086-115

25c Gasconade River Gasconade *F. olivaceus* 33 Gas13\_046-085

26 Big Piney River Gasconade *F. olivaceus* 43 Gas13\_001-045