

Jeremy Toepp | GR 6303 | Dr. Nagel | 2 November 2018

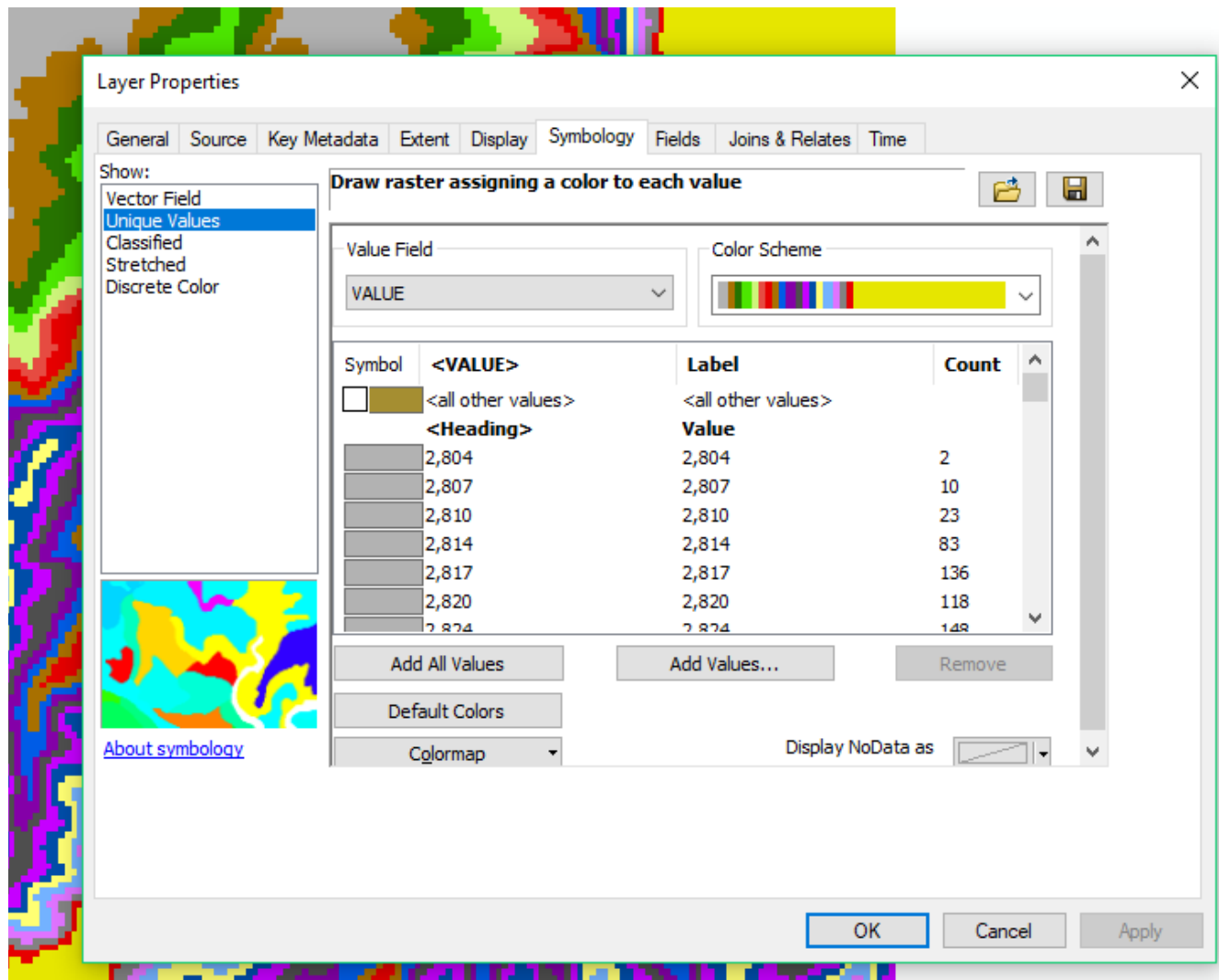


Figure 1. A screenshot depicting the modified elevation map that has been converted from meters to feet.

On my honor, as a Mississippi State Student, I have neither given nor received unauthorized assistance on this academic work.

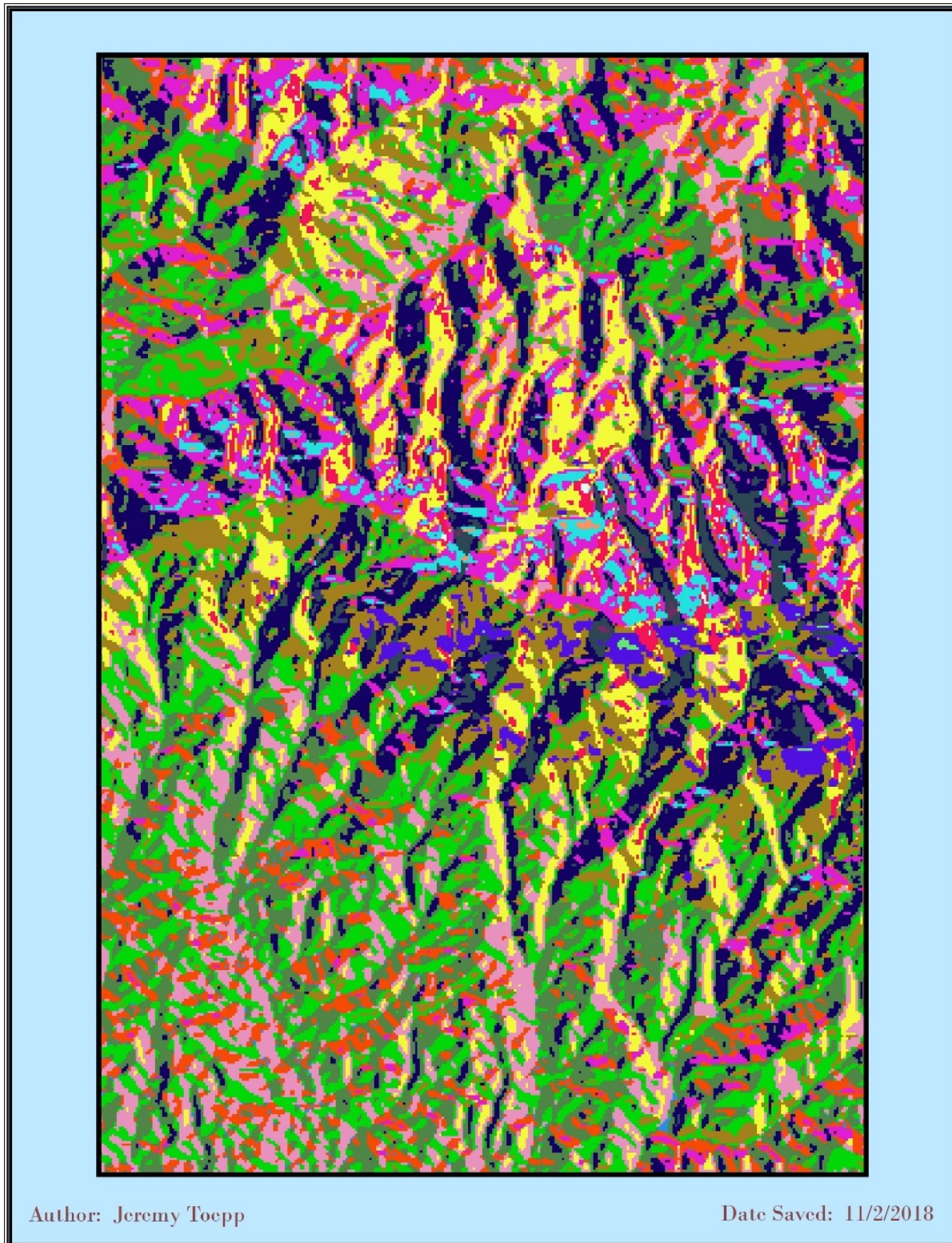


Figure 2: A JPEG depicting the elevation and orientation of slopes.

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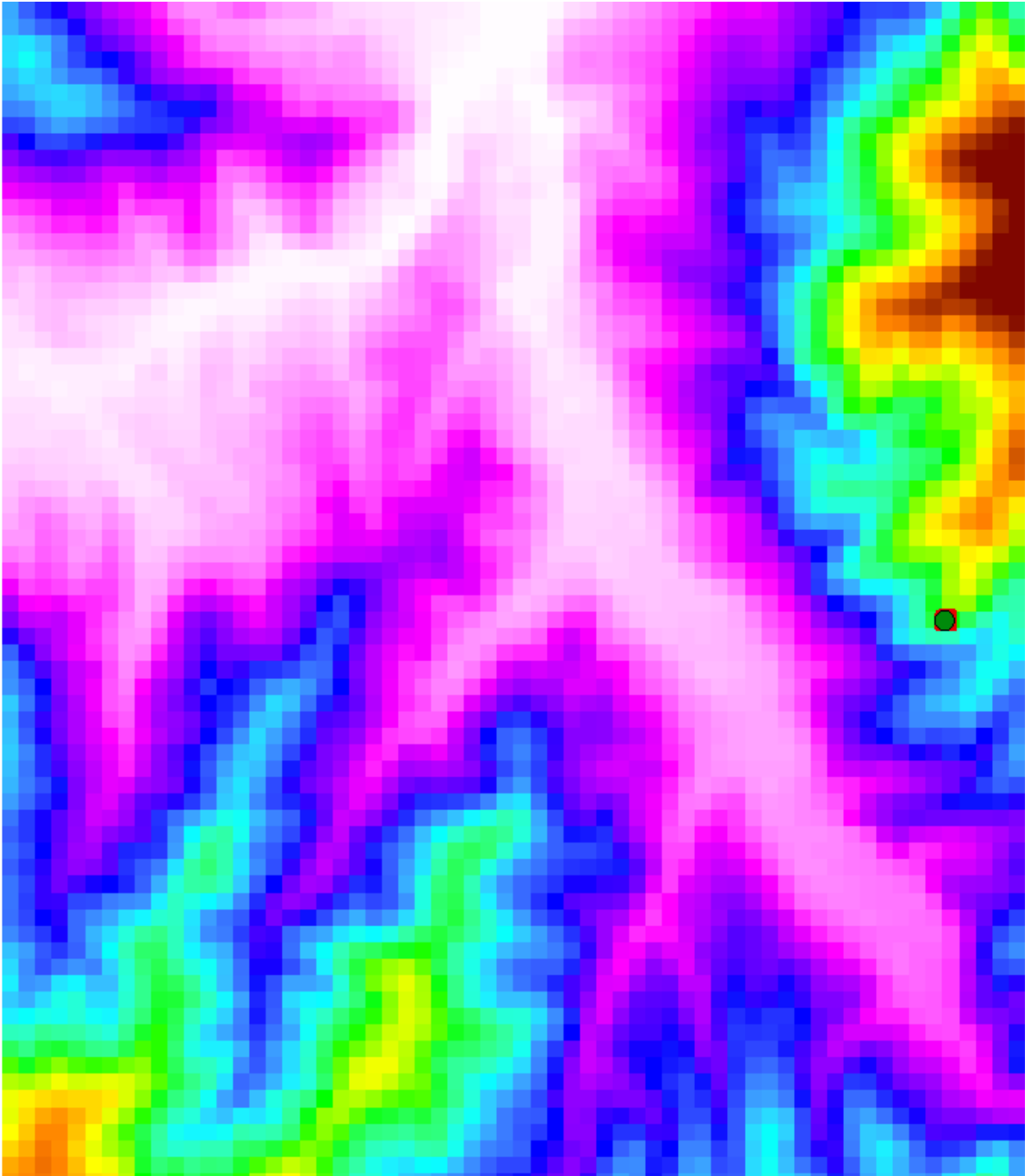
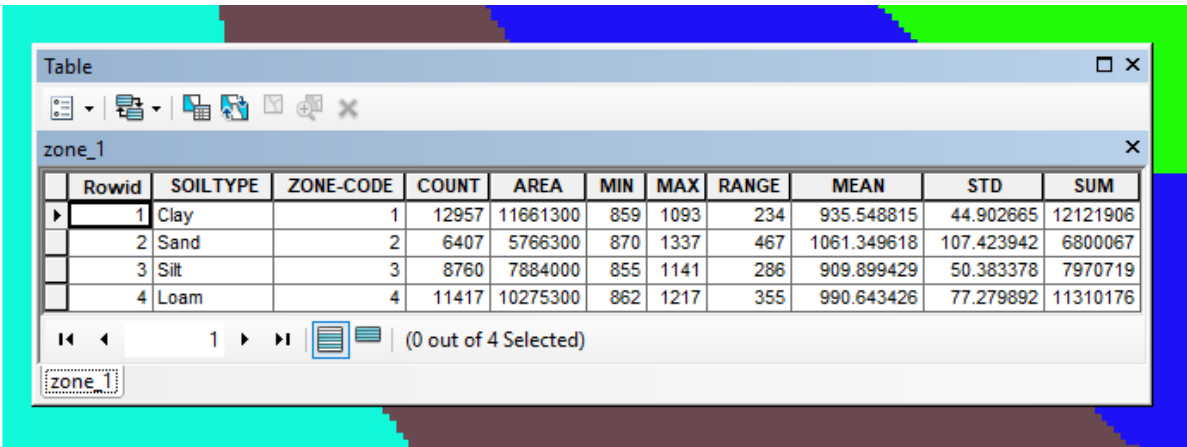


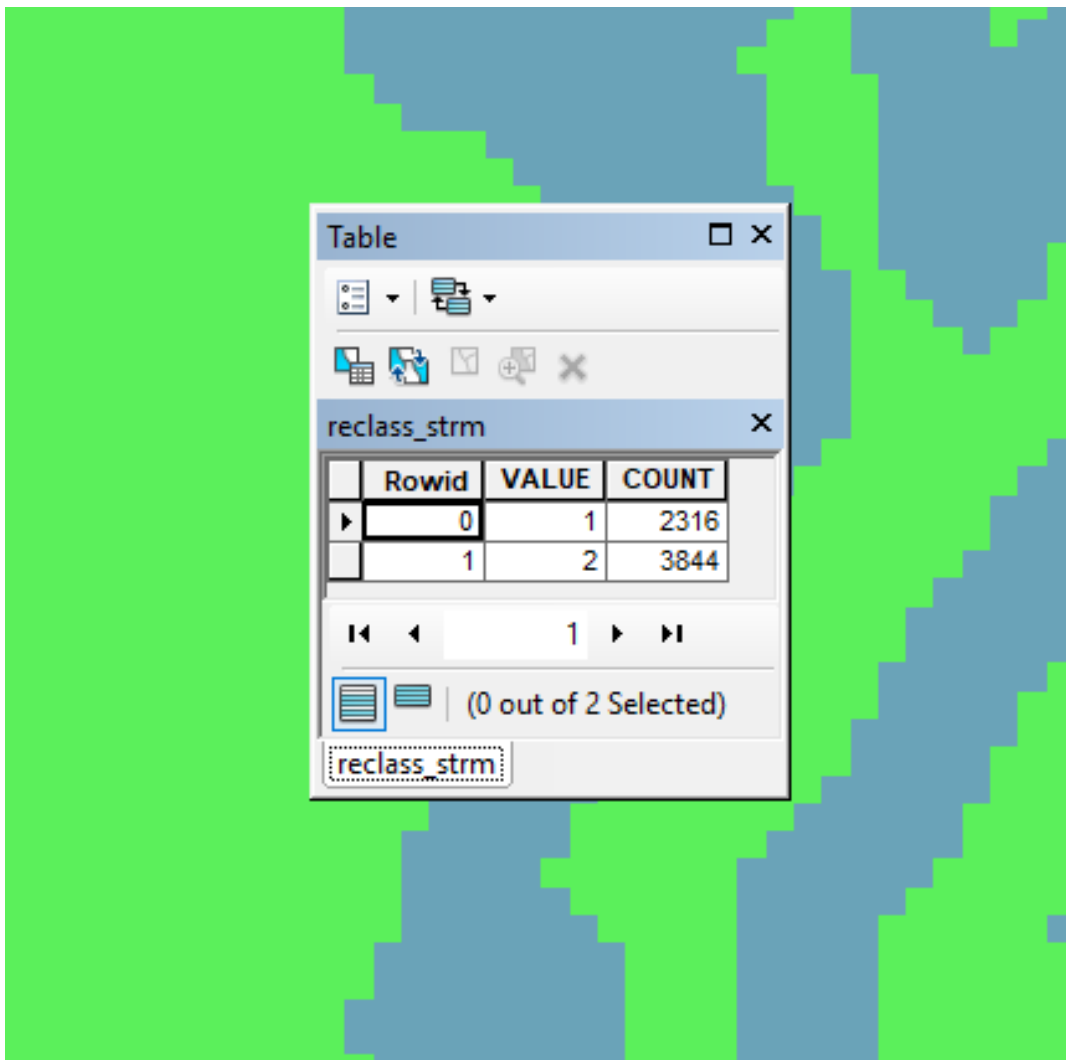
Figure 3: The resulting raster, emidamean, of the neighborhood block mean operation that depicts 3x3 mean elevation.

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Rowid	SOILTYPE	ZONE-CODE	COUNT	AREA	MIN	MAX	RANGE	MEAN	STD	SUM
1	Clay	1	12957	11661300	859	1093	234	935.548815	44.902665	12121906
2	Sand	2	6407	5766300	870	1337	467	1061.349618	107.423942	6800067
3	Silt	3	8760	7884000	855	1141	286	909.899429	50.383378	7970719
4	Loam	4	11417	10275300	862	1217	355	990.643426	77.279892	11310176

Figure 4: The table resulting from the Zonal Statistics depicting the soil zones for emidalat.



Rowid	VALUE	COUNT
0	1	2316
1	2	3844

Figure 5: The table depicting the number of cells within 200 meters of a stream and the number beyond that distance.

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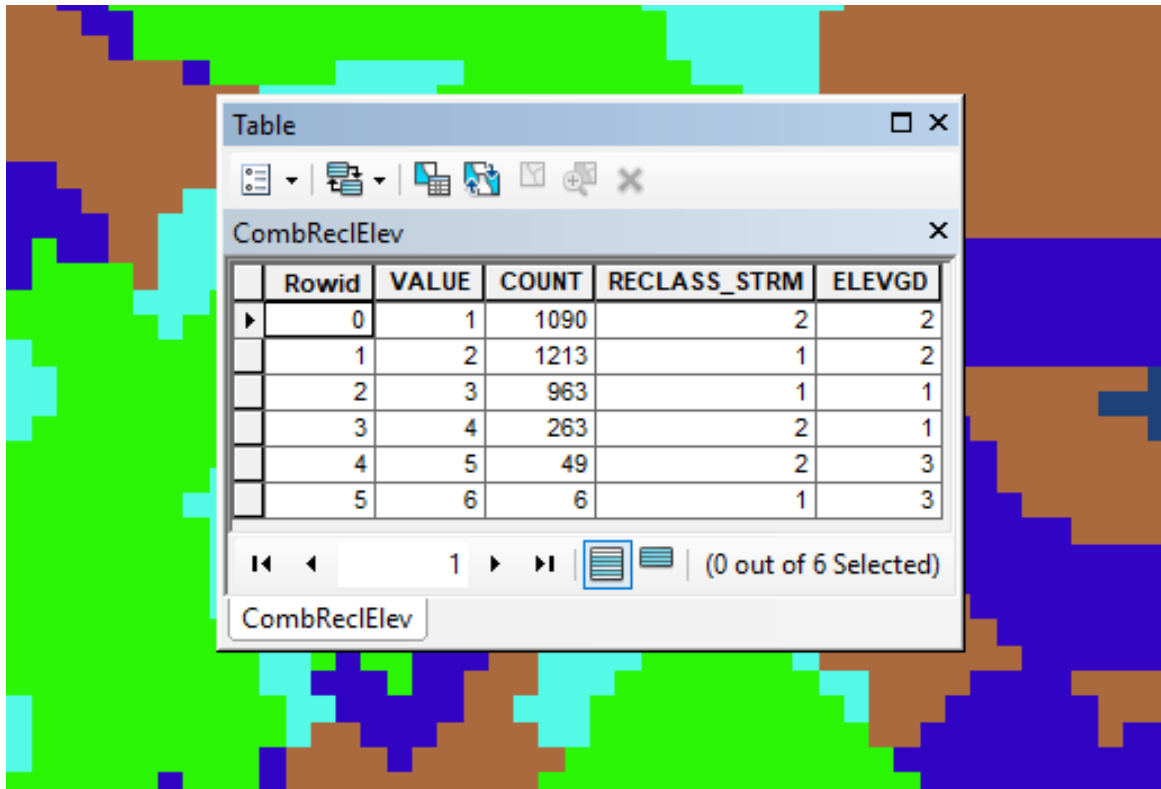


Figure 6: A table depicting the combination of the distance within 200 meters of a stream in addition to the elevation map.

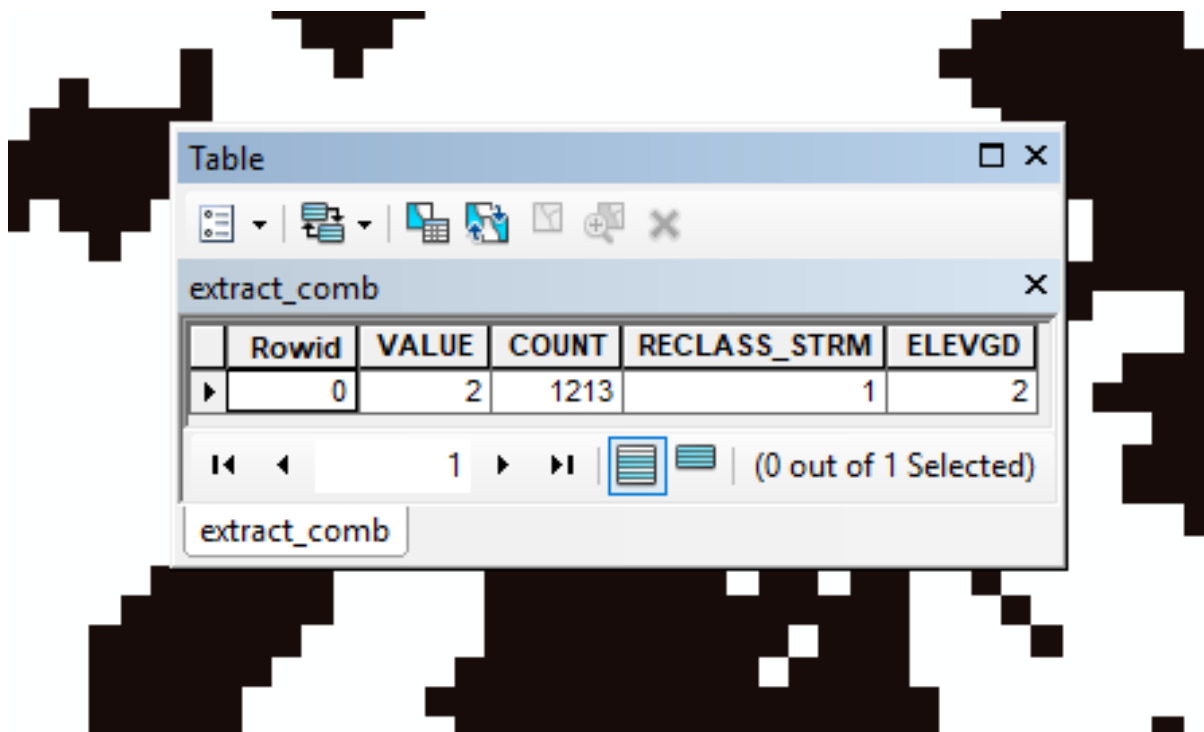


Figure 7: A table depicting the extraction of only the cells that were within 200 meters of a stream and matched the “flat” elevation grid class (2).

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