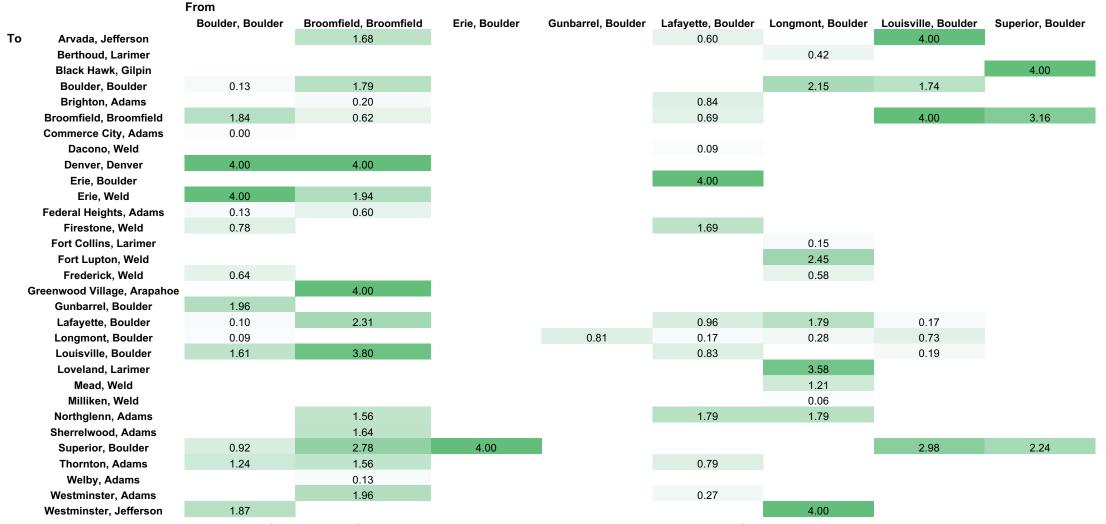# Movement Matrix (01/04/2022): From Places/Cities in Boulder and Broomfield County To Elsewhere

Marshall Fire: Boulder County, CO (30 December, 2021 - 5 January, 2022)

To	From Boulder, Boulder	Broomfield, Broomfield	Erie, Boulder	Gunbarrel, Boulder	Lafayette, Boulder	Longmont, Boulder	Louisville, Boulder	Superior, Boulder
Arvada, Jefferson		1.68			0.60		4.00	
Berthoud, Larimer						0.42		
Black Hawk, Gilpin								4.00
Boulder, Boulder	0.13	1.79				2.15	1.74	
Brighton, Adams		0.20			0.84			
Broomfield, Broomfield	1.84	0.62			0.69		4.00	3.16
Commerce City, Adams	0.00							
Dacono, Weld					0.09			
Denver, Denver	4.00	4.00						
Erie, Boulder					4.00			
Erie, Weld	4.00	1.94						
Federal Heights, Adams	0.13	0.60						
Firestone, Weld	0.78				1.69			
Fort Collins, Larimer						0.15		
Fort Lupton, Weld						2.45		
Frederick, Weld	0.64					0.58		
Greenwood Village, Arapahoe		4.00						
Gunbarrel, Boulder	1.96							
Lafayette, Boulder	0.10	2.31			0.96	1.79	0.17	
Longmont, Boulder	0.09			0.81	0.17	0.28	0.73	
Louisville, Boulder	1.61	3.80			0.83		0.19	
Loveland, Larimer						3.58		
Mead, Weld						1.21		
Milliken, Weld						0.06		
Northglenn, Adams		1.56			1.79	1.79		
Sherrelwood, Adams		1.64						
Superior, Boulder	0.92	2.78	4.00				2.98	2.24
Thornton, Adams	1.24	1.56			0.79			
Welby, Adams		0.13						
Westminster, Adams		1.96			0.27			
Westminster, Jefferson	1.87					4.00		

• Values in the matrix represent the strength of movement from Place A to Place B. It is calculated using z-score of population change, a metric representing the departure from the pre-crisis situation. Z-score of the movement across places was calculated as an average of all 1-km tile-level vectors with origins and destinations located inside the places.

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Movement Matrix (01/04/2022): From Elsewhere To Places/Cities in Boulder and Broomfield County

Marshall Fire: Boulder County, CO (30 December, 2021 - 5 January, 2022)

From \ To	Boulder, Boulder	Broomfield, Broomfield	Erie, Boulder	Gunbarrel, Boulder	Lafayette, Boulder	Longmont, Boulder	Louisville, Boulder	Superior, Boulder
Arvada, Jefferson		0.45					4.00	
Boulder, Boulder	0.13	1.84		1.96	0.10	0.09	1.61	0.92
Broomfield, Broomfield	1.79	0.62			2.31		3.80	2.78
Centennial, Arapahoe		4.00						
Denver, Denver	4.00	1.31				1.79		0.55
Englewood, Arapahoe		4.00						
Erie, Boulder								4.00
Federal Heights, Adams		1.04						
Frederick, Weld						1.15		
Gunbarrel, Boulder						0.81		
Lafayette, Boulder		0.69	4.00		0.96	0.17	0.83	
Longmont, Boulder	2.15				1.79	0.28		
Louisville, Boulder	1.74	4.00			0.17	0.73	0.19	2.98
Mead, Weld						0.71		
Northglenn, Adams		4.00			0.59			
Superior, Boulder		3.16						2.24
Thornton, Adams		1.18						
Westminster, Adams		0.76						
Westminster, Jefferson	4.00							

•Values in the matrix represent the strength of movement from Place A to Place B. It is calculated using z-score of population change, a metric representing the departure from the pre-crisis situation. Z-score of the movement across places was calculated as an average of all 1-km tile-level vectors with origins and destinations located inside the places.