

Indicators of Human Health and Well-being

Developed for Gulf Coastal Counties Impacted by Deepwater Horizon

NOAA, NOS, NCCOS
 Hollings Marine Laboratory/Center for Human Health Risk
 Center for Coastal Monitoring and Assessment

Indicators	Measures
WELL-BEING	
Health	
	life expectancy
	disabled population
	infant mortality rate
	mental health
	substance abuse
	cardiovascular disease rate
	cancer rates
	respiratory disease rate
	population without health insurance
Safety	
	violent crime total
	property crime total
	domestic violence rate
	density of housing near shoreline
	density of housing in flood plain
	number of severe weather events
Economic Security	
	population economic security
	median household income
	median household debt
	household public assistance income
	average gas price
	property value
	foreclosure rates
	poverty rates
	industry economic security
	income and employment in ocean job sectors
	commercial banks and savings institutions deposits
	fishery landings (shellfish, finfish, other relevant categories)
	local government economic security

	tax revenue for local government
	local government expenditures
	local government debt
County government structure	
	FEMA Community Rating System (CRS) county rating
	presence of comprehensive plan
	years with comprehensive plan in place
	number of Community Emergency Response Teams (CERTs) in county
	number of fire, police, EMT, other emergency personnel
Education	
	high school graduation rates
	number of higher education institutions
	expenditure per student
	educational attainment by level
Food/water	
	number of people on county water, well water
	number of people using sewer, septic systems
	number of homes without indoor plumbing
	access to healthy foods
Housing	
	total housing units
	vacancy rate
	median home value of owner occupied housing units
	housing tenure
Access to critical social services	
	number public libraries
	number of households with at least one personal vehicle
	number of people on Social Security, Medicare, Medicaid, WIC, SNAP, disability
	number of hospitals per capita
	number of doctors per capita
Occupation structure	
	economic diversification measure
	employees per sector
	earnings per sector
	manufacturing per sector

	number of establishments by employment-size class
	number of private businesses, small businesses
	median wages, salaries per sector
	match between labor force and jobs
	total labor force size
	unemployment rates
	labor force characteristics
Civil society/Social cohesion	
	voting
	voter turnout rate
	number of registered voters
	membership
	membership in organizations, churches
	giving to others
	charitable contributions
	arts and culture
	number of arts, entertainment, recreation businesses
	number of formal structures to support arts (e.g., arts councils, foundations)
	social gathering places
	number of churches
	number of registered non-profit organizations
	communication/information access
	number of people with phone service
	distribution of social gathering places
Social Conflict	
	bankruptcy filings
	divorce filings
	domestic violence
	crime
	poverty
	high school drop-out
	unemployment
Environmental Use	
	state park revenues total
	number of parks, recreational places
	distribution of parks, recreational places
	state park visitation total
	number of boat ramps or water access points

	days of beach closures/advisories
POPULATION DEMOGRAPHICS	
	total population
	population change
	distribution of population such as portion of population in flood zones
	rural and urban population
	diversity – population proportions by age, sex, race, ethnicity
	birth and death rates
ENVIRONMENTAL CONDITIONS	
	contaminants
	changes in coastal contaminants
	land
	land area (total land area)
	impervious surface
	building permits issued
	changes in land cover (e.g., development, loss of wetlands)
	water
	water area (total water area)
	public supply water use (total withdrawals, per capita use)
	domestic water use (total self-supplied withdrawals, per capita use)
	air
	number of unhealthy air quality days due to ozone
	number of unhealthy air quality days due to fine particulate matter
	resources
	fisheries closures
	coastal conditions
NOAA INVESTMENTS	
	Categories yet to be determined