## New Mexico Geographic Access to Primary Care Physicians (2021) Gravity Model Results – Example Graphics Tests

Larry Spear, UNM – Geography 691, Fall 2023 (9/9/2023)

Depicted below are some examples of possible graphic methods using ArcGIS Pro, Python, and R that I am considering using in my NM Geographic Access to Healthcare web pages. For more information, please see the following links:

Original Page (<a href="http://www.unm.edu/~lspear/health\_stuff.html">http://www.unm.edu/~lspear/health\_stuff\_update.html</a>)

Data Analyses (<a href="http://www.unm.edu/~lspear/health\_stuff\_analyses.html">http://www.unm.edu/~lspear/health\_stuff\_analyses.html</a>)

The following example graphics have been prepared for the statistical comparison of the two-step (2S) gravity models with road distances derived from an origin-destination matrix (ODM) and the Esri socioeconomic status index (SEI).

	ESRI_SEI	Phys_2SEHZ	Phys_2\$GHZ	Phys_2SPHZ	Phys_2SDHZ
ESRI_SEI	1.000000	0.342036	0.312756	0.316079	0.321123
Phys_2SEHZ	0.342036	1.000000	0.864900	0.862674	0.872246
Phys_2SGHZ	0.312756	0.864900	1.000000	0.997988	0.993643
Phys_2SPHZ	0.316079	0.862674	0.997988	1.000000	0.997356
Phys_2SDHZ	0.321123	0.872246	0.993643	0.997356	1.000000





