

SITE_NAME	SAMPLE_NO	LAB NO	GRAIN TYPE	GRAIN SIZE (μm)	EQUIVALENT DOSE (Gray)
Faulkner	OSL1	USGS	quartz	250-180	8.62 ± 0.79
Faulkner	OSL2	USGS	quartz	250-180	8.65 ± 0.77
Garner	OSL1	BG4254	quartz	150-100	22.39 ± 1.55
Garner	OSL2	BG4253	quartz	100-63	22.45 ± 1.10
Hatchie River 31	OSL1	USGS	quartz	250-180	not available
Hatchie River 31	OSL2	USGS	quartz	250-180	not available
Hatchie River 105	OSL1	USGS	quartz	250-180	not available
Hatchie River 105	OSL2	USGS	quartz	250-180	not available
Locust Creek Ditch 3	OSL1	USGS	quartz	250-180	6.79 ± 0.56
Obion River 507	OSL1	USGS	quartz	250-180	4.77 ± 0.12
Pritchett	OSL1	BG4367	quartz	250-150	9.87 ± 0.59
St. Francis River 48	OSL1	BG4323	quartz	250-355	149.14 ± 5.54

U (ppm)	Th (ppm)	K (%)	H2O (%)	COSMIC DOSE RATE (mGray/yr)
3.39 ± 0.07	8.66 ± 0.17	1.28 ± 0.04	21	0.20 ± 0.01
2.92 ± 0.16	7.35 ± 0.33	1.58 ± 0.03	15	0.20 ± 0.01
2.02 ± 0.01	5.77 ± 0.01	1.52 ± 0.01	10 ± 3	0.14 ± 0.01
2.00 ± 0.01	5.97 ± 0.01	1.44 ± 0.01	10 ± 3	0.14 ± 0.01
2.20 ± 0.04	7.15 ± 0.05	0.92 ± 0.05	8 ± 0.5	0.17 ± 0.02
0.98 ± 0.03	2.94 ± 0.02	0.24 ± 0.04	8 ± 0.5	0.17 ± 0.02
2.81 ± 0.06	9.44 ± 0.07	1.30 ± 0.06	13 ± 1.0	0.17 ± 0.02
2.67 ± 0.05	8.54 ± 0.06	1.12 ± 0.05	14 ± 1.0	0.17 ± 0.02
1.42 ± 0.09	4.34 ± 0.30	1.20 ± 0.05	13	0.17 ± 0.01
0.81 ± 0.10	3.77 ± 0.35	0.36 ± 0.06	1	0.16 ± 0.01
0.77 ± 0.01	3.68 ± 0.01	1.00 ± 0.01	10 ± 2	0.14 ± 0.01
1.69 ± 0.01	5.33 ± 0.01	1.22 ± 0.01	10 ± 2	0.12 ± 0.01

TOTAL DOSE RATE (mGray/yr)	OSL AGE (yr before 2010)	NOTES
2.49 ± 0.06	3460 ± 330	Trench 3, west end-south wall; buried soil below sa
2.74 ± 0.08	3150 ± 300	Trench 2, southeast wall; buried soil below sand blc
2.27 ± 0.12	9875 ± 725	Trench 2, north wall; buried soil below sand blow
2.26 ± 0.12	9930 ± 775	Trench 2, south wall; buried soil below sand blow
1.81 ± 0.02	159 ± 5.45	Cutbank; upper contact of sand blow
0.74 ± 0.01	1425 ± 68.5	Cutbank; lower contact of sand blow
2.27 ± 0.02	165 ± 5.23	Cutbank; upper contact of sand blow
2.05 ± 0.02	532 ± 14.9	Cutbank; lower contact of sand blow
1.84 ± 0.08	3690 ± 350	Cutbank; buried soil below sand blow
0.92 ± 0.07	5190 ± 430	Cutbank; buried soil below sand blow
1.38 ± 0.07	7140 ± 590	Trench 1, south wall; buried soil below sand blow
1.80 ± 0.09	82,720 ± 5430	Cutbank; ~3.75 m below top of bank; from cross-be

REFERENCES

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