

Data Sources

The MOD relies on the following data sources for variables that provide formula inputs. Links to specific data sources are included in the table below, and more information is available on the CAPCOG site at: <http://www.capcog.org/divisions/homeland-security/hurricane-harvey-mod>

Variable	Description	Source Organization	Source Link
IHA Claims	The number of registrants for FEMA's Individual Household Assistance Program following the DR-4332 event.	Federal Emergency Management Agency	http://www.capcog.org/documents/homelandsecurity/FIDA_21196_DR4332_2018-05-08.xlsx
IHA Damage Estimate	<p>Each IHA claim is evaluated by FEMA, and FEMA then records a Fully Verified Loss (FVL). FVLs are counted in the following damage brackets:</p> <ul style="list-style-type: none"> • \$200 - \$5,000 • \$5,000 - \$24,999 • \$25,000 - \$49,999 • \$50,000 - \$74,999 • \$75,000 - \$99,999 • \$100,00 - \$200,000 <p>The IHA Damage estimate counts the number of FVLs in each category and multiplies that count by the midpoint of the category. For example, if a jurisdiction only had 2 FVLs and both were in the \$200 - \$5,000 category, the IHA Damage Estimate would be \$5,200 (2*\$2,600).</p>	Federal Emergency Management Agency	Same as above
Infrastructure Damage	The cost of FEMA's Public Assistance to local jurisdictions as a result of DR-4332. Public Assistance is categorized according to the type of project. In an effort to focus on infrastructure, this accounting of public assistance omits FEMA's Category A (Debris Removal), Category B (Emergency Protective Measures), as well as Direct Administrative Costs.	Federal Emergency Management Agency	http://www.capcog.org/documents/homelandsecurity/DR4332_TX_Projects_6.8.2018-COGs.xlsx
LMI Persons	The number of Low- to Moderate-Income persons living in the jurisdiction. Low- to Moderate-Income is defined by the Department of Housing and Urban Development as 50 percent and 80 percent of area median incomes, respectively.	Housing and Urban Development	https://www.hudexchange.info/onecpd/assets/File/ACS_2006_lowmod_blockgroup_tx.xlsx

Allocation Formulas

To allocate the funds in both the Housing Acquisition Assistance Program and the Infrastructure Assistance Program, we rely on formulas that multiply relevant variables by a weighting factor. The formulas and weights for each program are outlined below.

Housing Acquisition Assistance

Through the Housing Acquisition Assistance Program, CAPCOG has \$6,581,974 to allocate to local jurisdictions in the disaster-impacted area. The Housing Acquisition Assistance program has a minimum allocation of \$1,000,000. Using the following formula, both Caldwell and Lee Counties fall short of this threshold. To comply with the threshold, the allocations for Caldwell and Lee Counties were increased to \$1,000,000, and the remaining funds in the program were awarded to Bastrop and Fayette according to their relative shares using the formula below.

Housing Acquisition Assistance Program Allocation Formula

Share of Total CAPCOG Region Acquisition Allocation = $\$6,581,974 \div ((\text{Share of Regional IHA Claims} * 20) + (\text{Share of Regional IHA Damage} * 40) + (\text{Share of LMI Persons} * 40))$

The table below displays the application of this approach and the data used for each jurisdiction.

Table 1: CAPCOG Region Housing Acquisition Assistance Allocations

Area	FEMA IHA Claims	Share of Regional IHA Claims	IHA Claims Factor Weight	FEMA IHA Damage	Share of Regional IHA Damage	IHA Damage Factor Weight	LMI Persons	Share of Regional LMI Persons	LMI Factor Weight	Raw Allocation Share	Adjusted Shares for Floor	Total Allocation
Bastrop County	772	38%	20	\$1,536,100.00	15%	40	33,125	50%	40	34%	44%	\$ 2,015,856.38
Caldwell County	243	12%	20	\$520,400.00	5%	40	18,485	28%	40	16%	0%	\$ 1,000,000.00
Fayette County	821	40%	20	\$7,388,900.00	73%	40	9,150	14%	40	43%	56%	\$ 2,566,117.62
Lee County	213	10%	20	\$688,200.00	7%	40	5,710	9%	40	8%	0%	\$ 1,000,000.00
Region Total	2,049			\$10,133,600.00			66,470					\$6,581,974.00

Infrastructure Assistance

Through the Infrastructure Assistance Program, CAPCOG has \$4,305,474 to local jurisdictions in the disaster-impacted area. The Infrastructure Assistance Program has a minimum allocation of \$100,000. Because of this much lower threshold, individual cities are potential direct recipients of this funding. Where a city, through the formula, qualified for an allocation below \$100,000, that city's allocation has been attributed to the corresponding county allocation. That said, while cities are potential direct recipients, it may also be preferable to award the money to counties and allow counties to work with local jurisdictions to allocate the infrastructure assistance funding to specific projects. CAPCOG has provided information on both scenarios in the tables that follow.

Infrastructure Assistance Program Allocation Formula

Share of Total CAPCOG Region Infrastructure Allocation = \$4,305,474 * ((Share of Regional IHA Claims * 40) + (FEMA Infrastructure Damage * 40) + (Share of LMI Persons * 20))

The following table displays the application of this approach and the data used for each jurisdiction. In other words, this table shows Infrastructure Assistance allocations if individual cities receive funding directly.

Table 2: CAPCOG Region Infrastructure Assistance Allocations, Including Cities

Area	FEMA IHA Claims	Share of Regional IHA Claims	IHA Claims Factor Weight	FEMA Infrastructure Damage	Share of Regional Infrastructure Damage	Infrastructure Damage Factor Weight	LMI Persons	Share of Regional LMI Persons	LMI Factor Weight	Total Share	Raw Allocations	Total Allocations (Considering Minimum Threshold)
Bastrop County	177	9%	40	\$3,364,470.95	29%	40	24,570	37%	20	23%	\$973,803.28	\$973,803.28
Bastrop	232	11%	40	\$166,922.77	1%	40	2,585	4%	20	6%	\$253,664.03	\$253,664.03
Elgin	80	4%	40	\$152,972.21	1%	40	3,790	6%	20	3%	\$139,453.85	\$139,453.85
Smithville	283	14%	40	\$0.00	0%	40	2,180	3%	20	6%	\$266,165.06	\$266,165.06
Caldwell County	100	5%	40	\$6,687,546.05	58%	40	7,800	12%	20	28%	\$1,191,177.11	\$1,306,157.90
Lockhart	91	4%	40	\$11,318.00	0%	40	5,590	8%	20	4%	\$150,762.79	\$150,762.79
Luling	41	2%	40	\$46,600.00	0%	40	3,640	5%	20	2%	\$88,727.58	\$0.00
Martindale	6	0%	40	\$0.00	0%	40	675	1%	20	0%	\$13,806.51	\$0.00
Uhland	5	0%	40	\$0.00	0%	40	635	1%	20	0%	\$12,446.69	\$0.00
Fayette County	70	3%	40	\$498,672.44	4%	40	3,735	6%	20	4%	\$182,330.80	\$257,165.63
Fayetteville	19	1%	40	\$0.00	0%	40	145	0%	20	0%	\$17,852.08	\$0.00
Flatonia	37	2%	40	\$21,283.87	0%	40	1,010	2%	20	1%	\$47,412.64	\$0.00
La Grange	578	28%	40	\$280,757.23	2%	40	2,675	4%	20	13%	\$562,767.96	\$562,767.96
Round Top	11	1%	40	\$0.00	0%	40	25	0%	20	0%	\$9,570.10	\$0.00
Schulenburg	106	5%	40	\$0.00	0%	40	1,560	2%	20	3%	\$109,346.68	\$109,346.68
Lee County	63	3%	40	\$219,583.53	2%	40	2,490	4%	20	3%	\$118,306.32	\$141,351.58
Giddings	131	6%	40	\$0.00	0%	40	2,675	4%	20	3%	\$144,835.24	\$144,835.24
Lexington	19	1%	40	\$0.00	0%	40	545	1%	20	1%	\$23,045.26	\$0.00
Region Total	2,049	100%	40	\$11,450,127.05	100%	40	66,325				\$4,305,474.00	\$4,305,474.00

If Infrastructure Assistance allocations are only made to counties, the subsequent funding allocations are shown in the table below.

Table 3: CAPCOG Region Infrastructure Assistance Allocations, Not Including Cities

Area	FEMA IHA Claims	Share of Regional IHA Claims	IHA Claims Factor Weight	FEMA Infrastructure Damage	Share of Regional Infrastructure Damage	Infrastructure Damage Factor Weight	LMI Persons	Share of Regional LMI Persons	LMI Factor Weight	Total Share	Total Allocations (Considering Minimum Threshold)
Bastrop County	772	38%	40	\$3,684,365.93	32%	40	33,125	50%	20	38%	\$1,632,148.07
Caldwell County	243	12%	40	\$6,745,464.05	59%	40	18,485	28%	20	34%	\$1,458,279.69
Fayette County	821	40%	40	\$800,713.54	7%	40	9,150	14%	20	22%	\$929,021.13
Lee County	213	10%	40	\$219,583.53	2%	40	5,710	9%	20	7%	\$286,025.11
Region Total	2,049			\$11,450,127.05			66,470				\$4,305,474.00