

Supplementary Material 1a - SoVI Indicators¹ and data

	Indicator Code	Description
SOCIO-DEMOGRAPHIC	QFEMALE_al	Percent Female
	qfemlbr	Percent Female Participation in the Labor Force
	QFHH_alt	Percent Female Headed Households
	QBLACK_alt	Percent Black
	QNATAM_alt	Percent Native American
	QASIAN_alt	Percent Asian
	QHISP_alt	Percent Hispanic
	QESL_alt	Percent Speaking English as a Second Language with Limited English Proficiency
	QAGEDEP_al	Percent of Population Under 5 years or 65 or Over
	MEDAGE_alt	Median Age
	qfam	Percent of Children Living in Married Couple Families
	QNRRES_alt	Percent of Population Living in Nursing and Skilled Nursing Facilities
	QED12LES_a	Percent Education Below High School
	PPUNIT_alt	People per Unit
	QNOAUTO_al	Percent of Housing Units with No Car
ECONOMIC	qssben	Percent of Households Receiving Social Security
	qpovty	Percent Poverty
	qcvlun	Percent Civilian Unemployment
	PERCAP_alt	Per Capita Income
	qrich200k	Percent of Households Earning Greater Than \$200,000 Annually
	MDGRENT_al	Median Gross Rent
	MHSEVAL_al	Median House Value
	QEXTRCT_al	Percent Employed in Extractive Industries
	QSERV_alt	Percent Employment in Service Industry
	QUNOCCHU_a	Percent Unoccupied Housing Units
	QRENTER_al	Percent Renters
	qmoho	Percent of Housing in Mobile Homes
Excluded (Data only available at county Level)		
	QNOHLTH	Percent of Population Without Health Insurance
	HOSPTPC	Hospitals Per Capita (County Level ONLY)

¹ All SoVI data from American Community Survey (ACS) at tract level. Available at: <https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>

Supplementary Material 1b – GDRI Indicators and data

SOCIAL SUSCEPTIBILITY INDICATORS

hurricanes	drought	floods (pluvial/fluvial)	salinity intrusion	coastal flooding
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Category	Indicator ²	Code	Hazard Setting ³					Proxy Taken
Demography	Percentage female-headed households	S_SOC3	+		+		+	Female householder, no husband present
Remoteness	Travel time to closest city	S_SOC4	+		+		+	
Disability & health status	Percentage of the population with disabilities	S_SOC5	+	+	+		+	
	Percentage malnourished population	S_SOC6	+	+	+	+	+	Infant mortality rate (%)
	Percentage of population with chronic illnesses	S_SOC7		+				Average per 100k HIV, cancer, diabetes, obesity
Education	Percentage of illiterate population	S_SOC8	+	+	+	+	+	% population over 25 without high school diploma
Poverty & inequality	Percentage of population below national poverty line	S_ECO1	+	+	+	+	+	
	Dependency ratio	S_ECO2	+	+	+	+	+	Age dependency ratio
	GINI index (0-100)	S_ECO4	+	+	+	+	+	
Agriculture	Dependency on agriculture/forestry/fisheries for livelihood	S_OCU1	+	+	+	+	+	% Employed in farming, fishing, forestry and hunting, mining
Settlement & housing	Percentage of population living in poorly-constructed houses	S_HOU2	+		+		+	% Housing units mobile homes
	Percentage of households without an official land title / secure residential status	S_HOU6	+	+	+	+	+	Occupied housing units - % Renter-occupied
Stability	Prevalence of population who experience violence	S_STA1	+	+	+	+	+	Violent crime offenses known to law enforcement

² Grey boxes indicate that a proxy was used (see Proxy Taken column).

³ The GDRI is designed to also calculate hazard-specific scores (see Hagenlocher et al. (2018) or Anderson et al. (2019) for details) by only aggregating those indicators assigned a “+” in the Hazard Setting columns depending on context. However, in the current study only multi-hazard scores were calculated for comparison, aggregating scores from all indicators.

SOCIAL SUSCEPTIBILITY INDICATORS

Indicator Code	Resolution	Year	Source
S_SOC3	Tract	2010	U.S. Census Bureau
S_SOC4	Tract	2000	Nelson (2008)
S_SOC5	Tract	2010-2014	ACS
S_SOC6	Tract	Louisiana 2009, Mississippi 2014	Louisiana Center for Records and Statistics, Mississippi State Department of Health
S_SOC7	County	Aids - 2013, Diabetes - 2013, Obesity - 2013, Cancer - 2009-2013	AidsVU; CDC; CDC; National Cancer Institute
S_SOC8	County	2010-2014	ACS
S_ECO1	Tract	2010-2014	ACS
S_ECO2	Tract	2010-2014	ACS
S_ECO4	Tract	2010-2014	ACS
S_OCU1	Tract	2010-2014	ACS
S_HOU2	Tract	2010-2014	ACS
S_HOU6	Tract	2010-2014	ACS
S_STA1	County	2015	FBI

ECOSYSTEM SUSCEPTIBILITY INDICATORS

hurricanes	drought	floods (pluvial/fluvial)	salinity intrusion	coastal flooding
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Category	Indicator	Code	Hazard Setting					Proxy Taken
HABITAT								
Habitat destruction								
Aquatic	Percentage of wetlands drained (wetland loss)	ES_DES1		+	+	+	+	
	Freshwater scarcity	ES_DES2		+		+		Global fresh water resources
Terrestrial	Percentage of deforested area	ES_DES3	+	+	+		+	
Coast	Percentage of shoreline eroded	ES_DES4	+			+	+	Average shoreline loss in meters
Habitat fragmentation								
Aquatic	Wetland connectivity	ES_FRA1		-	-	-	-	
	River connectivity	ES_FRA2		-	-	-	-	
Terrestrial	Forest connectivity (RS)	ES_FRA3		-	-			
Habitat degradation								
Aquatic	Water quality of freshwater bodies	ES_DEG1		-	-			
	Return Flow Ratio	ES_DEG4		+	+			
Terrestrial	Soil organic matter	ES_DEG6		-	-			
	Cation exchange capacity	ES_DEG9				-		
ECOSYSTEM								
Fragile ecosystems	Percentage of area covered by "problem soils"	ES_FRG1		+				
	Percentage of area covered by critical sites for conservation (danger of extinction)	ES_FRG3	+	+	+	+	+	Priority for conservation index
Biodiversity	Species richness adjusted by intactness	ES_BIO1a	-	-	-	-	-	

ECOSYSTEM SUSCEPTIBILITY INDICATORS

Indicator Code	Resolution	Year	Source
ES_DES1	30 m	1985-2009	Couvillion et al. (2011)
ES_DES2	Tract	mean 1950 - 2010	UNEP-WCMC
ES_DES3	30 m	2000-2014 (change)	Hansen et al. 2013
ES_DES4	Tract	1973-2001	USGS
ES_FRA1	County	Imagery compiled: 1973-2013	U.S. Fish and Wildlife Service
ES_FRA2	Tract	2015, 2015	EPA; U.S. Census Tiger; United States Army Corps of Engineers.
ES_FRA3	County	2014	Hansen et al. (2013)
ES_DEG1	Tract	2015	EPA
ES_DEG4	Tract	2014	WRI Aquaduct
ES_DEG6	1 km	2013	https://www.soilgrids.org
ES_DEG9	1 km	2013	https://www.soilgrids.org
ES_FRG1	220 m	2012	USDA
ES_FRG3	10 km	2015	Jenkins et al. (2015)
ES_BIO1a	10 km	2013	Jenkins et al. (2013)

COPING CAPACITY INDICATORS

hurricanes	drought	floods (pluvial/fluvial)	salinity intrusion	coastal flooding
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Category	Indicator	Code	Hazard Setting					Proxy Taken
Information / early warning	Percentage of households without access to information	C_EWS1	+	+	+	+	+	Occupied housing units - No phone in household (cell or landline)
Awareness	Percentage of households that have not attended any disaster preparedness training	C_AWA1	+	+	+	+	+	
Shelter/evacuation	Access to shelter places	C_SHE1	-		-		-	
Public infrastructure	Access to rural markets	C_MAR1		-	-	-		Access to Affordable and Nutritious Food
	Density of emergency services: hospitals, fire brigades, police stations	C_GOV2	-	-	-	-	-	
	Density of transportation network	C_TRA1	-	-	-		-	
Transportation	Percentage of households without individual means of transportation: car or motorcycle	C_TRA2	+	+	+		+	
Health services	Number of hospital beds per 1,000	C_HEA1	-	-	-	-	-	
	Percentage of population without health insurance	C_HEA2	+	+	+	+	+	

COPING CAPACITY INDICATORS

Indicator Code	Resolution	Year	Source
C_EWS1	Tract	2010-2014	ACS
C_AWA1	County	2016	FEMA
C_SHE1	Tract	2016	FEMA
C_MAR1	County	2010	USDA
C_GOV2	Tract	Hospitals - 2015; Fire brigades - 2011, Police stations - 2014	USGS
C_TRA1	Tract	2014 (Study)	EPA
C_TRA2	Tract	2010-2014	ACS
C_HEA1	County	2015	American Hospital Directory
C_HEA2	Tract	2010-2014	ACS

ECOSYTEM ROBUSTNESS INDICATORS

Hurricanes	drought	floods (pluvial/fluvial)	salinity intrusion	coastal flooding
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Category	Indicator	Code	Hazard Setting					Proxy Taken
Conservation	Percentage of forest area protected and designated for the conservation of biodiversity	ER_CON1	-	-	-	-	-	Percentage of Protected Areas (National / International)
Restoration	Percentage of wetlands restored	ER_RES1	-	-	-	-	-	
	Percentage of forest area restored	ER_RES2	-	-	-	-	-	
Ecosystem	Ecosystem Functionality Index (EFI)	ER_ECO1	-	-	-	-	-	
	Mean Species Abundance (MSA)	ER_BIO2	-	-	-	-	-	

ECOSYSTEM SUSCEPTIBILITY INDICATORS

Indicator Code	Resolution	Year	Source
ER_CON1	Tract	2014	EPA
ER_RES1	30 m	1985 - 2009	Couvillion et al. (2011)
ER_RES2	30 m	2000-2014 (change)	Hansen et al. 2013
ER_ECO1	1 km	2010	Freudenberger et al. 2012
ER_BIO2	30km	2010	GLOBIA

GDMI Data Sources

Census Tracts Shapefile

U.S. Census Bureau (2016a). TIGER/Line® Shapefiles and TIGER/Line® Files. [cb_2014_22_tract_500k]. Available at: <https://www.census.gov/cgi-bin/geo/shapefiles/index.php>. Accessed 12 March 2017.

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SOCIAL SUSCEPTIBILITY

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S_SOC4

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S_SOC5

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S_SOC6

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S_SOC7

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S_SOC8

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S_ECO1

[ACS] U.S. Census Bureau. (2015). *Poverty Status in the Past 12 Months, 2010-2014 American Community Survey 5-year estimates*. [ACS_14_5YR_S1701]. Available at: <https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>. Accessed 05 May 2017.

S_ECO2

[ACS] U.S. Census Bureau. (2015). *Age and Sex, 2010-2014 American Community Survey 5-year estimates*. [ACS_14_5YR_S0101]. Available at: <https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>. Accessed 05 May 2017.

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S_HOU2

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S_HOU6

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S_STA1

[FBI] Federal Bureau of Investigation. (2015). *Offenses Known to Law Enforcement, by State by Metropolitan and Nonmetropolitan Counties*. 2015 Crime in the United States. Available at: <https://ucr.fbi.gov/crime-in-the-u.s/2015/crime-in-the-u.s.-2015/offenses-known-to-law-enforcement/county-agency>. Accessed 12 April 2017.

ECOSYSTEM SUSCEPTIBILITY

ES_DES1

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ES_DES2

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ES_DES3

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ES_DES4

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ES_FRA2

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ES_FRA3

⁴ Methods not data derived from document

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ES_FRG3

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COPING CAPACITY

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C_AWA1

[FEMA] Federal Emergency Management. (2016). The Community Emergency Response Team (CERT) Program. Available at: <https://www.ready.gov/citizen-corps>. Accessed 24 May 2017.

C_SHE1

[FEMA] Federal Emergency Management. (2016). NSS Shelters Database. [FEMA_NSS.lyr]. Available at: <https://www.arcgis.com>. Accessed 24 May 2017.

C_MAR1

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C_GOV2

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C_TRA2

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ECOSYSTEM ROBUSTNESS

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ER_BIO2

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Supplementary Material 2 - SoVI PCA Components

SoVI Mississippi Delta: Rotated Components¹				
Component	Variable	Cardinality	% variance explained	Most influential variable/correlation
1	Wealth	-	28.19	Per Capita Income (-0.88) Median House Value (-0.88) Percent of Households Earning Greater than 200k Annually (-0.86)
2	Poverty and Race (Black)	+	13.45	Percent of Housing Units with No Car (0.83) Percent Poverty (0.783) Percent Unoccupied Housing Unit (0.76)
3	Age (Old)	+	9.73	Percent of Households Receiving Social Security (0.85) Age Dependency (0.82) Median Age (0.79)
4	Ethnicity (Hispanic and Race Asian)	+	8.32	Percent Speaking English as a Second Language with Limited Proficiency (0.95) Percent Hispanic (0.76) Percent Asian (0.72)
5	Gender (Female)	+	5.97	Percent Female (0.89) Percent Female Participation in Labor Force (0.76) Percent Female Headed Households (0.49)
6	Extractive Industry, Race (Native American)	+	4.37	Percent Employment in Extractive Industries (0.81) Percent Native American (0.66) Percent Mobile Homes (0.63)
7	Special Needs	+	4.11	People Per Unit (-0.74) Percent of Population Living in Nursing and Skilled-Nursing Facilities (0.59) Percent Renters (0.50)
Total Variance Explained			74.14	

¹Varimax rotation with Kaiser Normalization, rotation converged in eight iterations