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Gulf of Mexico OCS Oil and Gas Lease Sales: 2007-2012

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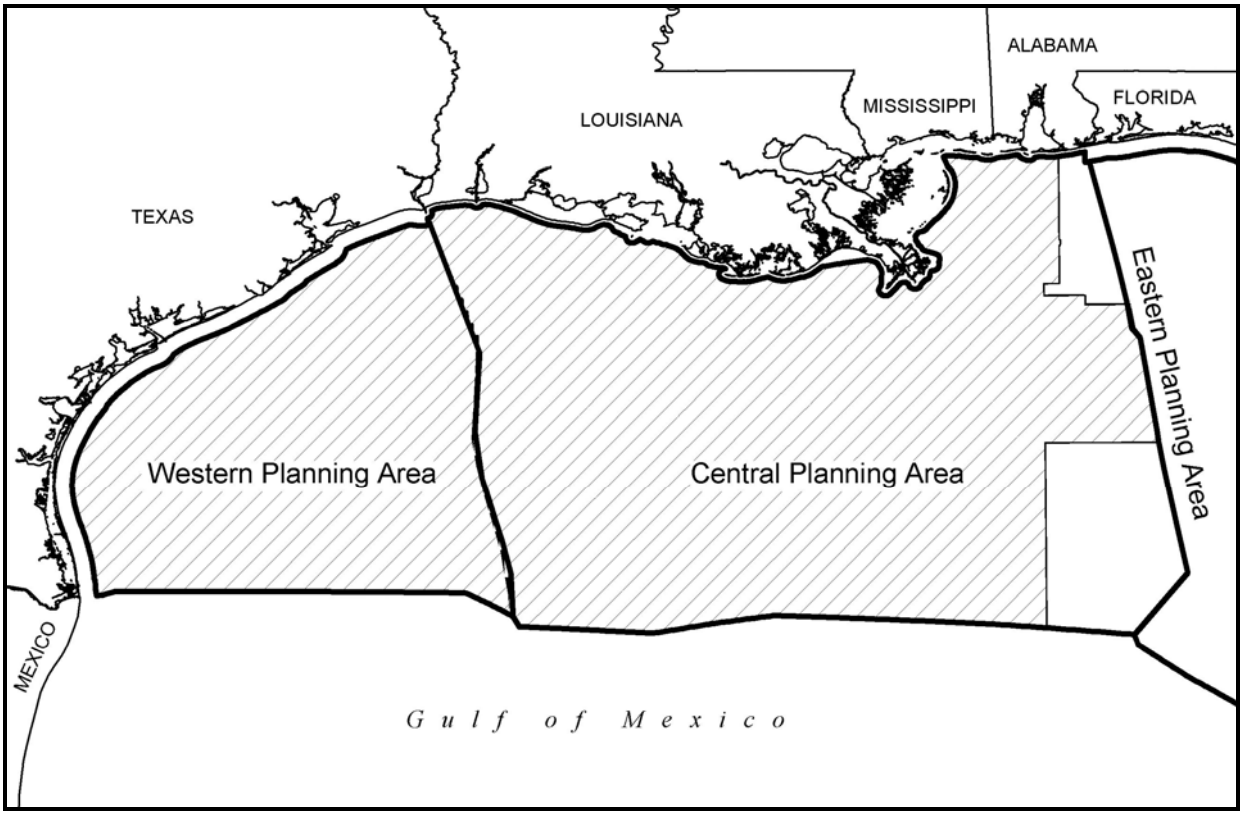

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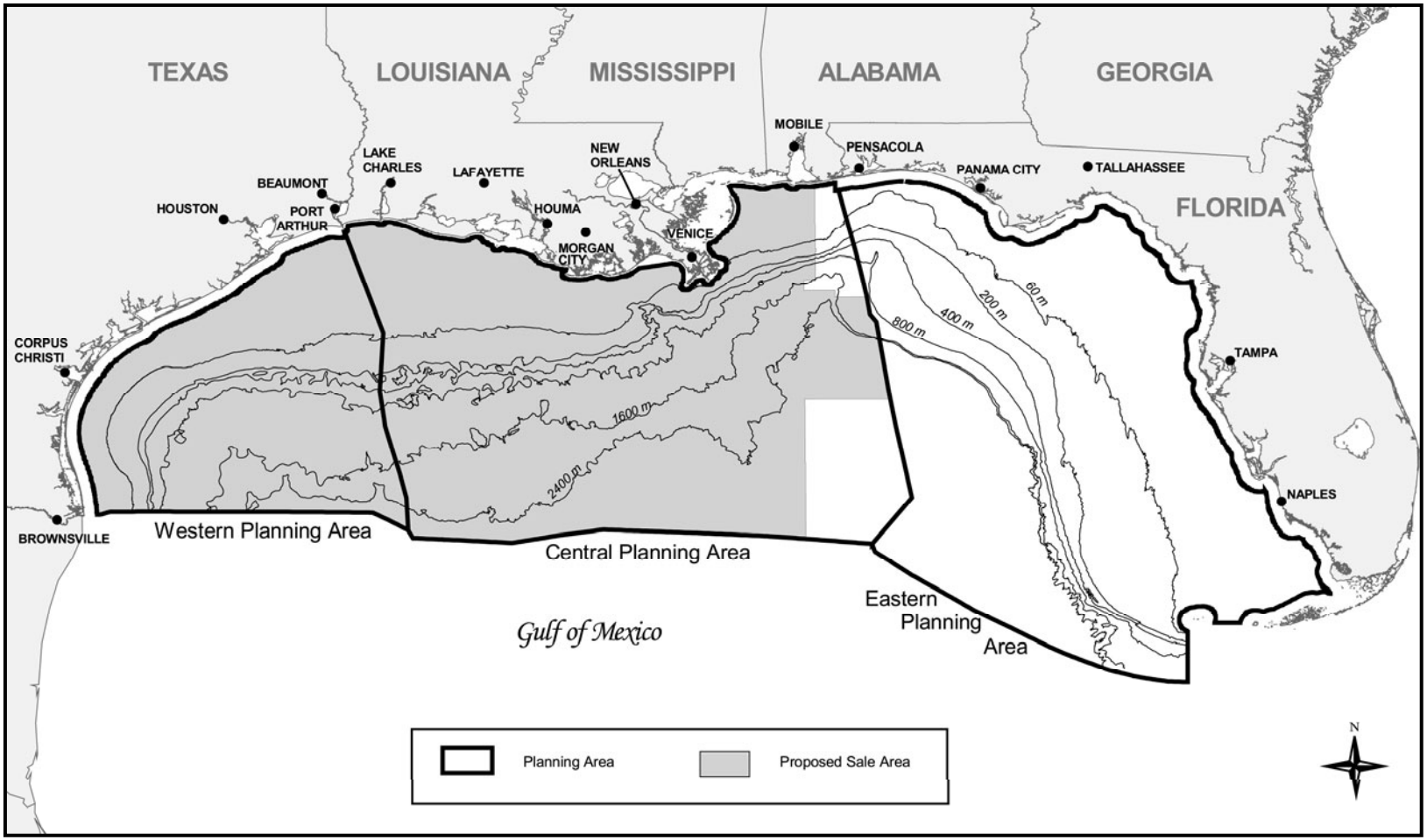

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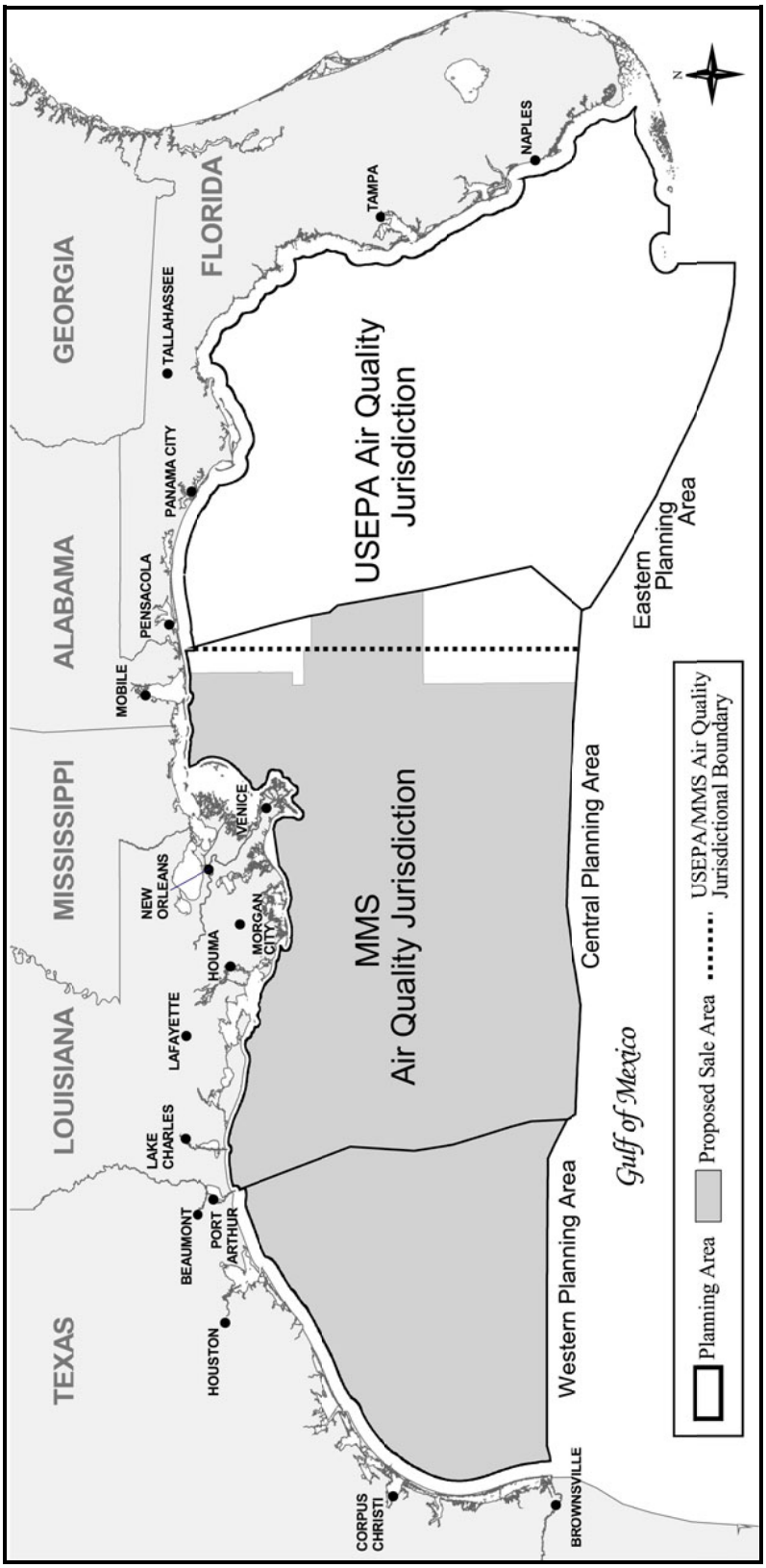

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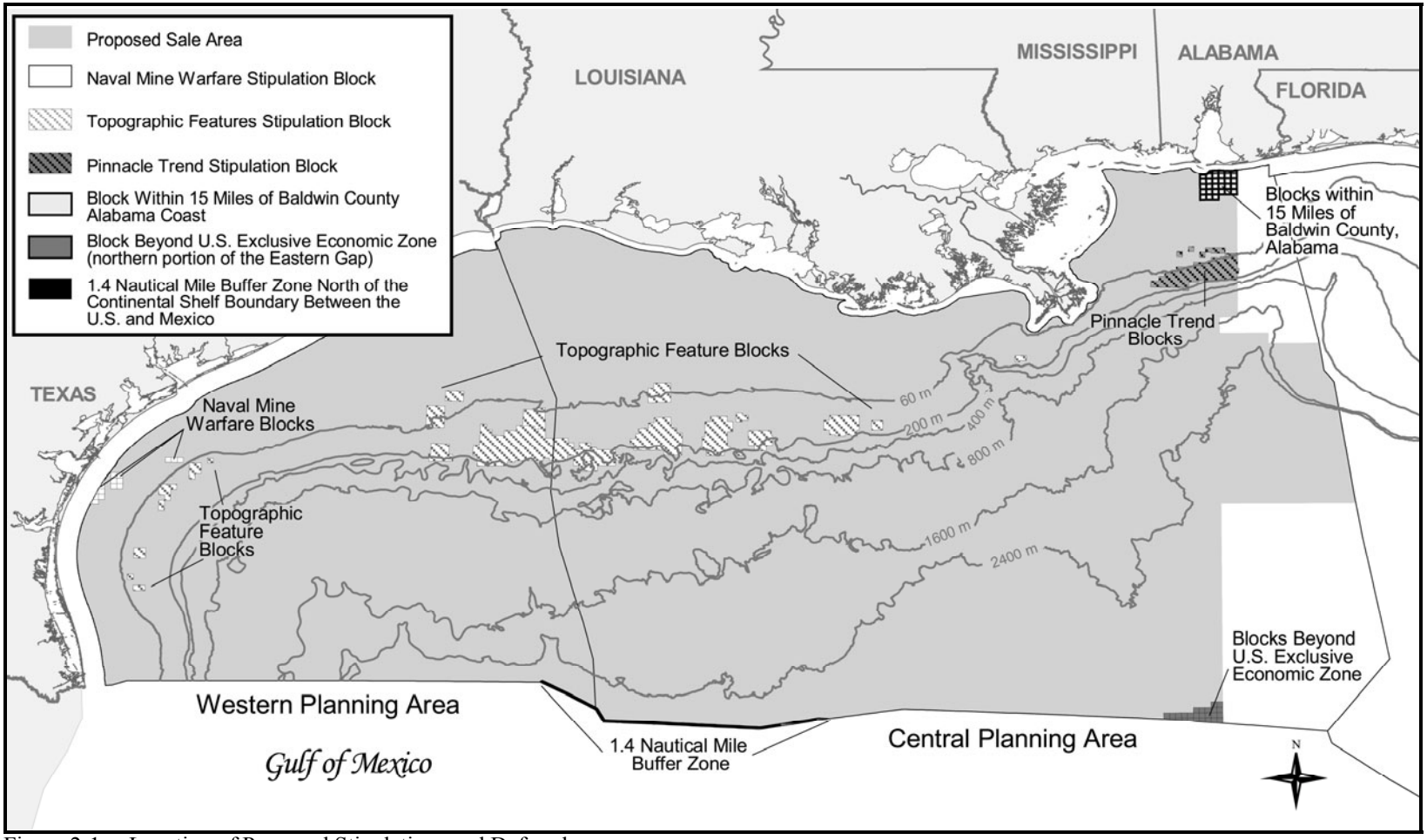

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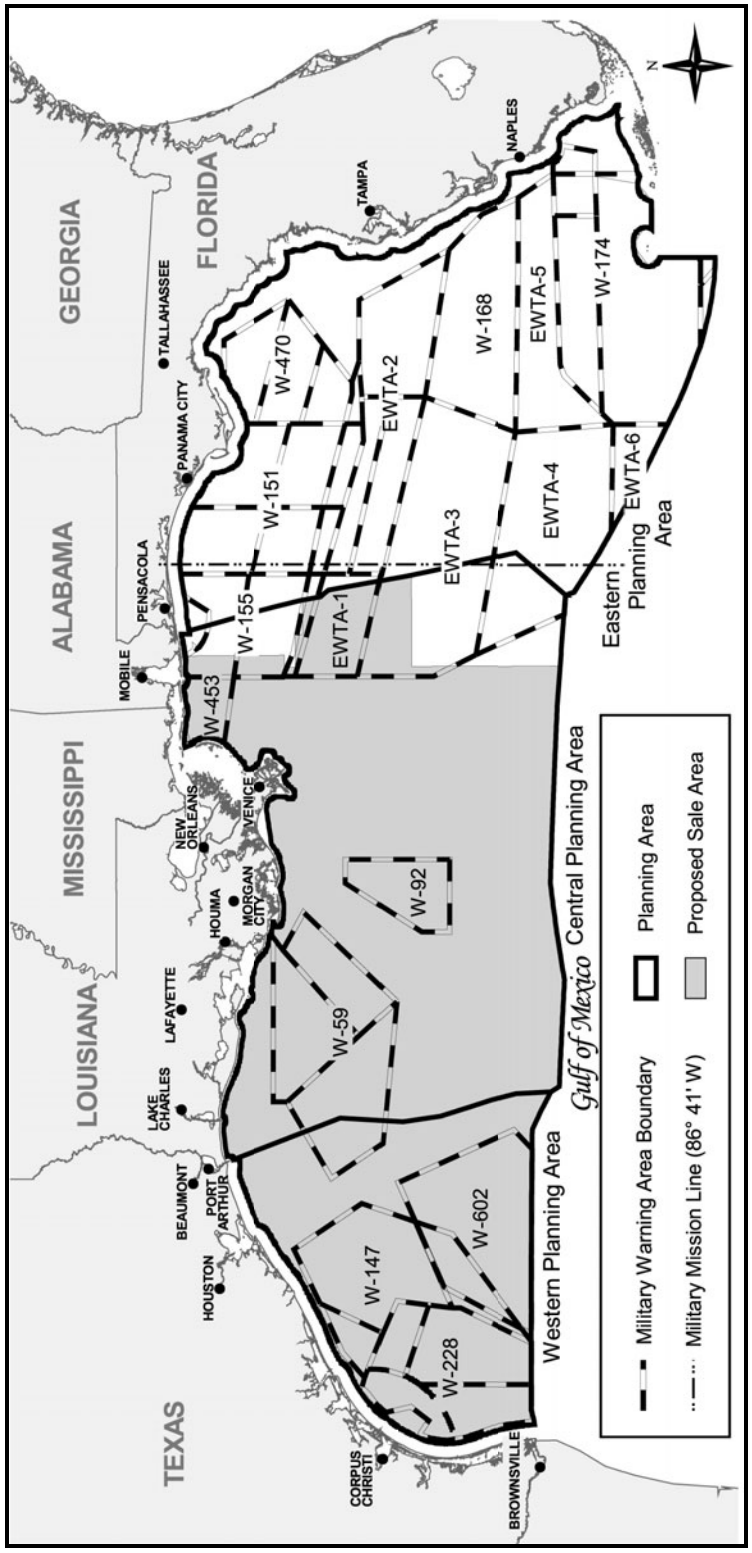

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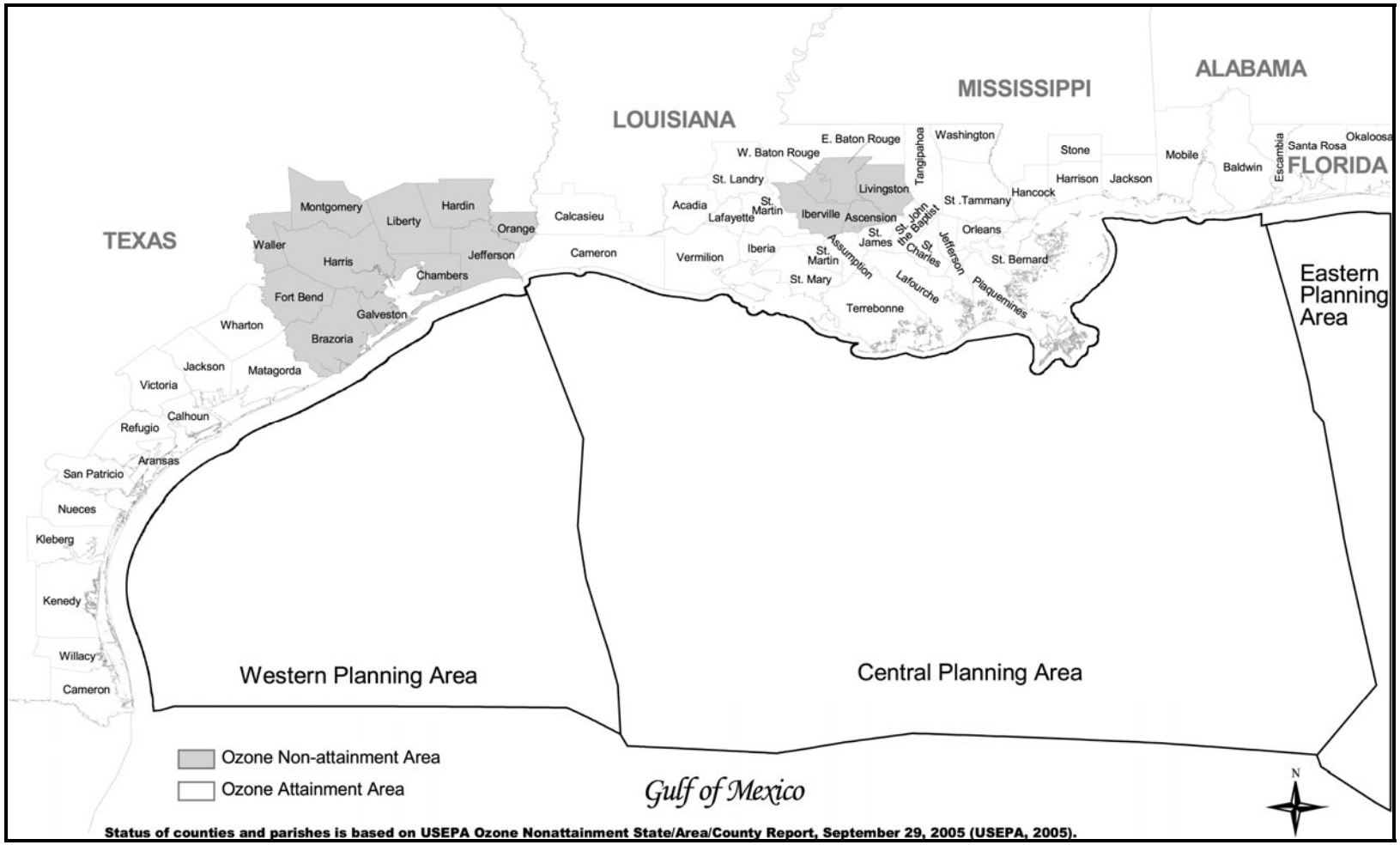

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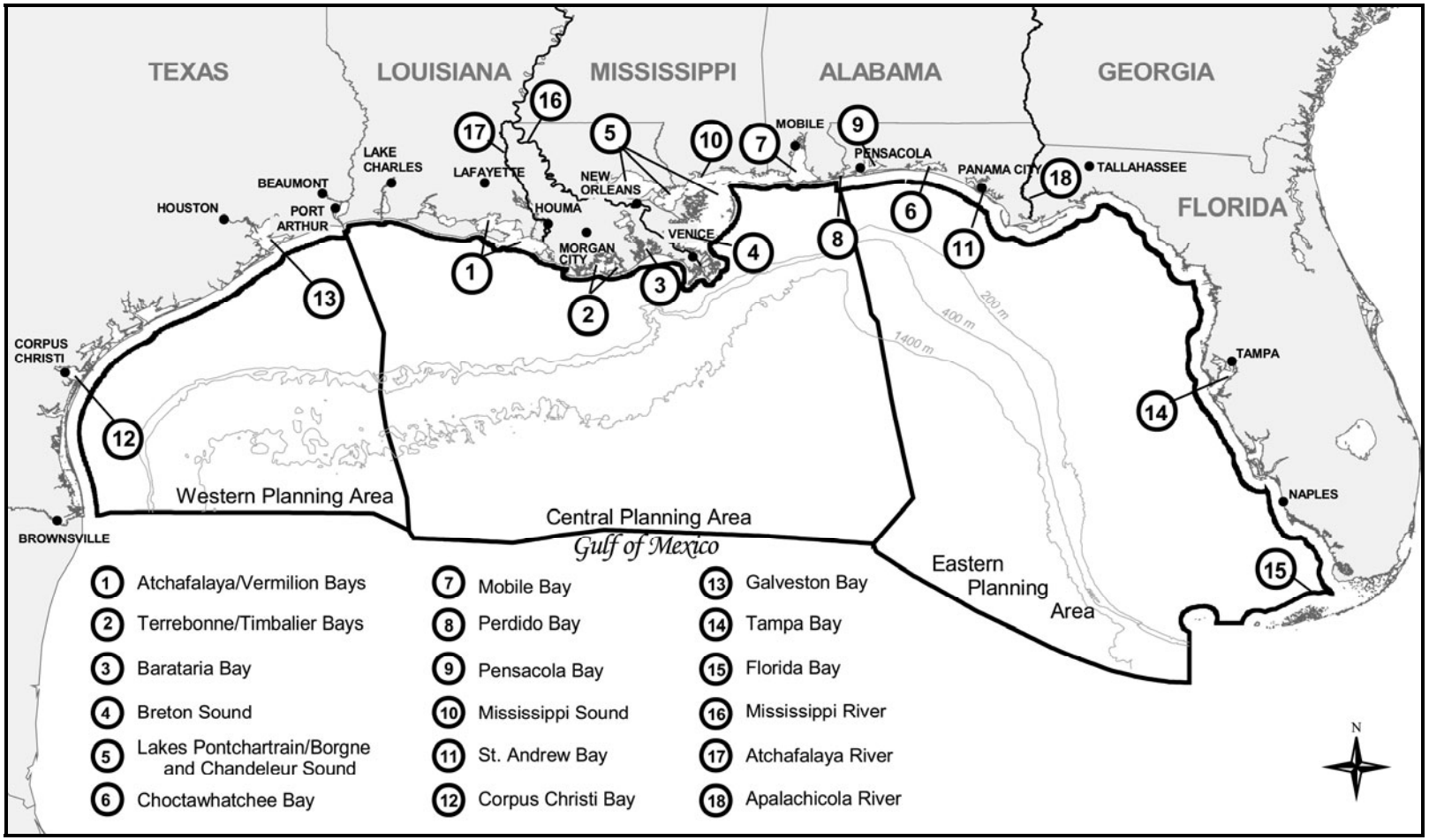

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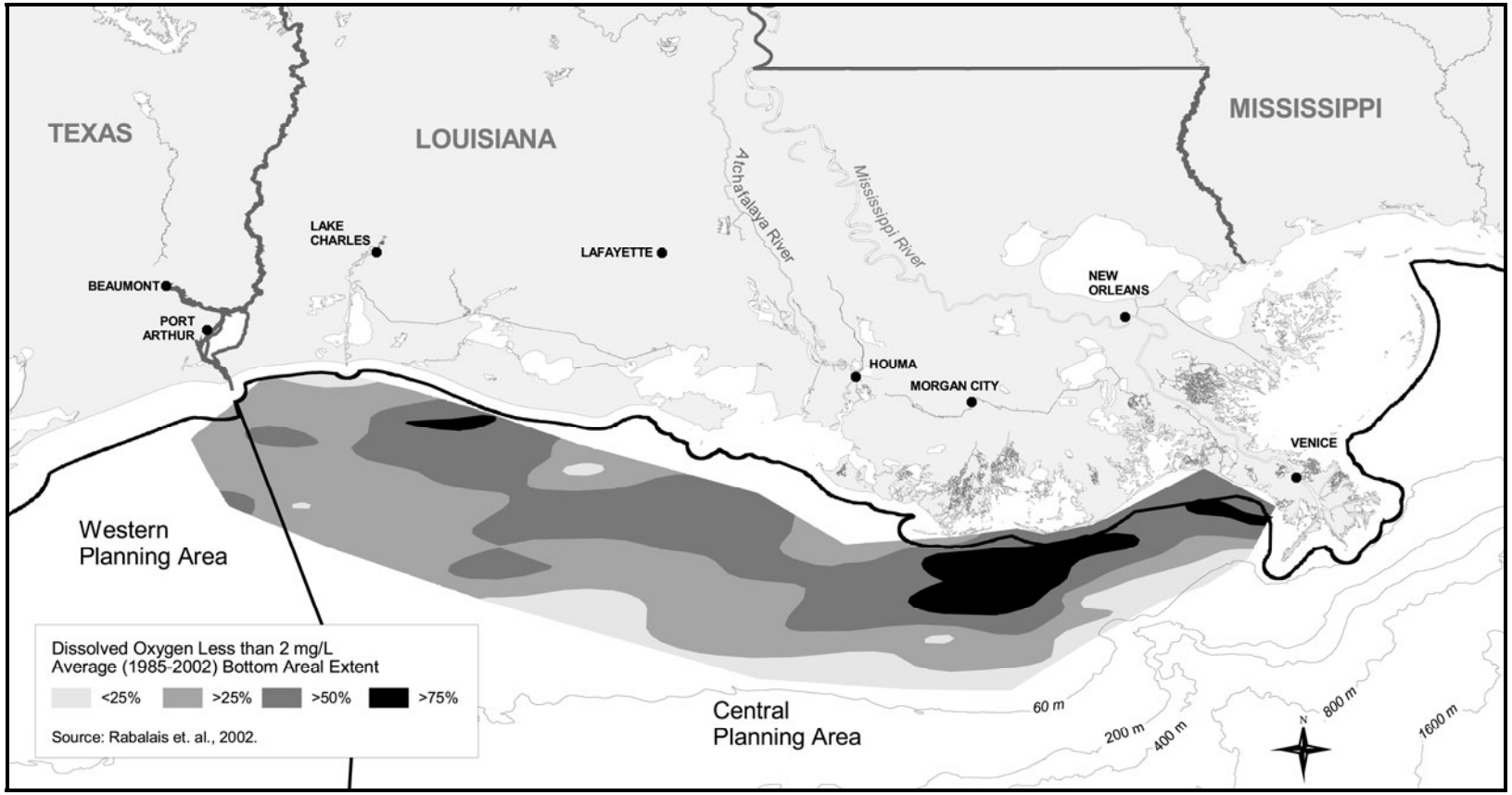

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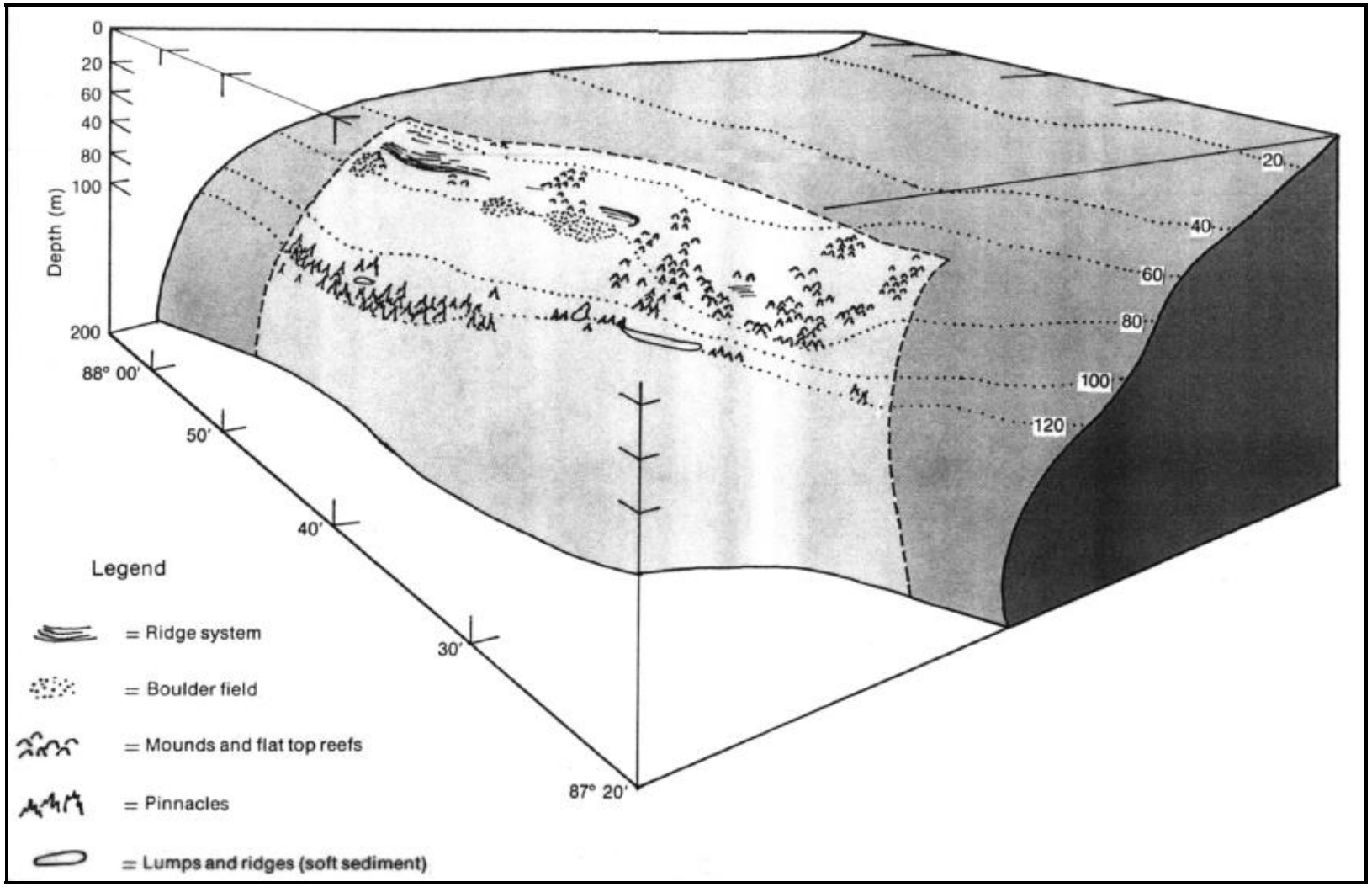

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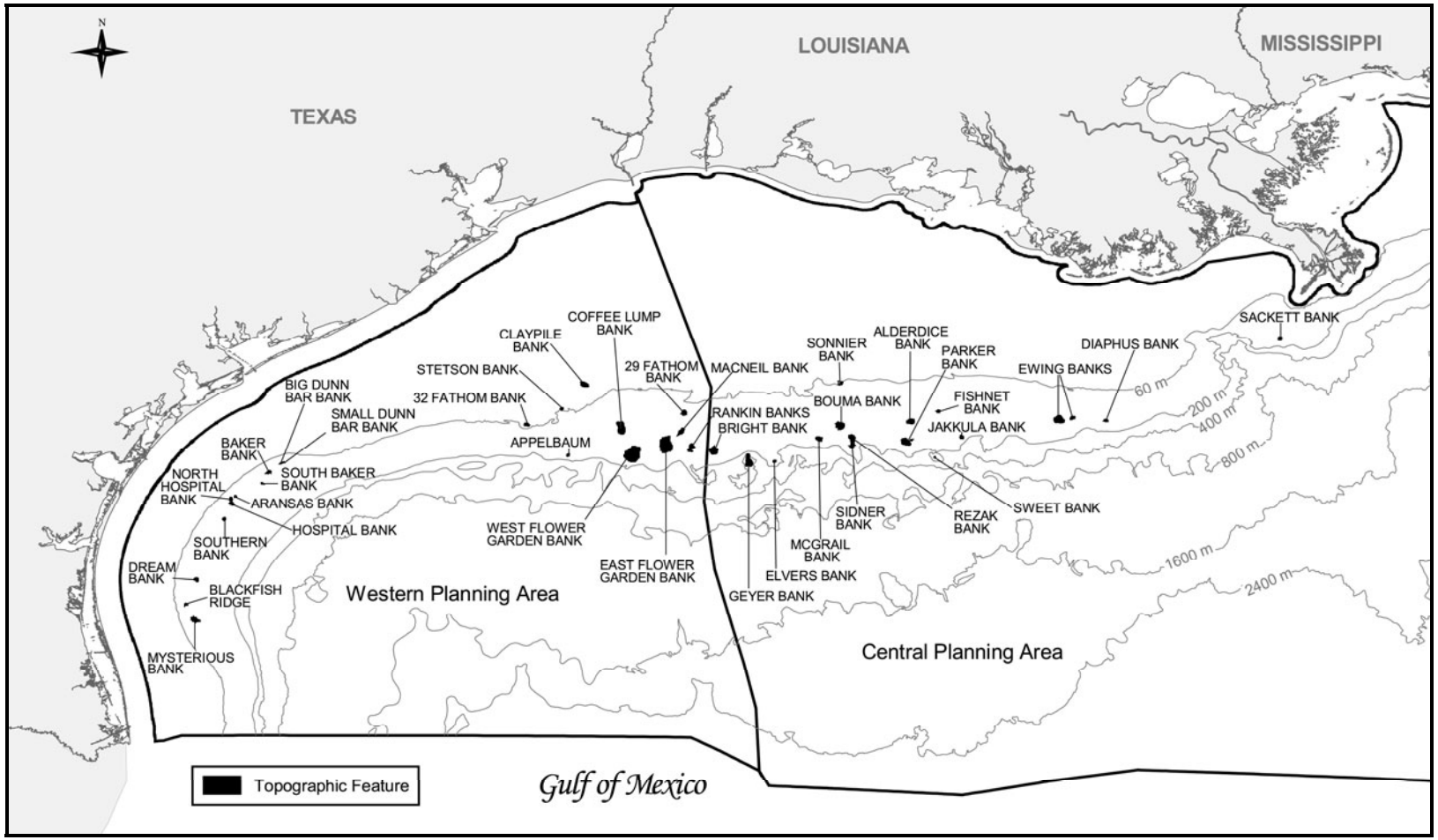

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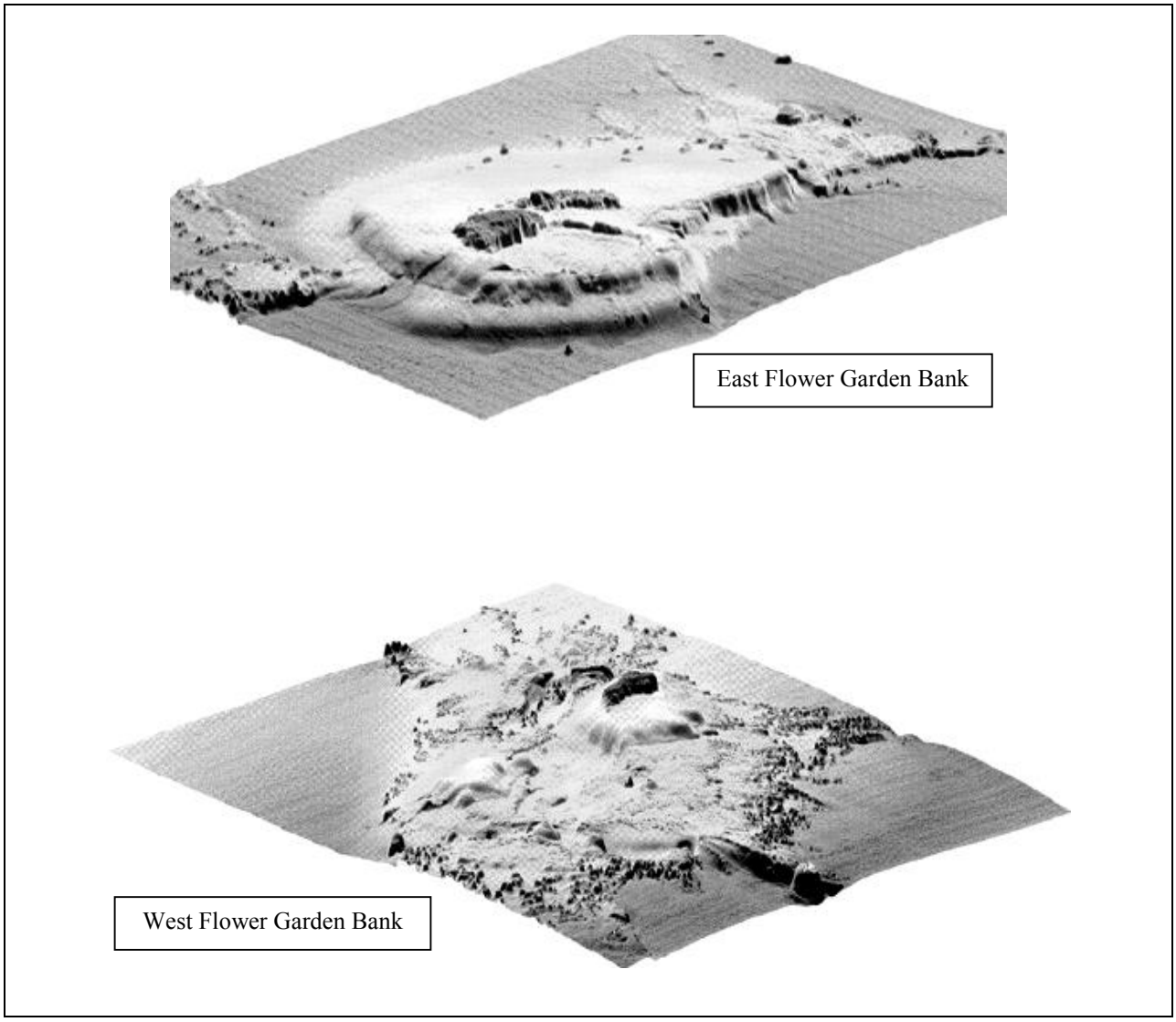

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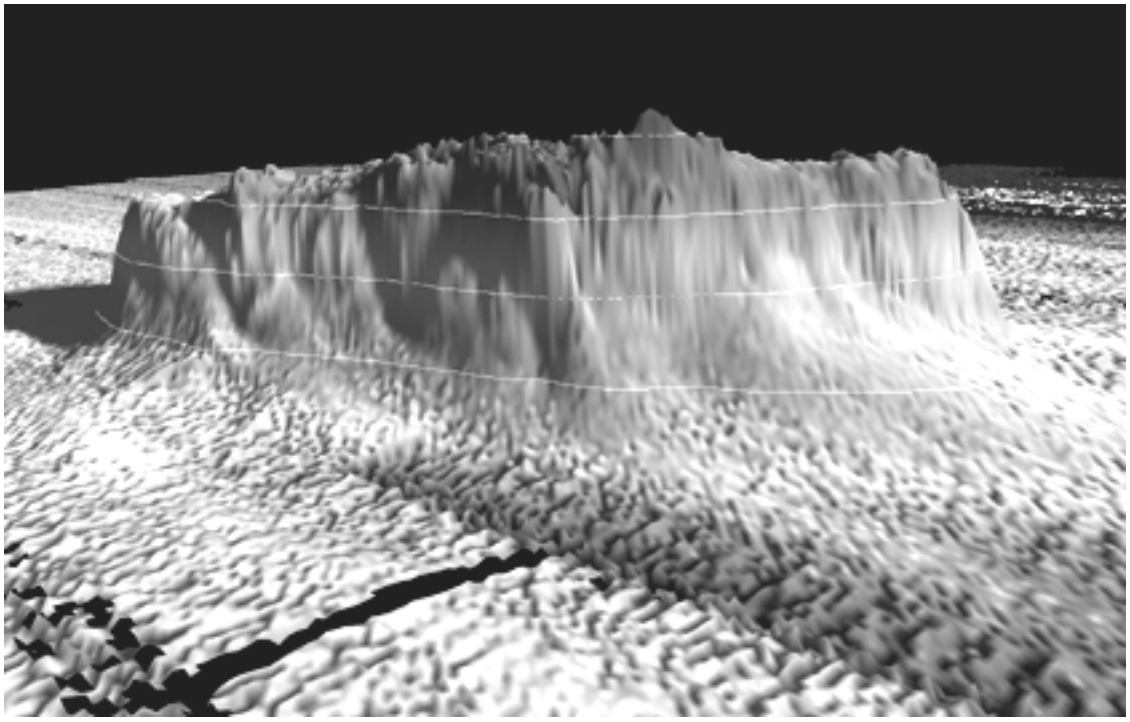

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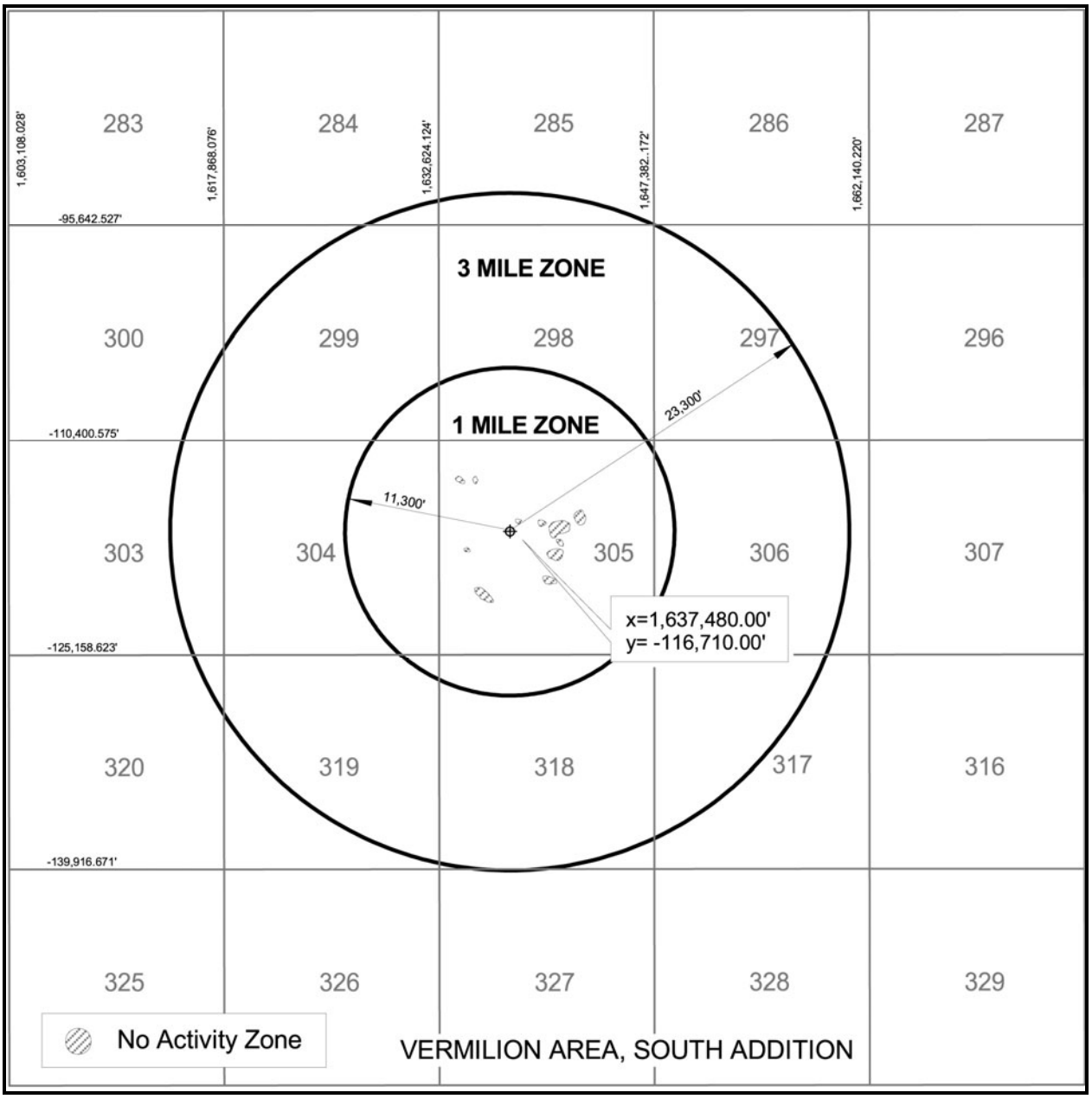

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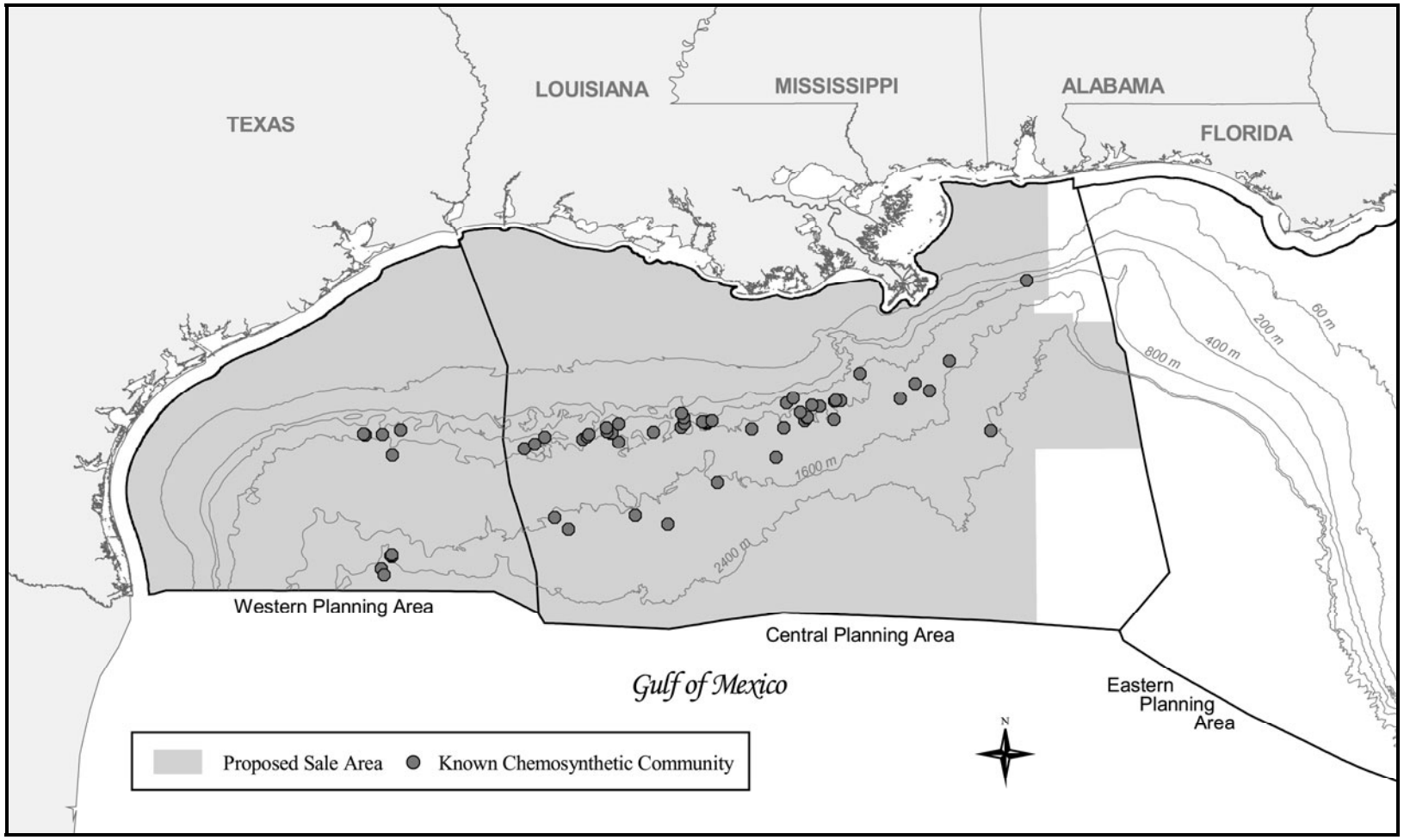

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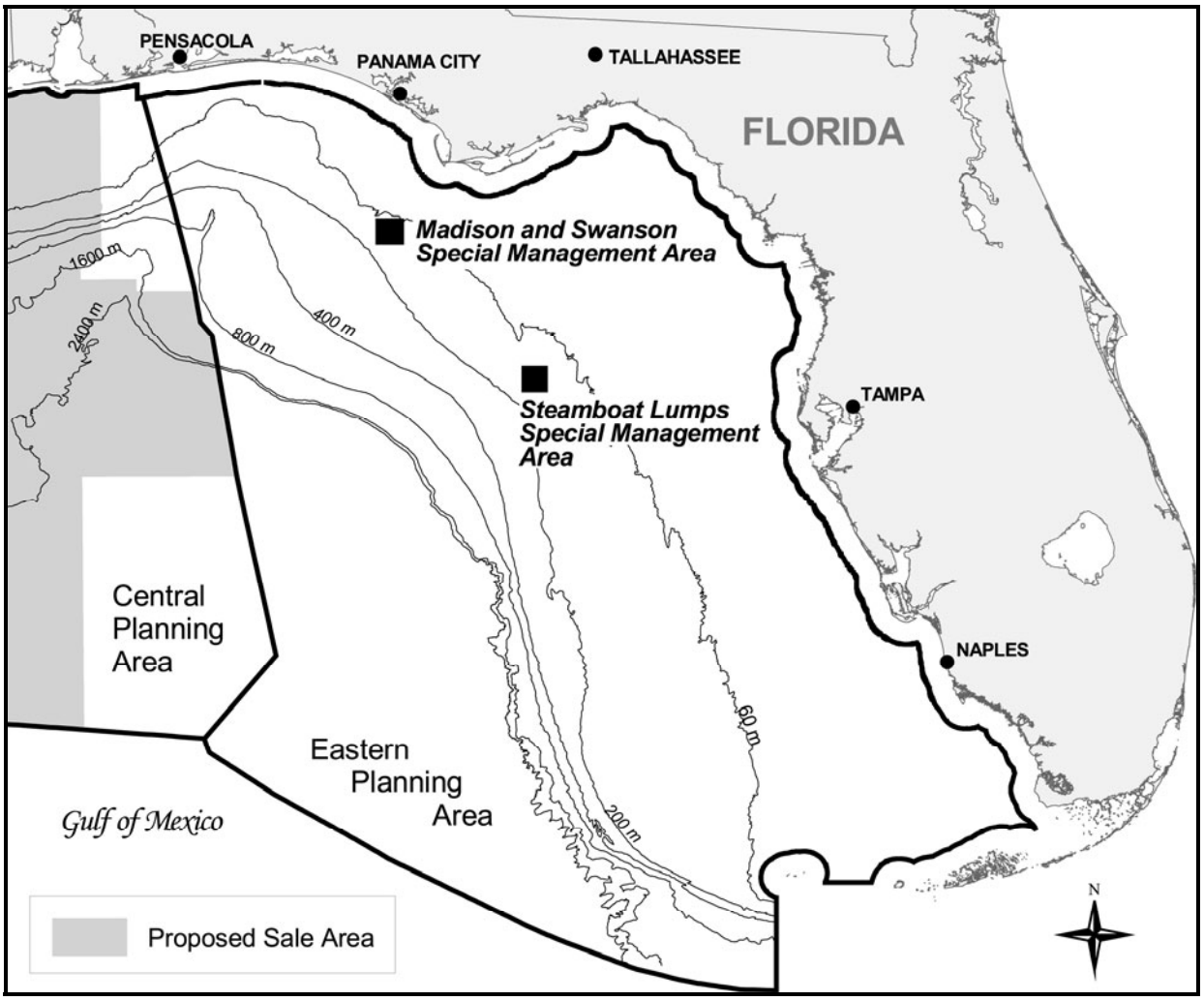

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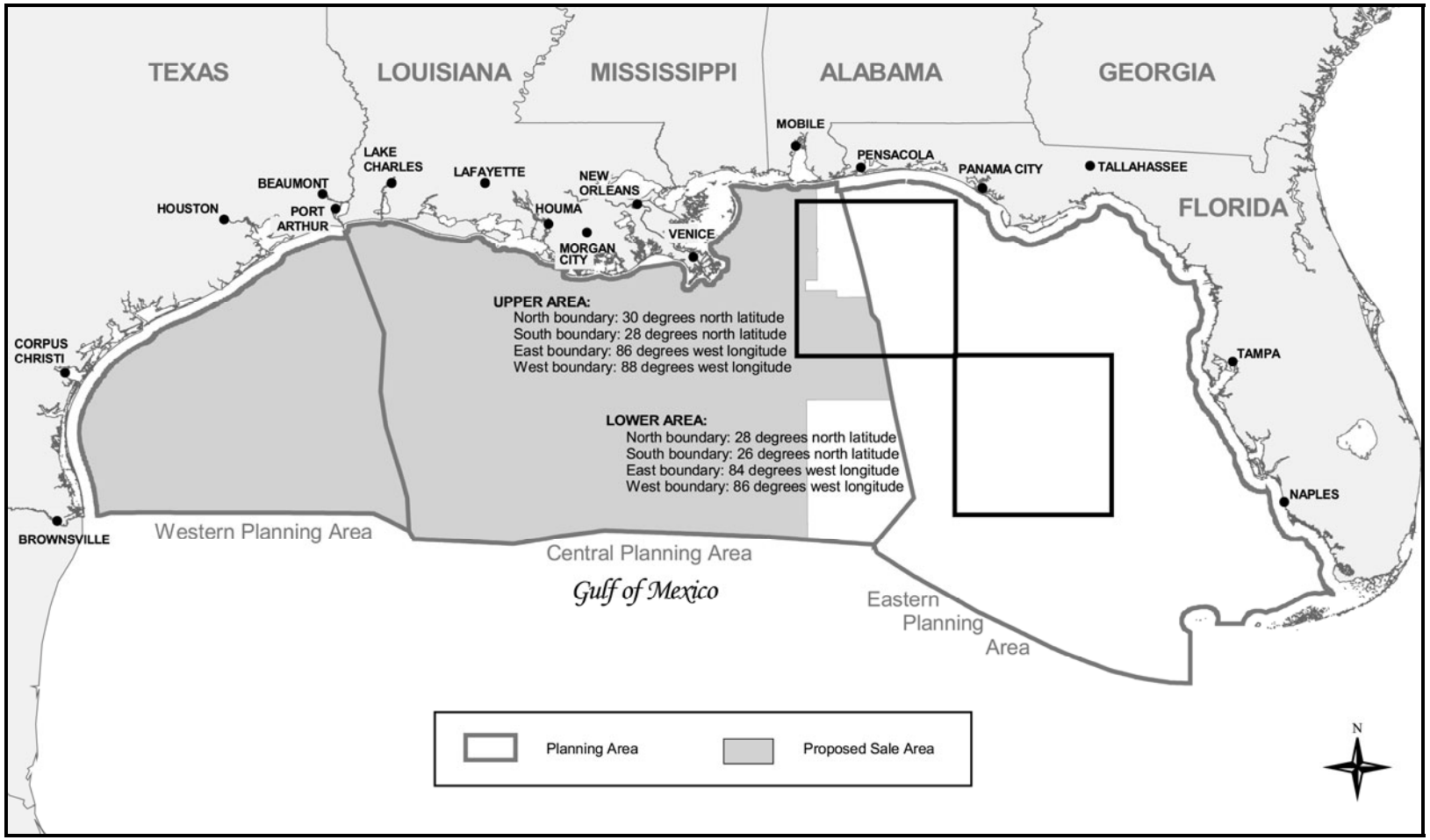

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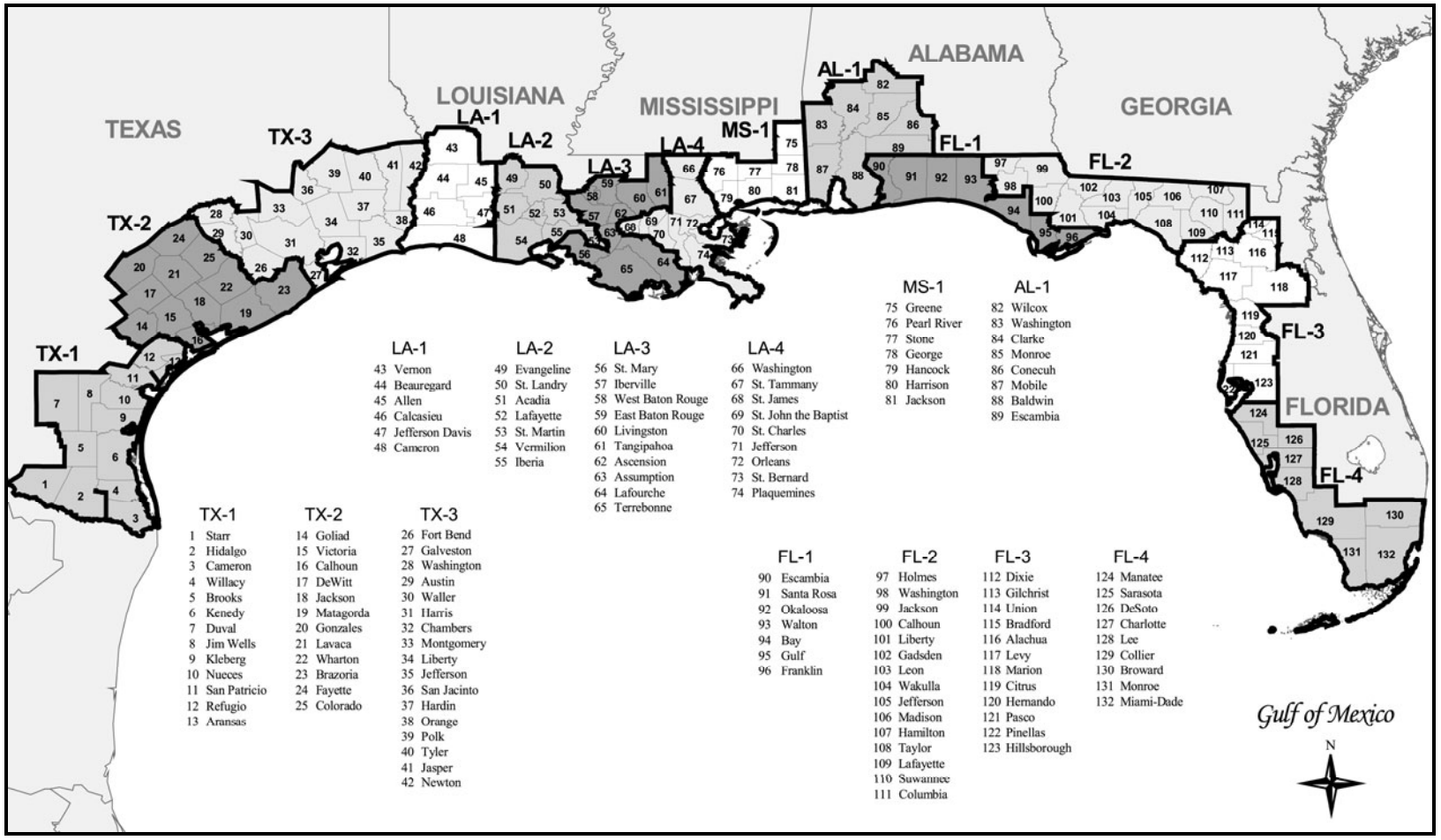

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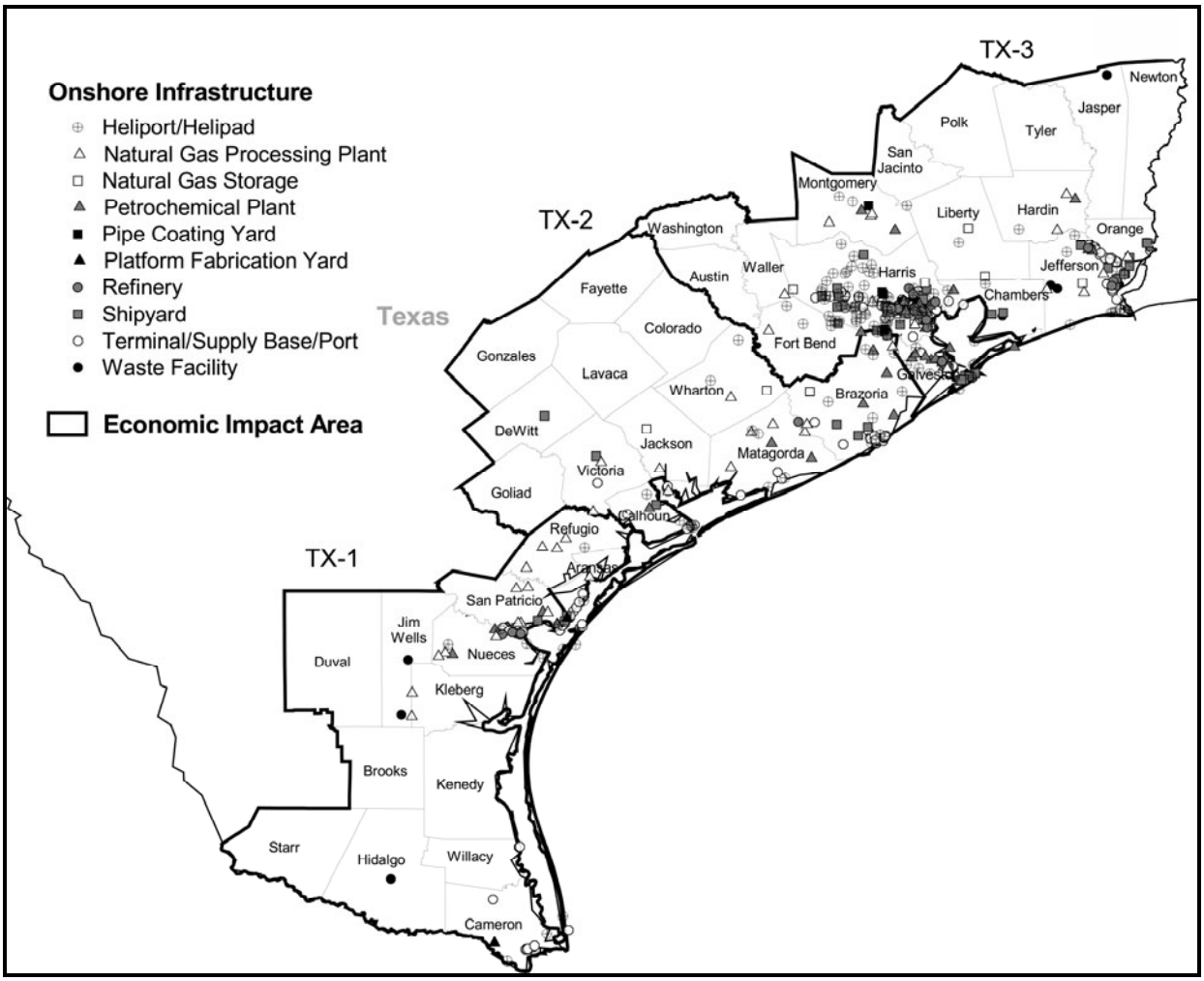

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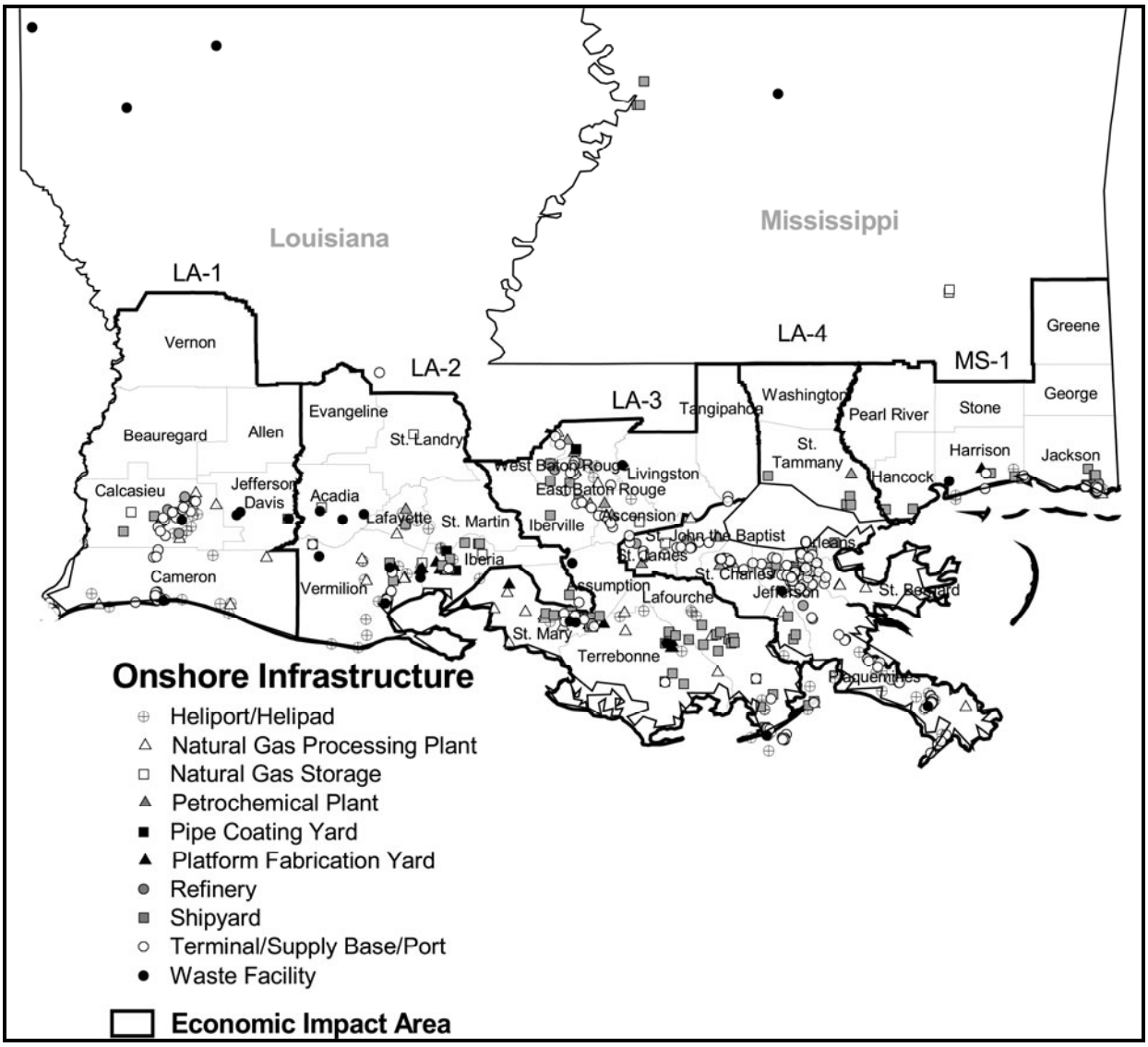

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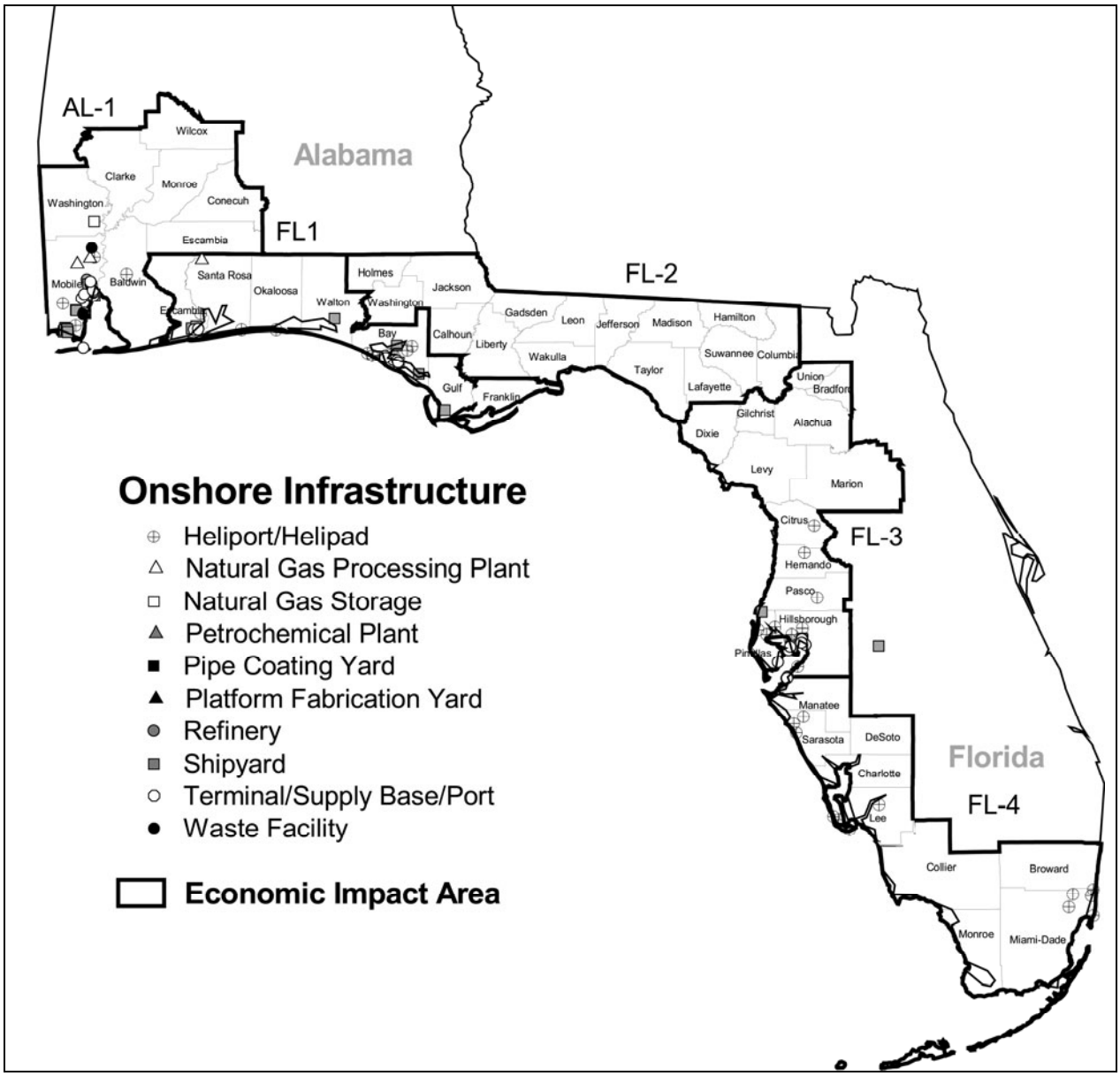

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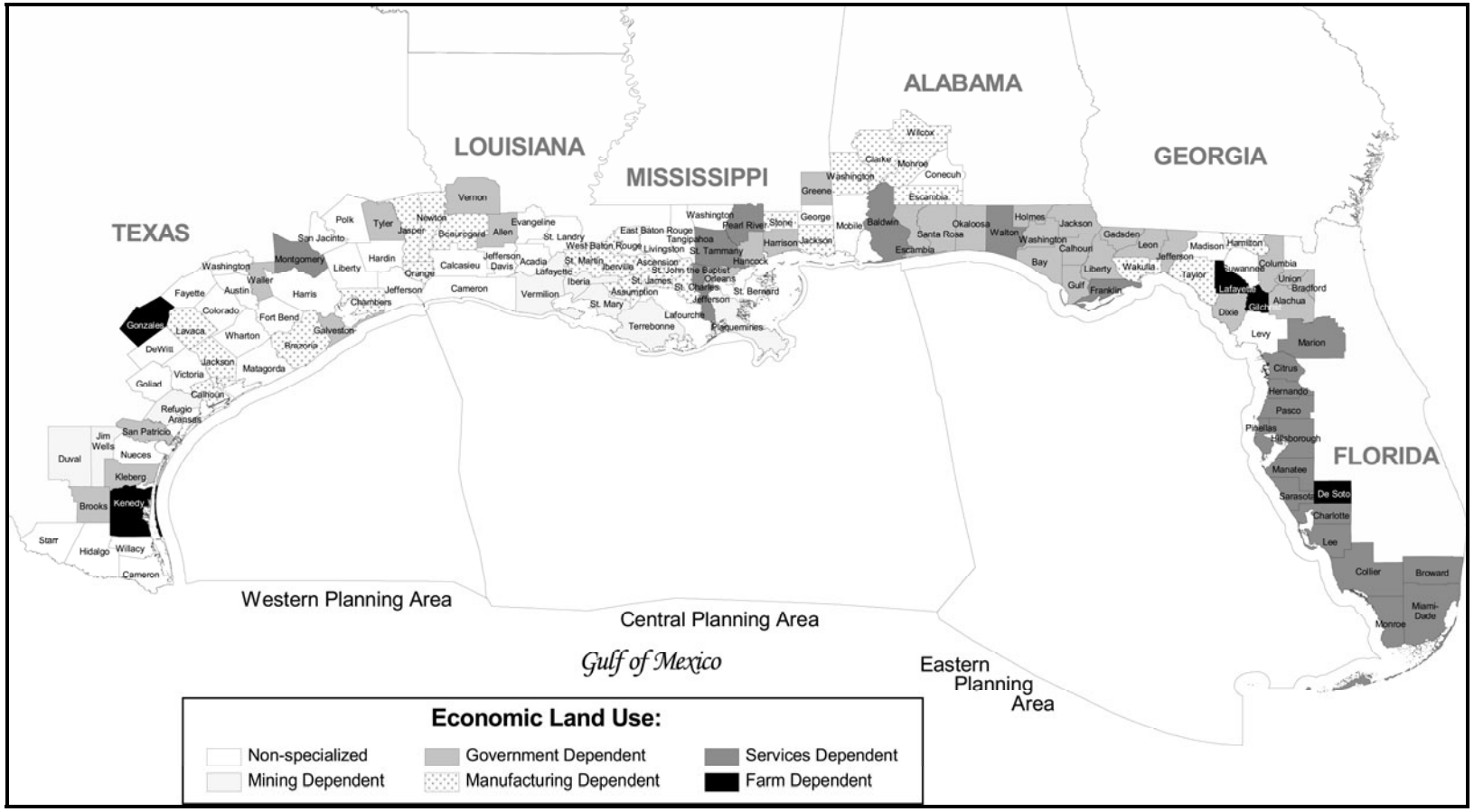

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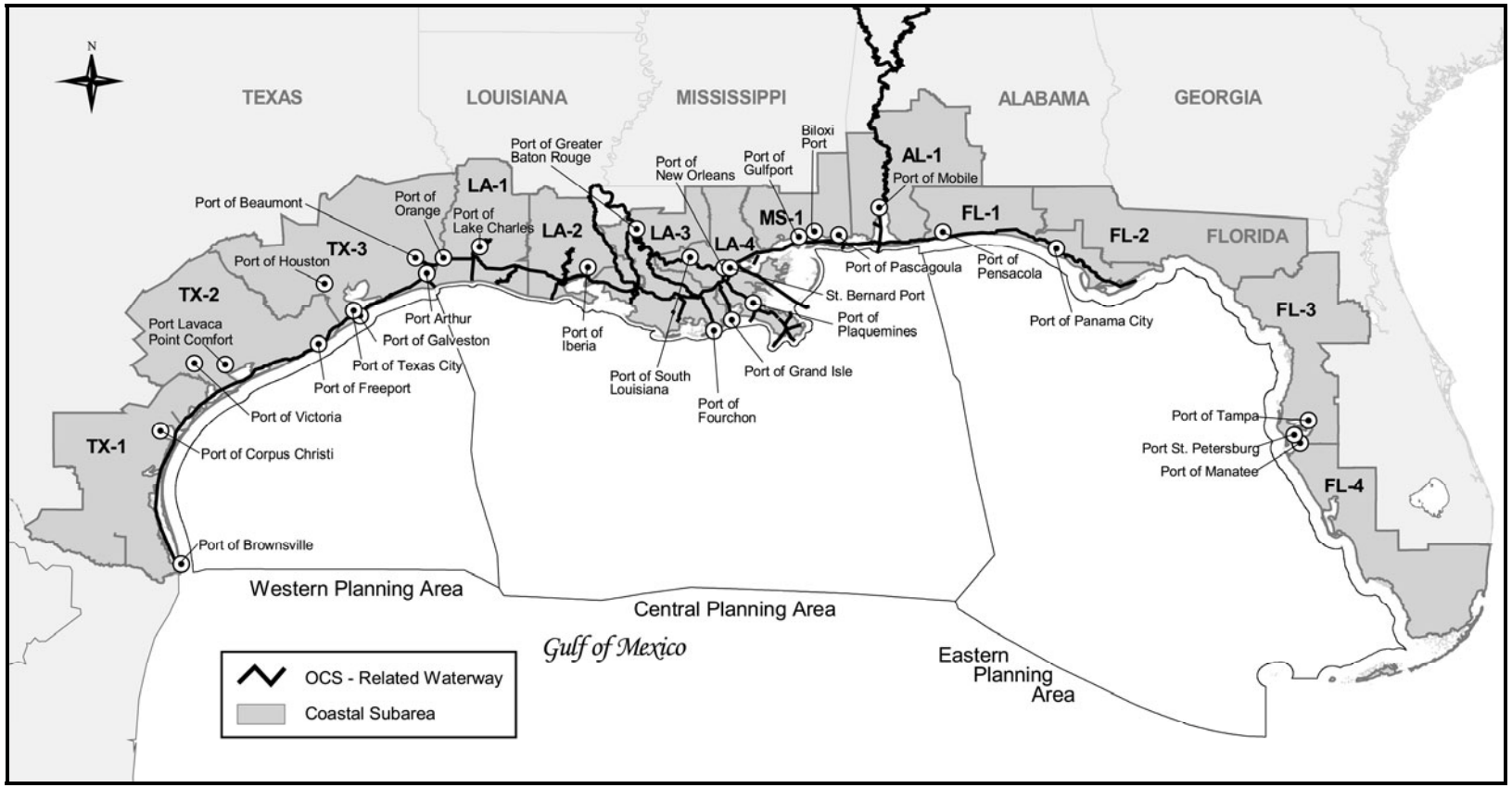

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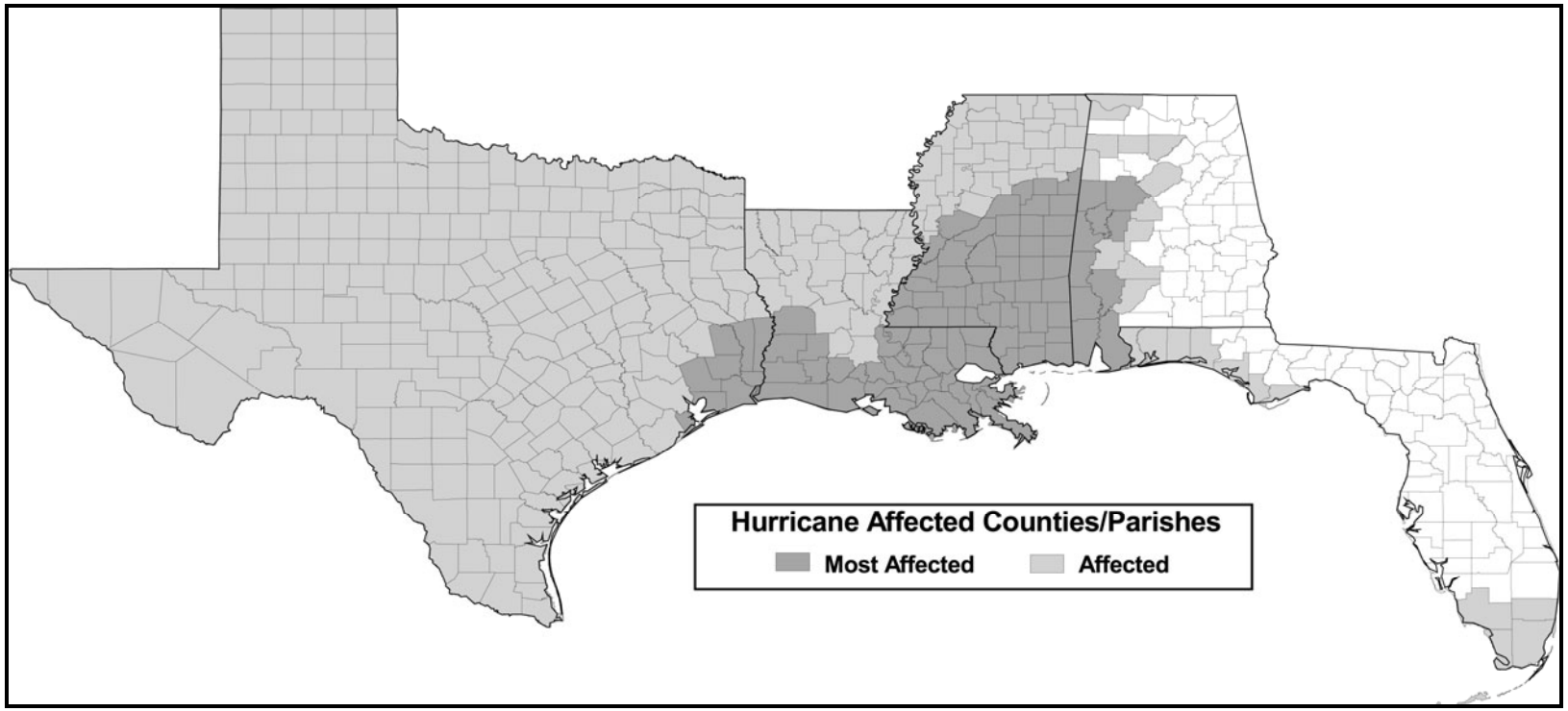

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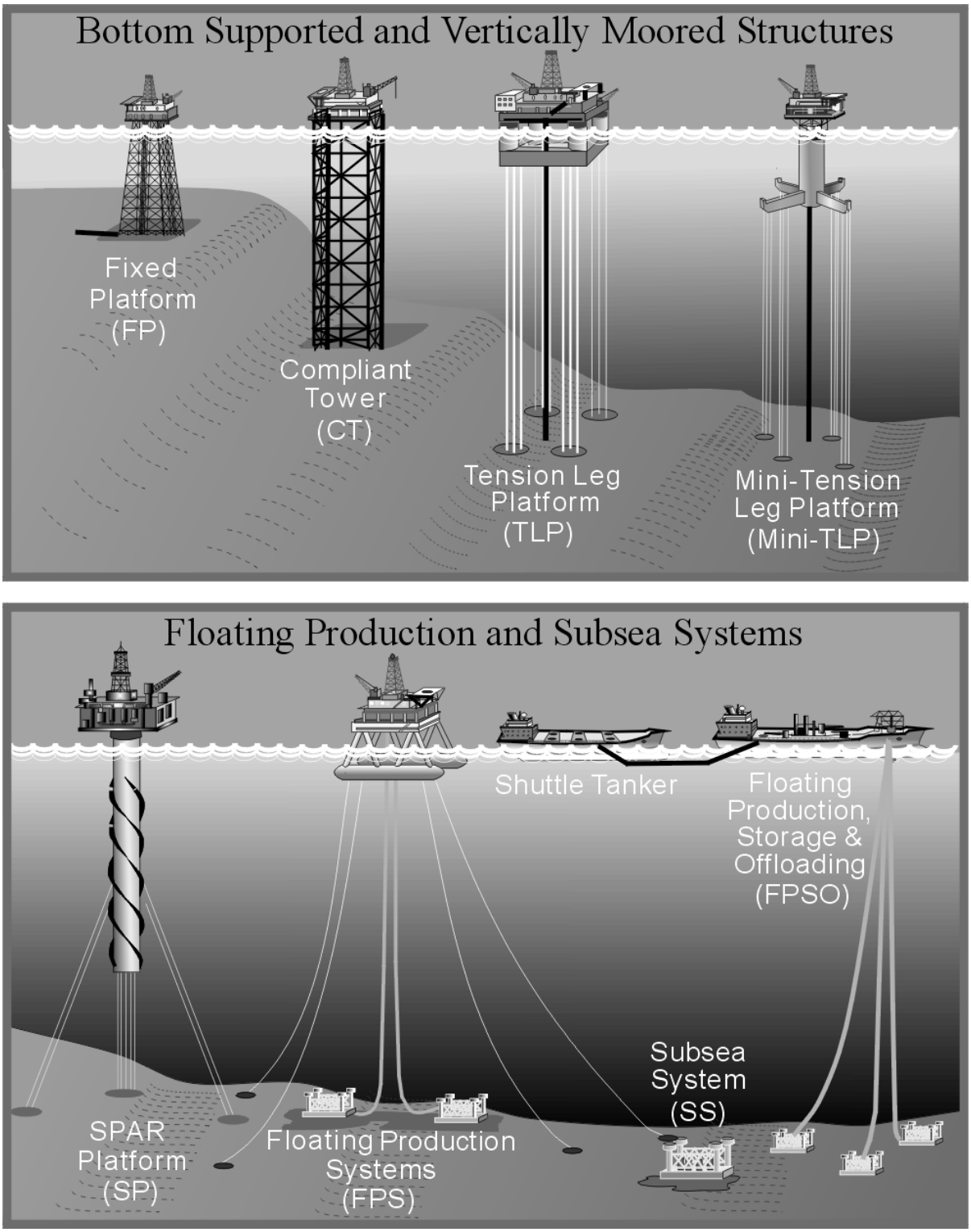

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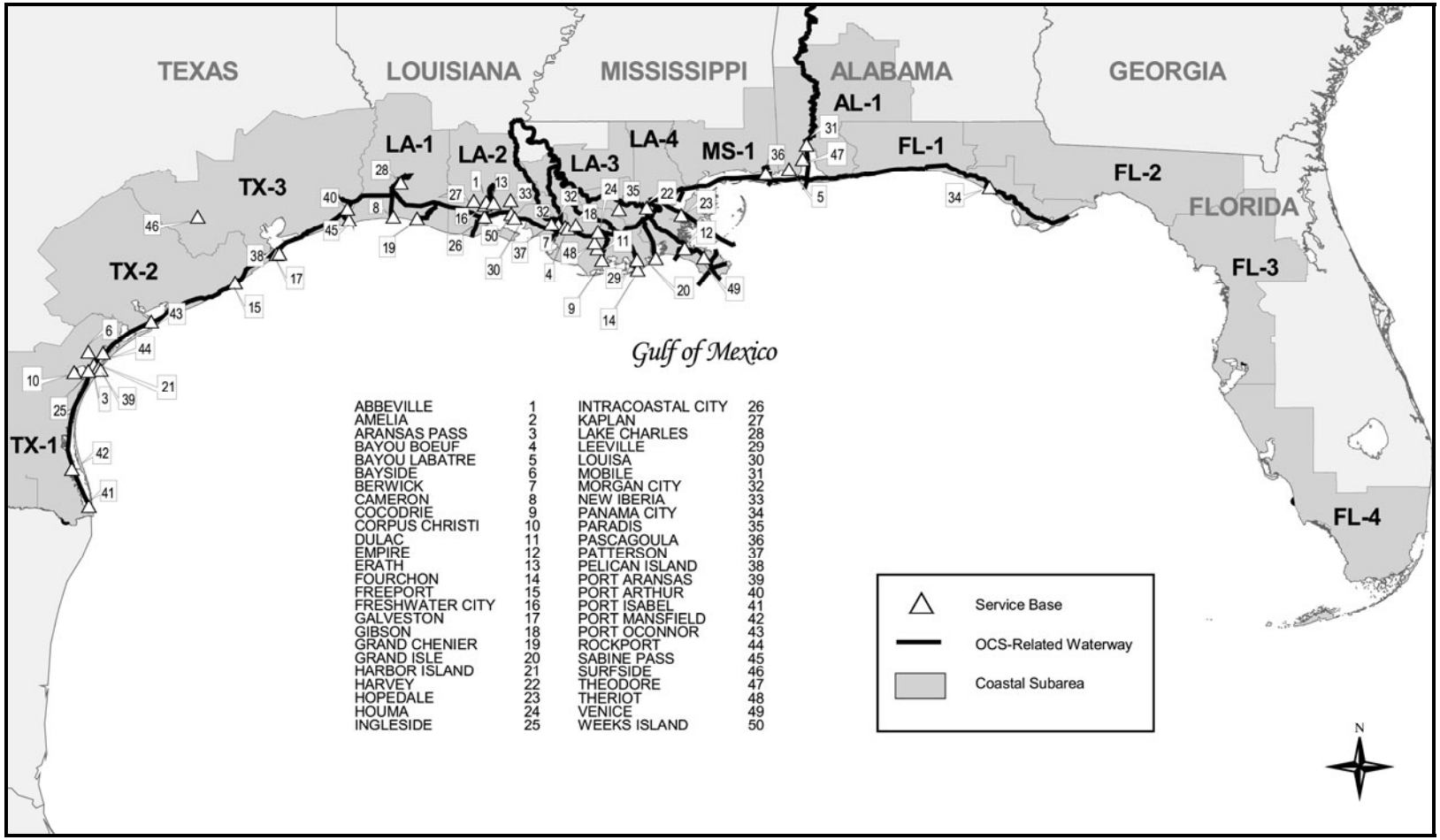

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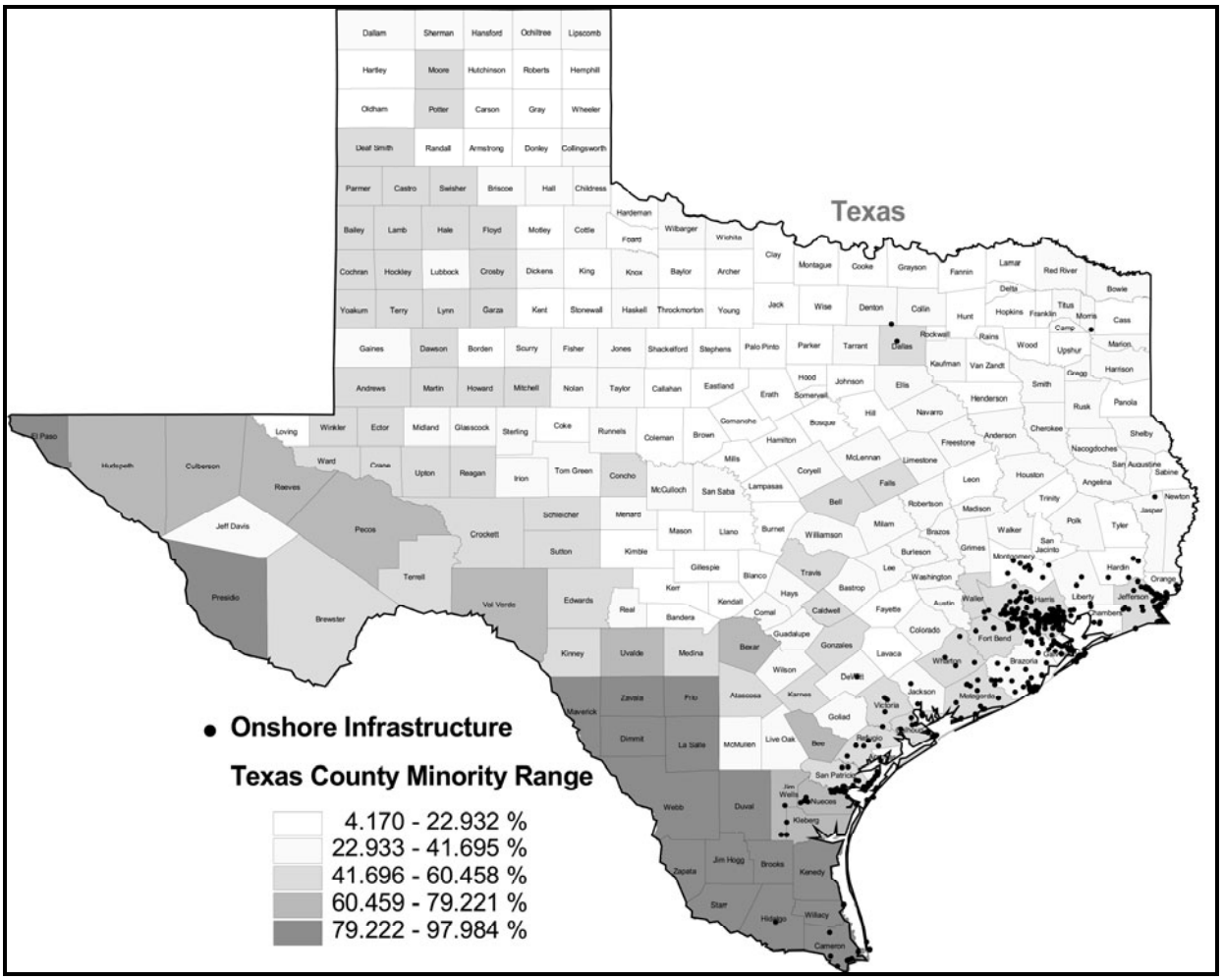

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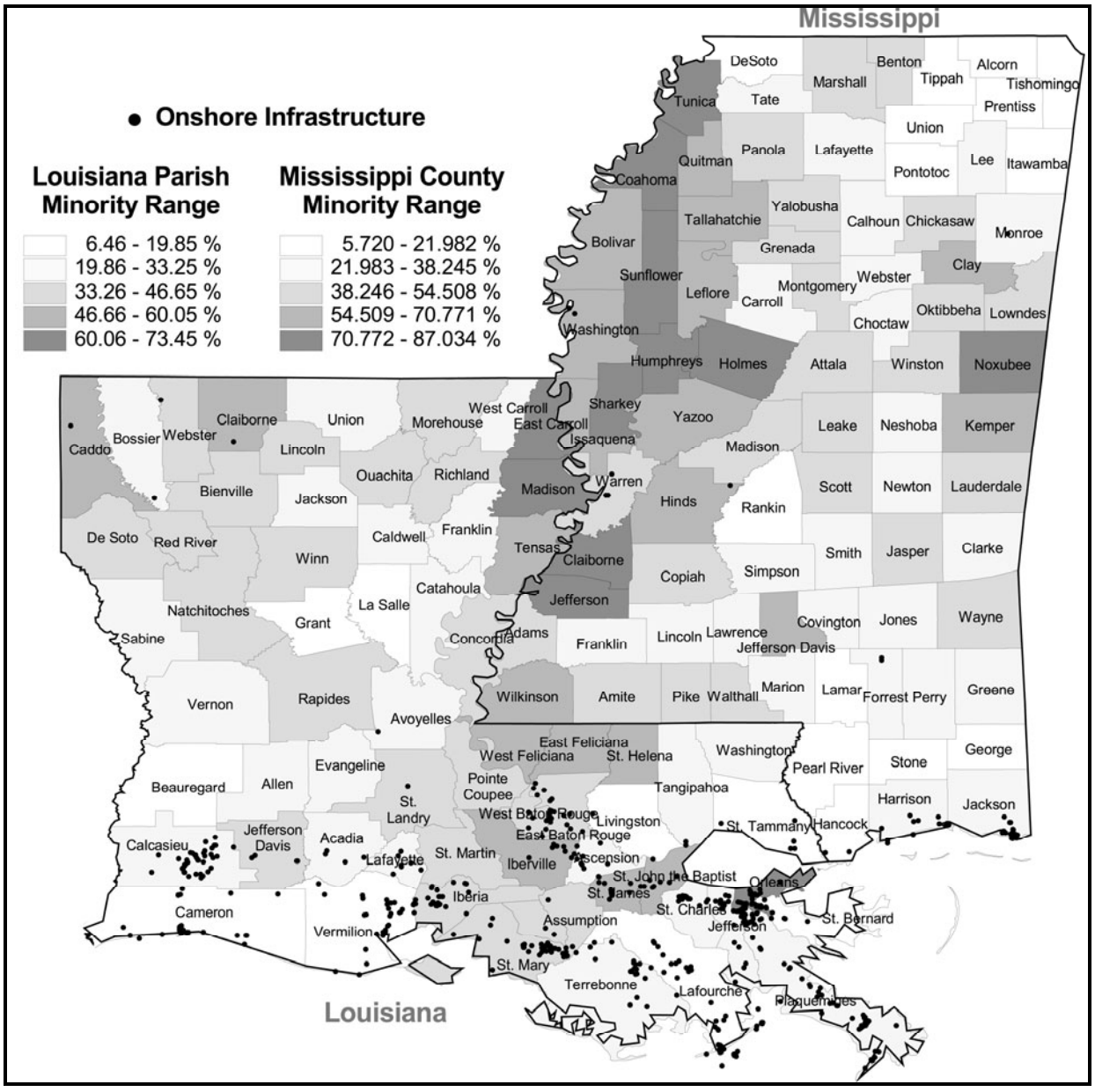

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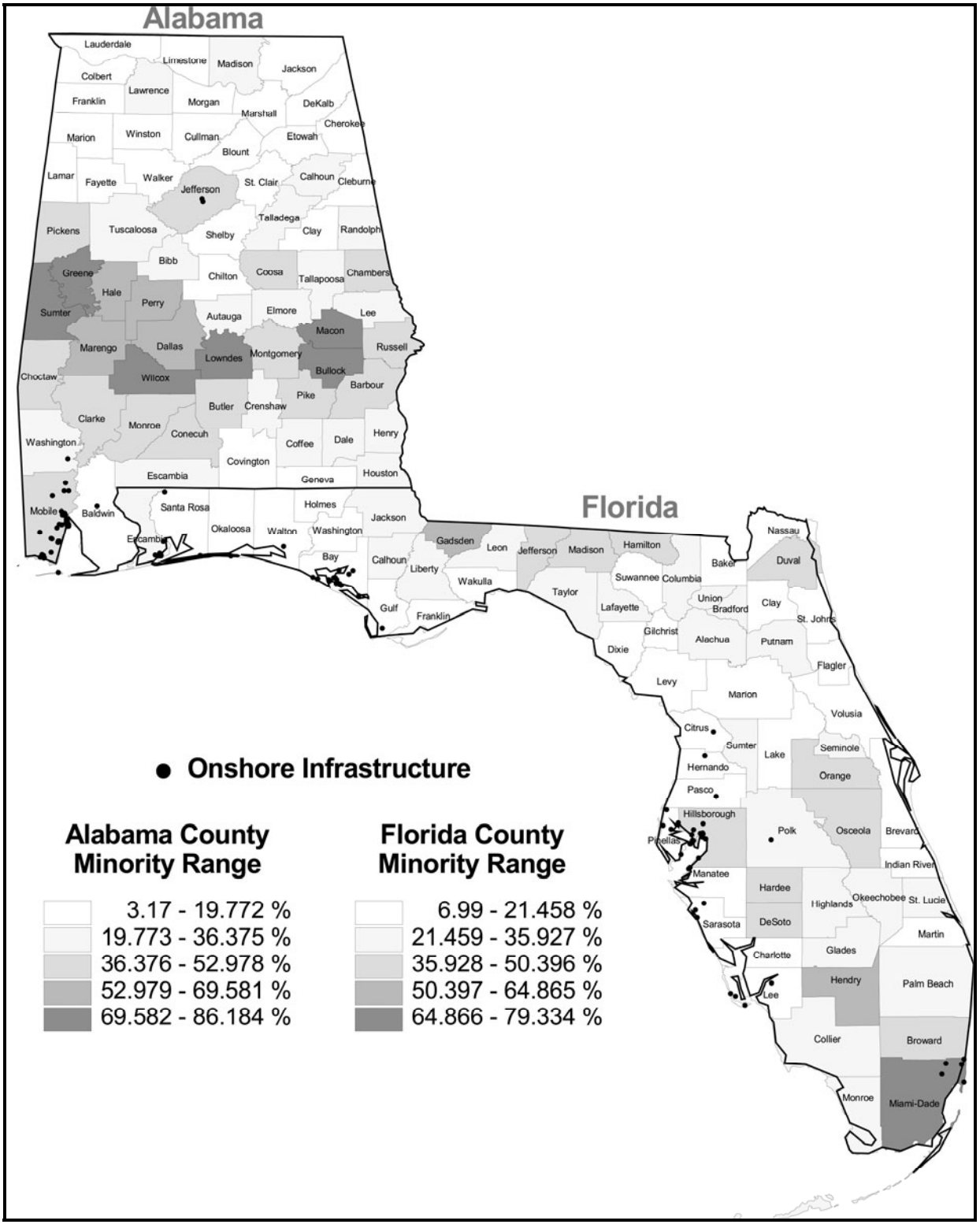

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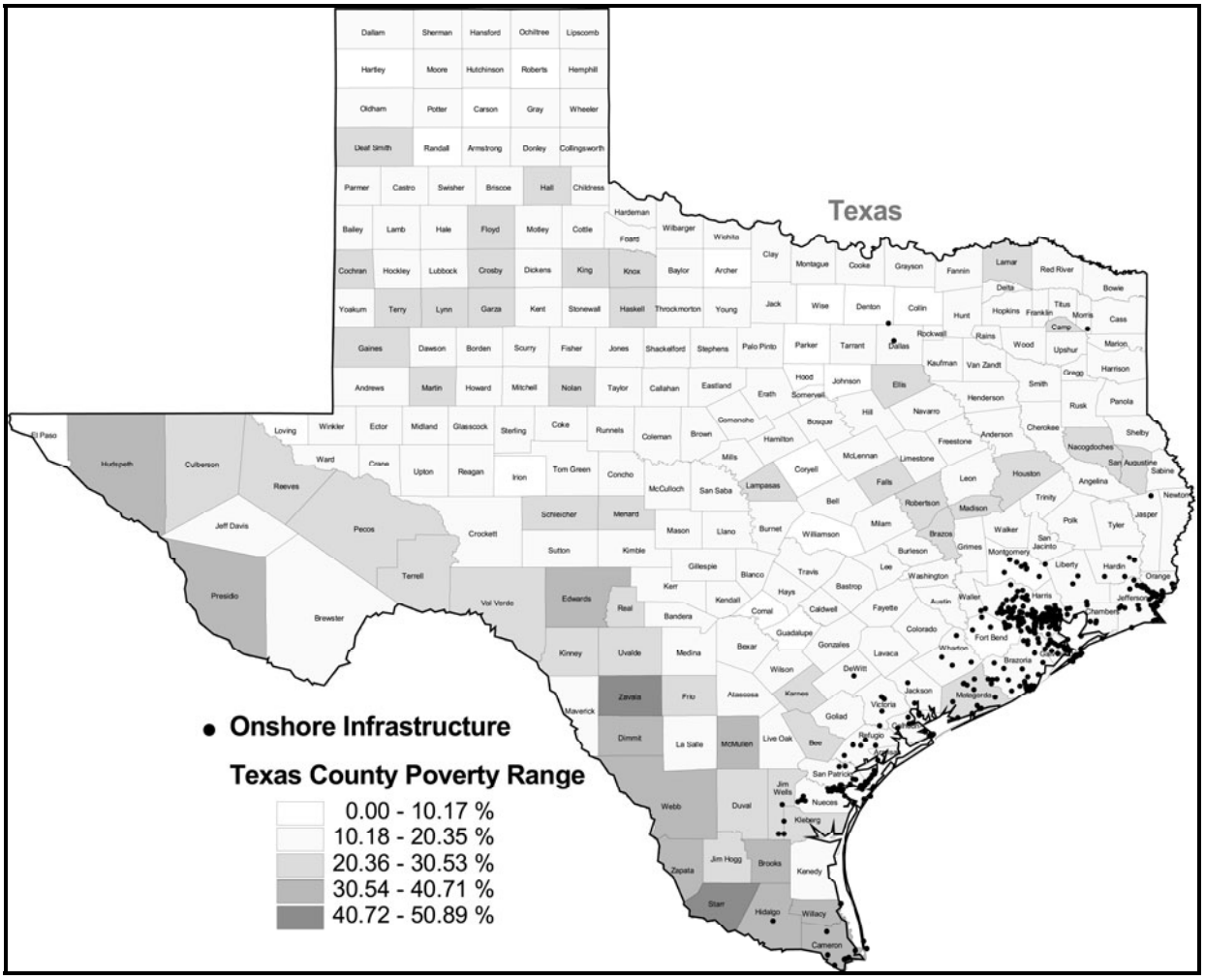

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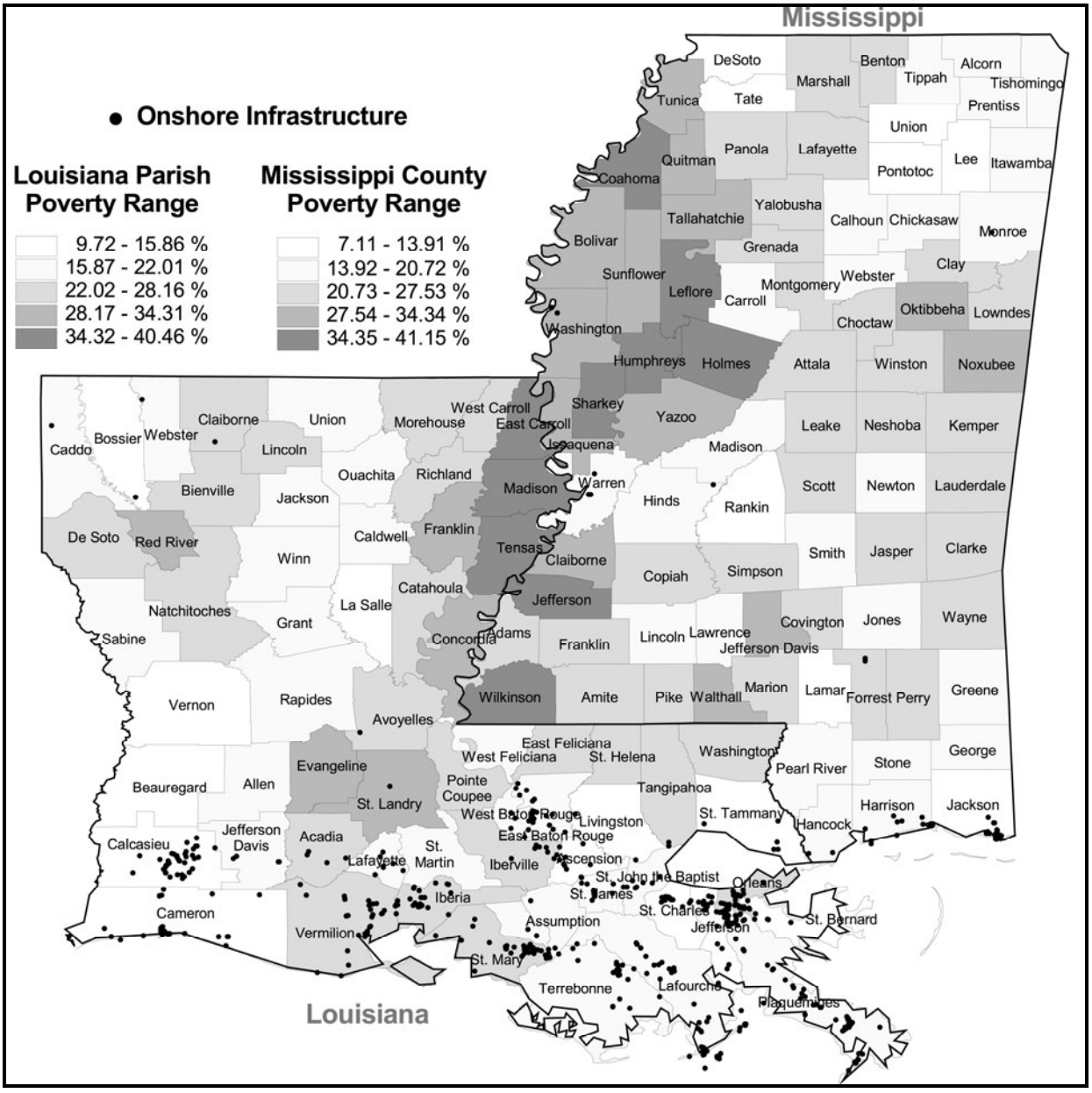

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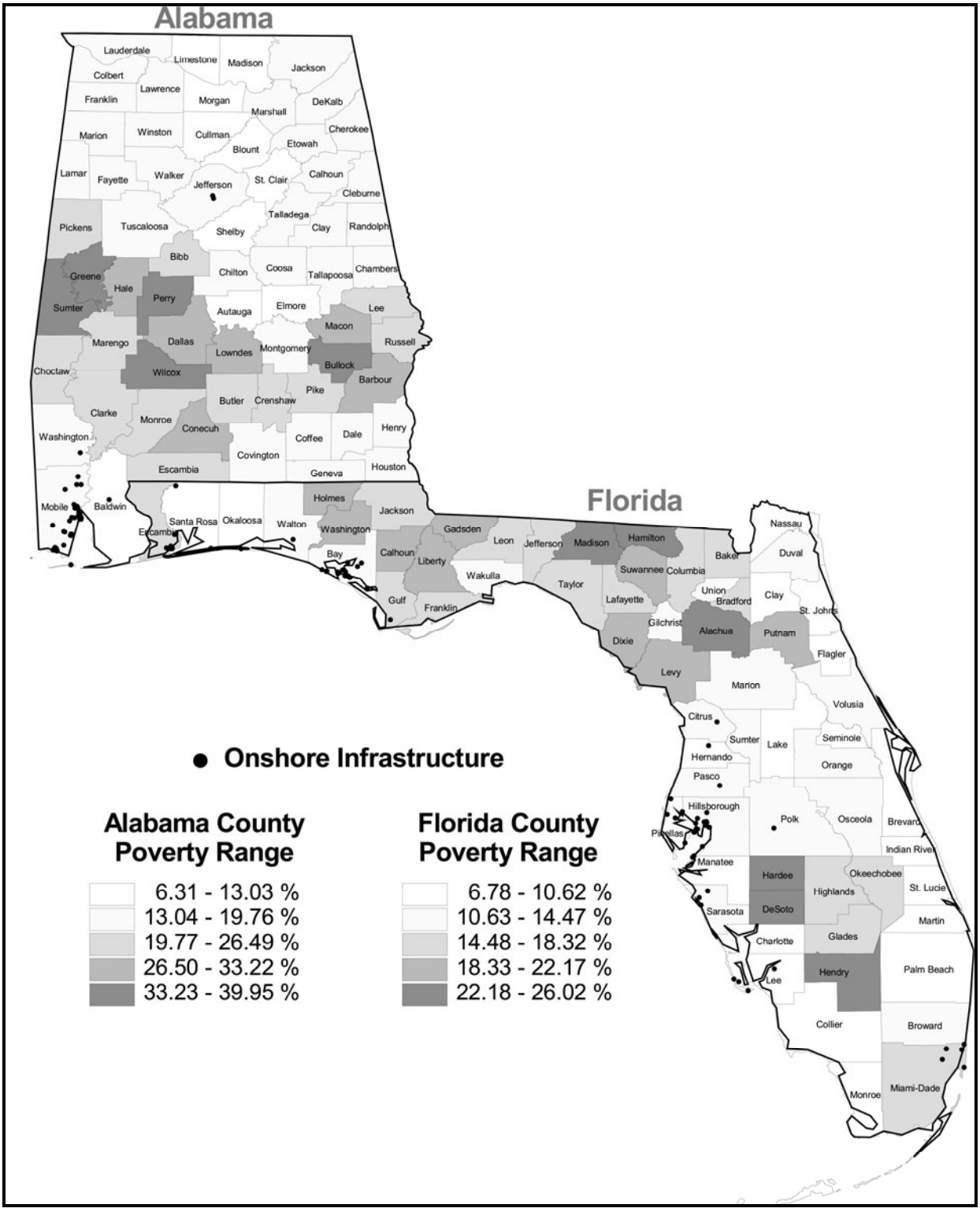

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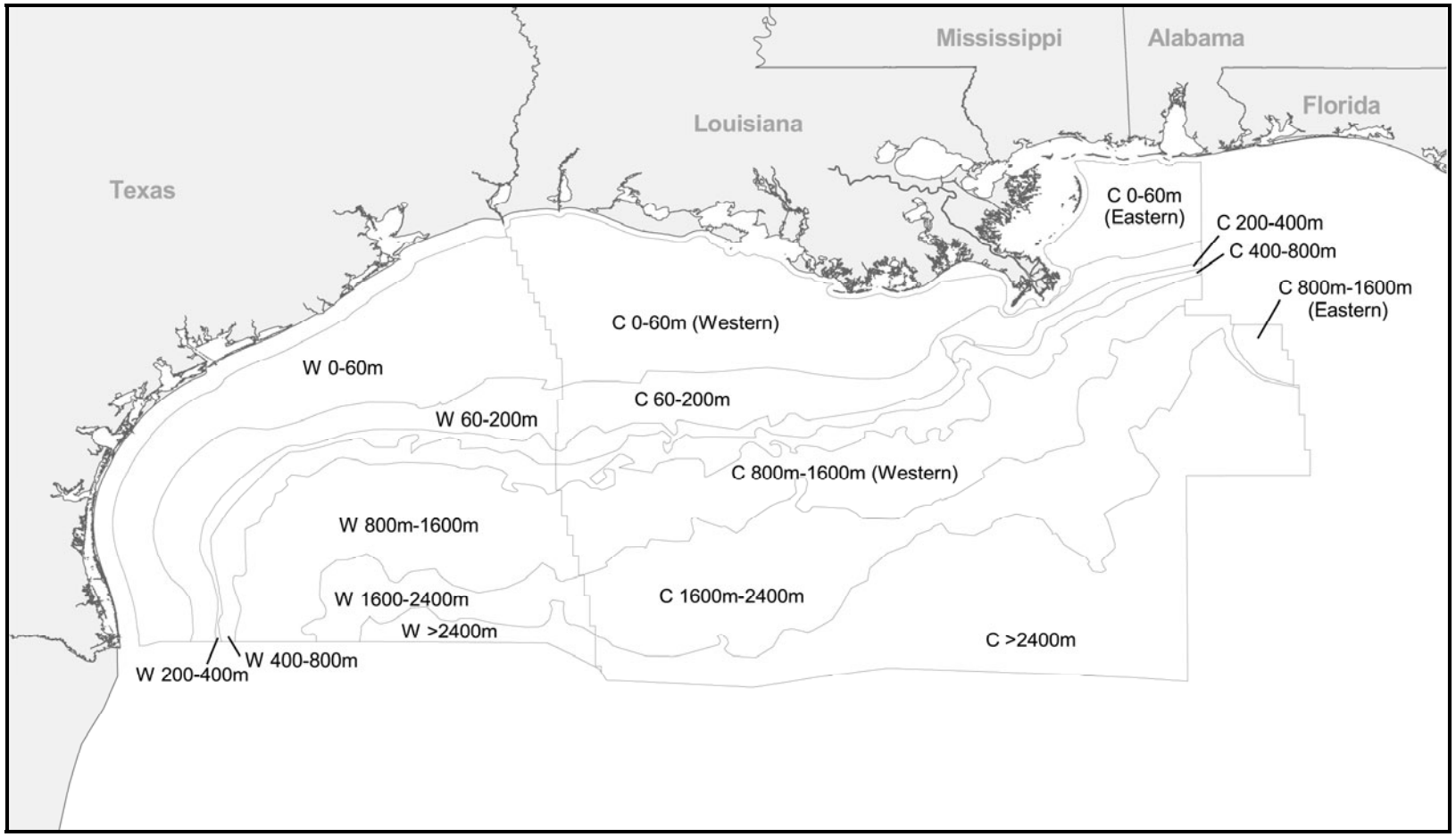

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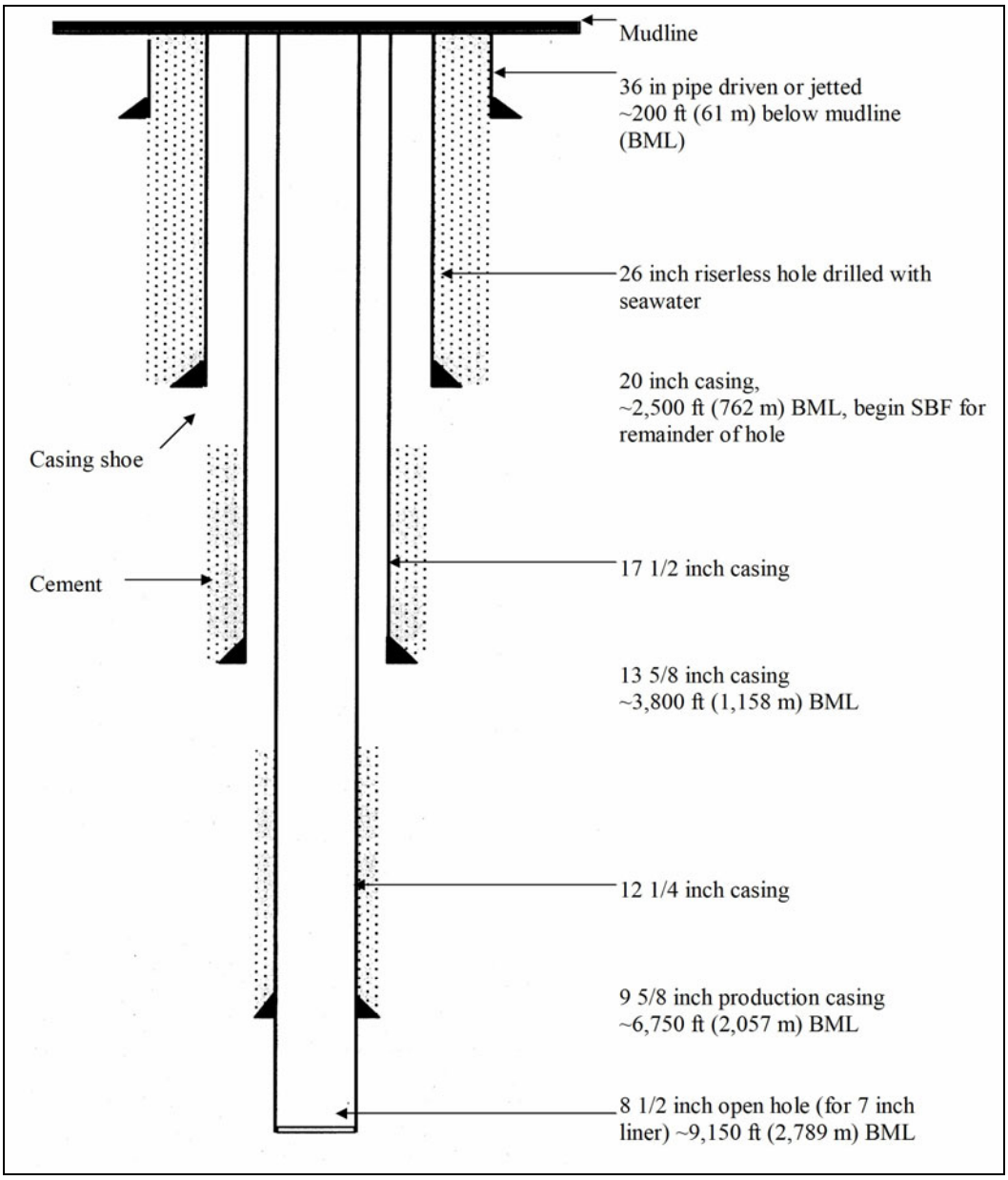

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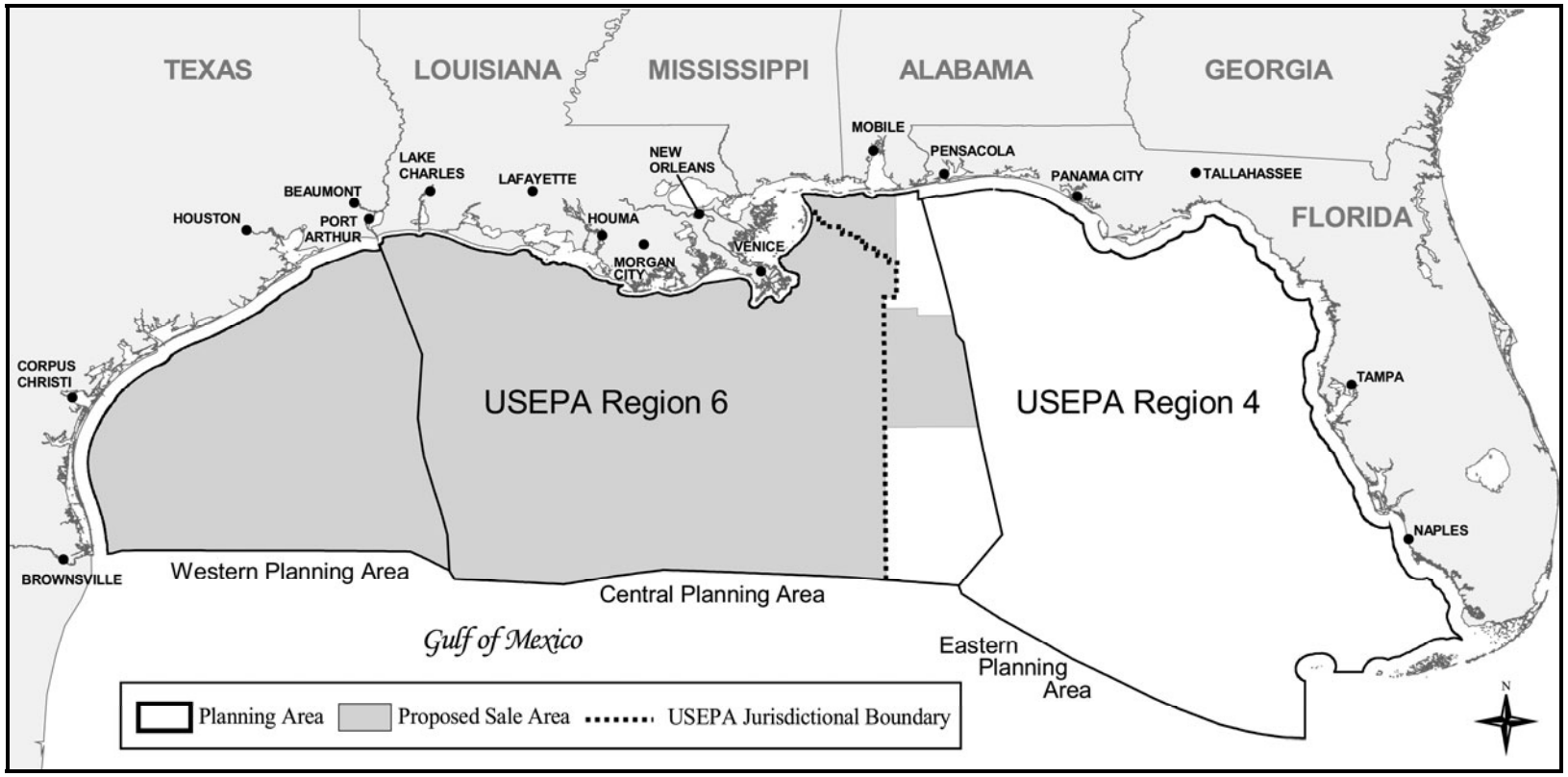

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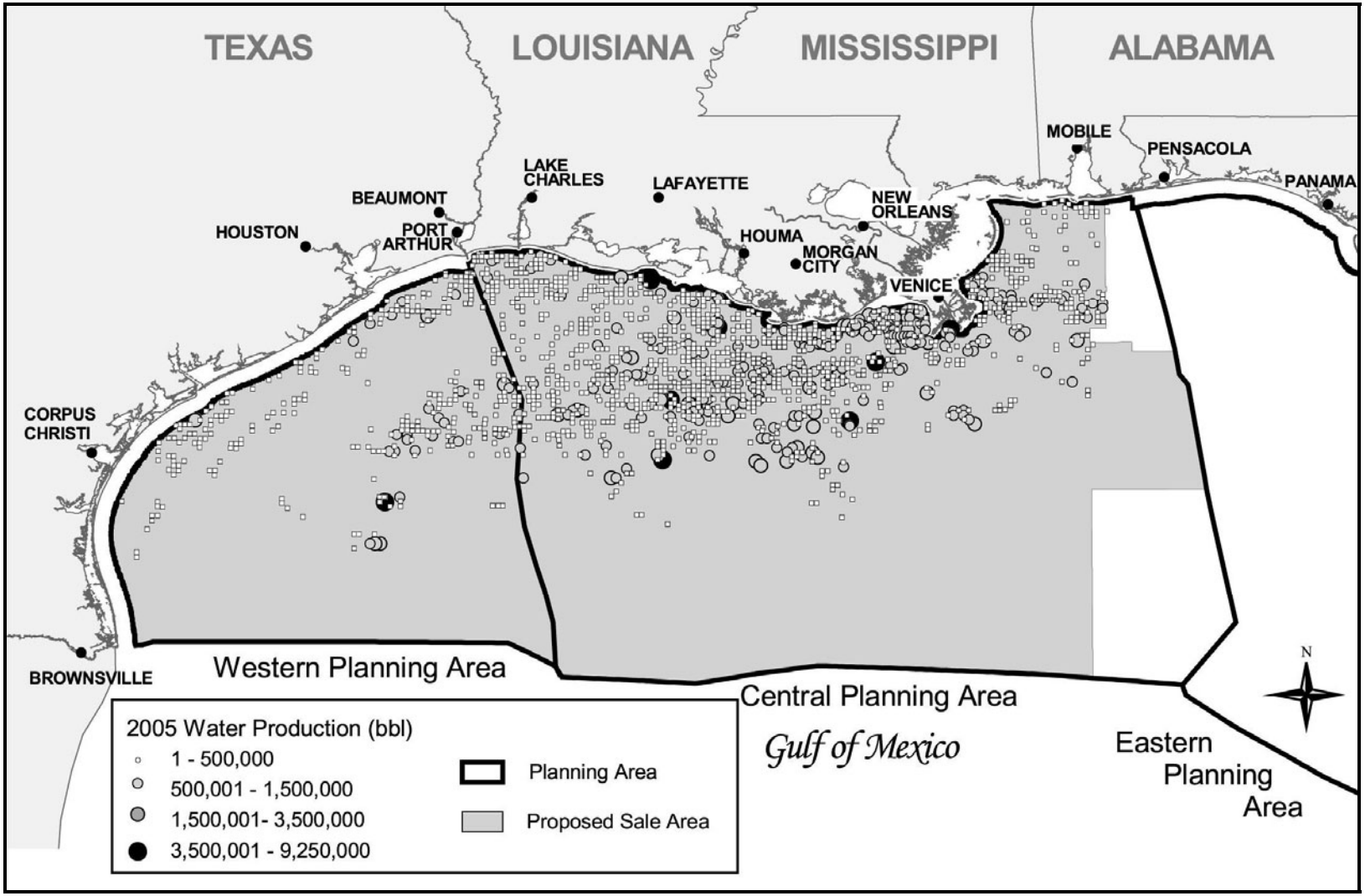

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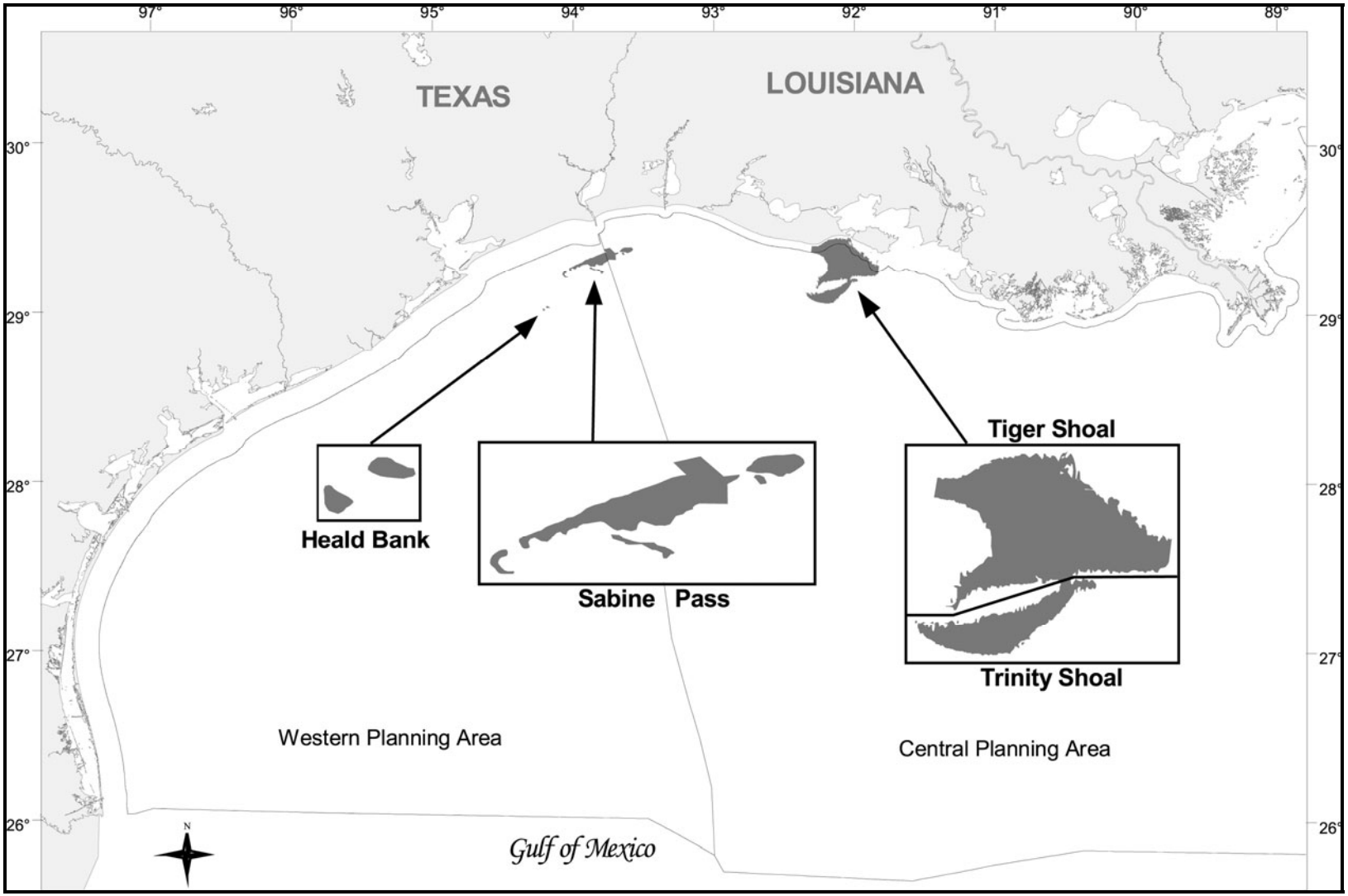

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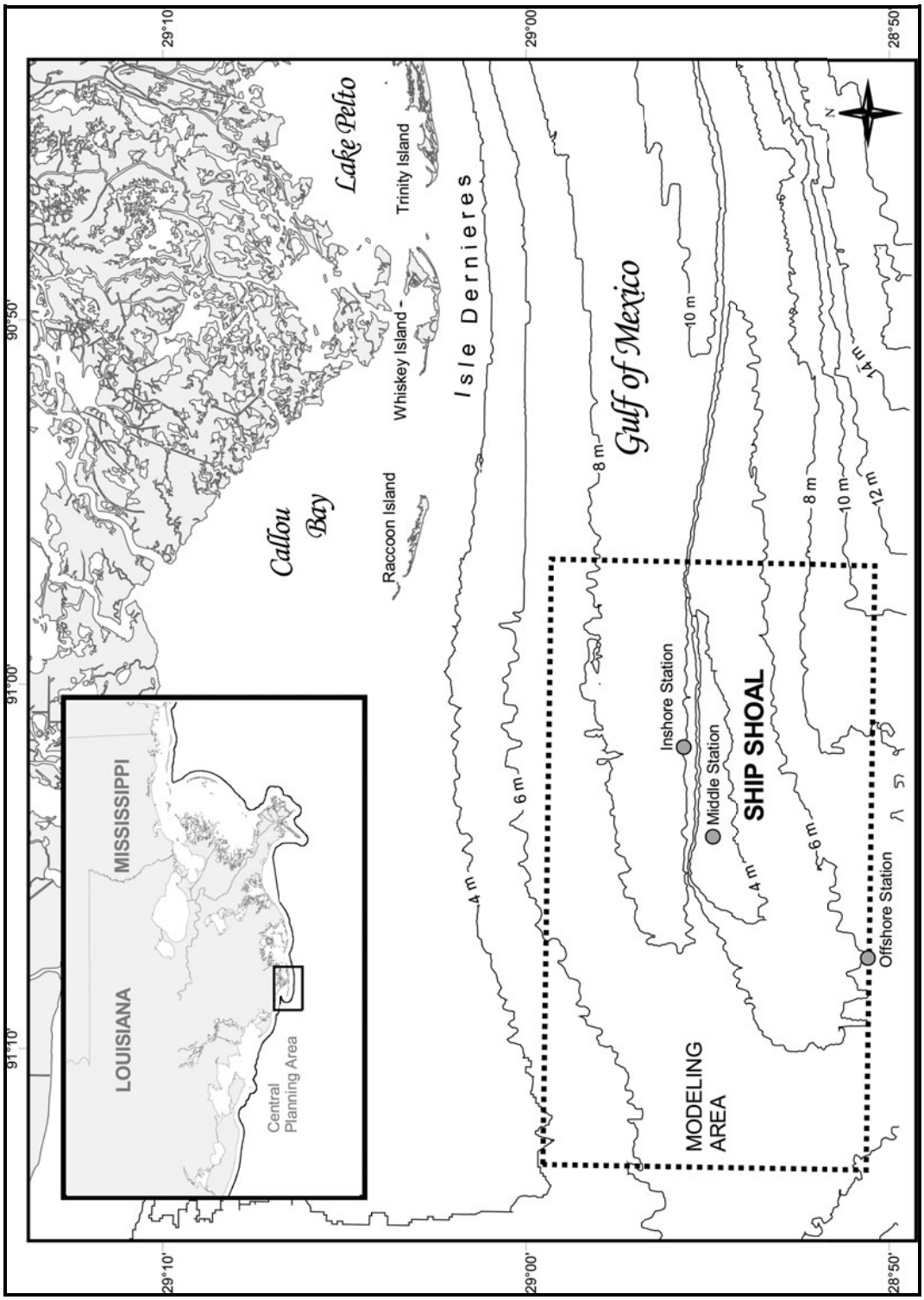

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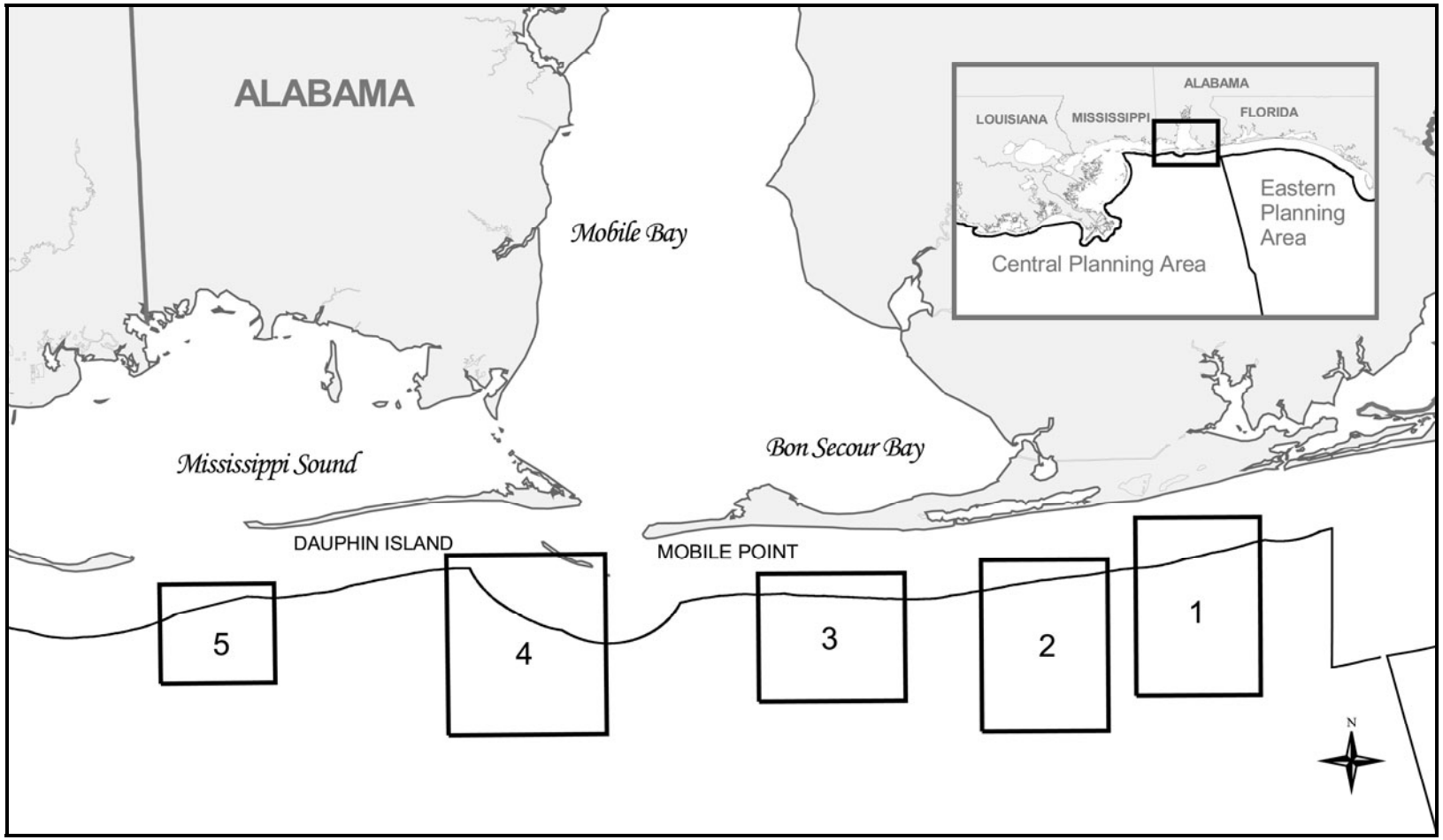

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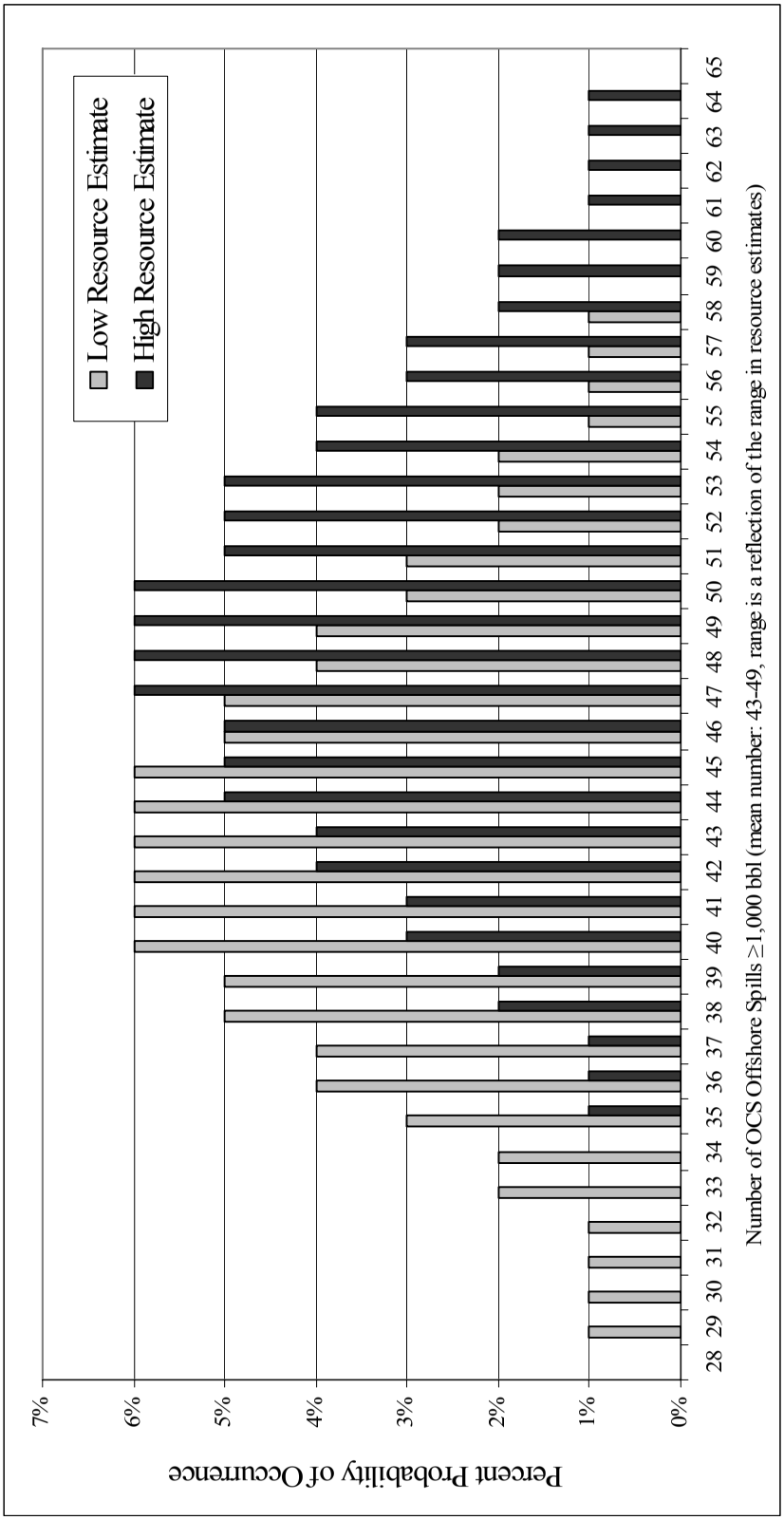

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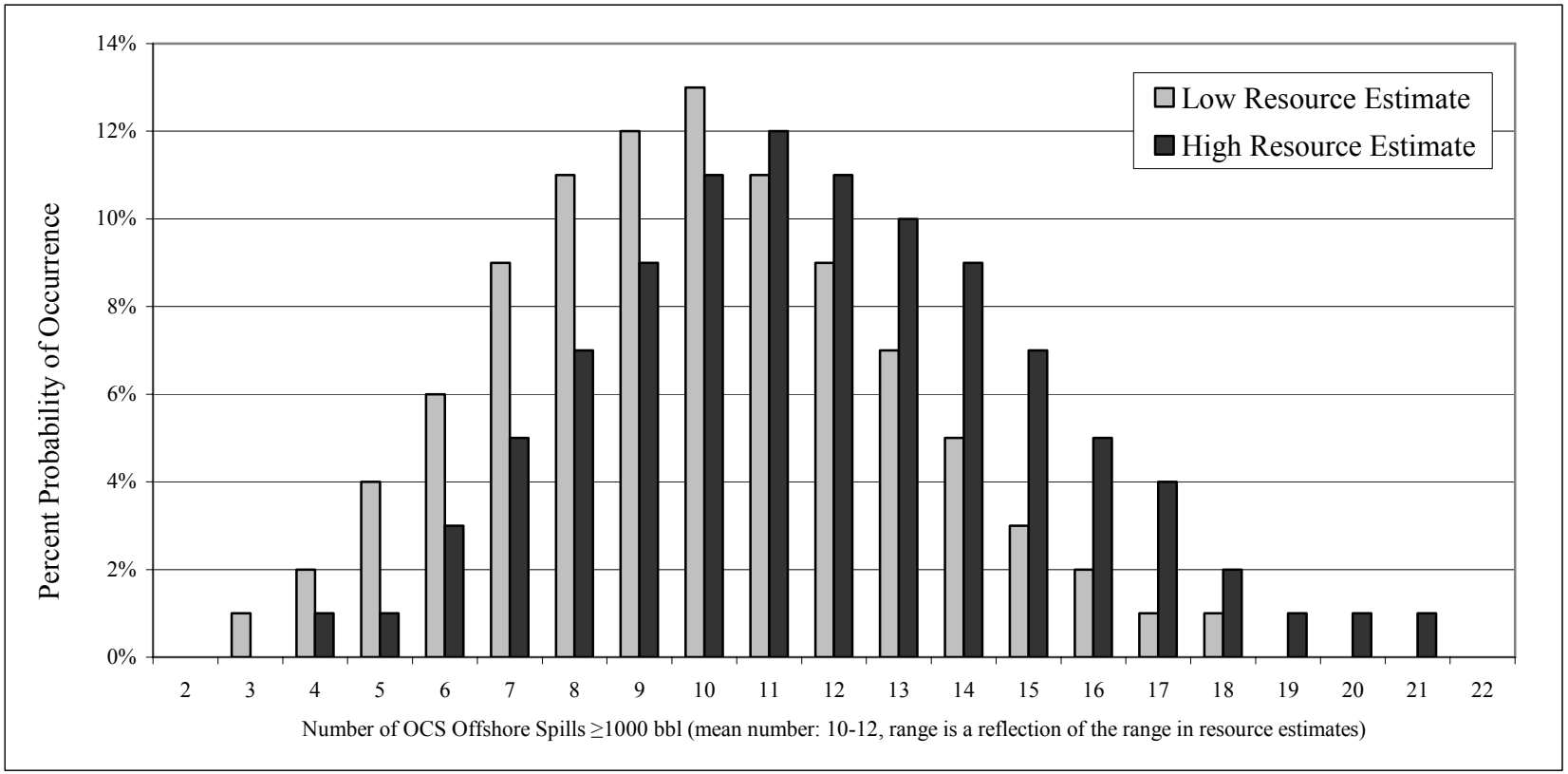

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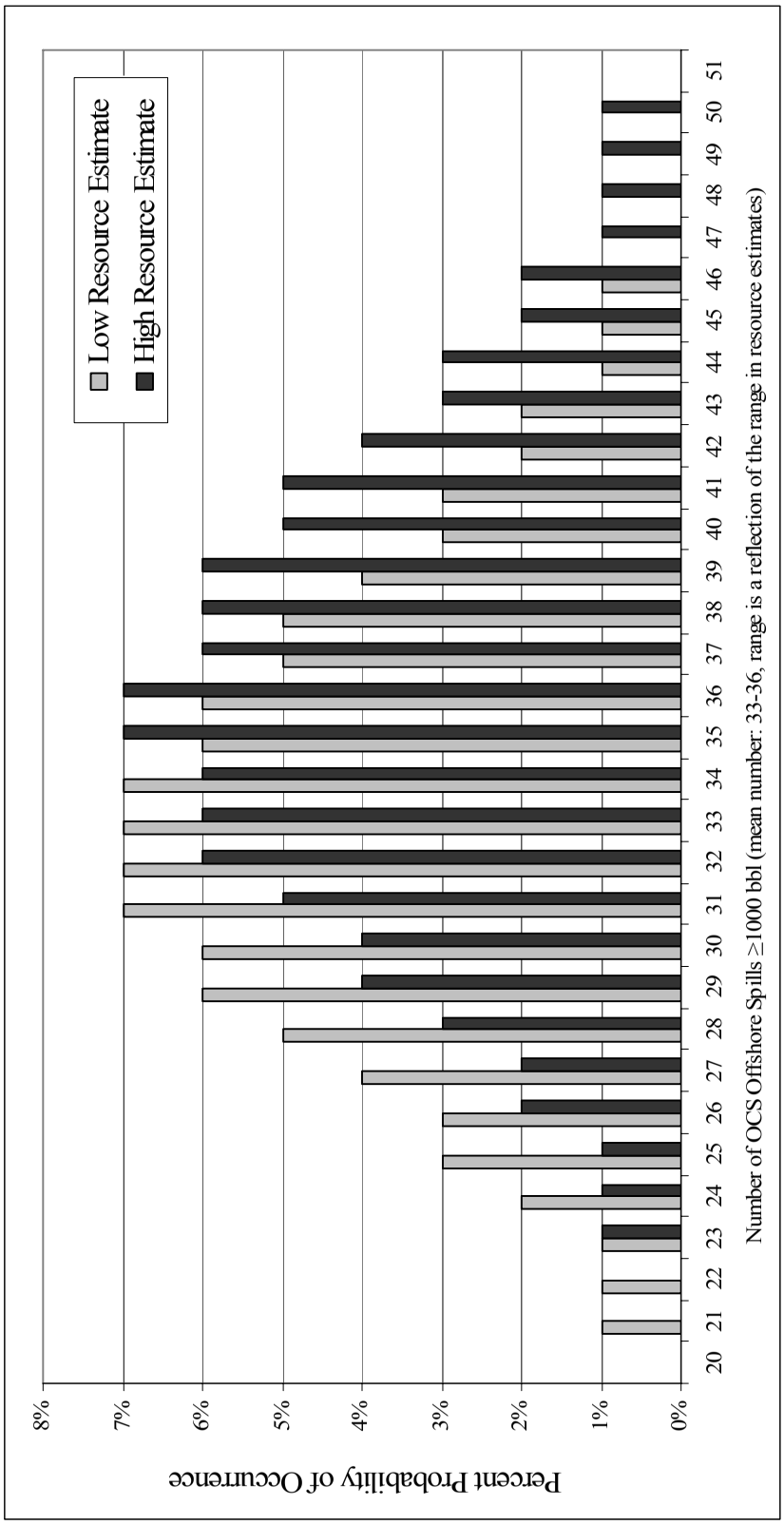

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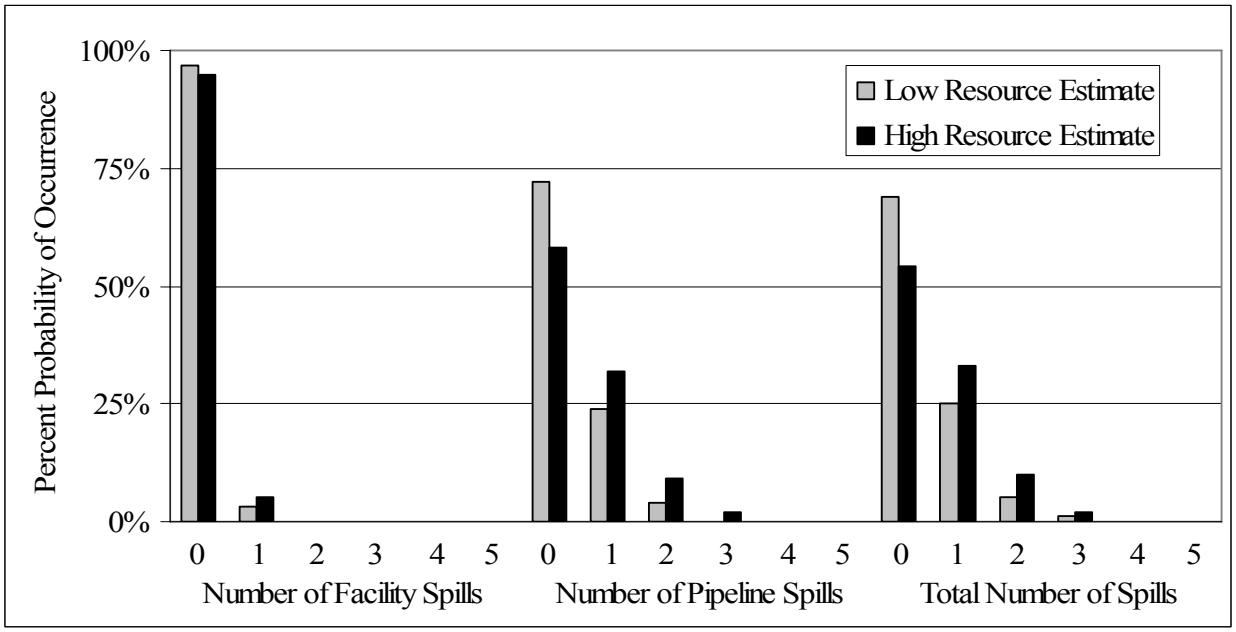

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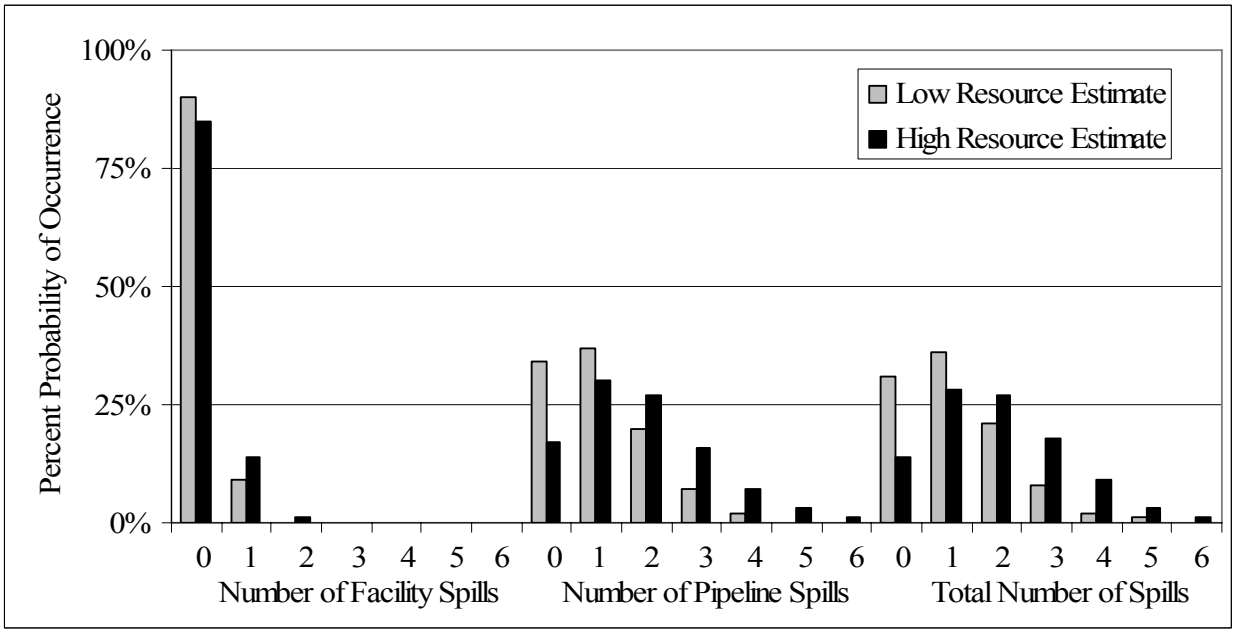

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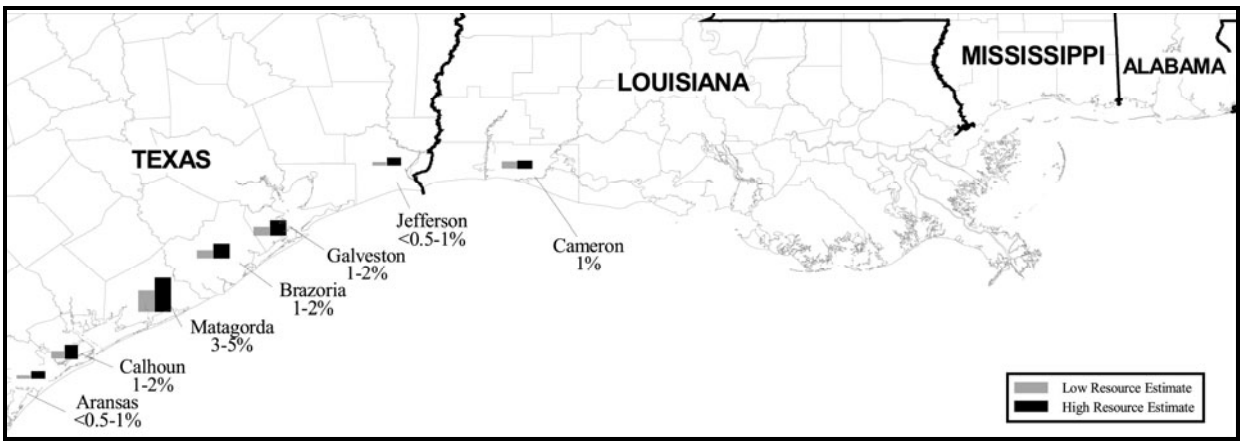

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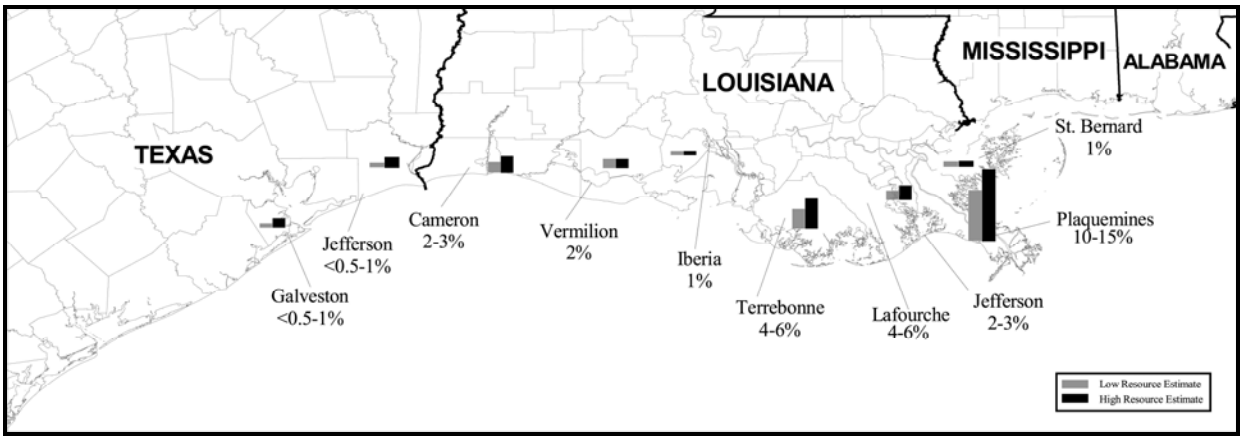

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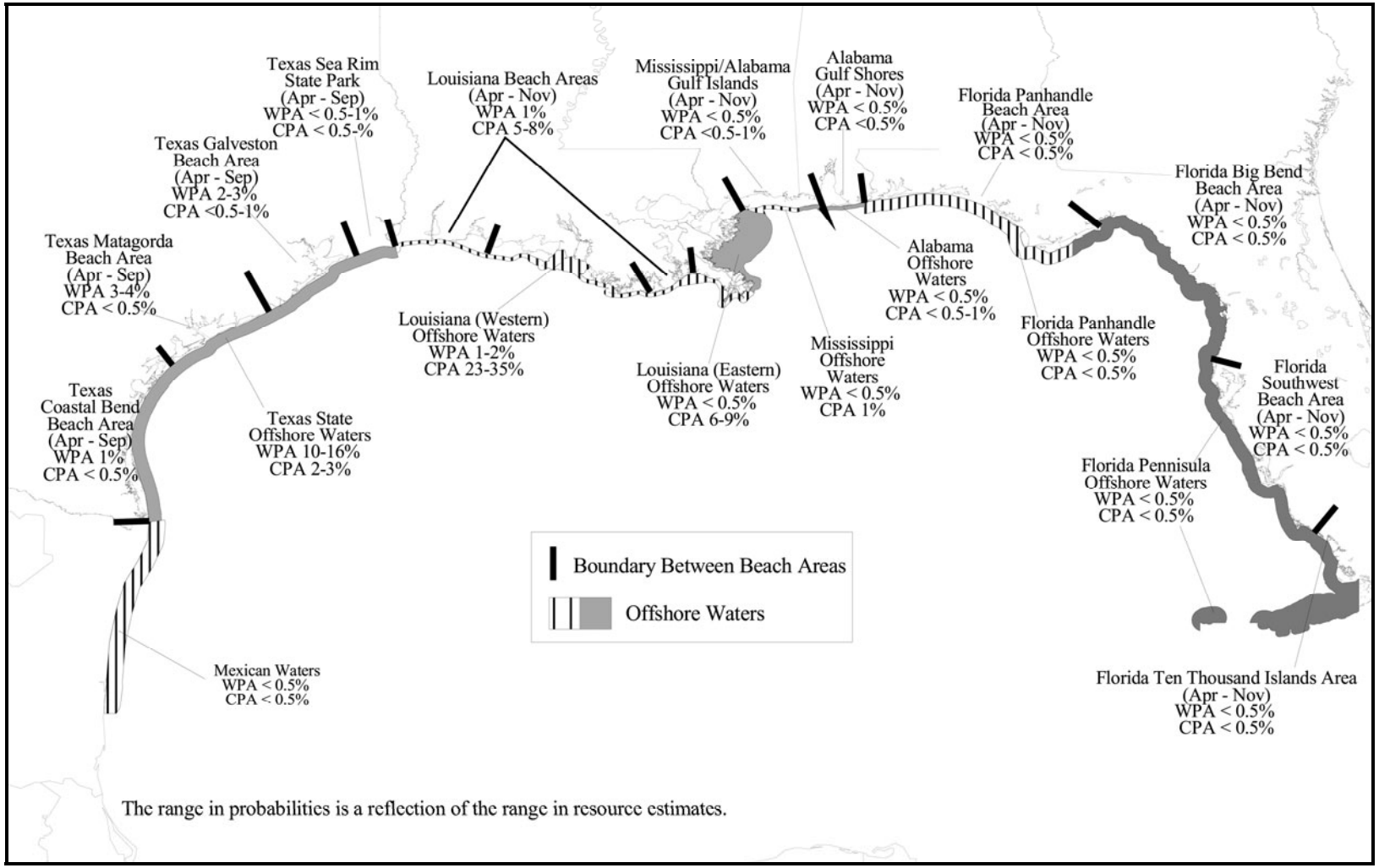

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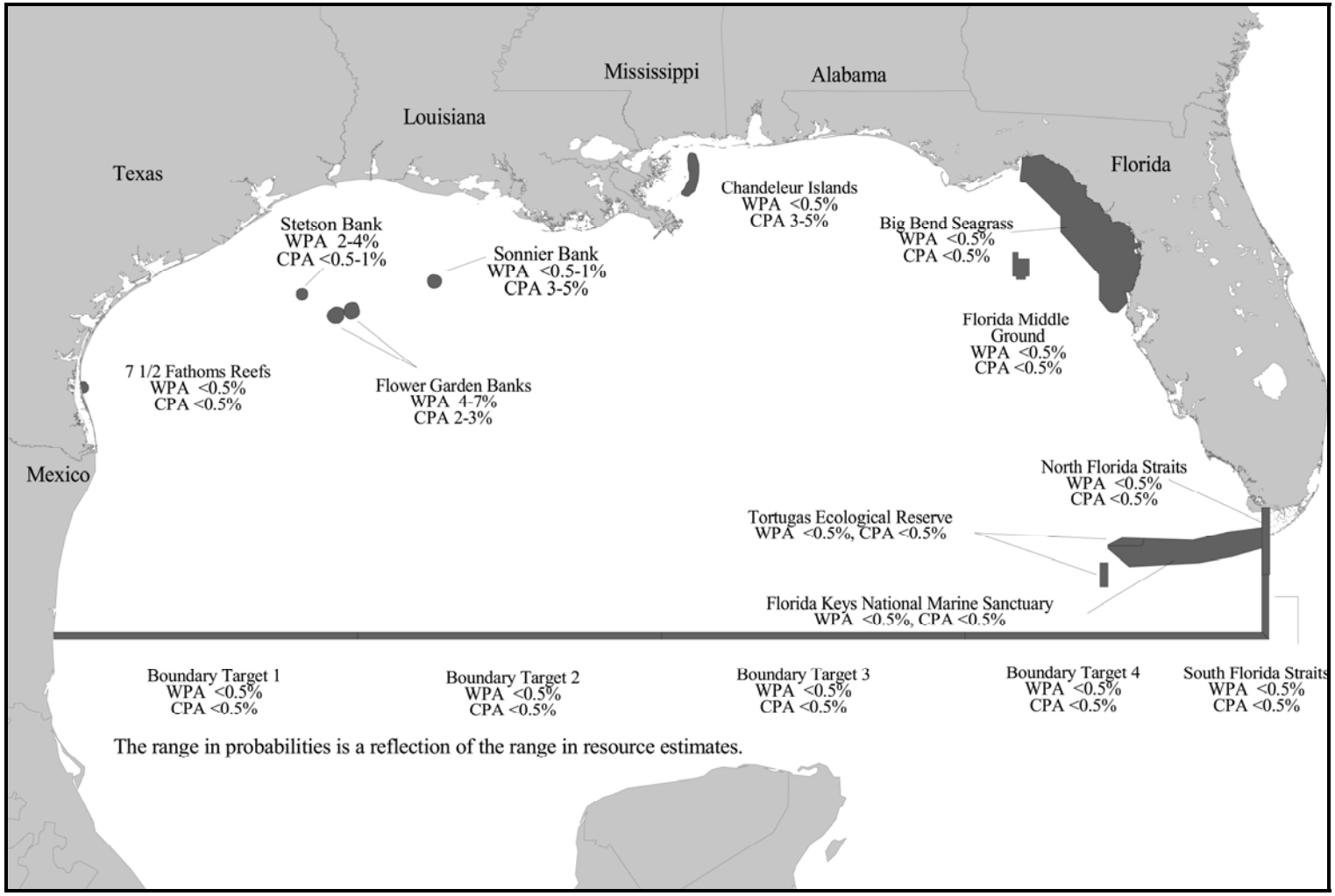

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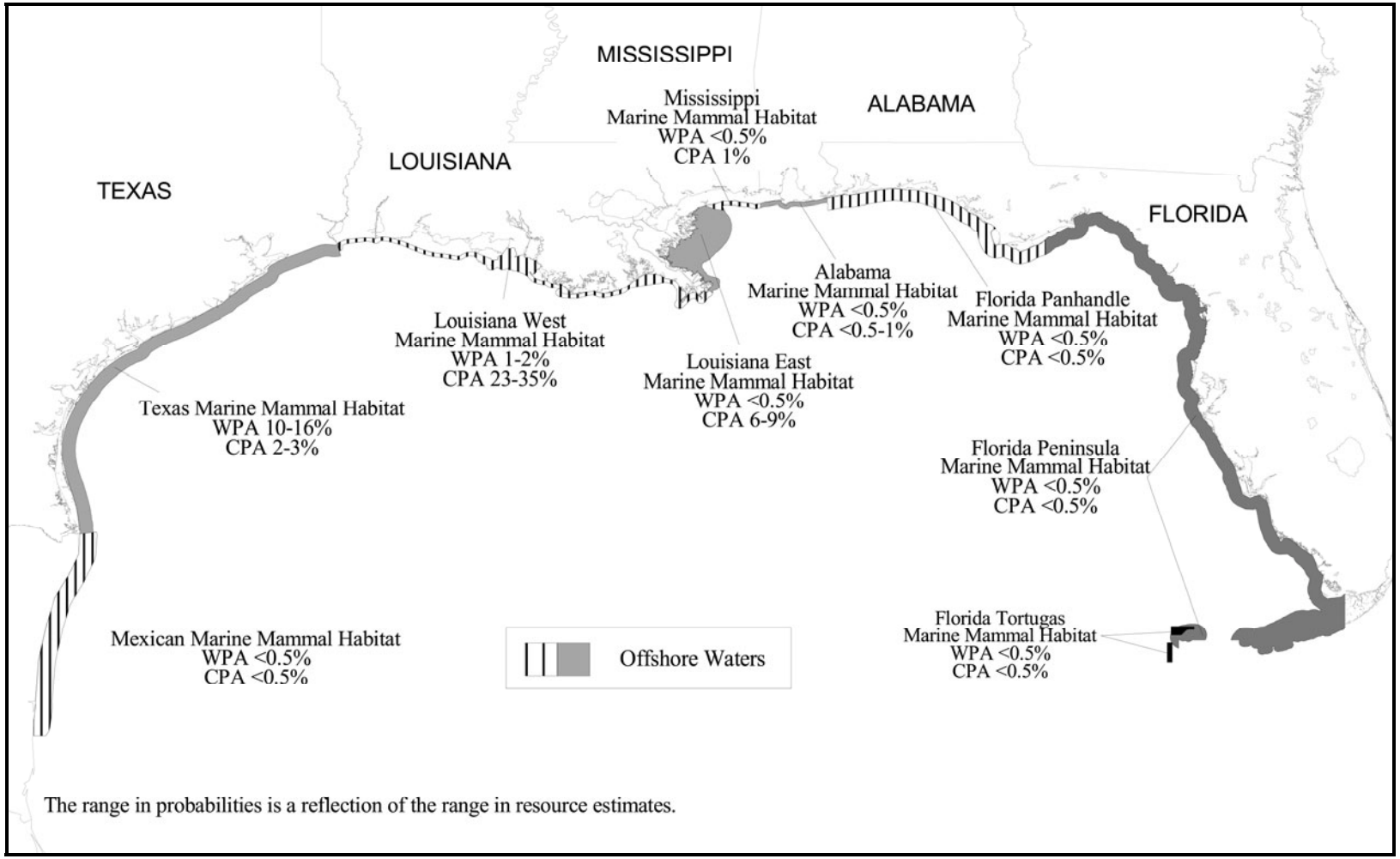

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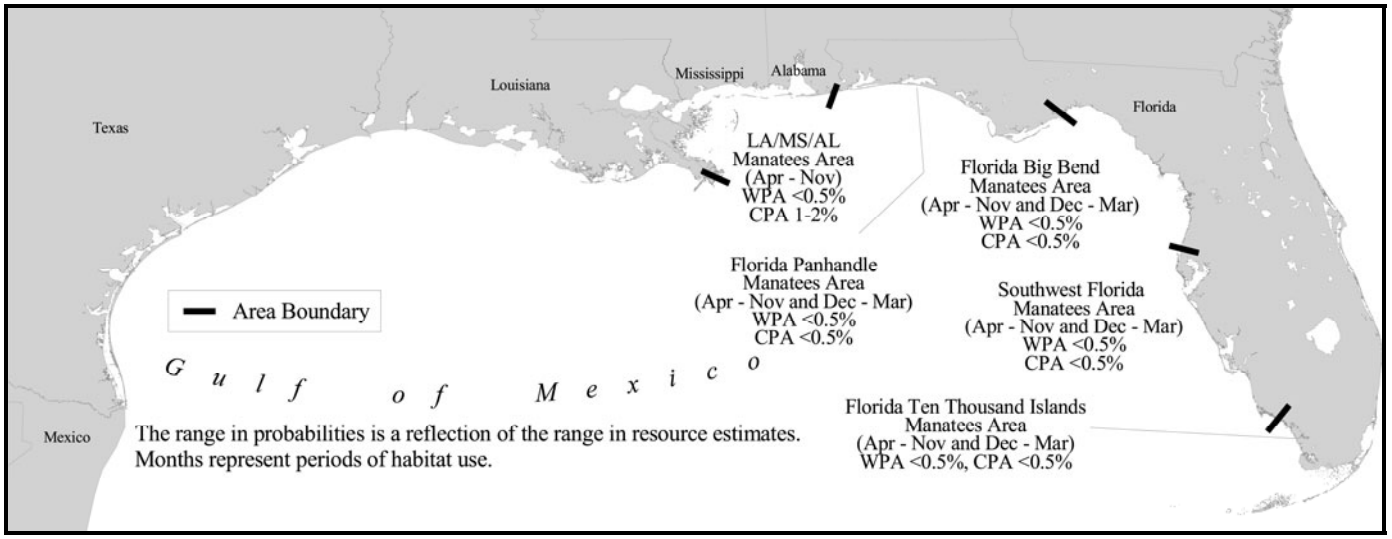

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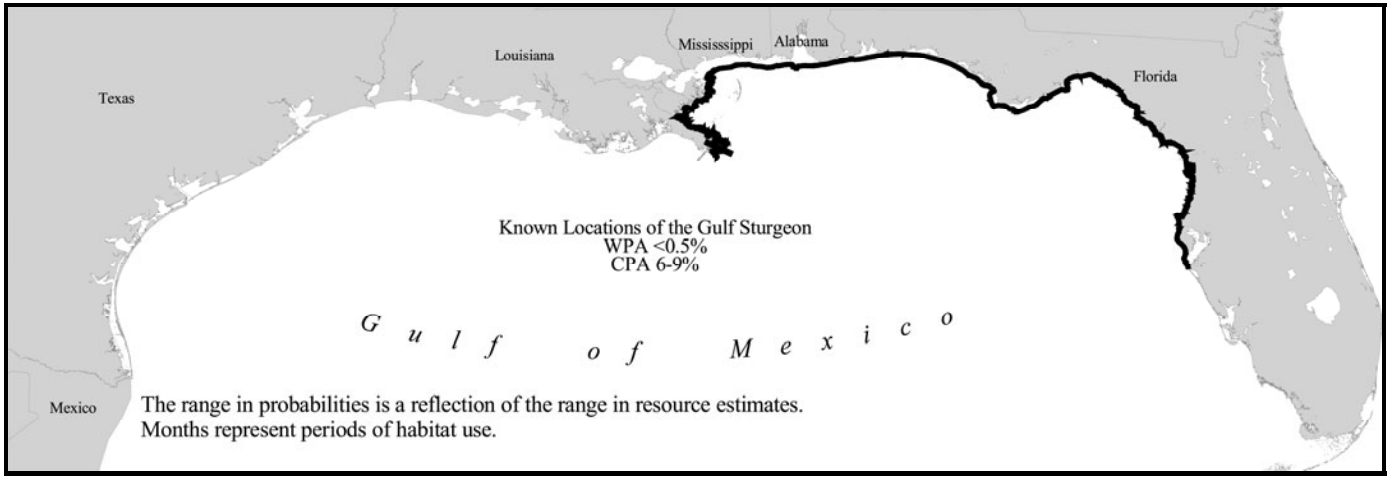

Figure 4-19. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Known Locations of Gulf Sturgeon as a Result of a WPA or CPA Proposed Action.

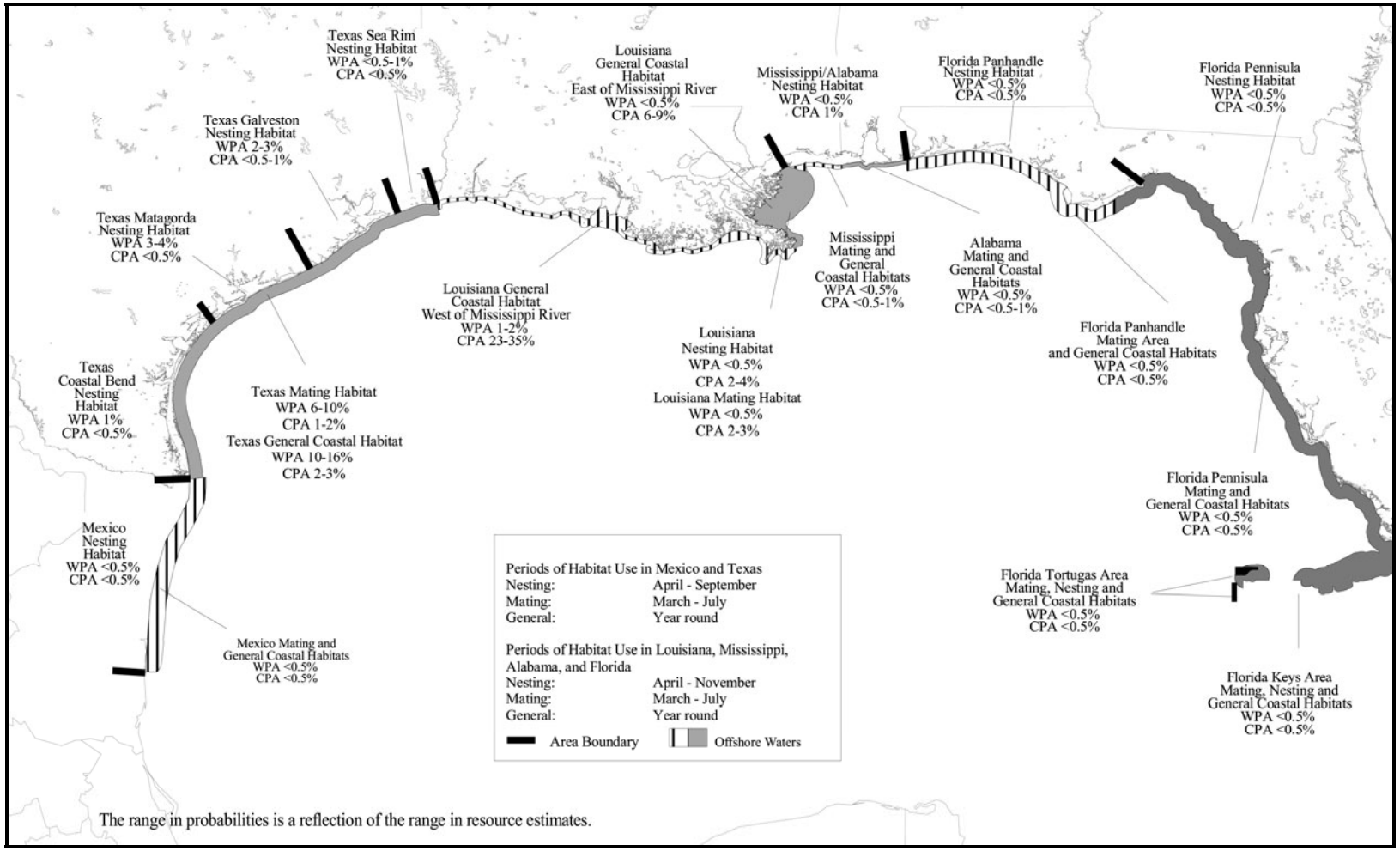

Figure 4-20. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Sea Turtle Habitats as a Result of a WPA or CPA Proposed Action.

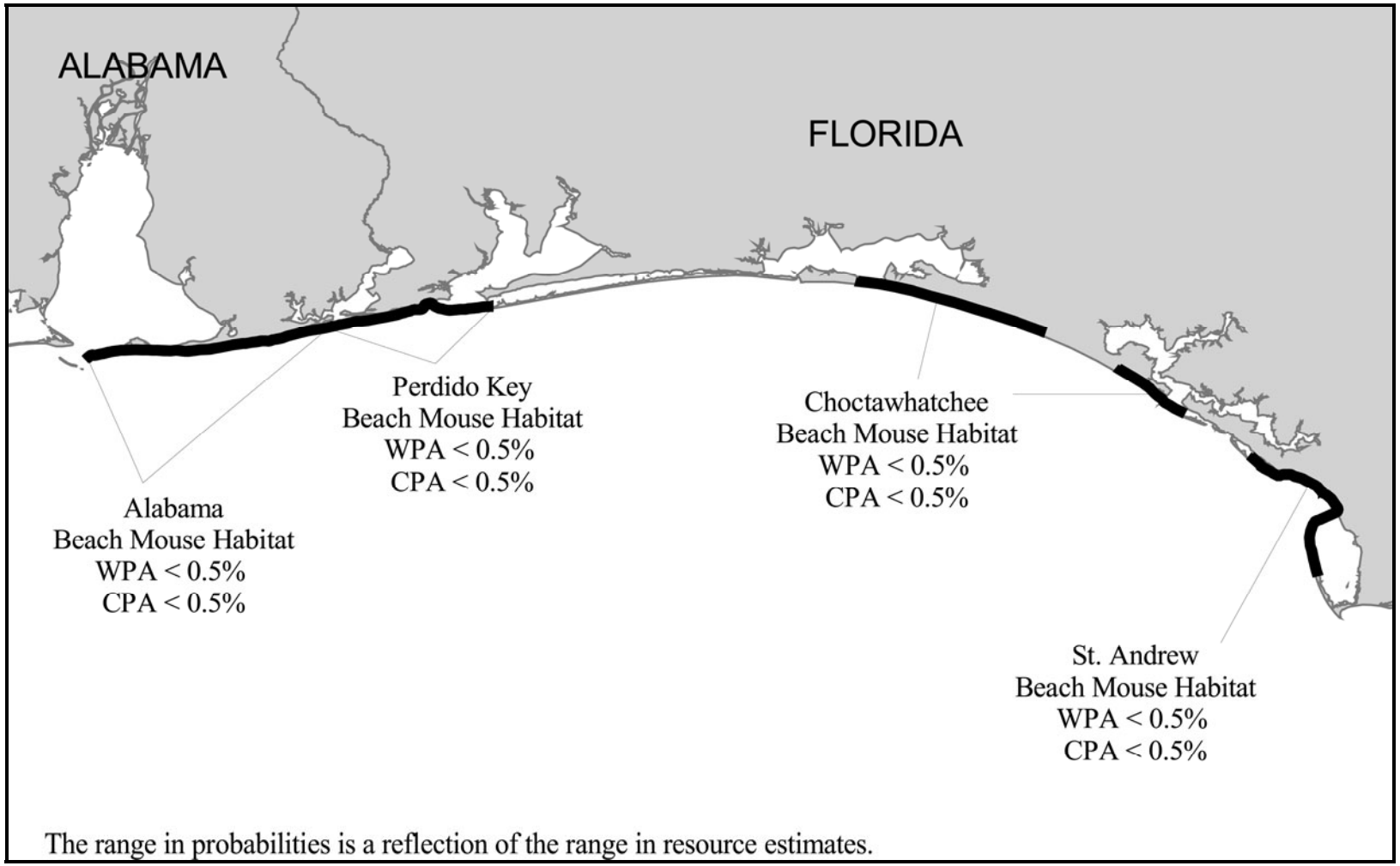

Figure 4-21. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Endangered Beach Mice Habitats as a Result of a WPA or CPA Proposed Action.

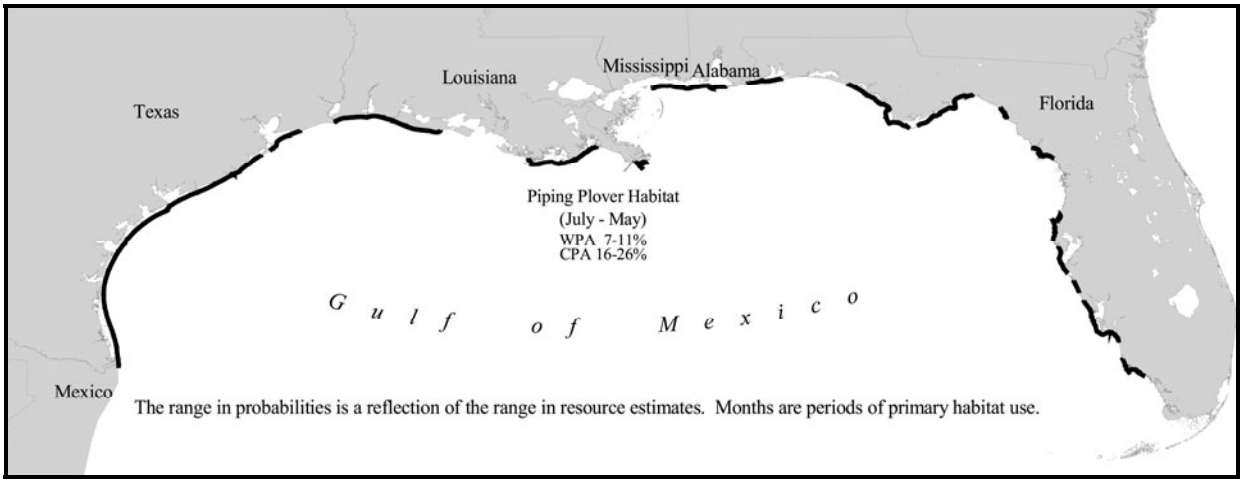

Figure 4-22. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Piping Plover Habitat as a Result of a WPA or CPA Proposed Action.

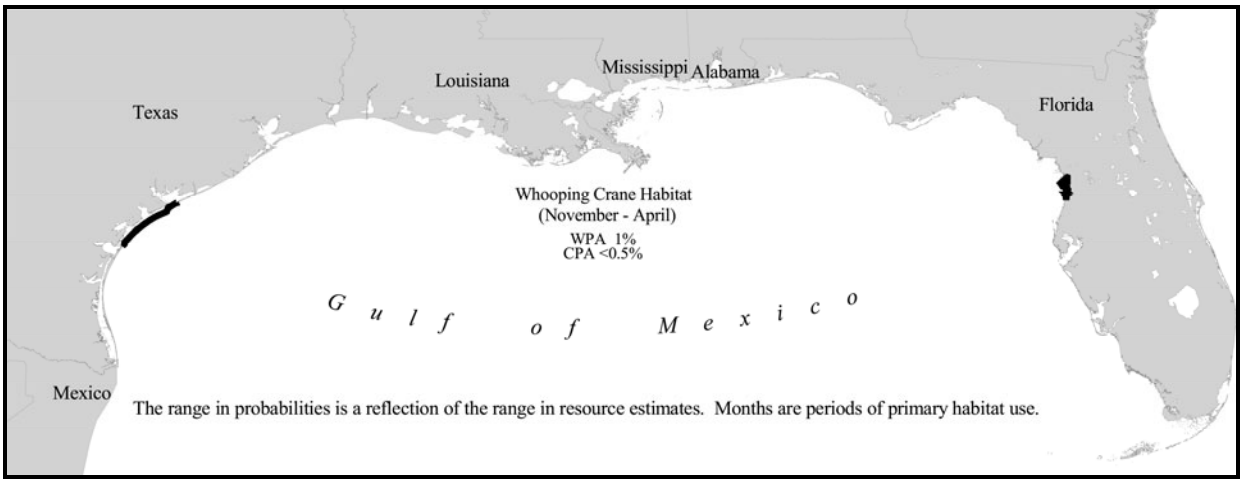

Figure 4-23. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Whooping Crane Habitat as a Result of a WPA or CPA Proposed Action.

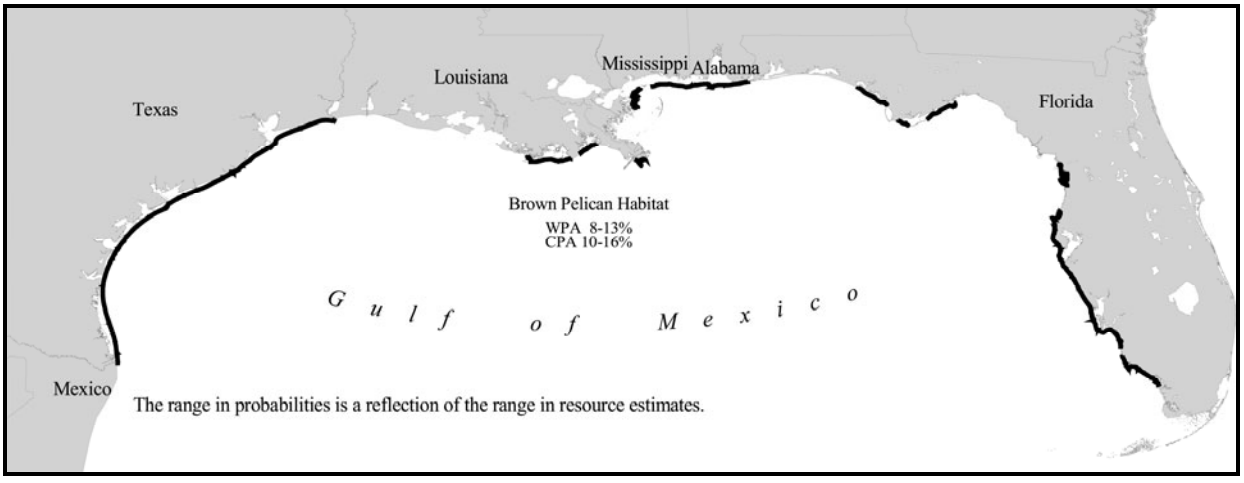

Figure 4-24. Probabilities of Oil Spills (>1,000 bbl) Occurring and Contacting within 10 Days Brown Pelican Habitat as a Result of a WPA or CPA Proposed Action.

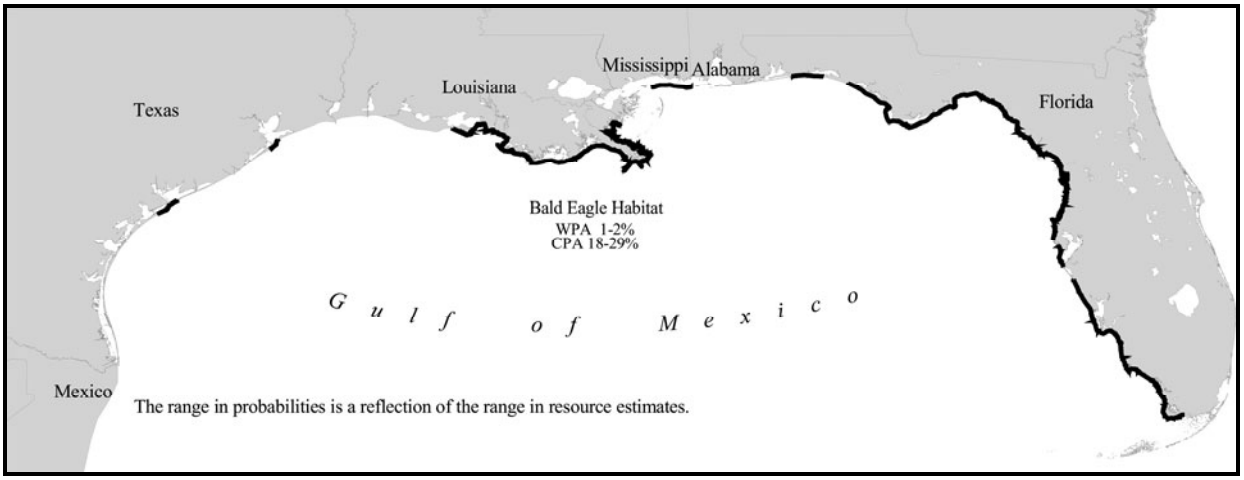

Figure 4-25. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Bald Eagle Habitat as a Result of a WPA or CPA Proposed Action.

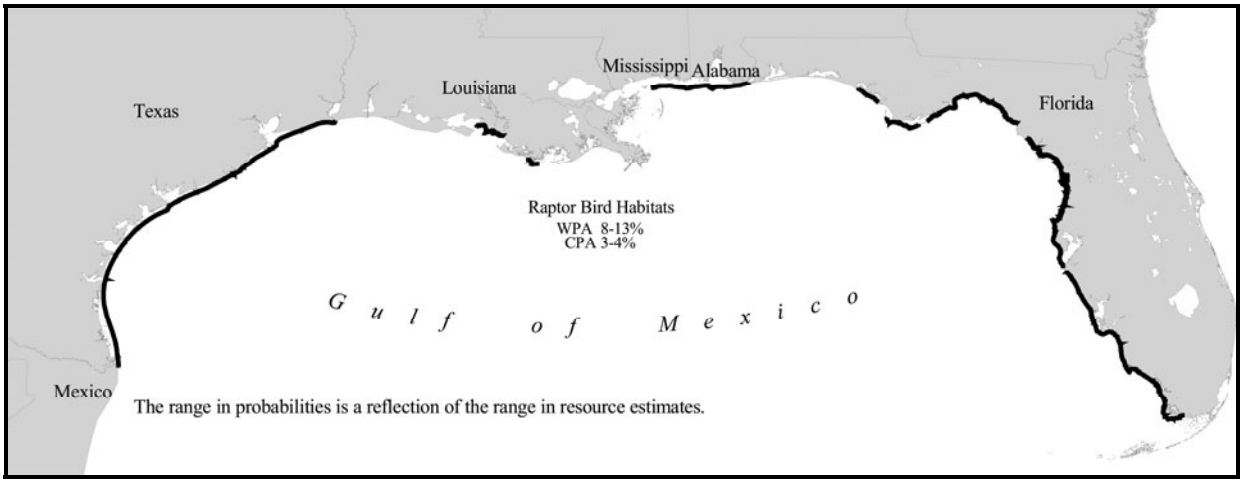

Figure 4-26. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Raptor Bird Habitats as a Result of a WPA or CPA Proposed Action.

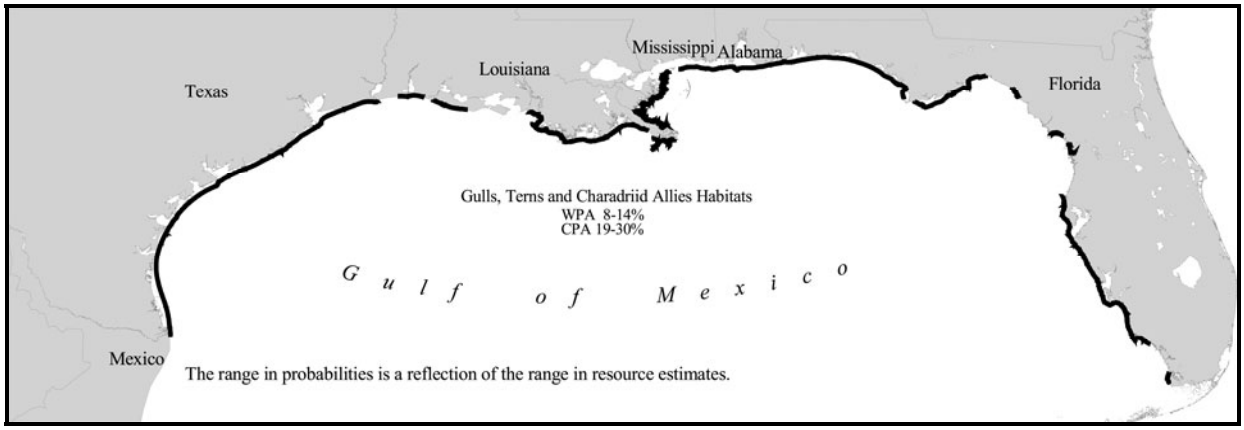

Figure 4-27. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Gull, Terns and Charadriid Allies Habitats as a Result of a WPA or CPA Proposed Action.

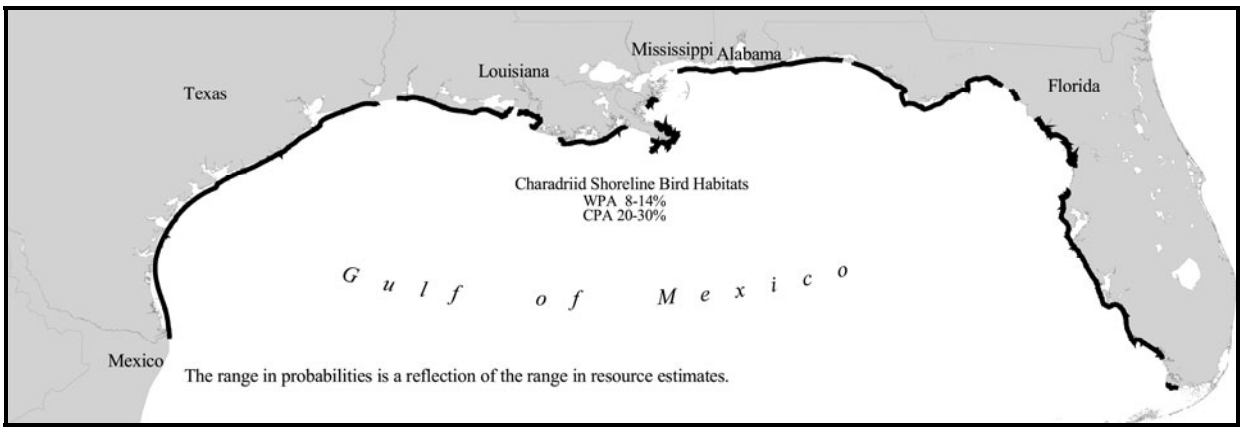

Figure 4-28. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Charadriid Shoreline Bird Habitats as a Result of a WPA or CPA Proposed Action.

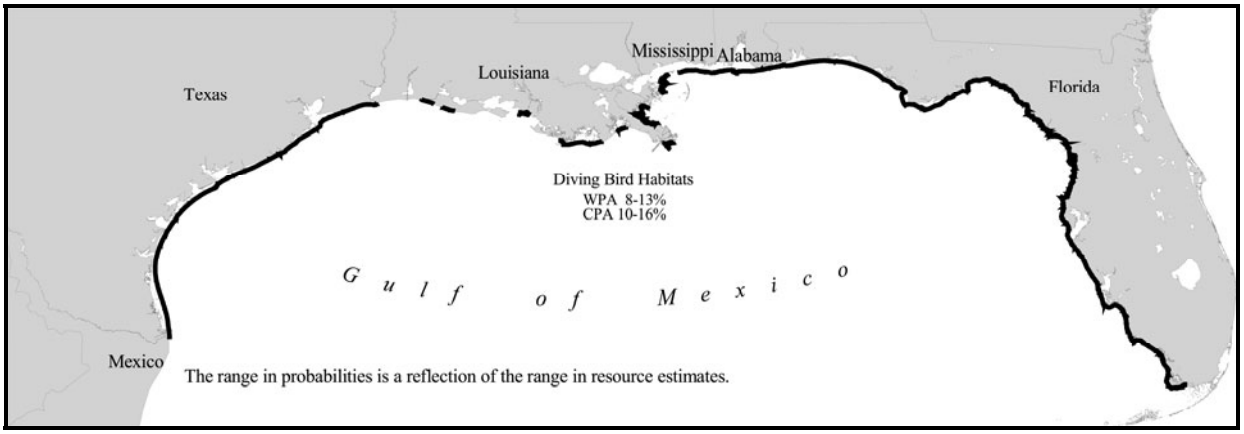

Figure 4-29. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Diving Bird Habitats as a Result of a WPA or CPA Proposed Action.

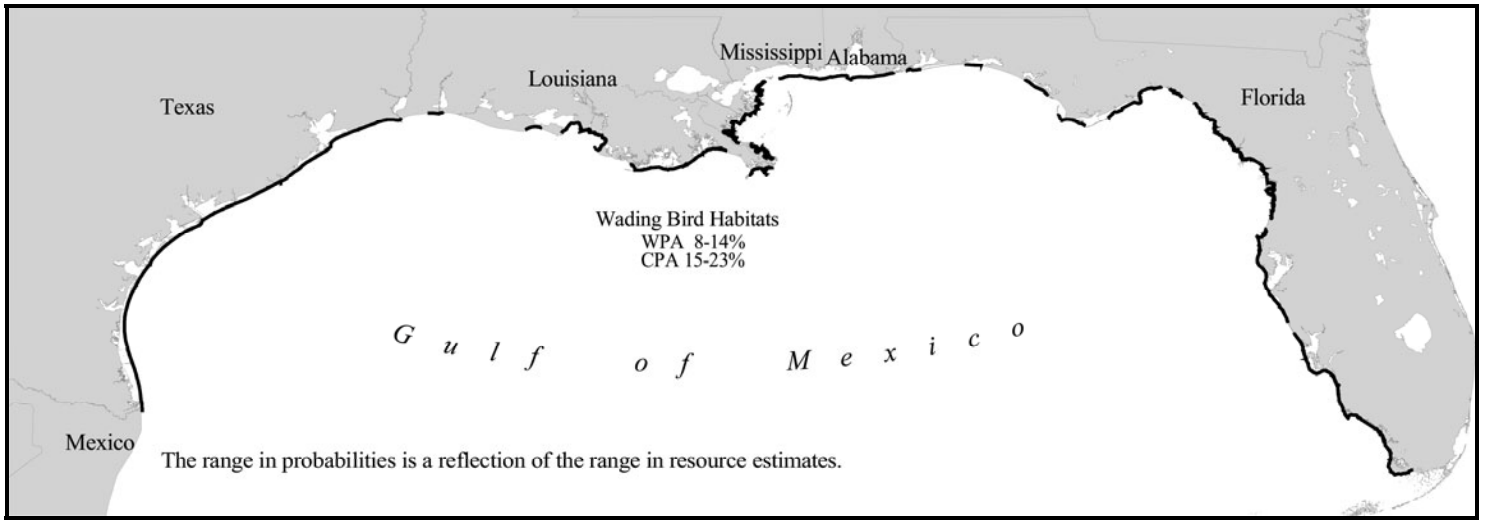

Figure 4-30. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Wading Bird Habitats as a Result of a WPA or CPA Proposed Action.

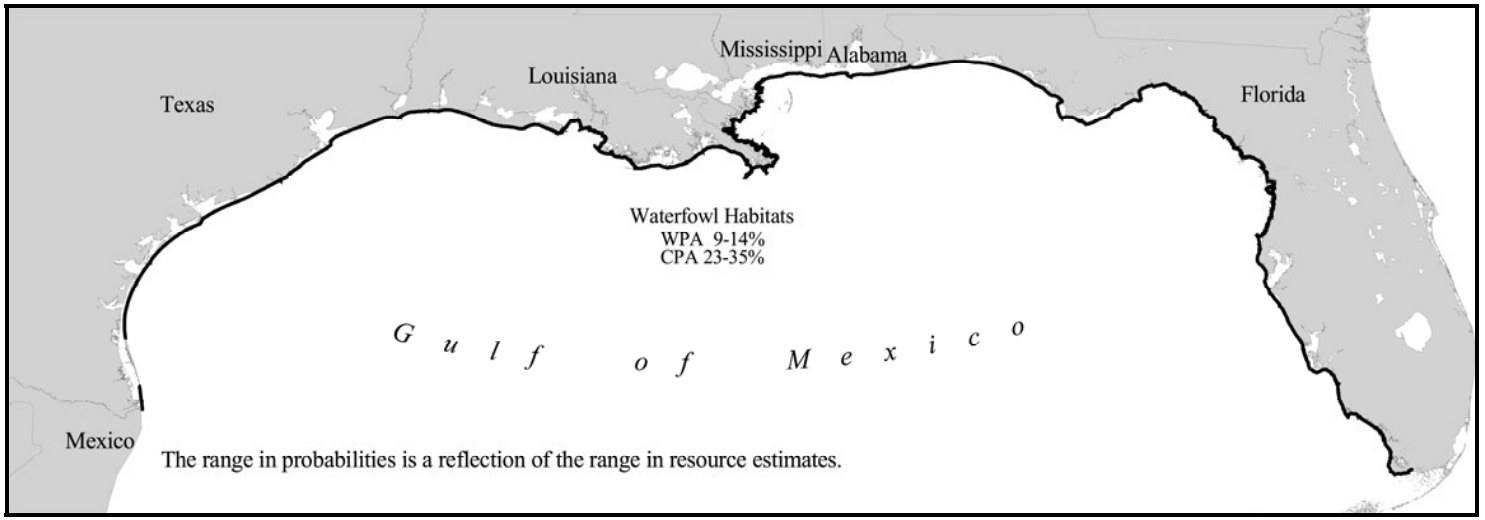

Figure 4-31. Probabilities of Oil Spills (≥1,000 bbl) Occurring and Contacting within 10 Days Waterfowl Habitats as a Result of a WPA or CPA Proposed Action.

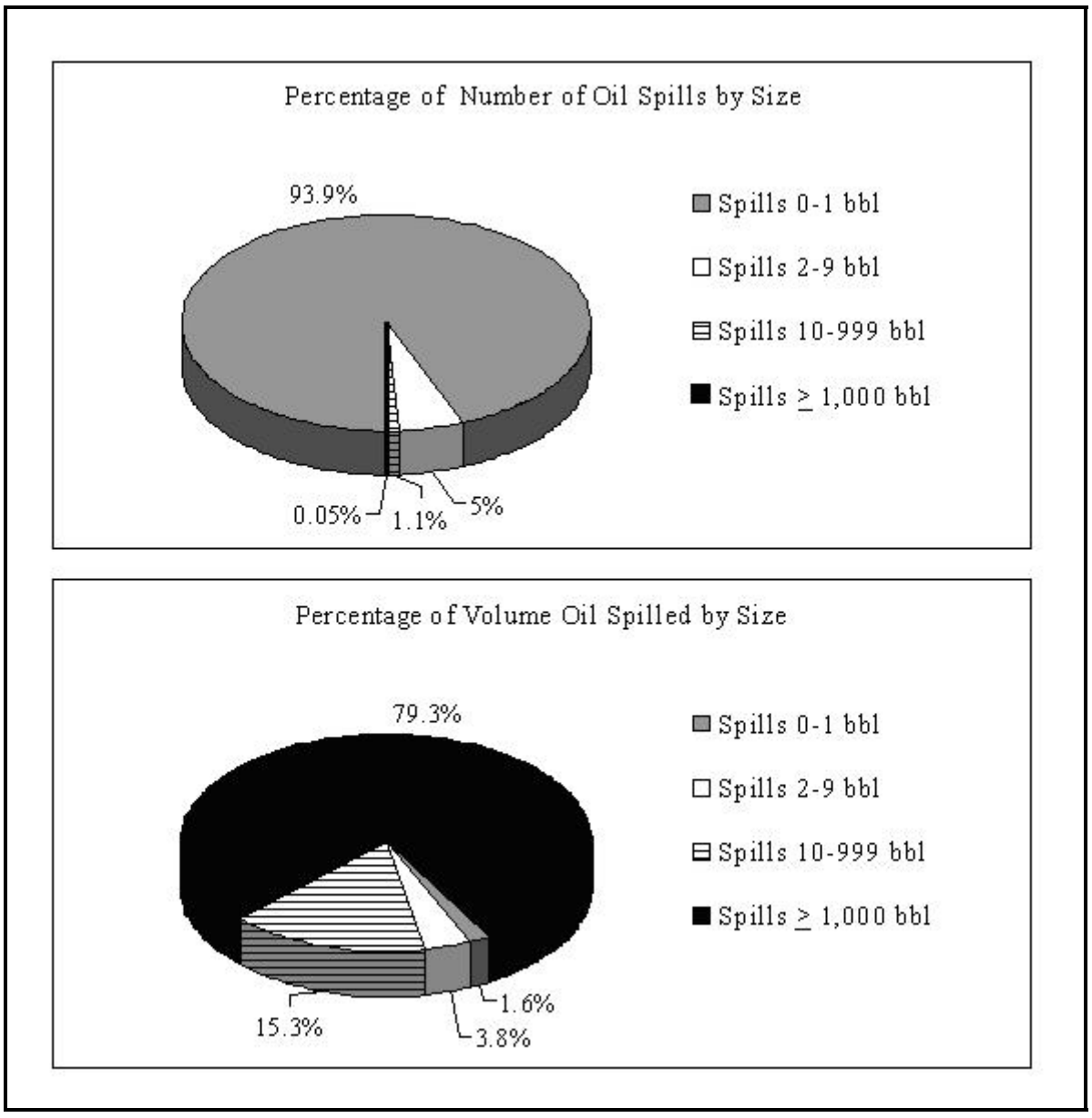

Figure 4-32. Comparison of Spill Frequency and Spill Volume for Past OCS Spills by Size Category (1971-1999 MMS OCS spill database (Anderson and LaBelle, 2000).

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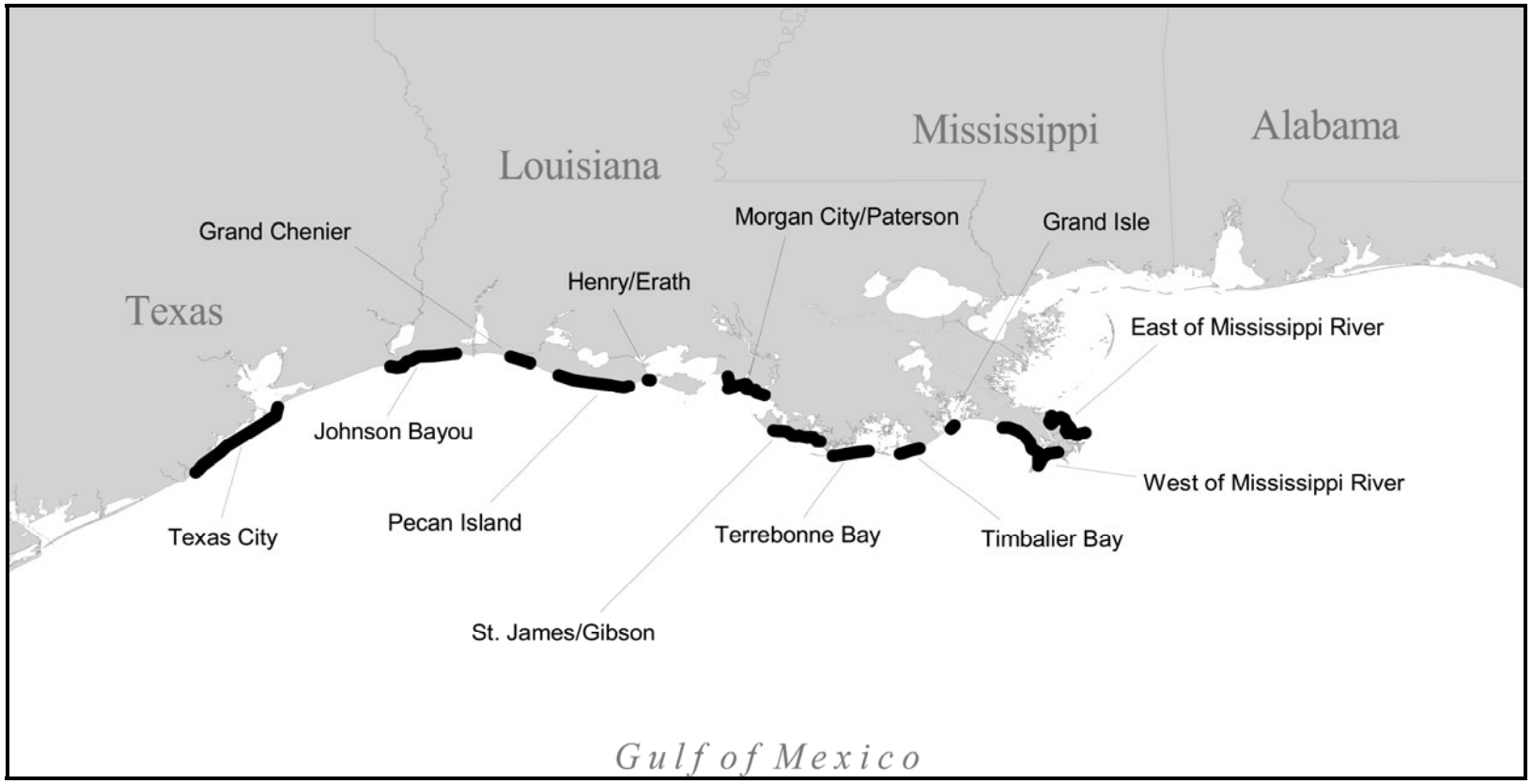

Figure 4-33. Major Oil Pipeline Landfall Areas Developed for OSRA.

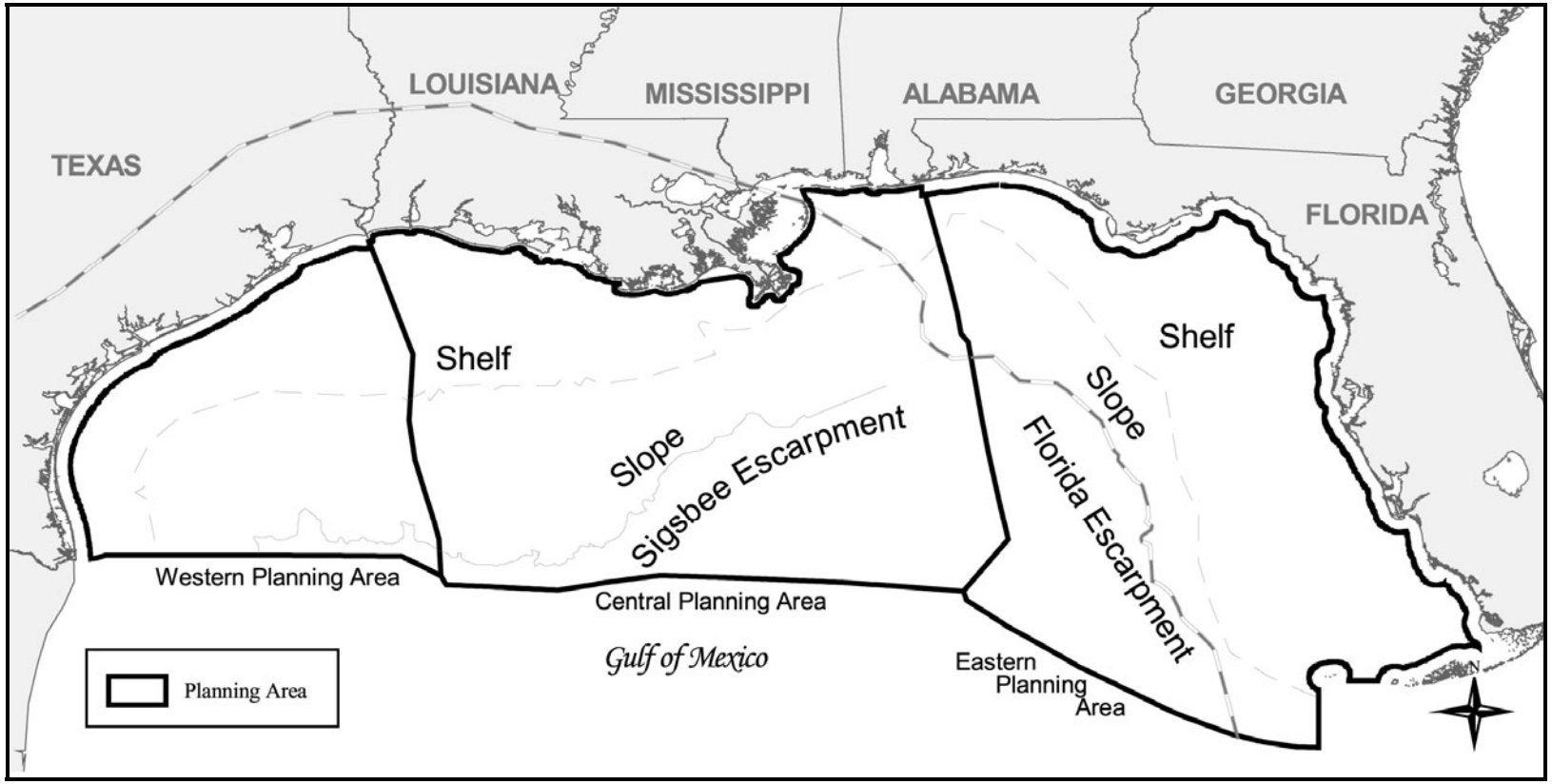

Figure A-1. Geologic Provinces of the Gulf of the Mexico.

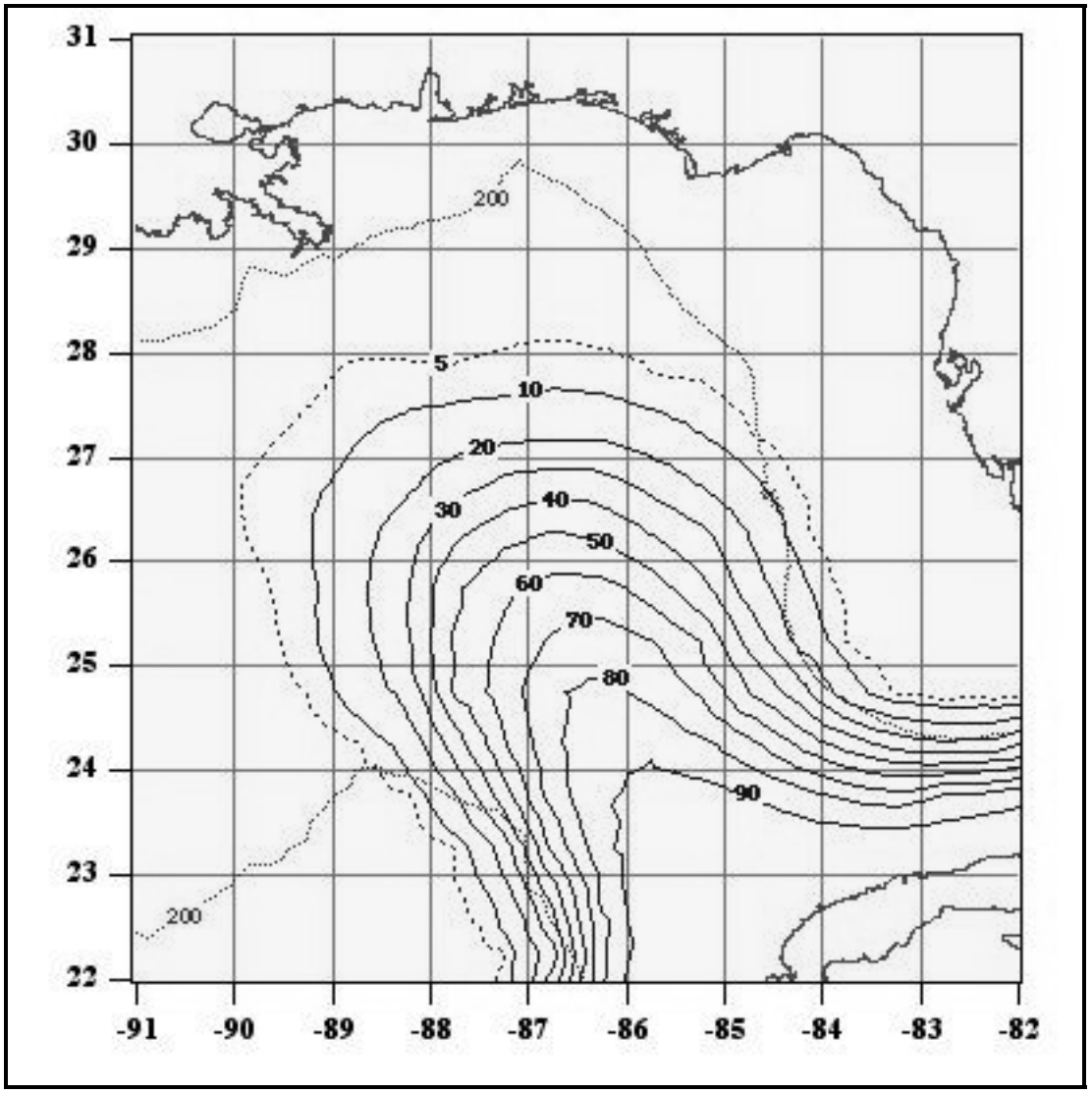

Figure A-2. Spatial Frequency (%) of the Water Mass Associated with the Loop Current in the Eastern Gulf of Mexico Based on Data for the Period 1976-2003.

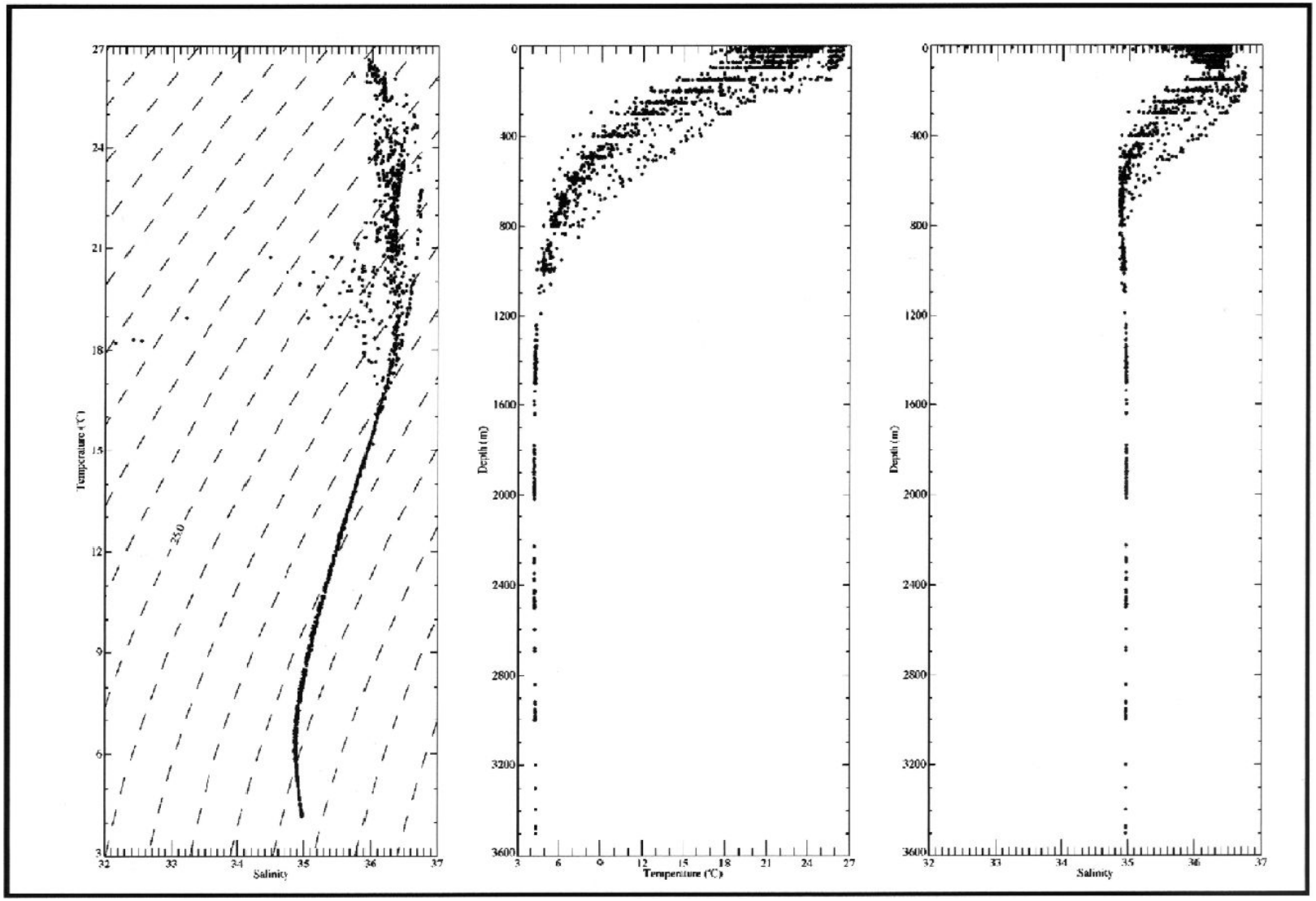

Figure A-3. Temperature vs. Salinity, Temperature vs. Depth, and Salinity vs. Depth Based on All Data Collected during Hidalgo Cruise 62-H3, February to March 1962.

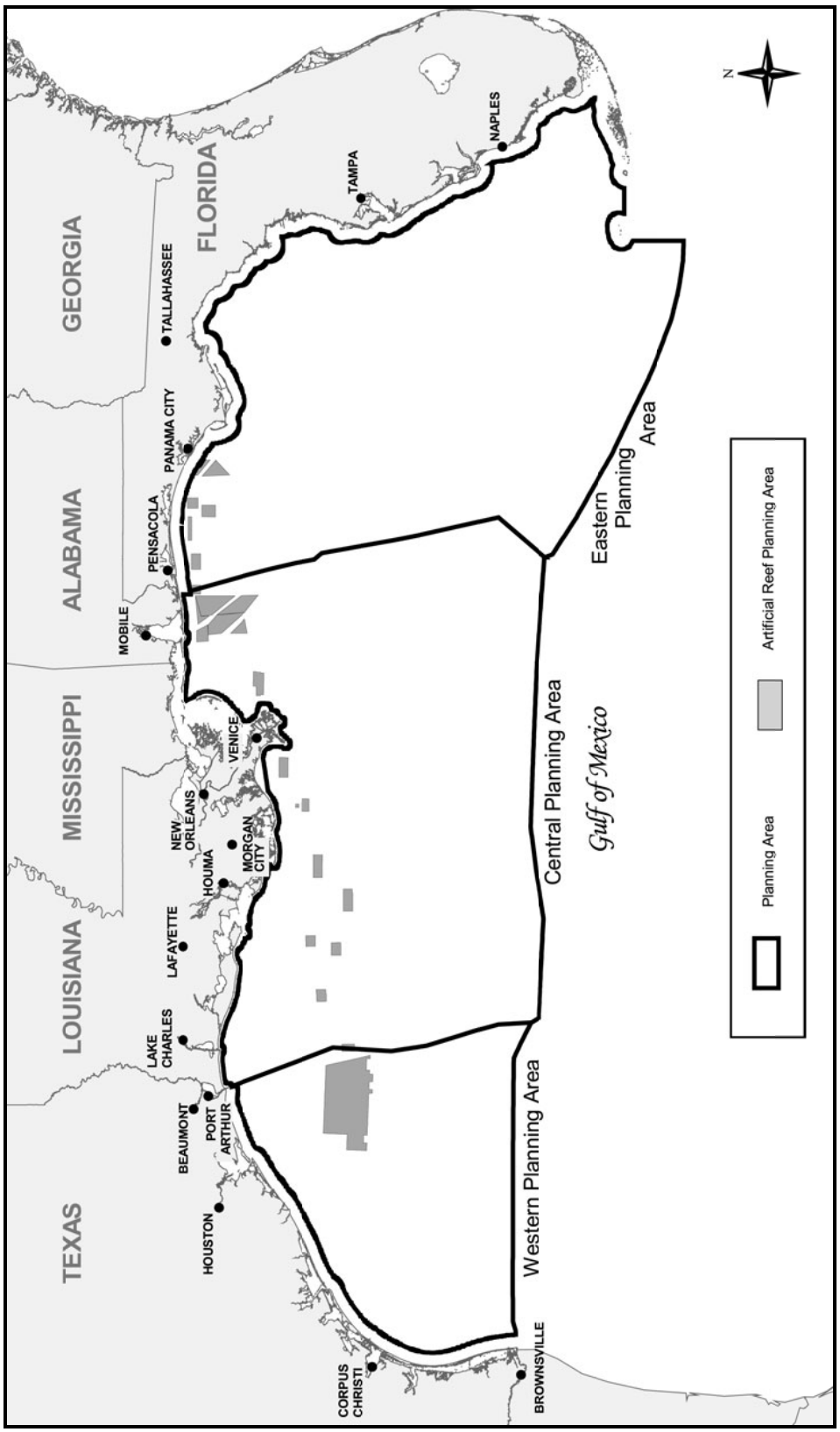

Figure A-4. Location of Artificial Reef Planning Areas in the Gulf of Mexico.

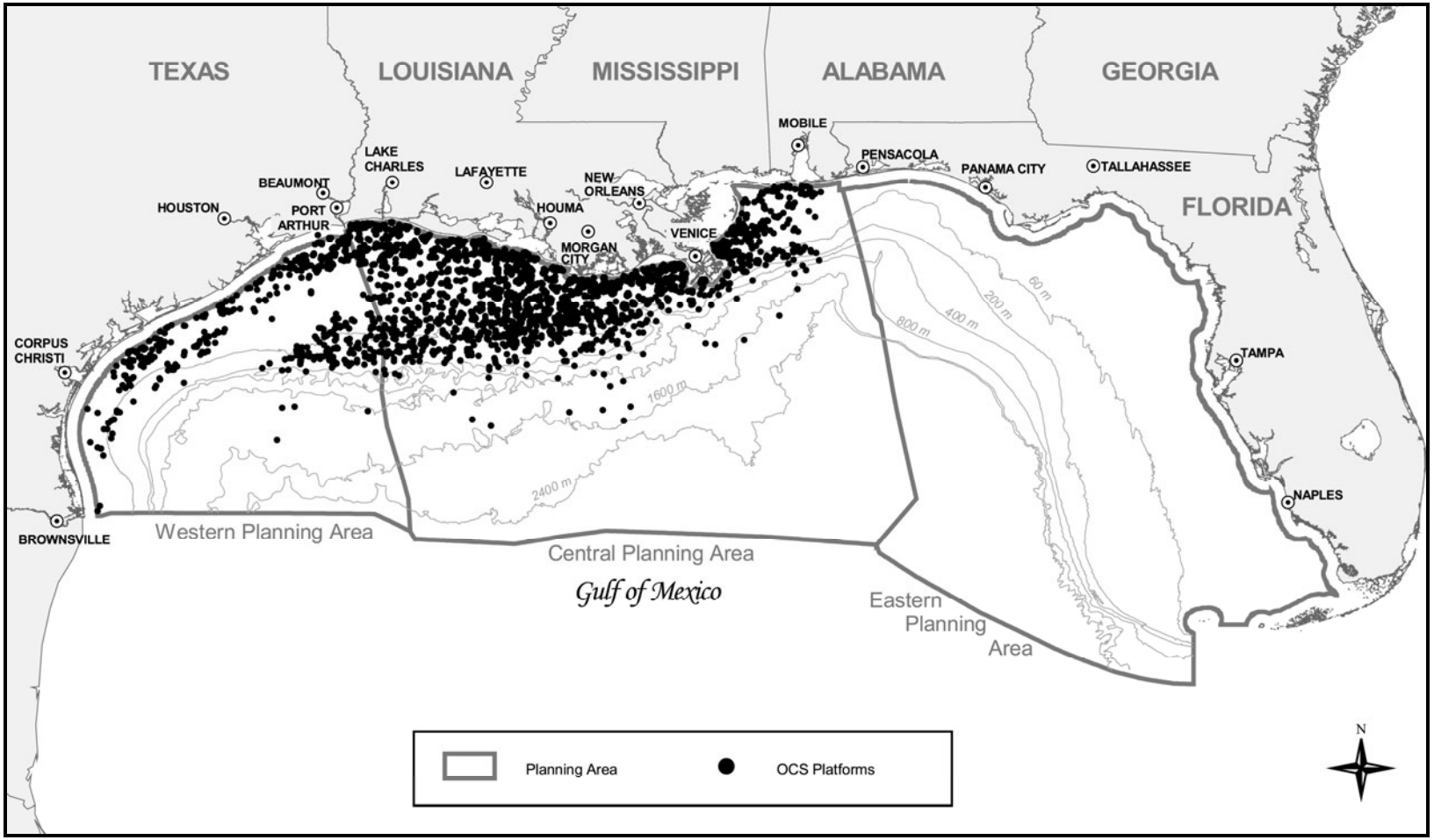

Figure A-5. OCS Platform Distribution across the Gulf of Mexico.

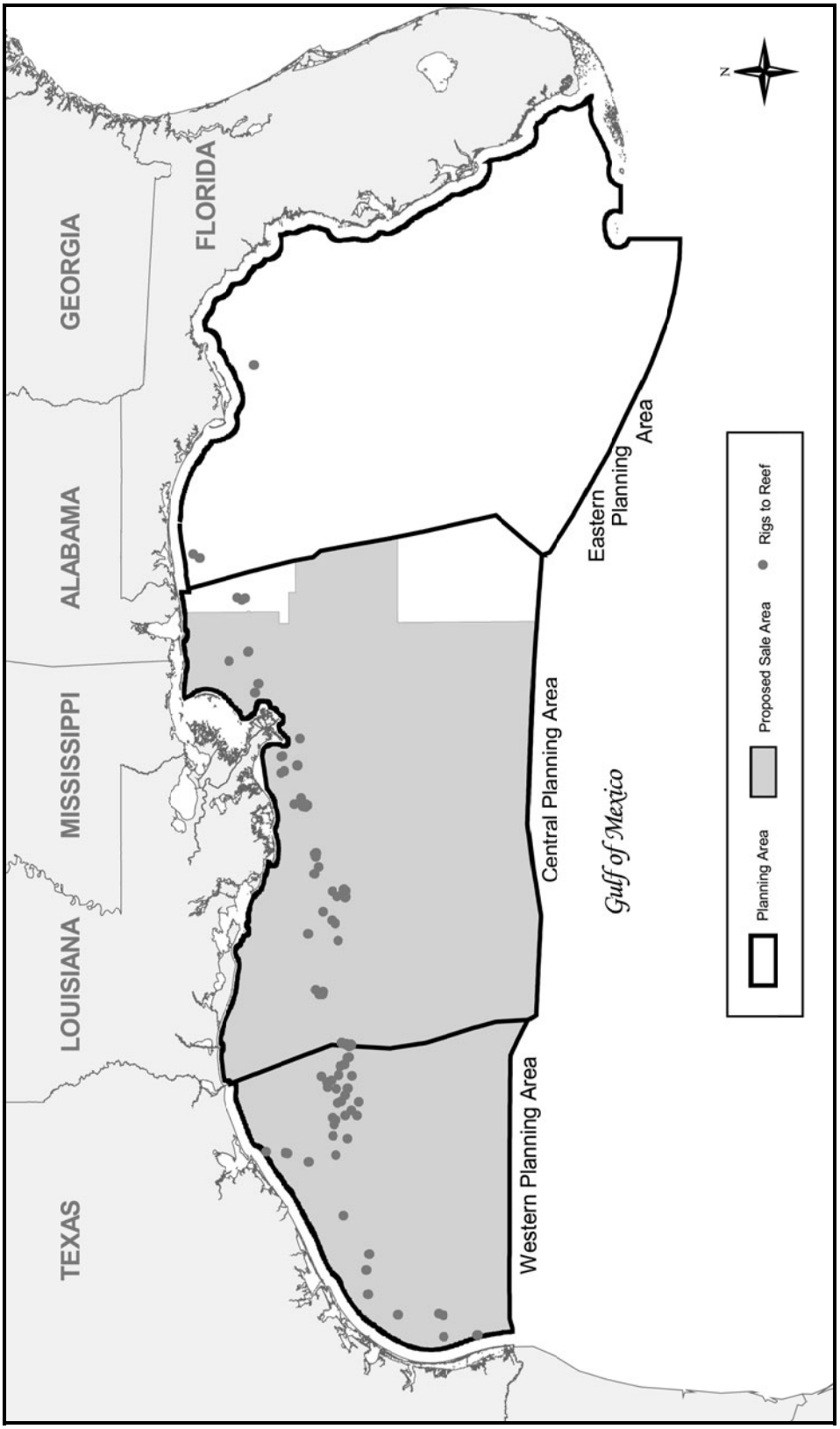

Figure A-6. Locations of Rigs-to-Reefs in the Gulf of Mexico.

TABLES

Table 1-1

Proposed WPA and CPA Gulf of Mexico OCS
Lease Sales for 2007-2012

Sale	Area	Year
204	WPA	2007
205	CPA	2007
206	CPA	2008
207	WPA	2008
208	CPA	2009
210	WPA	2009
213	CPA	2010
215	WPA	2010
216	CPA	2011
218	WPA	2011
222	CPA	2012

Table 3-1

National Ambient Air Quality Standards (NAAQS)

Pollutant	Averaging Period	Primary Standards[a]	Secondary Standards[b]
Ozone	8-hour [d]	0.08 ppm (157 µg/m^3)	(same as primary)
Sulphur Dioxide	Annual	0.03 ppm (80 µg/m^3)	NA
	24-hour	0.14 ppm (365 µg/m^3)	NA
	3-hour [c]	NA	1,300 µg/m^3
Carbon Monoxide	8-hour [c]	9.0 ppm (10 mg/m^3)	NA
	1-hour [c]	35 ppm (40 mg/$m^{3)}$	NA
Nitrogen Dioxide	Annual	0.053 ppm (100 µg/$m^{3)}$	(same as primary)
Suspended Particulate Matter (PM_{10})	Annual	50 µg/m^3	(same as primary)
	24-hour	150 µg/m^3 [e]	(same as primary)
($PM_{2.5}$)	Annual	15 µg/m^3 [f]	(same as primary)
	24-hour	65 µg/m^3 [g]	(same as primary)
Lead	Calendar Quarter	1.5 µg/m^3	(same as primary)

[a] The levels of air quality necessary, with an adequate margin of safety, to protect the public health.
[b] The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
[c] Not to be exceeded more than once a year.
[d] Three-year average of the annual fourth-highest daily maximum 8-hour average for each monitor.
[e] Based on the 99th percentile of 24-hour PM_{10} concentration at each monitor.
[f] Based on 3-year average of annual arithmetic mean concentrations.
[g] Based on 3-year average of 98th percentile of 24-hour concentrations.

Note: mg/m^3 = milligrams per cubic meter = 1,000 µg/m^{-3}.
µg/m^3 = micrograms per cubic meter.

Source: 40 CFR 50, 2005.

Table 3-2

Selected Mean Tides Around the Western and Central Gulf of Mexico

	Daily Mean (cm)	Reference
South Padre Island, Tex.	33.8	Conrad Blucher Institute, 2001
Matagorda Island, Tex.	21.3	White et al., 1989
Sabine Pass, Mosquito Point	26.6	Conrad Blucher Institute, 2001
Grand Isle, La.	30.0	USDOC, NOAA, 1988
Chenier Plain, La.	36.0	Penland and Suter, 1989
Mobile Point, Ala.	36.6	Hummell, 1990

Table 3-3

Biotic Zones of Topographic Features with Bank Crest and Seafloor Depth in Meters

Feature	Area	Zone	Crest (m)	Seafloor (m)
Shelf Edge Banks				
East Flower Gardens	Western	MS-DMP-M-S-AS-T-A-N	16	100-120
West Flower Gardens	Western	MS-DMP-M-S-AS-T-A-N	20	110-130
Alderice	Central	AS-T-A-N	55	84-90
Appelbaum	Western	AS-T-A-N	76	100-120
Bouma	Central	AS-T-A-N	60	90-100
Bright	Central	S-AS-T-A-N	37	110
Diaphus	Central	T-A-N	73	110-130
Elvers	Central	AS-T-A-N	60	180
Ewing	Central	AS-T-A-N	56	85-100
Geyer	Central	AS-T-A-N	37	190-210
Jakkula	Central	AS-T-A-N	59	120-140
MacNeil	Western	AS-T-A-N	62	86-94
McGrail	Central	S-AS-T-A-N	45	110-130
Parker	Central	AS-T-A-N	60	100
Rankin	Western	AS-T-A-N	52	110-140
Rezak	Central	AS-T-A-N	60	120
Sackett	Central	AS-T-A-N	67	100
Sidner	Central	AS-T-A-N	55	150
Sweet	Central	AS-T-A-N	75	130-200
Low-Relief Midshelf Banks				
32 Fathom	Western	T-A-N	52	55
Claypile	Western	A-N	40	50
Coffee Lump	Western	T-A-N	62	70
Midshelf Banks				
29 Fathom	Western	T-A-N	52	72
Fishnet	Central	T-A-N	66	78
Sonnier	Central	MS-M-S-AS-T-A-N	17	50
Stetson	Western	MS-M-S-AS-T-A-N	17	52
Low-Relief South Texas Banks				
Big Dunn Bar	Western	T-A-N	61	67
Blackfish Ridge	Western	T-A-N	60	70-74
Mysterious	Western	T-A-N	70	74-86
Small Dunn Bar	Western	T-A-N	63	67
South Texas Banks				
Aransas	Western	T-A-N	57	70-72
Baker	Western	T-A-N	56	70-74
Dream	Western	T-A-N	62	80
Hospital	Western	T-A-N	59	70-78
North Hospital	Western	T-A-N	58	68-70
South Baker	Western	T-A-N	59	80-84
Southern	Western	T-A-N	58	80

A = Antipatharian Zone
AS = Algal/Sponge Zone
DMP = *Diploria/Montastraea/Porites* Zone
M = *Madracis* Zone
MS = *Millepora/Sponge* Zone
N = Nepheloid Zone
S = *Stephanocoenia*
T = Transitional

Sources: Rezak and Bright, 1981; Rezak et al., 1983.

Table 3-4

Estimated Abundance of Cetaceans
in the Northern Gulf of Mexico Oceanic Waters

Species	Common Name	Estimated Number of Individuals
Balaenoptera edeni	Bryde's whale	40
Physeter macrocephalus	Sperm whale	1,349
Kogia spp.	Dwarf or pygmy sperm whale	742
Ziphius cavirostris	Cuvier's beaked whale	95
Unidentified ziphiid	Unidentified beaked whales	146
Feresa attenuata	Pygmy killer whale	408
Pseudorca crassidens	False killer whale	1,038
Orcinus orca	Killer whale	133
Globicephala sp.	Pilot whale	2,388
Peponocephala electra	Melonheaded whale	3,451
Grampus griseus	Risso's dolphin	2,169
Tursiops truncatus	Bottlenose dolphin	27,559
Steno bredanensis	Rough-toothed dolphin	2,223
Lagenodelphis hosei	Fraser's dolphin	726
Stenella frontalis	Atlantic spotted dolphin	30,947
Stenella longirostris	Spinner dolphin	11,971
Stenella attenuate	Pantropical spotted dolphin	91,321
Stenella clymene	Clymene dolphin	17,355
Stenella coeruleoalba	Striped dolphin	6,505

Source: Waring et al., 2004.

Table 3-5

Sea Turtle Taxa of the Northern Gulf of Mexico

Order Testudines (turtles)	Relative Occurrence	ESA Status
Family Cheloniidae (hardshell sea turtles)		
Loggerhead sea turtle (*Caretta caretta*)	C	T/E
Green sea turtle (*Chelonia mydas*)	C	E
Hawksbill sea turtle (*Eretmochelys imbricata*)	R	E
Kemp's Ridley sea turtle (*Lepidochelys kempi*)	C	E
Family Dermochelyidae (leatherback sea turtle)		
Leatherback sea turtle (*Dermochelys coriacia*)	U	E

Population status in the northern Gulf is summarized according to the following categories:

COMMON (C): A common species is one that is abundant wherever it occurs in the region (i.e., the northern Gulf). Most common species are widely distributed over the area.

UNCOMMON (U): An uncommon species may or may not be widely distributed but does not occur in large numbers. Uncommon species are not necessarily rare or endangered.

RARE (R): A rare species is one that is present in such small numbers throughout the region that it is seldom seen. Although not threatened with extinction, a rare species may become endangered if conditions in its environment change.

Endangered Species Act (ESA) status is summarized according to listing status under the following categories:

ENDANGERED (E): Species determined to be in imminent danger of extinction throughout all of a significant portion of their range.

THREATENED (T): Species determined likely to become endangered in the foreseeable future.

Table 3-6

Common Diving Birds in the Northern Gulf of Mexico

Common Name	Scientific Name	Occurrence*	Feeding Behavior and Diet
Common loon	*Gavia immer*	Wintering resident	Dives from surface for fish, arthropods, snails, leeches, frogs, and salamanders
Horned grebe	*Podiceps auritus*	Wintering resident	Fish and some arthropods
Eared grebe	*Podiceps nigricollis*	TX, LA, MS, AL	Arthropods
Pied-billed grebe	*Podilymbus podiceps*	Permanent resident	Arthropods, small fish
Anhinga	*Anhinga anhinga*	Permanent resident	Swims underwater for fish, frogs, snakes, and leeches
Olivaceous cormorant	*Phalacrocorax olivaceus*	*	NA
Double-crested cormorant	*Phylacrocorax auritus*	Permanent resident	NA

*All of these diving birds are distributed Gulfwide except where otherwise indicated.
NA = Not available.

Table 3-7

Common Marsh or Wading Birds in the Northern Gulf of Mexico

Common Name	Scientific Name	Occurrence*	Feeding Behavior and Diet
American bittern	*Botaurus lentiginosus*	*	Amphibians, small fish, small snakes, crawfish, small rodents, and water bugs
Least bittern	*Ixobrychus exilus*	Summer resident	NA
Great blue heron	*Ardea herodias*	*	Various aquatic animals
Great egret	*Casmerodias albus*	*	Fish, frogs, snakes, crawfish, and large insects
Snowy egret	*Egretta thula*	*	Arthropods, fish
Little blue heron	*Egretta caerulea*	*	Small vertebrates, crustaceans, and large insects
Tricolored heron	*Egretta tricolor*	*	NA
Reddish egret	*Egretta rufescens*	Gulfwide except for central and eastern FL Panhandle	NA
Cattle egret	*Bulbulcus ibis*	*	NA
Green-backed heron	*Butorides striatus*	Permanent resident in central LA and eastward; summer resident, TX and western LA	NA
Black-crowned night heron	*Nycticorax nicticorax*	*	NA
Yellow-crowned night heron	*Nyctanassa biolacea*	Permanent resident TX, eastern LA, MS, AL, and eastern FL Panhandle	Aquatic organisms, especially crustaceans
White ibis	*Eudocimus albus*	*	NA
Glossy ibis	*Plegadis falconellus*	*	Snakes, crawfish, and crabs
White-faced ibis	*Plegadis chini*	Permanent resident in TX and western and central LA; summer resident in eastern LA	NA
Roseate spoonbill	*Ajaia ajaja*	Permanent resident; summer resident in LA	NA

*All wading birds are permanent residents Gulfwide unless otherwise indicated.
NA = Not available.

Table 3-8

Common Waterfowl in the Northern Gulf of Mexico

Common Name	Scientific Name	Occurrence*	Feeding Behavior and Diet
Wood duck	*Aix sponsa*	Year-round	Dabbler; eats plants, invertebrates, tadpoles, and salamanders
Canvasback duck	*Aythya valisineria*	Year-round	Diver; feeds on molluscs and aquatic plants
Redhead duck	*Aythya americana*	*	Diver; mostly herbivorous
Ring-necked duck	*Aythya collaris*	*	Diver
Fulvous whistling duck	*Dendrocygna bicolor*	Nests in TX, LA	Feeds nocturnally on plant seeds on shore
Lesser scaup	*Aythya affinis*	High abundance	Diver; feeds on plants and animals
Greater scaup	*Aythya maarila*	*	Feeds on plants, insects, and invertebrates in nesting season; diet at sea in winter is mostly molluscs and plants
Black scoter	*Melanitta nigra*	Low abundance	Diver; feeds mostly on molluscs
White-winged scoter	*Melanitta fusca*	TX, LA, AL; low abundance	Diver; feeds mostly on shellfish
Surf scoter	*Melanitta perspicilla*	Low abundance	Diver; feeds mostly on molluscs and crustaceans
Common goldeneye	*Bucephala clangula*	*	Diver; needs on molluscs, crustaceans, insects, and aquatic plants
Bufflehead	*Bucephala albeola*	*	Diver; in fresh water, eats aquatic adult and larval insects, snails, small fish, and aquatic plant seeds; in salt water, eats crustaceans, shellfish, and snails
Common merganser	*Mergus merganser*	*	Diver; feeds on molluscs, crustaceans, aquatic insects, and some plants
Red-breasted merganser	*Mergus serrator*	*	Eats mostly fish
Hooded merganser	*Lophodytes cucullatus*	*	Diver; thin serrated bill is adapted to taking fish; also feeds on crustaceans, aquatic insects, other animals, and plants
Tundra swan	*Cygnus columbianus*	Winters on Atlantic Coast, minor presence in Gulf	NA
Greater white-fronted goose	*Answer albifrons*	TX, LA, AL	Feeds on plants and insects
Snow goose	*Chen caerulescens*	TX, LA, MS, AL	Dabbler; grazer; herbivore
Canada goose	*Branta canadensis*	*	Dabbler; herbivore
Brant goose	*Branta bernicla*	FL	Herbivore
Mallard duck	*Anas platyrhynchos*	*	Dabbler; usually a herbivore; female supplements diet with invertebrate protein source when producing eggs
Mottled duck	*Anas fulvigula*	TX, LA year-round	Dabbler; invertebrates and some plant material
American widgeon duck	*Anas americana*	*	Dabbler; may feed on widgeon grass (*Ruppia maritima*)
Northern pintail duck	*Anas acuta*	Abundant in TX	Dabbler mostly herbivorous
Northern shoveler duck	*Anas clypeata*	*	Dabbler; strains food through combs of teeth that are found inside the bill on each side
Blue-winged teal duck	*Anas discors*	*	Dabbler; mostly herbivorous
Cinnamon teal duck	*Anas cyanoptera*	TX, west LA	Dabbler; eats invertebrates, plant seeds, and algae; sometimes skims water surface with bill
Gadwall duck	*Anas strepera*	*	Dabbler; mostly herbivorous
Ruddy duck	*Oxyura jamaicensis*	*	Diver; mostly herbivorous

*All waterfowl are win tering residents Gulfwide unless otherwise indicated.
NA = Not available.

Table 3-9

Species Listed in the Gulf of Mexico Fishery Management Plans

Species	Scientific Name	Species	Scientific Name
Red Drum (1)		Coastal Migratory Pelagic (3)	
Red drum	*Sciaenops ocellatus*	Species in the Management Unit	
		King mackerel	*Scomberomorus cavalla*
Reef Fish (43)		Spanish mackerel	*Scomberomorus maculatus*
Balistidae—Triggerfishes (1)		Cobia	*Rachycentron canadum*
Gray triggerfish	*Balistes capriscus*	Species in the Fishery, but not in the Management Unit	
Carangidae—Jacks (4)		Cero	*Scomberomorus regalis*
Greater amberjack	*Seriola dumerili*	Little tunny	*Euthynnus alleteratus*
Lesser amberjack	*Seriola fasciata*	Dolphin	*Coryphaena hippurus*
Almaco jack	*Seriola rivoliana*	Bluefish (GOM only)	*Pomatomus saltatrix*
Banded rudderfish	*Seriola zonata*		
Labridae—Wrasses (1)		Shrimp (4)	
Hogfish	*Lachnolaimus maximus*	Brown shrimp	*Penaeus aztecus*
Lutjanidae—Snappers (14)		White shrimp	*Penaeus setiferus*
Queen snapper	*Etelis oculatus*	Pink shrimp	*Penaeus duorarum*
Mutton snapper	*Lutjanus analis*	Royal red shrimp	*Pleoticus robustus*
Schoolmaster	*Lutjanus apodus*		
Blackfin snapper	*Lutjanus buccanella*	Stone Crab (2)	
Red snapper	*Lutjanus campechanus*	Species in the Management Unit	
Cubera snapper	*Lutjanus cyanopterus*	Stone Crab	*Menippe mercenaria,*
Gray snapper	*Lutjanus griseus*	Stone Crab (Cedar Key N)	*Menippe adina*
Dog snapper	*Lutjanus jocu*		
Mahogany snapper	*Lutjanus mahogoni*	Spiny Lobster (2)	
Lane snapper	*Lutjanus synagris*	Species in the Management Unit	
Silk snapper	*Lutjanus vivanus*	Spiny lobster	*Panulirus argus*
Yellowtail snapper	*Ocyurus chrysurus*	Slipper lobster	*Scyllarides nodife*
Wenchman	*Pristipomoides aquilonaris*		
Vermilion snapper	*Rhomboplites aurorubens*	Species in the fishery but not in the Management Unit	
Malacanthidae—Tilefishes (5)		Spotted spiny lobster	*Panulirus guttatus*
Goldface tilefish	*Caulolatilus chrysops*	Smooth tail lobster	*Panulirus laevicauda*
Blackline tilefish	*Caulolatilus cyanops*	Spanish slipper lobster	*Scyllarides aequinoctialis*
Anchor tilefish	*Caulolatilus intermedius*		
Blueline tilefish	*Caulolatilus microps*		
(Golden) Tilefish	*Lopholatilus chamaeleonticeps*		
Serranidae—Groupers (18)			
Dwarf sand perch	*Diplectrum bivittatum*		
Sand perch	*Diplectrum formosum*		
Rock hind	*Epinephelus adscensionis*		
Speckled hind	*Epinephelus drummondhayi*		
Yellowedge grouper	*Epinephelus flavolimbatus*		
Red hind	*Epinephelus guttatus*		
Goliath grouper	*Epinephelus itajara*		
Red grouper	*Epinephelus morio*		
Misty grouper	*Epinephelus mystacinus*		
Warsaw grouper	*Epinephelus nigritus*		
Snowy grouper	*Epinephelus niveatus*		
Nassau grouper	*Epinephelus striatus*		
Marbled grouper	*Epinephelus inermis*		
Black grouper	*Mycteroperca bonaci*		
Yellowmouth grouper	*Mycteroperca interstitialis*		
Gag	*Mycteroperca microlepis*		
Scamp	*Mycteroperca phenax*		
Yellowfin grouper	*Mycteroperca venenosa*		

Source: Adopted from Table 1.5.1, GMFMC (2004).

Table 3-10

Gulf of Mexico Essential Fish Habitat Assessment
(species under Gulf of Mexico Fishery Management Plans)

Species	Presence in Destin Dome Unit	Bay and Estuary Relationships	Adult Prey Species
Invertebrates			
brown shrimp	adult present year-round	major nursery area	ornivorous
white shrimp	occurs; only most northern part	nursery area	ornivorous
pink shrimp	not present	nursery area	ornivorous
stone crab	uncommon; only most northern part	nursery area	oportunistic carnivore
spiny lobster	occurs	none noted	mollusks and arthropods
Fish in Taxonomic Order			
gag grouper	occurs	seagrass beds, nursery nearshore	primarily fish
red grouper	adult present year-round	none noted	primarily fish
scamp grouper	occurs	none noted	primarily fish
tilefish	rare; only in deepest waters	none noted	primarily crustaceans
cobia	adult present during summer	nursery nearshore	primarily crustaceans and some fish
lesser amberjack	occurs	none noted	cephalopods
greater amberjack	occurs	none noted	variety fish, crustaceans, and cephalopods
dolphin fish	adult present year-round	none noted	pelagic fish
lane snapper	occurs	nursery nearshore	fish, crustaceans, mollusks, algae
gray snapper	adult present year-round	nursery nearshore	fish, shrimp, and crabs
red snapper	adult present year-round	nursery nearshore	fish, shrimp
red drum	uncommon; only most northern part	nursery nearshore	crustaceans
yellowtail snapper	occurs	none noted	benthic fish and crustaceans
king mackerel	adult present year-round; spawning	none noted	mostly fish, anchovies, and herrings
spanish mackerel	uncommon; northern part only	nursery nearshore	mostly fish, anchovies, and herrings
gray triggerfish	occurs	none noted	mostly bivalves and barnacles; also polychaetes and echinoderms

Table 3-11

Gulf of Mexico Essential Fish Habitat Assessment
(highly migratory species managed by NOAA Fisheries Service)

Species	Presence in Western or Central Planning Areas; Eco-regions 3, 4, or 5 (GMFMC, 2004)	Known Prey Species
Billfish		
blue marlin	Juvenile/subadult and adults occur in area beyond 100-m contour	Adults: fish at surface, and deepwater: scombrids, cephalopods
white marlin	Juvenile/subadult and adults occur in area beyond 50-m contour	Juveniles/fish; adults/squid and fish
sailfish	Juvenile/subadult only occurs to south of area beyond 200-m contour	Pelagic schooling fish and squids
Swordfish	Spawning and eggs/larvae and adults occur in area beyond 100-m contour	Larvae: zooplankton, fish larvae Juveniles: fish, squid, pelagic crustaceans Adults: pelagic fish, squid, demersal fish
Tunas		
bluefin tuna	Spawning and eggs/larvae occur in area no juvenile/subadult or adult noted	Juveniles: crustacea, larval, and small fish
skipjack tuna	Spawning, eggs/larvae occurs to south of area beyond 200-m contour	Larvae: small fish
yellowfin tuna	Spawning and eggs/larvae, subadult, and adult occurs to south of area beyond 200-m contour	Larvae: small fish Juveniles: fish Adults: crustacea and fish
Sharks		
blacktip	Late juvenile/subadult only noted in area, nearshore	None noted (unknown)
bull	Late juvenile/subadult only noted in area, nearshore	None noted (unknown)
dusky	No life stage occurrence noted, but area designated as research area	None noted (unknown)
silky	Neonate/early juvenile only noted south of area beyond 200-m contour	None noted (unknown)
tiger	Neonate/early juvenile, late juvenile, subadult, and adult occurs in area	None noted (unknown)
Atlantic sharpnose	Adults only in area	None noted (unknown)
Longfin mako	Neonate/early juvenile, and juvenile/ subadult occur to south of area beyond 200-m contour; adults occur in area beyond 100-m contour	None noted (unknown)

Table 3-12

Top Species Commonly Caught by Recreational Fishers in the
Marine Recreational Fisheries Statistics Gulf Coast States (2003)

Species	Number Fish	Inland (#)	Ocean (#)	Pounds	Inland (lb)	Ocean (lb)
Black drum	1,523,614	1,348,578	175,036	2,857,730	2,554,785	302,945
Dolphins	650,531	0	650,531	2,530,872	0	2,530,872
Gray snapper	6,073,935	3,551,826	2,522,109	1,893,108	488,321	1,404,784
Great amberjack	346,069	1,697	344,372	2,416,947	686	2,416,261
Herrings	36,080,133	28,139,743	7,940,389	319,316	262,552	56,764
King mackerel	398,234	3,166	395,068	2,763,371	14,892	2,748,479
Mycteroperca groupers	4,021,740	907,897	3,113,843	3,529,371	138,793	3,390,576
Pinfishes	9,106,417	4,607,298	4,499,120	1,775,960	763,852	1,012,108
Red drum	8,587,461	7,347,631	1,239,830	13,113,186	11,004,563	2,108,623
Red snapper	2,934,322	14,991	2,919,330	3,921,340	7,310	3,914,031
Saltwater catfishes	11,767,737	8,261,074	3,506,663	793,312	471,526	321,786
Sand seatrout	4,062,981	3,579,486	483,495	1,556,192	1,377,009	179,183
Sheepshead	3,945,716	3,173,873	771,843	5,002,901	3,661,345	1,341,554
Spotted seatrout	28,785,103	23,018,643	5,766,460	11,881,531	9,950,455	1,931,077

Source: USDOC, NOAA, National Ocean Service, 2005.

Table 3-13

Recreational Fishing Participation in the
Marine Recreational Fisheries Statistics Gulf Coast States (2003)

State	Participation Estimates (number of people)			
	Coastal	Non-Coastal	Out-of-State	Total
West Florida	1,965,124	0	2,317,524	4,282,648
Alabama	187,257	122,899	213,903	524,059
Mississippi	159,459	53,209	48,328	260,996
Louisiana	726,741	79,422	204,406	1,010,569
Gulf Total	3,038,581	255,530	2,784,161	6,078,272

Source: USDOC, NOAA, National Ocean Service, 2005.

Table 3-14

Mode of Fishing in the Marine Recreational Fisheries Statistics Gulf Coast States (not including Texas) (2003)

State	Area	Number of Trips	% State Total
Alabama	Shore Ocean (≤3 mi)	407,097	27.1%
	Shore Inland	180,405	12.0%
	Charter Ocean (≤3 mi)	8,457	0.6%
	Charter Ocean (>3 mi)	54,233	3.6%
	Charter Inland	3,874	0.3%
	Private/Rental Ocean (≤3 mi)	265,688	17.7%
	Private/Rental Ocean (>3 mi)	250,154	16.7%
	Private/Rental Inland	330,082	22.0%
	Total	1,499,990	
West Florida	Shore Ocean (≤10 mi)	2,809,906	17.6%
	Shore Inland	3,481,135	21.7%
	Charter Ocean (≤10mi)	136,633	0.9%
	Charter Ocean (> 10 mi)	273,038	1.7%
	Charter Inland	86,539	0.5%
	Private/Rental Ocean (≤10 mi)	3,165,002	19.8%
	Private/Rental Ocean (>10 mi)	1,232,367	7.7%
	Private/Rental Inland	4,824,355	30.1%
	Total	16,008,975	
Louisiana	Shore Ocean (≤3 mi)	151,608	3.5%
	Shore Inland	720,392	16.9%
	Charter Ocean (≤3 mi)	6,973	0.2%
	Charter Ocean (>3 mi)	25,519	0.6%
	Charter Inland	71,690	1.7%
	Private/Rental Ocean (≤3 mi)	101,735	2.4%
	Private/Rental Ocean (>3 mi)	87,895	2.1%
	Private/Rental Inland	3,105,109	72.7%
	Total	4,270,921	
Mississippi	Shore Ocean (≤3 mi)	24,025	2.0%
	Shore Inland	404,762	33.7%
	Charter Ocean (≤3 mi)	7,706	0.6%
	Charter Ocean (>3 mi)	6,265	0.5%
	Charter Inland	10,345	0.9%
	Private/Rental Ocean (≤3 mi)	2,608	0.2%
	Private/Rental Ocean (>3 mi)	52,814	4.4%
	Private/Rental Inland	692,198	57.6%
	Total	1,200,723	
Gulf Total	Shore Ocean (≤3 mi)	3,392,636	14.8%
	Shore Inland	4,786,694	20.8%
	Charter Ocean (≤3 mi)	159,769	0.7%
	Charter Ocean (>3 mi)	359,055	1.6%
	Charter Inland	172,448	0.8%
	Private/Rental Ocean (≤3 mi)	3,535,033	15.4%
	Private/Rental Ocean (>3 mi)	1,623,230	7.1%
	Private/Rental Inland	8,951,744	39.0%
	Total	22,980,609	

Source: USDOC, NOAA, National Ocean Service, 2005.

Table 3-15

Employment in Tourism-Related Industries by Labor Market Area in 2002

Labor Market Area	Total Mid-March Employees	Total Establishments	Establishments by Employment Size Class			
			1 to 9	10 to 49	50 to 249	250 or more
Mobile	41,434	2,311	1,348	784	167	12
Alabama State Total	252,651	14,443	8,610	4,733	1,036	64
Biloxi – Gulfport	45,952	1,643	920	594	110	19
Mississippi State Total	192,921	9,518	5,709	3,143	595	71
Lake Charles	22,816	1,014	585	357	61	11
Lafayette	32,767	1,839	1,089	624	116	10
Baton Rouge	50,826	2,411	1,326	854	216	15
Houma	17,640	1,011	639	310	56	6
New Orleans	123,008	5,295	3,102	1,665	478	50
Louisiana State Total	318,616	15,221	8,911	5,022	1,175	113
Brownsville	46,838	2,472	1,455	843	157	17
Corpus Christi	31,579	1,945	1,205	620	112	8
Brazoria	14,762	960	610	291	55	4
Victoria	12,095	882	559	281	41	1
Beaumont - Port Arthur	25,836	1,509	954	436	112	7
Houston - Galveston	309,195	14,484	8,604	4,461	1,316	103
Texas State Total	1,379,094	68,380	39,644	22,703	5,592	441
Panama City	16,176	932	569	294	66	3
Pensacola	43,848	2,229	1,352	672	190	15
Lake City	6,901	498	348	126	22	2
Tallahassee	27,130	1,395	805	467	113	10
Gainesville	20,807	1,080	658	323	91	8
Ocala	19,913	1,128	736	292	96	4
Tampa - St. Petersburg	169,975	8,033	5,044	2,116	819	54
Ft. Myers	62,385	2,773	1,602	842	310	19
Miami	290,494	15,205	10,245	3,656	1,164	140
Sarasota	51,503	2,595	1,583	733	269	10
Florida State Total	1,227,526	58,002	36,503	15,672	5,376	451

Source: USDOC, Bureau of the Census, 2006.

Table 3-16

Employment in Tourism-Related Industries by Economic Impact Area in 2002

Economic Impact Area (EIA)	Total Mid-March Employees	Total Establishments	Establishments by Employment Size Class			
			1 to 9	10 to 49	50 to 249	250 or more
AL-1	41,434	2,311	1,348	784	167	12
MS-1	45,952	1,643	920	594	110	19
LA-1	22,816	1,014	585	357	61	11
LA-2	32,767	1,839	1,089	624	116	10
LA-3	68,466	3,422	1,965	1,164	272	21
LA-4	123,008	5,295	3,102	1,665	478	50
Louisiana EIA Total	247,057	11,570	6,741	3,810	927	92
TX-1	78,417	4,417	2,660	1,463	269	25
TX-2	26,857	1,842	1,169	572	96	5
TX-3	335,031	15,993	9,558	4,897	1,428	110
Texas EIA Total	440,305	22,252	13,387	6,932	1,793	140
FL-1	60,024	3,161	1,921	966	256	18
FL-2	34,031	1,893	1,153	593	135	12
FL-3	210,695	10,241	6,438	2,731	1,006	66
FL-4	404,382	20,573	13,430	5,231	1,743	169
Florida EIA Total	709,132	35,868	22,942	9,521	3,140	265

Source: USDOC, Bureau of the Census, 2006.

Table 3-17

Classification of the Gulf Economic Impact Areas

Economic Impact Area				Economic Impact Area				Economic Impact Area			
State	Area	Labor Market	County	State	Area	Labor Market	County	State	Area	Labor Market	County
Alabama	AL-1	Mobile	Baldwin	Texas	TX-1	Brownsville	Cameron	Florida	FL-1	Panama City	Bay
			Clarke				Hidalgo				Franklin
			Conecuh				Starr				Gulf
			Escambia				Willacy			Pensacola	Escambia
			Mobile			Corpus Christi	Aransas				Okaloosa
			Monroe				Brooks				Santa Rosa
			Washington				Duval				Walton
			Wilcox				Jim Wells		FL-2	Tallahassee	Calhoun
							Kenedy				Gadsden
Mississippi	MS-1	Biloxi-Gulfport	George				Kleberg				Holmes
			Greene				Nueces				Jackson
			Hancock				Refugio				Jefferson
			Harrison				San Patricio				Leon
			Jackson		TX-2	Brazoria	Brazoria				Liberty
			Pearl River				Matagorda				Wakulla
			Stone				Wharton				Washington
						Victoria	Calhoun			Lake City	Columbia
Louisiana	LA-1	Lake Charles	Allen				Colorado				Hamilton
			Beauregard				Dewitt				Lafayette
			Calcasieu				Fayette				Madison
			Cameron				Goliad				Suwannee
			Jefferson Davis				Gonzales				Taylor
			Vernon				Jackson		FL-3	Ocala	Citrus
	LA-2	Lafayette	Acadia				Lavaca				Marion
			Evangeline				Victoria			Gainesville	Alachua
			Iberia		TX-3	Beaumont -	Hardin				Bradford
			Lafayette			Port Arthur	Jasper				Dixie
			St. Landry				Jefferson				Gilchrist
			St. Martin				Newton				Levy
			Vermillion				Orange				Union
	LA-3	Baton Rouge	Ascension				Polk			Tampa-St. Petersburg	Hernando
			East Baton Rouge				Tyler				Hillsborough
			Iberville			Houston -	Austin				Pasco
			Livingston			Galveston	Chambers				Pinellas
			Tangipahoa				Fort Bend		FL-4	Ft. Myers	Collier
			West Baton Rouge				Galveston				Lee
		Houma	Assumption				Harris			Miami	Broward
			Lafourche				Liberty				Miami-Dade
			St. Mary				Montgomery				Monroe
			Terrebonne				San Jacinto			Sarasota	Charlotte
	LA-4	New Orleans	Jefferson				Waller				DeSoto
			Orleans				Washington				Manatee
			Plaquemines								Sarasota
			St. Bernard								
			St. Charles								
			St. James								
			St. John the Baptist								
			St. Tammany								
			Washington								

Table 3-18

Demographic and Employment Baseline Projections for Economic Impact Area TX-1

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	1,172.83	1,488.18	1,581.51	1,617.80	1,651.49	1,686.51	1,717.47	1,748.38	1,779.06	1,809.74	1,967.42	2,128.28	2,293.97	2,467.95
AGE UNDER 19 YEARS	37.80%	36.11%	35.96%	35.75%	35.42%	35.13%	34.84%	34.60%	34.31%	33.99%	32.47%	31.07%	28.89%	27.61%
AGE 20 TO 34 YEARS	22.60%	21.36%	21.71%	21.90%	21.82%	21.66%	21.53%	21.37%	21.29%	21.27%	20.77%	20.01%	20.61%	20.20%
AGE 35 TO 49 YEARS	17.93%	19.50%	18.97%	18.85%	18.90%	18.98%	19.03%	19.11%	19.17%	19.16%	19.52%	20.16%	19.86%	19.71%
AGE 50 TO 64 YEARS	11.33%	12.33%	12.78%	13.01%	13.39%	13.78%	14.14%	14.46%	14.72%	14.97%	15.71%	15.95%	16.39%	16.92%
AGE 65 YEARS AND OVER	10.34%	10.70%	10.58%	10.50%	10.47%	10.46%	10.46%	10.47%	10.51%	10.61%	11.53%	12.81%	14.24%	15.56%
MEDIAN AGE OF POPULATION (YEARS)	29.89	32.65	33.01	33.12	33.50	33.88	34.26	34.61	34.94	35.28	36.59	37.90	39.52	41.06
WHITE POPULATION	25.27%	20.45%	19.16%	18.78%	18.45%	18.16%	17.89%	17.63%	17.38%	17.15%	16.14%	15.29%	14.61%	14.09%
BLACK POPULATION	1.38%	1.38%	1.29%	1.26%	1.25%	1.24%	1.23%	1.22%	1.21%	1.20%	1.16%	1.13%	1.11%	1.09%
NATIVE AMERICAN POPULATION	0.14%	0.17%	0.18%	0.18%	0.17%	0.17%	0.17%	0.17%	0.17%	0.16%	0.15%	0.14%	0.13%	0.12%
ASIAN AND PACIFIC ISLANDER POP	0.40%	0.73%	0.78%	0.80%	0.81%	0.83%	0.84%	0.85%	0.87%	0.88%	0.92%	0.96%	0.98%	1.01%
HISPANIC POPULATION	72.81%	77.27%	78.59%	78.98%	79.32%	79.61%	79.87%	80.13%	80.38%	80.61%	81.62%	82.48%	83.17%	83.69%
MALE POPULATION	48.53%	48.68%	48.69%	48.71%	48.68%	48.68%	48.67%	48.66%	48.65%	48.64%	48.59%	48.53%	48.44%	48.35%
TOTAL EMPLOYMENT (THOUSANDS)	471.14	640.56	688.24	702.46	716.70	730.94	745.17	759.41	773.64	787.88	859.04	930.22	1,001.40	1,072.57
FARM EMPLOYMENT	3.25%	2.00%	1.89%	1.84%	1.80%	1.76%	1.72%	1.68%	1.65%	1.61%	1.46%	1.33%	1.21%	1.12%
AGRICULTURAL SERVICES, OTHER	2.26%	2.41%	2.55%	2.53%	2.52%	2.50%	2.49%	2.48%	2.46%	2.45%	2.39%	2.35%	2.30%	2.27%
MINING	2.81%	1.58%	1.54%	1.51%	1.49%	1.47%	1.45%	1.42%	1.41%	1.39%	1.30%	1.23%	1.17%	1.11%
CONSTRUCTION	5.68%	6.87%	6.66%	6.66%	6.65%	6.65%	6.65%	6.64%	6.64%	6.64%	6.62%	6.61%	6.60%	6.60%
MANUFACTURING	8.57%	6.37%	4.90%	4.84%	4.79%	4.74%	4.69%	4.65%	4.60%	4.56%	4.36%	4.20%	4.05%	3.93%
TRANSPORT, COMM. & PUBLIC UTIL	3.81%	4.44%	4.29%	4.27%	4.26%	4.25%	4.23%	4.22%	4.21%	4.20%	4.15%	4.11%	4.07%	4.04%
WHOLESALE TRADE	3.93%	3.34%	3.05%	3.02%	2.99%	2.96%	2.93%	2.91%	2.88%	2.86%	2.75%	2.66%	2.58%	2.51%
RETAIL TRADE	19.05%	17.89%	17.78%	17.67%	17.58%	17.48%	17.39%	17.31%	17.22%	17.14%	16.78%	16.47%	16.21%	15.98%
FINANCE, INS. & REAL ESTATE	5.80%	5.67%	6.01%	5.97%	5.93%	5.89%	5.85%	5.81%	5.78%	5.75%	5.59%	5.47%	5.36%	5.26%
SERVICES	24.72%	30.13%	32.73%	32.96%	33.19%	33.40%	33.61%	33.80%	33.99%	34.18%	35.01%	35.71%	36.31%	36.83%
FEDERAL CIVILIAN GOVT	2.53%	1.92%	1.78%	1.76%	1.73%	1.71%	1.68%	1.66%	1.64%	1.62%	1.53%	1.45%	1.38%	1.32%
FEDERAL MILITARY GOVT	1.65%	1.65%	1.44%	1.41%	1.38%	1.36%	1.34%	1.31%	1.29%	1.27%	1.17%	1.09%	1.02%	0.96%
STATE AND LOCAL GOVT	15.95%	15.74%	15.40%	15.55%	15.70%	15.84%	15.97%	16.10%	16.22%	16.34%	16.88%	17.33%	17.72%	18.06%
TOTAL EARNINGS (MILLIONS 1996 $)	10,800.99	16,122.59	18,078.88	18,608.83	19,122.16	19,641.84	20,171.93	20,703.28	21,246.07	21,800.60	24,759.66	28,058.99	31,743.04	35,862.37
FARM EARNINGS	1.32%	1.27%	1.19%	0.98%	0.97%	0.96%	0.95%	0.94%	0.93%	0.92%	0.88%	0.83%	0.79%	0.75%
AGRICULTURAL SERVICES, OTHER	1.24%	1.08%	1.02%	1.01%	1.01%	1.00%	0.99%	0.99%	0.98%	0.97%	0.94%	0.92%	0.90%	0.88%
MINING	4.35%	3.04%	2.96%	3.09%	3.02%	2.95%	2.89%	2.82%	2.76%	2.71%	2.44%	2.21%	2.00%	1.82%
CONSTRUCTION	5.83%	6.52%	6.50%	6.67%	6.65%	6.62%	6.59%	6.56%	6.53%	6.50%	6.36%	6.22%	6.09%	5.96%
MANUFACTURING	11.24%	9.44%	8.24%	8.14%	8.03%	7.93%	7.85%	7.78%	7.71%	7.63%	7.23%	6.79%	6.32%	5.82%
TRANSPORT, COMM. & PUBLIC UTIL	5.58%	6.37%	5.64%	5.61%	5.58%	5.56%	5.53%	5.51%	5.48%	5.46%	5.35%	5.26%	5.17%	5.10%
WHOLESALE TRADE	4.71%	4.45%	4.60%	4.55%	4.49%	4.43%	4.38%	4.33%	4.28%	4.23%	4.00%	3.80%	3.61%	3.44%
RETAIL TRADE	12.55%	11.88%	11.96%	11.87%	11.78%	11.70%	11.63%	11.56%	11.50%	11.44%	11.13%	10.84%	10.56%	10.29%
FINANCE, INS. & REAL ESTATE	3.83%	4.90%	5.41%	5.39%	5.40%	5.41%	5.41%	5.42%	5.42%	5.42%	5.44%	5.46%	5.47%	5.48%
SERVICES	22.78%	24.95%	26.51%	26.76%	27.04%	27.31%	27.58%	27.84%	28.11%	28.38%	29.74%	31.15%	32.60%	34.09%
FEDERAL CIVILIAN GOVT	5.72%	4.83%	4.73%	4.68%	4.63%	4.58%	4.52%	4.46%	4.41%	4.35%	4.09%	3.84%	3.62%	3.41%
FEDERAL MILITARY GOVT	2.24%	2.74%	2.56%	2.37%	2.34%	2.31%	2.28%	2.25%	2.23%	2.20%	2.07%	1.94%	1.82%	1.70%
STATE AND LOCAL GOVT	18.60%	18.52%	18.68%	18.88%	19.06%	19.24%	19.39%	19.53%	19.66%	19.79%	20.33%	20.74%	21.04%	21.25%
PERSONAL INCOME (MILLIONS 1996 $)	15,354.71	23,186.51	25,745.65	26,534.84	27,325.92	28,110.62	28,913.42	29,728.96	30,564.67	31,421.16	36,037.74	41,275.27	47,232.58	54,025.27
INCOME PER CAPITA (1996 $)	13,092.03	15,580.45	16,279.13	16,401.79	16,546.21	16,667.96	16,834.90	17,003.70	17,180.24	17,362.23	18,317.26	19,393.71	20,589.88	21,890.76
W&P WEALTH INDEX (U.S. = 100)	65.16	65.20	68.06	69.54	69.36	69.31	69.25	69.20	69.15	69.10	68.93	68.81	68.75	68.75
PERSONS PER HOUSEHOLD (PEOPLE)	3.34	3.29	3.28	3.26	3.25	3.24	3.23	3.22	3.21	3.20	3.17	3.15	3.15	3.17
MEAN HOUSEHOLD INCOME (1996 $)	41,608.62	50,577.77	53,915.69	56,277.77	56,582.31	56,790.23	57,132.85	57,427.38	57,811.54	58,213.31	60,461.77	63,408.15	66,916.85	71,012.23
NUMBER OF HOUSEHOLDS (THOUSANDS)	351.28	451.74	482.89	495.61	507.65	520.28	531.62	542.91	554.10	565.29	621.48	675.50	727.93	779.01
LESS THAN $10,000 (2000 $)	22.00%	17.46%	16.66%	16.41%	16.16%	15.92%	15.67%	15.44%	15.21%	14.98%	13.88%	12.72%	11.33%	9.77%
$10,000 TO $19,999	20.87%	19.58%	18.71%	18.44%	18.18%	17.91%	17.63%	17.37%	17.11%	16.85%	15.62%	14.32%	12.76%	11.01%
$20,000 TO $29,999	15.98%	15.90%	15.55%	15.43%	15.31%	15.17%	15.01%	14.83%	14.65%	14.45%	13.50%	12.46%	11.14%	9.62%
$30,000 TO $44,999	16.69%	17.42%	18.02%	18.23%	18.43%	18.64%	18.84%	19.05%	19.25%	19.44%	20.13%	20.48%	20.10%	18.44%
$45,000 TO $59,999	10.38%	11.21%	11.76%	11.93%	12.10%	12.27%	12.45%	12.64%	12.83%	13.02%	14.02%	15.23%	16.85%	18.90%
$60,000 TO $74,999	5.97%	6.93%	7.26%	7.36%	7.46%	7.57%	7.68%	7.79%	7.90%	8.01%	8.61%	9.35%	10.49%	12.18%
$75,000 TO $99,999	3.94%	5.97%	6.24%	6.32%	6.40%	6.49%	6.58%	6.67%	6.76%	6.86%	7.35%	7.97%	8.94%	10.35%
$100,000 OR MORE	4.17%	5.53%	5.80%	5.87%	5.96%	6.04%	6.13%	6.22%	6.31%	6.40%	6.87%	7.47%	8.38%	9.73%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 13 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-19

Demographic and Employment Baseline Projections for Economic Impact Area TX-2

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	474.95	548.56	571.70	579.63	587.87	596.61	602.86	609.11	615.29	621.49	654.09	687.93	723.40	761.46
AGE UNDER 19 YEARS	31.99%	30.90%	30.30%	29.92%	29.57%	29.24%	28.97%	28.77%	28.55%	28.32%	27.72%	27.70%	27.36%	27.07%
AGE 20 TO 34 YEARS	22.57%	18.42%	19.33%	19.72%	19.85%	19.92%	20.02%	20.16%	20.37%	20.61%	21.02%	19.66%	18.99%	18.65%
AGE 35 TO 49 YEARS	20.11%	23.61%	22.66%	22.28%	22.01%	21.69%	21.38%	20.91%	20.36%	19.82%	18.14%	18.91%	19.74%	20.41%
AGE 50 TO 64 YEARS	13.05%	14.69%	15.59%	15.99%	16.49%	17.06%	17.47%	17.95%	18.40%	18.86%	19.73%	18.81%	17.13%	15.85%
AGE 65 YEARS AND OVER	12.28%	12.37%	12.13%	12.10%	12.08%	12.09%	12.14%	12.21%	12.32%	12.38%	13.39%	14.92%	16.77%	18.03%
MEDIAN AGE OF POPULATION (YEARS)	34.76	37.62	37.69	37.79	37.99	38.21	38.35	38.49	38.61	38.68	38.84	39.34	40.22	41.25
WHITE POPULATION	67.28%	61.90%	59.98%	59.33%	58.84%	58.34%	57.82%	57.32%	56.83%	56.34%	53.88%	51.39%	48.93%	46.47%
BLACK POPULATION	9.05%	8.81%	8.97%	9.10%	9.11%	9.12%	9.13%	9.14%	9.15%	9.18%	9.27%	9.35%	9.43%	9.55%
NATIVE AMERICAN POPULATION	0.24%	0.32%	0.33%	0.34%	0.33%	0.34%	0.33%	0.33%	0.33%	0.33%	0.32%	0.30%	0.28%	0.26%
ASIAN AND PACIFIC ISLANDER POP	0.77%	1.46%	1.99%	2.17%	2.24%	2.32%	2.40%	2.48%	2.56%	2.64%	3.02%	3.38%	3.79%	4.35%
HISPANIC POPULATION	22.66%	27.52%	28.74%	29.07%	29.48%	29.87%	30.31%	30.73%	31.12%	31.51%	33.51%	35.59%	37.56%	39.37%
MALE POPULATION	50.01%	50.31%	50.37%	50.39%	50.40%	50.39%	50.40%	50.40%	50.40%	50.40%	50.38%	50.34%	50.22%	50.10%
TOTAL EMPLOYMENT (THOUSANDS)	237.42	277.18	279.60	284.41	289.19	294.37	299.12	303.86	308.58	313.30	336.81	360.13	383.25	406.15
FARM EMPLOYMENT	9.36%	8.80%	8.90%	8.81%	8.73%	8.64%	8.57%	8.49%	8.42%	8.35%	8.04%	7.78%	7.55%	7.36%
AGRICULTURAL SERVICES, OTHER	1.88%	2.11%	2.28%	2.27%	2.25%	2.23%	2.22%	2.21%	2.19%	2.18%	2.13%	2.09%	2.05%	2.03%
MINING	3.47%	2.54%	2.34%	2.33%	2.33%	2.32%	2.31%	2.31%	2.30%	2.30%	2.28%	2.27%	2.26%	2.25%
CONSTRUCTION	9.28%	9.57%	9.06%	9.07%	9.09%	9.11%	9.12%	9.13%	9.15%	9.16%	9.22%	9.28%	9.34%	9.40%
MANUFACTURING	13.53%	11.99%	10.24%	10.21%	10.17%	10.14%	10.11%	10.08%	10.05%	10.03%	9.90%	9.80%	9.71%	9.64%
TRANSPORT, COMM. & PUBLIC UTIL	4.19%	4.06%	4.16%	4.16%	4.16%	4.16%	4.16%	4.16%	4.16%	4.16%	4.17%	4.17%	4.18%	4.19%
WHOLESALE TRADE	3.44%	3.36%	3.24%	3.24%	3.24%	3.24%	3.23%	3.23%	3.23%	3.22%	3.21%	3.20%	3.19%	3.18%
RETAIL TRADE	15.23%	15.30%	15.66%	15.59%	15.53%	15.47%	15.41%	15.36%	15.31%	15.26%	15.05%	14.86%	14.69%	14.53%
FINANCE, INS. & REAL ESTATE	5.01%	5.83%	6.21%	6.21%	6.22%	6.22%	6.22%	6.22%	6.22%	6.22%	6.23%	6.23%	6.24%	6.26%
SERVICES	21.20%	22.37%	23.65%	23.79%	23.93%	24.06%	24.18%	24.29%	24.40%	24.51%	24.98%	25.36%	25.67%	25.92%
FEDERAL CIVILIAN GOVT	0.53%	0.56%	0.47%	0.47%	0.46%	0.45%	0.45%	0.44%	0.44%	0.43%	0.41%	0.39%	0.37%	0.35%
FEDERAL MILITARY GOVT	0.77%	0.54%	0.54%	0.53%	0.52%	0.51%	0.50%	0.49%	0.49%	0.48%	0.44%	0.41%	0.39%	0.36%
STATE AND LOCAL GOVT	12.10%	12.98%	13.25%	13.32%	13.39%	13.45%	13.51%	13.57%	13.63%	13.69%	13.94%	14.16%	14.35%	14.53%
TOTAL EARNINGS (MILLIONS 1996 $)	6,024.98	7,752.79	7,842.02	7,978.73	8,168.80	8,375.57	8,574.20	8,773.45	8,975.67	9,180.92	10,253.64	11,407.33	12,647.26	13,979.67
FARM EARNINGS	3.05%	3.02%	2.78%	2.75%	2.77%	2.79%	2.81%	2.83%	2.85%	2.88%	2.99%	3.10%	3.22%	3.34%
AGRICULTURAL SERVICES, OTHER	0.99%	1.19%	1.10%	1.05%	1.04%	1.03%	1.03%	1.02%	1.01%	1.01%	0.98%	0.96%	0.95%	0.95%
MINING	4.71%	4.10%	4.02%	4.51%	4.47%	4.42%	4.38%	4.34%	4.30%	4.27%	4.09%	3.93%	3.78%	3.64%
CONSTRUCTION	11.59%	10.98%	9.97%	10.40%	10.40%	10.39%	10.38%	10.36%	10.34%	10.32%	10.24%	10.17%	10.12%	10.07%
MANUFACTURING	26.75%	23.49%	22.75%	22.46%	22.33%	22.23%	22.17%	22.12%	22.06%	21.99%	21.57%	20.99%	20.26%	19.40%
TRANSPORT, COMM. & PUBLIC UTIL	6.48%	6.89%	6.88%	6.47%	6.47%	6.47%	6.47%	6.46%	6.46%	6.46%	6.46%	6.47%	6.49%	6.53%
WHOLESALE TRADE	3.94%	4.43%	4.48%	3.98%	3.97%	3.96%	3.95%	3.94%	3.92%	3.91%	3.85%	3.80%	3.74%	3.69%
RETAIL TRADE	8.89%	9.06%	9.19%	9.16%	9.10%	9.05%	9.00%	8.96%	8.92%	8.88%	8.70%	8.54%	8.40%	8.28%
FINANCE, INS. & REAL ESTATE	2.81%	4.11%	3.99%	4.11%	4.14%	4.17%	4.19%	4.21%	4.23%	4.25%	4.35%	4.44%	4.54%	4.63%
SERVICES	15.92%	17.77%	18.53%	18.83%	18.97%	19.11%	19.23%	19.35%	19.48%	19.61%	20.31%	21.09%	21.94%	22.87%
FEDERAL CIVILIAN GOVT	0.99%	1.03%	0.93%	0.93%	0.92%	0.91%	0.90%	0.89%	0.87%	0.86%	0.81%	0.77%	0.73%	0.69%
FEDERAL MILITARY GOVT	0.39%	0.29%	0.57%	0.37%	0.37%	0.36%	0.36%	0.35%	0.35%	0.35%	0.33%	0.31%	0.29%	0.28%
STATE AND LOCAL GOVT	13.49%	13.65%	14.80%	14.99%	15.05%	15.11%	15.15%	15.17%	15.20%	15.22%	15.34%	15.44%	15.54%	15.63%
PERSONAL INCOME (MILLIONS 1996 $)	8,995.63	12,824.33	13,248.81	13,578.15	13,891.24	14,224.77	14,540.46	14,860.01	15,185.08	15,515.68	17,256.81	19,155.79	21,230.19	23,500.26
INCOME PER CAPITA (1996 $)	18,940.13	23,378.22	23,174.25	23,425.51	23,629.62	23,842.55	24,119.17	24,396.39	24,679.54	24,965.45	26,382.76	27,845.47	29,347.63	30,862.27
W&P WEALTH INDEX (U.S. = 100)	82.36	80.00	80.02	79.21	79.30	79.44	79.56	79.69	79.82	79.94	80.48	80.91	81.23	81.43
PERSONS PER HOUSEHOLD (PEOPLE)	2.82	2.82	2.79	2.78	2.78	2.77	2.76	2.75	2.75	2.74	2.72	2.72	2.74	2.77
MEAN HOUSEHOLD INCOME (1996 $)	46,968.25	56,902.33	56,386.33	56,113.83	56,732.50	57,188.92	57,812.83	58,451.67	59,122.58	59,803.83	63,432.08	67,669.08	72,469.42	77,850.25
NUMBER OF HOUSEHOLDS (THOUSANDS)	168.23	194.83	204.81	208.22	211.77	215.55	218.41	221.23	224.00	226.76	240.49	253.03	264.48	274.90
LESS THAN $10,000 (2000 $)	14.79%	10.45%	10.10%	9.93%	9.75%	9.61%	9.47%	9.33%	9.19%	9.06%	8.33%	7.50%	6.64%	5.80%
$10,000 TO $19,999	15.67%	14.02%	13.58%	13.37%	13.13%	12.94%	12.77%	12.59%	12.41%	12.23%	11.29%	10.22%	9.07%	7.95%
$20,000 TO $29,999	14.50%	13.93%	13.55%	13.34%	13.12%	12.94%	12.77%	12.60%	12.43%	12.26%	11.36%	10.33%	9.20%	8.09%
$30,000 TO $44,999	18.43%	17.72%	17.76%	17.62%	17.56%	17.50%	17.43%	17.35%	17.26%	17.16%	16.47%	15.25%	13.60%	11.94%
$45,000 TO $59,999	14.12%	13.59%	13.84%	13.96%	14.12%	14.24%	14.36%	14.48%	14.59%	14.70%	15.30%	15.99%	15.95%	14.99%
$60,000 TO $74,999	9.74%	10.45%	10.72%	10.90%	11.08%	11.22%	11.37%	11.52%	11.67%	11.83%	12.73%	13.94%	15.53%	17.00%
$75,000 TO $99,999	6.59%	10.11%	10.41%	10.62%	10.81%	10.96%	11.10%	11.26%	11.41%	11.57%	12.46%	13.61%	15.26%	17.41%
$100,000 OR MORE	6.15%	9.73%	10.04%	10.25%	10.43%	10.58%	10.72%	10.87%	11.03%	11.18%	12.05%	13.16%	14.74%	16.82%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 12 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-20

Demographic and Employment Baseline Projections for Economic Impact Area TX-3

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	4,078.98	5,026.48	5,340.67	5,437.10	5,533.80	5,665.75	5,739.75	5,813.67	5,886.89	5,960.20	6,341.43	6,733.60	7,141.18	7,574.15
AGE UNDER 19 YEARS	31.95%	31.56%	31.19%	30.91%	30.76%	30.59%	30.45%	30.31%	30.12%	29.92%	29.23%	29.09%	28.73%	28.29%
AGE 20 TO 34 YEARS	26.44%	22.56%	22.43%	22.39%	22.21%	22.03%	21.90%	21.86%	21.88%	21.95%	22.09%	21.37%	20.91%	20.50%
AGE 35 TO 49 YEARS	21.92%	23.91%	23.19%	22.99%	22.82%	22.62%	22.40%	22.09%	21.79%	21.46%	20.33%	20.18%	20.11%	20.53%
AGE 50 TO 64 YEARS	11.50%	13.54%	14.79%	15.29%	15.75%	16.25%	16.62%	16.99%	17.30%	17.63%	17.94%	17.39%	16.67%	16.12%
AGE 65 YEARS AND OVER	8.18%	8.43%	8.41%	8.43%	8.46%	8.51%	8.62%	8.75%	8.90%	9.04%	10.41%	11.98%	13.58%	14.56%
MEDIAN AGE OF POPULATION (YEARS)	33.65	35.89	35.87	35.93	36.11	36.31	36.47	36.61	36.75	36.84	37.09	37.95	38.94	39.57
WHITE POPULATION	59.17%	49.94%	47.75%	47.07%	46.43%	45.82%	45.21%	44.60%	44.01%	43.44%	40.70%	38.14%	35.78%	33.52%
BLACK POPULATION	18.43%	17.89%	17.61%	17.52%	17.40%	17.28%	17.16%	17.06%	16.96%	16.86%	16.33%	15.75%	15.16%	14.60%
NATIVE AMERICAN POPULATION	0.24%	0.29%	0.29%	0.29%	0.29%	0.29%	0.28%	0.28%	0.28%	0.28%	0.26%	0.24%	0.22%	0.20%
ASIAN AND PACIFIC ISLANDER POP	3.27%	4.95%	5.29%	5.38%	5.50%	5.61%	5.73%	5.84%	5.96%	6.08%	6.65%	7.21%	7.79%	8.47%
HISPANIC POPULATION	18.89%	26.93%	29.07%	29.73%	30.39%	31.00%	31.62%	32.21%	32.79%	33.34%	36.05%	38.65%	41.04%	43.21%
MALE POPULATION	49.55%	49.77%	49.88%	49.91%	49.92%	49.92%	49.92%	49.92%	49.91%	49.91%	49.86%	49.78%	49.67%	49.55%
TOTAL EMPLOYMENT (THOUSANDS)	2,322.69	3,001.89	3,064.36	3,125.52	3,186.72	3,272.69	3,333.08	3,393.48	3,453.88	3,514.28	3,816.31	4,118.50	4,421.00	4,723.95
FARM EMPLOYMENT	0.74%	0.67%	0.67%	0.66%	0.65%	0.64%	0.63%	0.63%	0.62%	0.61%	0.58%	0.56%	0.54%	0.52%
AGRICULTURAL SERVICES, OTHER	0.85%	1.05%	1.22%	1.21%	1.21%	1.21%	1.20%	1.20%	1.19%	1.19%	1.17%	1.15%	1.14%	1.13%
MINING	3.93%	2.79%	2.50%	2.50%	2.50%	2.50%	2.50%	2.49%	2.49%	2.49%	2.48%	2.47%	2.47%	2.46%
CONSTRUCTION	7.28%	7.87%	7.65%	7.64%	7.63%	7.61%	7.60%	7.59%	7.58%	7.57%	7.53%	7.49%	7.46%	7.43%
MANUFACTURING	9.63%	8.74%	7.55%	7.51%	7.47%	7.42%	7.38%	7.35%	7.31%	7.28%	7.12%	6.99%	6.87%	6.77%
TRANSPORT, COMM. & PUBLIC UTIL	6.10%	6.61%	6.07%	6.04%	6.02%	5.99%	5.97%	5.95%	5.93%	5.91%	5.82%	5.74%	5.67%	5.61%
WHOLESALE TRADE	5.79%	5.14%	4.95%	4.93%	4.90%	4.88%	4.85%	4.83%	4.81%	4.79%	4.69%	4.61%	4.54%	4.47%
RETAIL TRADE	15.74%	15.75%	15.98%	15.88%	15.78%	15.69%	15.60%	15.52%	15.43%	15.36%	14.99%	14.69%	14.43%	14.20%
FINANCE, INS. & REAL ESTATE	7.90%	8.02%	8.41%	8.36%	8.30%	8.25%	8.20%	8.15%	8.11%	8.06%	7.86%	7.68%	7.53%	7.40%
SERVICES	30.09%	31.72%	32.99%	33.25%	33.49%	33.73%	33.96%	34.18%	34.39%	34.59%	35.51%	36.30%	36.98%	37.57%
FEDERAL CIVILIAN GOVT	1.26%	1.05%	0.99%	0.97%	0.96%	0.94%	0.93%	0.91%	0.90%	0.89%	0.83%	0.78%	0.73%	0.69%
FEDERAL MILITARY GOVT	0.71%	0.48%	0.49%	0.48%	0.47%	0.46%	0.45%	0.44%	0.43%	0.43%	0.39%	0.36%	0.33%	0.31%
STATE AND LOCAL GOVT	9.96%	10.10%	10.53%	10.58%	10.63%	10.67%	10.71%	10.76%	10.80%	10.84%	11.02%	11.18%	11.32%	11.43%
TOTAL EARNINGS (MILLIONS 1996 $)	80,160.94	137,122.30	142,073.44	145,544.54	149,249.32	154,182.98	157,992.23	161,814.77	165,710.53	169,680.92	190,707.52	213,855.46	239,367.52	267,521.65
FARM EARNINGS	0.10%	0.07%	0.09%	0.07%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.08%	0.09%	0.09%
AGRICULTURAL SERVICES, OTHER	0.40%	0.43%	0.39%	0.39%	0.39%	0.39%	0.39%	0.38%	0.38%	0.38%	0.38%	0.37%	0.37%	0.37%
MINING	8.36%	9.19%	8.85%	8.25%	8.19%	8.14%	8.08%	8.03%	7.97%	7.92%	7.64%	7.36%	7.08%	6.80%
CONSTRUCTION	8.04%	7.39%	7.55%	7.80%	7.78%	7.76%	7.73%	7.70%	7.67%	7.64%	7.51%	7.38%	7.26%	7.14%
MANUFACTURING	13.94%	12.65%	12.06%	12.03%	11.95%	11.88%	11.84%	11.80%	11.76%	11.72%	11.44%	11.07%	10.60%	10.05%
TRANSPORT, COMM. & PUBLIC UTIL	8.52%	11.17%	9.74%	9.75%	9.70%	9.66%	9.62%	9.57%	9.53%	9.49%	9.30%	9.15%	9.01%	8.89%
WHOLESALE TRADE	7.76%	6.70%	6.75%	6.76%	6.71%	6.67%	6.62%	6.58%	6.53%	6.49%	6.28%	6.08%	5.89%	5.71%
RETAIL TRADE	7.97%	7.14%	7.42%	7.38%	7.32%	7.26%	7.21%	7.16%	7.12%	7.07%	6.85%	6.66%	6.47%	6.30%
FINANCE, INS. & REAL ESTATE	6.00%	8.58%	8.53%	8.54%	8.55%	8.56%	8.56%	8.56%	8.56%	8.55%	8.55%	8.55%	8.54%	8.54%
SERVICES	27.55%	27.05%	27.96%	28.30%	28.58%	28.86%	29.12%	29.38%	29.64%	29.90%	31.24%	32.64%	34.08%	35.59%
FEDERAL CIVILIAN GOVT	2.11%	1.62%	1.65%	1.64%	1.62%	1.60%	1.57%	1.55%	1.53%	1.51%	1.40%	1.31%	1.22%	1.14%
FEDERAL MILITARY GOVT	0.31%	0.20%	0.34%	0.35%	0.35%	0.34%	0.34%	0.33%	0.33%	0.32%	0.30%	0.28%	0.27%	0.25%
STATE AND LOCAL GOVT	8.95%	7.80%	8.67%	8.74%	8.78%	8.82%	8.85%	8.88%	8.90%	8.92%	9.01%	9.07%	9.11%	9.13%
PERSONAL INCOME (MILLIONS 1996 $)	94,506.37	156,414.50	161,050.64	165,653.03	169,957.41	175,534.53	179,817.54	184,140.03	188,550.84	193,051.87	216,999.79	243,614.11	273,297.21	306,525.84
INCOME PER CAPITA (1996 $)	23,169.09	31,118.12	30,155.54	30,467.14	30,712.62	30,981.69	31,328.47	31,673.63	32,028.94	32,390.19	34,219.40	36,178.90	38,270.57	40,470.00
W&P WEALTH INDEX (U.S. = 100)	81.93	85.39	85.03	83.88	83.76	83.68	83.59	83.51	83.44	83.36	83.01	82.68	82.36	82.05
PERSONS PER HOUSEHOLD (PEOPLE)	2.77	2.83	2.80	2.80	2.79	2.79	2.78	2.78	2.78	2.77	2.77	2.78	2.81	2.85
MEAN HOUSEHOLD INCOME (1996 $)	48,808.35	63,242.82	62,440.29	61,850.00	62,292.12	62,536.76	62,973.88	63,426.65	63,910.65	64,415.41	67,195.59	70,665.71	74,755.47	79,475.18
NUMBER OF HOUSEHOLDS (THOUSANDS)	1,474.97	1,778.31	1,905.39	1,943.34	1,981.51	2,032.65	2,062.50	2,091.98	2,120.91	2,149.65	2,291.76	2,421.82	2,541.98	2,653.25
LESS THAN $10,000 (2000 $)	12.08%	9.39%	9.19%	9.07%	8.94%	8.82%	8.72%	8.62%	8.46%	8.31%	7.56%	6.80%	6.11%	5.46%
$10,000 TO $19,999	13.54%	11.84%	11.61%	11.47%	11.31%	11.16%	11.03%	10.91%	10.72%	10.53%	9.60%	8.64%	7.78%	6.96%
$20,000 TO $29,999	13.94%	12.87%	12.66%	12.51%	12.35%	12.19%	12.06%	11.92%	11.71%	11.51%	10.49%	9.45%	8.51%	7.63%
$30,000 TO $44,999	18.41%	17.72%	17.62%	17.47%	17.30%	17.13%	16.97%	16.82%	16.56%	16.30%	14.97%	13.56%	12.27%	11.02%
$45,000 TO $59,999	14.15%	13.21%	13.42%	13.52%	13.66%	13.80%	13.90%	14.00%	14.16%	14.29%	14.56%	14.12%	13.10%	12.00%
$60,000 TO $74,999	9.66%	10.12%	10.26%	10.37%	10.49%	10.61%	10.72%	10.83%	11.00%	11.19%	12.16%	13.28%	14.31%	14.76%
$75,000 TO $99,999	7.70%	10.58%	10.74%	10.88%	11.03%	11.17%	11.29%	11.42%	11.62%	11.83%	12.98%	14.43%	15.98%	17.68%
$100,000 OR MORE	10.51%	14.26%	14.50%	14.71%	14.92%	15.12%	15.30%	15.48%	15.76%	16.05%	17.68%	19.72%	21.94%	24.49%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 12 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-21

Demographic and Employment Baseline Projections for Economic Impact Area LA-1

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	321.59	335.84	334.17	334.24	334.83	339.74	340.82	341.91	342.96	344.03	350.31	357.30	365.15	374.25
AGE UNDER 19 YEARS	32.35%	30.79%	29.95%	29.60%	29.39%	29.23%	29.16%	29.11%	28.96%	28.87%	28.69%	28.95%	28.81%	28.63%
AGE 20 TO 34 YEARS	26.04%	21.34%	21.31%	21.25%	21.22%	21.16%	21.08%	21.03%	21.06%	21.07%	20.77%	19.64%	19.45%	19.43%
AGE 35 TO 49 YEARS	18.85%	22.15%	21.68%	21.52%	21.31%	21.07%	20.79%	20.44%	20.07%	19.66%	18.34%	18.46%	18.46%	18.38%
AGE 50 TO 64 YEARS	12.61%	14.35%	15.37%	15.85%	16.25%	16.69%	17.09%	17.45%	17.85%	18.29%	19.22%	18.74%	17.44%	16.45%
AGE 65 YEARS AND OVER	10.15%	11.36%	11.69%	11.78%	11.83%	11.85%	11.89%	11.97%	12.06%	12.11%	12.98%	14.21%	15.83%	17.11%
MEDIAN AGE OF POPULATION (YEARS)	30.63	33.79	34.45	34.69	34.92	35.11	35.27	35.37	35.42	35.40	35.56	36.45	37.26	37.86
WHITE POPULATION	76.23%	75.24%	74.88%	74.90%	74.79%	74.64%	74.51%	74.38%	74.23%	74.10%	73.54%	73.03%	72.44%	71.75%
BLACK POPULATION	20.58%	20.88%	21.03%	20.95%	21.02%	21.11%	21.19%	21.26%	21.34%	21.43%	21.75%	22.03%	22.41%	22.86%
NATIVE AMERICAN POPULATION	0.39%	0.66%	0.64%	0.65%	0.65%	0.66%	0.66%	0.67%	0.68%	0.68%	0.69%	0.70%	0.71%	0.71%
ASIAN AND PACIFIC ISLANDER POP	0.71%	0.85%	0.90%	0.91%	0.93%	0.95%	0.97%	0.99%	1.02%	1.04%	1.14%	1.23%	1.32%	1.43%
HISPANIC POPULATION	2.09%	2.36%	2.55%	2.59%	2.61%	2.64%	2.67%	2.70%	2.73%	2.74%	2.88%	3.01%	3.12%	3.24%
MALE POPULATION	50.09%	49.89%	50.12%	50.18%	50.18%	50.20%	50.20%	50.21%	50.21%	50.22%	50.23%	50.17%	50.16%	50.10%
TOTAL EMPLOYMENT (THOUSANDS)	146.25	170.33	170.71	172.93	175.16	179.08	181.26	183.44	185.63	187.84	198.94	210.23	221.75	233.49
FARM EMPLOYMENT	3.26%	2.49%	2.29%	2.25%	2.21%	2.14%	2.10%	2.07%	2.03%	2.00%	1.84%	1.70%	1.57%	1.46%
AGRICULTURAL SERVICES, OTHER	1.05%	1.36%	1.44%	1.45%	1.46%	1.43%	1.44%	1.45%	1.46%	1.46%	1.50%	1.53%	1.56%	1.59%
MINING	2.20%	1.23%	0.93%	0.92%	0.92%	0.91%	0.90%	0.90%	0.90%	0.90%	0.89%	0.87%	0.86%	0.85%
CONSTRUCTION	6.80%	9.05%	7.91%	7.93%	7.94%	7.98%	7.99%	8.00%	8.02%	8.03%	8.09%	8.13%	8.16%	8.18%
MANUFACTURING	10.84%	8.84%	7.33%	7.28%	7.22%	7.18%	7.12%	7.07%	7.02%	6.96%	6.72%	6.49%	6.28%	6.08%
TRANSPORT, COMM. & PUBLIC UTIL	5.38%	4.86%	4.81%	4.78%	4.74%	4.67%	4.64%	4.61%	4.57%	4.54%	4.40%	4.28%	4.17%	4.06%
WHOLESALE TRADE	3.16%	3.03%	2.99%	2.96%	2.94%	2.92%	2.90%	2.88%	2.86%	2.84%	2.75%	2.67%	2.60%	2.53%
RETAIL TRADE	15.27%	16.04%	17.93%	17.88%	17.84%	17.85%	17.80%	17.76%	17.72%	17.67%	17.47%	17.28%	17.10%	16.93%
FINANCE, INS. & REAL ESTATE	4.14%	4.58%	4.98%	4.98%	4.98%	4.99%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	4.98%
SERVICES	20.79%	25.77%	26.50%	26.74%	26.98%	27.27%	27.50%	27.73%	27.95%	28.17%	29.22%	30.19%	31.11%	31.97%
FEDERAL CIVILIAN GOVT	3.09%	2.57%	2.21%	2.18%	2.15%	2.11%	2.08%	2.05%	2.01%	1.98%	1.83%	1.70%	1.58%	1.47%
FEDERAL MILITARY GOVT	11.90%	5.96%	6.46%	6.38%	6.31%	6.24%	6.17%	6.10%	6.03%	5.96%	5.65%	5.37%	5.11%	4.87%
STATE AND LOCAL GOVT	12.12%	14.21%	14.23%	14.27%	14.31%	14.32%	14.36%	14.40%	14.43%	14.47%	14.64%	14.79%	14.92%	15.04%
TOTAL EARNINGS (MILLIONS 1996 $)	3,991.94	4,777.57	5,296.74	5,513.77	5,609.80	5,769.25	5,868.41	5,967.72	6,068.83	6,171.81	6,716.06	7,313.71	7,971.34	8,696.76
FARM EARNINGS	0.59%	0.31%	0.22%	0.35%	0.35%	0.34%	0.34%	0.34%	0.33%	0.33%	0.31%	0.29%	0.27%	0.25%
AGRICULTURAL SERVICES, OTHER	0.53%	0.60%	0.46%	0.51%	0.51%	0.51%	0.51%	0.52%	0.52%	0.52%	0.54%	0.56%	0.57%	0.59%
MINING	3.30%	2.49%	1.66%	2.21%	2.19%	2.14%	2.12%	2.10%	2.08%	2.06%	1.97%	1.88%	1.79%	1.71%
CONSTRUCTION	6.99%	9.95%	8.14%	8.26%	8.27%	8.30%	8.30%	8.30%	8.30%	8.30%	8.29%	8.28%	8.27%	8.24%
MANUFACTURING	19.52%	18.39%	18.79%	18.73%	18.57%	18.48%	18.38%	18.29%	18.19%	18.09%	17.48%	16.72%	15.85%	14.87%
TRANSPORT, COMM. & PUBLIC UTIL	7.22%	6.80%	6.94%	6.74%	6.70%	6.61%	6.56%	6.52%	6.47%	6.43%	6.25%	6.10%	5.96%	5.85%
WHOLESALE TRADE	3.52%	3.44%	3.50%	3.46%	3.43%	3.40%	3.37%	3.34%	3.31%	3.29%	3.16%	3.05%	2.94%	2.84%
RETAIL TRADE	7.79%	8.02%	8.84%	8.62%	8.60%	8.59%	8.57%	8.56%	8.54%	8.52%	8.44%	8.36%	8.29%	8.21%
FINANCE, INS. & REAL ESTATE	2.82%	3.26%	3.07%	3.02%	3.05%	3.07%	3.09%	3.11%	3.13%	3.14%	3.23%	3.30%	3.36%	3.41%
SERVICES	16.82%	19.51%	20.68%	20.46%	20.72%	21.04%	21.29%	21.55%	21.81%	22.07%	23.48%	25.03%	26.70%	28.50%
FEDERAL CIVILIAN GOVT	4.76%	4.92%	4.40%	4.43%	4.40%	4.34%	4.29%	4.24%	4.19%	4.13%	3.88%	3.63%	3.40%	3.18%
FEDERAL MILITARY GOVT	15.40%	9.07%	10.14%	10.28%	10.22%	10.16%	10.10%	10.04%	9.99%	9.93%	9.62%	9.28%	8.91%	8.52%
STATE AND LOCAL GOVT	10.75%	13.25%	13.15%	12.93%	13.00%	13.02%	13.07%	13.10%	13.14%	13.18%	13.36%	13.53%	13.68%	13.82%
PERSONAL INCOME (MILLIONS 1996 $)	5,274.63	6,466.44	7,150.67	7,348.35	7,462.54	7,658.37	7,778.24	7,899.57	8,023.38	8,149.72	8,821.23	9,565.41	10,391.76	11,311.42
INCOME PER CAPITA (1996 $)	16,401.63	19,254.40	21,398.30	21,985.44	22,287.81	22,541.79	22,822.13	23,104.51	23,394.59	23,689.12	25,180.99	26,771.08	28,459.10	30,224.63
W&P WEALTH INDEX (U.S. = 100)	69.60	65.98	70.46	71.07	71.32	71.45	71.56	71.66	71.76	71.86	72.29	72.63	72.88	73.04
PERSONS PER HOUSEHOLD (PEOPLE)	2.90	2.74	2.72	2.71	2.70	2.69	2.69	2.68	2.67	2.66	2.64	2.63	2.65	2.68
MEAN HOUSEHOLD INCOME (1996 $)	42,255.83	46,835.00	50,833.50	51,801.67	52,484.33	52,879.50	53,422.50	53,973.33	54,545.17	55,130.83	58,235.17	61,870.83	66,015.00	70,676.83
NUMBER OF HOUSEHOLDS (THOUSANDS)	111.08	122.40	122.77	123.23	123.86	126.12	126.89	127.65	128.37	129.10	132.68	135.61	137.96	139.82
LESS THAN $10,000 (2000 $)	18.21%	13.74%	12.78%	12.47%	12.26%	12.08%	11.91%	11.74%	11.58%	11.41%	10.60%	9.49%	8.31%	7.08%
$10,000 TO $19,999	19.26%	16.79%	15.61%	15.23%	14.98%	14.75%	14.55%	14.34%	14.14%	13.94%	12.95%	11.61%	10.18%	8.68%
$20,000 TO $29,999	16.75%	14.90%	13.79%	13.42%	13.18%	12.97%	12.79%	12.61%	12.43%	12.25%	11.38%	10.21%	8.99%	7.66%
$30,000 TO $44,999	18.06%	19.05%	19.49%	19.49%	19.49%	19.47%	19.45%	19.42%	19.36%	19.29%	18.64%	17.15%	15.23%	12.97%
$45,000 TO $59,999	12.55%	13.22%	14.27%	14.67%	14.93%	15.15%	15.37%	15.59%	15.82%	16.06%	17.30%	18.91%	20.00%	19.68%
$60,000 TO $74,999	7.06%	8.44%	9.11%	9.36%	9.52%	9.66%	9.80%	9.94%	10.09%	10.24%	11.04%	12.36%	14.13%	16.64%
$75,000 TO $99,999	4.14%	7.75%	8.36%	8.60%	8.75%	8.89%	9.02%	9.14%	9.28%	9.41%	10.12%	11.35%	12.97%	15.29%
$100,000 OR MORE	3.97%	6.11%	6.59%	6.77%	6.89%	7.01%	7.11%	7.20%	7.31%	7.41%	7.96%	8.92%	10.21%	12.01%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 12 parishes in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-22

Demographic and Employment Baseline Projections for Economic Impact Area LA-2

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	496.88%	548.34%	555.40%	558.25%	562.44%	580.30%	583.19%	586.09%	588.93%	591.80%	607.67%	624.70%	643.20%	663.91%
AGE UNDER 19 YEARS	33.50%	31.90%	30.49%	30.00%	29.68%	29.36%	29.14%	28.96%	28.76%	28.59%	28.34%	28.54%	28.46%	28.23%
AGE 20 TO 34 YEARS	24.46%	20.22%	20.88%	21.06%	21.17%	21.26%	21.39%	21.54%	21.69%	21.82%	21.13%	19.34%	18.61%	18.53%
AGE 35 TO 49 YEARS	18.89%	22.59%	22.19%	21.96%	21.61%	21.27%	20.80%	20.28%	19.78%	19.29%	18.26%	19.17%	19.92%	19.50%
AGE 50 TO 64 YEARS	12.54%	13.94%	15.00%	15.49%	16.00%	16.56%	17.05%	17.54%	17.99%	18.47%	19.49%	18.74%	16.89%	16.22%
AGE 65 YEARS AND OVER	10.62%	11.34%	11.44%	11.48%	11.53%	11.55%	11.63%	11.69%	11.78%	11.84%	12.77%	14.21%	16.11%	17.51%
MEDIAN AGE OF POPULATION (YEARS)	30.65	33.77	34.22	34.43	34.57	34.73	34.81	34.85	34.87	34.88	35.51	36.86	37.81	38.40
WHITE POPULATION	71.84%	70.08%	69.54%	69.33%	69.20%	69.07%	68.94%	68.80%	68.65%	68.51%	67.81%	67.17%	66.52%	65.81%
BLACK POPULATION	26.00%	27.35%	27.62%	27.71%	27.80%	27.90%	27.98%	28.08%	28.18%	28.27%	28.75%	29.18%	29.63%	30.14%
NATIVE AMERICAN POPULATION	0.15%	0.25%	0.26%	0.27%	0.27%	0.27%	0.27%	0.27%	0.27%	0.27%	0.27%	0.27%	0.27%	0.26%
ASIAN AND PACIFIC ISLANDER POP	0.73%	1.00%	1.10%	1.15%	1.17%	1.20%	1.23%	1.26%	1.29%	1.32%	1.47%	1.60%	1.75%	1.92%
HISPANIC POPULATION	1.28%	1.32%	1.47%	1.54%	1.55%	1.56%	1.58%	1.60%	1.62%	1.63%	1.70%	1.77%	1.83%	1.87%
MALE POPULATION	48.16%	48.48%	48.66%	48.70%	48.73%	48.77%	48.80%	48.82%	48.84%	48.86%	48.96%	49.02%	49.00%	48.92%
TOTAL EMPLOYMENT (THOUSANDS)	224.02	277.69	286.22	290.62	295.02	307.30	311.44	315.57	319.69	323.81	344.32	364.70	385.00	405.22
FARM EMPLOYMENT	3.61%	2.58%	2.25%	2.22%	2.18%	2.12%	2.09%	2.06%	2.03%	2.00%	1.85%	1.73%	1.62%	1.52%
AGRICULTURAL SERVICES, OTHER	1.13%	1.28%	1.44%	1.45%	1.46%	1.46%	1.46%	1.47%	1.48%	1.49%	1.52%	1.54%	1.57%	1.59%
MINING	9.11%	7.47%	6.90%	6.96%	7.02%	7.10%	7.15%	7.21%	7.27%	7.32%	7.56%	7.78%	7.97%	8.14%
CONSTRUCTION	4.63%	6.53%	6.11%	6.05%	6.00%	5.94%	5.89%	5.84%	5.79%	5.74%	5.52%	5.33%	5.16%	5.00%
MANUFACTURING	9.49%	7.78%	6.69%	6.69%	6.69%	6.68%	6.67%	6.67%	6.67%	6.67%	6.67%	6.66%	6.66%	6.66%
TRANSPORT, COMM. & PUBLIC UTIL	5.49%	5.21%	5.01%	5.00%	5.00%	5.00%	5.00%	5.00%	4.99%	4.99%	4.98%	4.97%	4.96%	4.96%
WHOLESALE TRADE	4.88%	4.61%	4.64%	4.63%	4.61%	4.60%	4.58%	4.57%	4.55%	4.53%	4.47%	4.40%	4.35%	4.30%
RETAIL TRADE	16.39%	17.74%	18.29%	18.24%	18.19%	18.16%	18.11%	18.06%	18.02%	17.98%	17.77%	17.59%	17.44%	17.30%
FINANCE, INS. & REAL ESTATE	4.76%	5.21%	5.44%	5.39%	5.33%	5.28%	5.23%	5.18%	5.13%	5.08%	4.86%	4.67%	4.50%	4.35%
SERVICES	25.86%	28.38%	30.62%	30.79%	30.96%	31.16%	31.31%	31.46%	31.61%	31.76%	32.41%	32.99%	33.50%	33.95%
FEDERAL CIVILIAN GOVT	0.77%	0.72%	0.61%	0.61%	0.60%	0.60%	0.59%	0.59%	0.59%	0.58%	0.56%	0.55%	0.53%	0.52%
FEDERAL MILITARY GOVT	1.35%	1.00%	0.99%	0.98%	0.96%	0.95%	0.93%	0.92%	0.91%	0.90%	0.85%	0.80%	0.76%	0.72%
STATE AND LOCAL GOVT	12.52%	11.47%	10.99%	10.99%	10.99%	10.96%	10.97%	10.97%	10.97%	10.97%	10.98%	10.99%	10.99%	11.00%
TOTAL EARNINGS (MILLIONS 1996 $)	5,516.49	7,661.87	8,352.08	8,616.96	8,803.78	9,240.52	9,427.09	9,613.63	9,803.36	9,996.30	11,010.81	12,114.38	13,315.49	14,624.15
FARM EARNINGS	1.06%	1.03%	0.74%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.82%	0.83%	0.83%	0.84%	0.84%
AGRICULTURAL SERVICES, OTHER	0.67%	0.59%	0.56%	0.53%	0.54%	0.54%	0.54%	0.54%	0.54%	0.55%	0.56%	0.57%	0.58%	0.59%
MINING	16.36%	16.09%	15.82%	16.71%	16.73%	16.76%	16.76%	16.76%	16.75%	16.75%	16.64%	16.45%	16.19%	15.88%
CONSTRUCTION	4.57%	6.43%	6.00%	6.03%	5.96%	5.89%	5.83%	5.76%	5.69%	5.63%	5.35%	5.10%	4.89%	4.70%
MANUFACTURING	11.16%	10.74%	10.10%	9.89%	9.88%	9.87%	9.90%	9.93%	9.96%	9.98%	10.01%	9.91%	9.70%	9.38%
TRANSPORT, COMM. & PUBLIC UTIL	7.38%	7.17%	6.69%	6.88%	6.87%	6.86%	6.85%	6.84%	6.83%	6.82%	6.77%	6.74%	6.71%	6.70%
WHOLESALE TRADE	5.99%	5.70%	5.65%	5.55%	5.52%	5.49%	5.46%	5.42%	5.39%	5.36%	5.20%	5.05%	4.92%	4.79%
RETAIL TRADE	9.62%	9.92%	10.53%	10.37%	10.30%	10.23%	10.18%	10.13%	10.07%	10.02%	9.79%	9.57%	9.37%	9.19%
FINANCE, INS. & REAL ESTATE	3.38%	4.15%	4.08%	4.01%	4.00%	3.98%	3.96%	3.93%	3.91%	3.89%	3.78%	3.69%	3.61%	3.53%
SERVICES	25.04%	24.71%	25.97%	25.92%	26.11%	26.35%	26.53%	26.71%	26.90%	27.09%	28.11%	29.25%	30.48%	31.82%
FEDERAL CIVILIAN GOVT	1.53%	1.45%	1.29%	1.28%	1.27%	1.27%	1.26%	1.25%	1.25%	1.24%	1.20%	1.16%	1.13%	1.09%
FEDERAL MILITARY GOVT	0.65%	0.53%	0.98%	0.51%	0.50%	0.50%	0.49%	0.49%	0.49%	0.48%	0.46%	0.44%	0.43%	0.41%
STATE AND LOCAL GOVT	12.59%	11.50%	11.60%	11.49%	11.49%	11.45%	11.44%	11.42%	11.40%	11.39%	11.31%	11.23%	11.16%	11.10%
PERSONAL INCOME (MILLIONS 1996 $)	7,879.26	10,950.32	11,782.45	12,087.79	12,321.09	12,858.54	13,083.04	13,310.07	13,541.45	13,777.36	15,027.56	16,405.99	17,927.96	19,611.90
INCOME PER CAPITA (1996 $)	15,857.52	19,969.80	21,214.19	21,652.90	21,906.65	22,158.58	22,433.58	22,709.90	22,993.23	23,280.60	24,729.97	26,262.06	27,873.11	29,539.86
W&P WEALTH INDEX (U.S. = 100)	67.30	67.64	71.85	72.24	72.20	72.25	72.28	72.32	72.35	72.38	72.52	72.60	72.64	72.62
PERSONS PER HOUSEHOLD (PEOPLE)	2.84	2.72	2.70	2.69	2.68	2.67	2.67	2.66	2.65	2.65	2.62	2.62	2.63	2.66
MEAN HOUSEHOLD INCOME (1996 $)	41,215.57	48,684.43	51,867.43	52,716.14	53,168.43	53,512.71	54,010.86	54,521.86	55,057.29	55,607.43	58,550.14	62,056.86	66,090.43	70,687.57
NUMBER OF HOUSEHOLDS (THOUSANDS)	174.79	201.47	205.72	207.45	209.65	217.04	218.74	220.40	222.01	223.61	231.50	238.29	244.17	249.23
LESS THAN $10,000 (2000 $)	23.20%	18.15%	17.10%	16.75%	16.52%	16.25%	16.02%	15.78%	15.55%	15.32%	14.19%	12.90%	11.42%	10.00%
$10,000 TO $19,999	19.96%	17.27%	16.31%	15.97%	15.74%	15.52%	15.30%	15.09%	14.88%	14.67%	13.63%	12.41%	11.00%	9.63%
$20,000 TO $29,999	15.03%	14.23%	13.72%	13.46%	13.32%	13.18%	13.05%	12.90%	12.76%	12.60%	11.78%	10.74%	9.51%	8.33%
$30,000 TO $44,999	16.95%	17.39%	17.98%	18.11%	18.20%	18.28%	18.35%	18.42%	18.48%	18.52%	18.56%	18.04%	16.73%	15.09%
$45,000 TO $59,999	11.30%	12.34%	13.07%	13.37%	13.56%	13.75%	13.94%	14.13%	14.33%	14.53%	15.63%	17.00%	18.43%	18.92%
$60,000 TO $74,999	5.69%	7.97%	8.44%	8.64%	8.76%	8.89%	9.01%	9.14%	9.27%	9.40%	10.11%	11.14%	12.66%	14.60%
$75,000 TO $99,999	3.61%	6.51%	6.88%	7.05%	7.15%	7.26%	7.36%	7.47%	7.57%	7.68%	8.27%	9.11%	10.37%	11.97%
$100,000 OR MORE	4.26%	6.15%	6.50%	6.66%	6.76%	6.87%	6.97%	7.07%	7.17%	7.28%	7.84%	8.66%	9.89%	11.46%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 7 parishes in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-23

Demographic and Employment Baseline Projections for Economic Impact Area LA-3

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	910.13%	1009.62%	1028.56%	1037.30%	1045.93%	1149.95%	1156.01%	1162.08%	1168.03%	1174.01%	1206.74%	1241.59%	1279.24%	1321.31%
AGE UNDER 19 YEARS	32.83%	31.32%	29.71%	29.25%	29.01%	28.77%	28.63%	28.56%	28.43%	28.32%	28.09%	28.44%	28.40%	28.26%
AGE 20 TO 34 YEARS	25.91%	22.07%	22.76%	22.86%	22.85%	22.81%	22.81%	22.77%	22.75%	22.69%	21.51%	20.04%	19.62%	19.61%
AGE 35 TO 49 YEARS	20.25%	22.54%	22.00%	21.83%	21.54%	21.19%	20.87%	20.50%	20.21%	19.90%	19.51%	19.80%	19.92%	19.15%
AGE 50 TO 64 YEARS	11.77%	14.14%	15.44%	15.93%	16.42%	16.95%	17.31%	17.66%	17.96%	18.33%	18.80%	18.07%	16.89%	16.81%
AGE 65 YEARS AND OVER	9.24%	9.92%	10.09%	10.13%	10.18%	10.27%	10.38%	10.51%	10.64%	10.76%	12.09%	13.64%	15.18%	16.16%
MEDIAN AGE OF POPULATION (YEARS)	30.09	33.31	34.03	34.25	34.46	34.72	34.87	35.03	35.19	35.33	36.06	37.11	37.89	38.32
WHITE POPULATION	69.51%	66.94%	66.17%	65.87%	65.59%	63.26%	63.08%	62.89%	62.70%	62.51%	61.63%	60.74%	59.80%	58.69%
BLACK POPULATION	27.19%	29.13%	29.54%	29.71%	29.93%	32.24%	32.35%	32.46%	32.58%	32.70%	33.24%	33.81%	34.44%	35.24%
NATIVE AMERICAN POPULATION	0.95%	1.03%	1.04%	1.05%	1.05%	0.93%	0.94%	0.95%	0.96%	0.97%	1.03%	1.08%	1.14%	1.20%
ASIAN AND PACIFIC ISLANDER POP	0.91%	1.23%	1.30%	1.33%	1.36%	1.43%	1.46%	1.49%	1.52%	1.54%	1.67%	1.79%	1.91%	2.03%
HISPANIC POPULATION	1.45%	1.67%	1.95%	2.04%	2.08%	2.14%	2.17%	2.21%	2.24%	2.27%	2.43%	2.58%	2.71%	2.84%
MALE POPULATION	48.43%	48.55%	48.65%	48.67%	48.68%	48.63%	48.66%	48.68%	48.70%	48.73%	48.83%	48.88%	48.89%	48.91%
TOTAL EMPLOYMENT (THOUSANDS)	445.22	575.08	589.84	598.32	606.81	668.71	675.32	681.90	688.47	695.02	727.31	759.12	790.49	821.58
FARM EMPLOYMENT	1.39%	0.95%	0.82%	0.80%	0.78%	0.77%	0.76%	0.74%	0.72%	0.71%	0.64%	0.58%	0.52%	0.47%
AGRICULTURAL SERVICES, OTHER	1.26%	1.51%	1.80%	1.81%	1.82%	1.82%	1.82%	1.83%	1.84%	1.85%	1.89%	1.93%	1.96%	1.98%
MINING	2.49%	2.00%	1.72%	1.72%	1.72%	1.70%	1.70%	1.71%	1.71%	1.71%	1.73%	1.74%	1.75%	1.76%
CONSTRUCTION	9.06%	9.74%	9.22%	9.19%	9.16%	9.11%	9.08%	9.05%	9.03%	9.00%	8.89%	8.79%	8.71%	8.63%
MANUFACTURING	9.42%	7.87%	7.21%	7.14%	7.07%	6.97%	6.90%	6.84%	6.77%	6.71%	6.43%	6.17%	5.95%	5.74%
TRANSPORT, COMM. & PUBLIC UTIL	5.81%	6.05%	6.29%	6.29%	6.29%	6.24%	6.24%	6.25%	6.25%	6.25%	6.25%	6.26%	6.26%	6.26%
WHOLESALE TRADE	4.40%	4.37%	4.22%	4.17%	4.13%	4.10%	4.06%	4.02%	3.98%	3.95%	3.78%	3.63%	3.49%	3.37%
RETAIL TRADE	16.49%	17.32%	17.13%	17.06%	16.99%	16.95%	16.89%	16.82%	16.76%	16.70%	16.42%	16.17%	15.95%	15.75%
FINANCE, INS. & REAL ESTATE	5.91%	6.05%	6.33%	6.30%	6.27%	6.24%	6.21%	6.18%	6.15%	6.12%	5.99%	5.88%	5.78%	5.69%
SERVICES	24.27%	26.48%	27.80%	28.10%	28.39%	28.70%	28.98%	29.25%	29.51%	29.76%	30.94%	31.98%	32.91%	33.74%
FEDERAL CIVILIAN GOVT	0.91%	0.72%	0.58%	0.57%	0.57%	0.56%	0.55%	0.55%	0.54%	0.53%	0.50%	0.48%	0.46%	0.44%
FEDERAL MILITARY GOVT	1.28%	0.92%	0.94%	0.92%	0.91%	0.90%	0.89%	0.87%	0.86%	0.85%	0.80%	0.75%	0.71%	0.67%
STATE AND LOCAL GOVT	17.30%	16.02%	15.94%	15.92%	15.90%	15.94%	15.91%	15.89%	15.87%	15.84%	15.74%	15.64%	15.56%	15.48%
TOTAL EARNINGS (MILLIONS 1996 $)	12,197.17	16,892.28	18,553.98	18,900.63	19,263.84	21,324.72	21,653.61	21,980.36	22,313.50	22,652.85	24,444.47	26,410.24	28,569.74	30,947.11
FARM EARNINGS	0.40	0.38	0.29	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.25
AGRICULTURAL SERVICES, OTHER	0.52	0.61	0.55	0.56	0.57	0.57	0.58	0.58	0.58	0.59	0.61	0.63	0.64	0.66
MINING	4.12	3.83	3.44	3.85	3.83	3.75	3.74	3.72	3.71	3.70	3.62	3.54	3.44	3.34
CONSTRUCTION	10.78	11.49	10.69	11.02	10.98	10.92	10.88	10.83	10.79	10.74	10.53	10.34	10.17	10.00
MANUFACTURING	17.47	14.68	15.29	14.87	14.69	14.47	14.35	14.24	14.12	14.00	13.34	12.60	11.80	10.94
TRANSPORT, COMM. & PUBLIC UTIL	7.56	8.41	8.39	8.23	8.24	8.19	8.19	8.20	8.20	8.21	8.24	8.26	8.29	8.31
WHOLESALE TRADE	5.45	5.61	5.60	5.49	5.42	5.38	5.32	5.26	5.20	5.15	4.88	4.64	4.41	4.20
RETAIL TRADE	8.97	9.34	9.48	9.44	9.38	9.36	9.32	9.27	9.23	9.18	8.97	8.77	8.58	8.39
FINANCE, INS. & REAL ESTATE	4.37	5.36	5.01	5.00	5.01	5.04	5.05	5.06	5.06	5.07	5.10	5.12	5.13	5.14
SERVICES	21.86	22.19	22.88	23.21	23.54	23.92	24.23	24.55	24.86	25.17	26.78	28.42	30.12	31.86
FEDERAL CIVILIAN GOVT	1.68	1.35	1.16	1.15	1.14	1.14	1.12	1.11	1.10	1.09	1.03	0.97	0.92	0.87
FEDERAL MILITARY GOVT	0.61	0.50	0.90	0.52	0.52	0.51	0.51	0.51	0.50	0.50	0.48	0.47	0.45	0.43
STATE AND LOCAL GOVT	16.20	16.24	16.34	16.41	16.40	16.48	16.45	16.41	16.37	16.34	16.16	15.98	15.80	15.62
PERSONAL INCOME (MILLIONS1996 $)	16,048.92	22,076.61	24,064.70	24,536.13	24,997.03	27,663.56	28,071.43	28,482.87	28,903.51	29,333.17	31,621.75	34,170.34	37,013.41	40,192.19
INCOME PER CAPITA (1996 $)	17,633.65	21,866.21	23,396.56	23,653.75	23,899.38	24,056.37	24,282.95	24,510.21	24,745.50	24,985.54	26,204.28	27,521.41	28,933.81	30,418.56
W&P WEALTH INDEX (U.S. = 100)	72.49	74.09	79.12	78.14	78.05	77.98	77.91	77.84	77.78	77.72	77.43	77.14	76.85	76.56
PERSONS PER HOUSEHOLD (PEOPLE)	2.88	2.75	2.72	2.71	2.70	2.69	2.68	2.67	2.66	2.65	2.62	2.60	2.60	2.62
MEAN HOUSEHOLD INCOME (1996 $)	46,555.00	55,713.90	60,103.20	59,584.00	59,945.10	60,125.20	60,487.10	60,869.00	61,275.30	61,696.80	64,030.50	66,952.90	70,386.20	74,328.30
NUMBER OF HOUSEHOLDS (THOUSANDS)	316.54	367.49	377.85	382.61	387.30	427.73	431.63	435.45	439.18	442.88	461.19	477.36	491.91	505.15
LESS THAN $10,000 (2000 $)	18.09%	14.00%	13.18%	12.97%	12.73%	12.60%	12.43%	12.26%	12.09%	11.93%	11.14%	10.34%	9.42%	8.44%
$10,000 TO $19,999	17.08%	14.92%	14.08%	13.86%	13.61%	13.44%	13.26%	13.09%	12.92%	12.74%	11.93%	11.08%	10.10%	9.05%
$20,000 TO $29,999	14.75%	13.57%	12.85%	12.66%	12.43%	12.28%	12.12%	11.96%	11.81%	11.65%	10.92%	10.16%	9.28%	8.31%
$30,000 TO $44,999	18.12%	17.78%	17.89%	17.81%	17.75%	17.69%	17.62%	17.54%	17.45%	17.33%	16.61%	15.67%	14.42%	12.96%
$45,000 TO $59,999	12.97%	13.03%	13.82%	14.02%	14.27%	14.43%	14.62%	14.81%	15.00%	15.19%	16.12%	16.95%	17.43%	17.17%
$60,000 TO $74,999	7.86%	9.80%	10.40%	10.58%	10.78%	10.91%	11.06%	11.21%	11.36%	11.52%	12.33%	13.29%	14.60%	16.32%
$75,000 TO $99,999	5.53%	8.82%	9.32%	9.49%	9.67%	9.77%	9.91%	10.04%	10.17%	10.31%	11.02%	11.87%	13.05%	14.64%
$100,000 OR MORE	5.59%	8.07%	8.47%	8.61%	8.76%	8.87%	8.98%	9.09%	9.21%	9.33%	9.93%	10.65%	11.71%	13.10%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 10 parishes in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-24

Demographic and Employment Baseline Projections for Economic Impact Area LA-4

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	1,328.17	1,380.84	1,380.29	1,383.15	1,385.14	1,054.72	1,077.29	1,099.87	1,122.30	1,144.78	1,261.03	1,380.13	1,502.83	1,631.03
AGE UNDER 19 YEARS	30.62%	29.63%	28.71%	28.34%	28.14%	27.85%	27.69%	27.56%	27.45%	27.34%	27.13%	27.46%	27.42%	27.39%
AGE 20 TO 34 YEARS	24.73%	20.54%	20.36%	20.38%	20.37%	20.24%	20.23%	20.24%	20.31%	20.37%	20.01%	18.64%	18.16%	18.12%
AGE 35 TO 49 YEARS	20.96%	23.35%	22.70%	22.44%	22.12%	21.87%	21.52%	21.11%	20.66%	20.20%	18.92%	19.13%	19.31%	19.15%
AGE 50 TO 64 YEARS	12.63%	15.00%	16.68%	17.30%	17.87%	18.61%	19.05%	19.45%	19.85%	20.24%	20.57%	19.52%	18.03%	17.23%
AGE 65 YEARS AND OVER	11.06%	11.49%	11.54%	11.54%	11.51%	11.43%	11.52%	11.63%	11.74%	11.86%	13.36%	15.26%	17.09%	18.10%
MEDIAN AGE OF POPULATION (YEARS)	31.35	34.71	35.38	35.59	35.76	35.96	36.05	36.11	36.14	36.15	36.50	37.43	38.24	38.64
WHITE POPULATION	59.70%	55.62%	54.76%	54.52%	54.26%	54.54%	54.25%	53.95%	53.66%	53.37%	52.04%	50.87%	49.72%	48.49%
BLACK POPULATION	34.31%	37.50%	37.93%	38.07%	38.23%	37.58%	37.80%	38.05%	38.29%	38.53%	39.65%	40.64%	41.65%	42.74%
NATIVE AMERICAN POPULATION	0.29%	0.37%	0.37%	0.38%	0.38%	0.33%	0.34%	0.34%	0.34%	0.35%	0.36%	0.36%	0.37%	0.38%
ASIAN AND PACIFIC ISLANDER POP	1.58%	2.20%	2.31%	2.34%	2.40%	2.58%	2.62%	2.67%	2.72%	2.76%	2.97%	3.14%	3.30%	3.47%
HISPANIC POPULATION	4.11%	4.31%	4.63%	4.70%	4.73%	4.98%	4.98%	4.99%	4.99%	4.99%	4.98%	4.98%	4.96%	4.92%
MALE POPULATION	47.68%	47.88%	47.99%	48.02%	48.04%	48.10%	48.10%	48.11%	48.13%	48.14%	48.20%	48.22%	48.19%	48.14%
TOTAL EMPLOYMENT (THOUSANDS)	701.68	792.64	800.07	810.53	820.99	591.35	610.34	629.42	648.58	667.82	765.82	866.01	968.13	1,071.88
FARM EMPLOYMENT (Percent)	0.44%	0.36%	0.32%	0.31%	0.31%	0.47%	0.45%	0.43%	0.41%	0.40%	0.33%	0.28%	0.24%	0.20%
AGRICULTURAL SERVICES, OTHER	0.82%	1.11%	1.30%	1.31%	1.32%	1.37%	1.37%	1.38%	1.39%	1.39%	1.42%	1.46%	1.49%	1.52%
MINING	2.98%	1.75%	1.47%	1.46%	1.44%	1.16%	1.16%	1.16%	1.16%	1.16%	1.17%	1.17%	1.18%	1.18%
CONSTRUCTION	4.97%	5.73%	5.57%	5.52%	5.47%	6.15%	6.05%	5.95%	5.86%	5.78%	5.40%	5.09%	4.83%	4.61%
MANUFACTURING	7.45%	6.39%	5.87%	5.82%	5.76%	6.58%	6.47%	6.36%	6.25%	6.15%	5.71%	5.35%	5.03%	4.75%
TRANSPORT, COMM. & PUBLIC UTIL	7.38%	6.29%	5.78%	5.74%	5.71%	5.32%	5.31%	5.29%	5.27%	5.26%	5.19%	5.13%	5.07%	5.01%
WHOLESALE TRADE	5.23%	4.86%	4.41%	4.40%	4.38%	4.91%	4.86%	4.82%	4.77%	4.73%	4.54%	4.37%	4.22%	4.08%
RETAIL TRADE	17.10%	17.30%	17.50%	17.44%	17.37%	18.62%	18.49%	18.37%	18.24%	18.13%	17.58%	17.09%	16.64%	16.23%
FINANCE, INS. & REAL ESTATE	6.88%	7.11%	7.57%	7.53%	7.50%	7.96%	7.90%	7.85%	7.80%	7.75%	7.51%	7.29%	7.07%	6.87%
SERVICES	30.87%	33.88%	34.91%	35.18%	35.45%	33.80%	34.21%	34.60%	34.98%	35.34%	36.94%	38.28%	39.44%	40.45%
FEDERAL CIVILIAN GOVT	2.45%	2.13%	2.00%	1.98%	1.96%	1.24%	1.26%	1.28%	1.30%	1.32%	1.40%	1.47%	1.53%	1.58%
FEDERAL MILITARY GOVT	1.84%	1.42%	1.47%	1.45%	1.43%	1.18%	1.17%	1.17%	1.16%	1.15%	1.12%	1.10%	1.08%	1.06%
STATE AND LOCAL GOVT	11.60%	11.66%	11.83%	11.86%	11.89%	11.25%	11.30%	11.34%	11.39%	11.44%	11.69%	11.94%	12.19%	12.44%
TOTAL EARNINGS (MILLIONS 1996 $)	20,831.68	25,521.57	27,830.83	28,638.55	29,184.81	20,042.06	20,879.47	21,727.76	22,594.52	23,481.67	28,257.72	33,630.42	39,678.76	46,488.37
FARM EARNINGS (Percent)	0.08%	0.11%	0.07%	0.08%	0.08%	0.12%	0.12%	0.12%	0.12%	0.11%	0.10%	0.09%	0.08%	0.07%
AGRICULTURAL SERVICES, OTHER	0.45%	0.53%	0.51%	0.51%	0.52%	0.55%	0.55%	0.55%	0.55%	0.56%	0.56%	0.57%	0.58%	0.59%
MINING	6.18%	4.64%	3.93%	4.08%	4.01%	2.99%	2.99%	2.99%	2.98%	2.98%	2.94%	2.88%	2.81%	2.72%
CONSTRUCTION	5.33%	6.25%	6.04%	6.18%	6.12%	6.98%	6.84%	6.70%	6.57%	6.44%	5.90%	5.45%	5.08%	4.76%
MANUFACTURING	11.39%	9.85%	9.98%	10.01%	9.92%	12.33%	12.10%	11.90%	11.70%	11.50%	10.52%	9.58%	8.67%	7.79%
TRANSPORT, COMM. & PUBLIC UTIL	9.83%	8.32%	7.63%	7.57%	7.52%	6.98%	6.96%	6.93%	6.91%	6.89%	6.77%	6.66%	6.55%	6.44%
WHOLESALE TRADE	6.45%	6.28%	5.72%	5.66%	5.62%	6.47%	6.38%	6.29%	6.21%	6.13%	5.75%	5.41%	5.10%	4.81%
RETAIL TRADE	9.38%	9.07%	9.13%	8.99%	8.94%	9.99%	9.89%	9.79%	9.70%	9.61%	9.17%	8.76%	8.38%	8.02%
FINANCE, INS. & REAL ESTATE	5.84%	6.75%	6.73%	6.65%	6.66%	6.76%	6.77%	6.77%	6.77%	6.77%	6.74%	6.68%	6.59%	6.47%
SERVICES	28.72%	31.54%	32.77%	32.82%	33.16%	31.47%	31.98%	32.46%	32.94%	33.41%	35.66%	37.83%	39.94%	42.02%
FEDERAL CIVILIAN GOVT	4.35%	4.30%	4.03%	3.98%	3.96%	2.64%	2.68%	2.72%	2.76%	2.79%	2.93%	3.03%	3.10%	3.13%
FEDERAL MILITARY GOVT	1.46%	1.25%	1.64%	1.72%	1.70%	1.16%	1.18%	1.19%	1.21%	1.22%	1.28%	1.32%	1.34%	1.34%
STATE AND LOCAL GOVT	10.54%	11.11%	11.82%	11.74%	11.78%	11.54%	11.56%	11.57%	11.59%	11.60%	11.67%	11.74%	11.79%	11.84%
PERSONAL INCOME (MILLIONS 1996 $)	26,586.80	33,451.57	36,278.34	36,951.74	37,489.37	28,700.60	29,649.58	30,613.24	31,595.95	32,599.91	37,972.69	43,971.62	50,687.83	58,223.42
INCOME PER CAPITA (1996 $)	20,017.59	24,225.52	26,283.11	26,715.61	27,065.40	27,211.50	27,522.43	27,833.48	28,152.81	28,476.91	30,112.47	31,860.51	33,728.28	35,697.38
W&P WEALTH INDEX (U.S. = 100)	81.11	77.45	81.94	81.81	81.73	81.68	81.64	81.61	81.57	81.53	81.34	81.13	80.89	80.62
PERSONS PER HOUSEHOLD (PEOPLE)	2.73	2.64	2.62	2.61	2.60	2.62	2.60	2.59	2.58	2.57	2.52	2.50	2.49	2.49
MEAN HOUSEHOLD INCOME (1996 $)	52,350.33	58,347.78	62,229.22	62,529.78	62,884.89	63,083.33	63,472.22	63,875.44	64,305.78	64,754.00	67,190.44	70,224.22	73,772.89	77,838.56
NUMBER OF HOUSEHOLDS (THOUSANDS)	487.05	522.69	526.66	529.90	532.82	403.00	413.66	424.32	434.92	445.55	499.60	552.48	604.19	654.50
LESS THAN $10,000 (2000 $)	18.30%	14.33%	13.18%	12.86%	12.64%	10.78%	10.69%	10.60%	10.51%	10.41%	9.95%	9.35%	8.58%	7.63%
$10,000 TO $19,999	16.73%	15.10%	14.00%	13.71%	13.50%	12.54%	12.41%	12.27%	12.13%	11.99%	11.34%	10.55%	9.61%	8.51%
$20,000 TO $29,999	14.72%	14.16%	13.26%	13.02%	12.85%	12.46%	12.31%	12.16%	12.00%	11.85%	11.14%	10.31%	9.36%	8.26%
$30,000 TO $44,999	17.90%	17.53%	17.79%	17.85%	17.82%	17.38%	17.30%	17.22%	17.13%	17.02%	16.51%	15.71%	14.58%	12.96%
$45,000 TO $59,999	12.65%	12.46%	13.34%	13.57%	13.74%	14.35%	14.48%	14.62%	14.76%	14.91%	15.49%	15.78%	15.96%	15.73%
$60,000 TO $74,999	7.73%	9.03%	9.71%	9.89%	10.04%	10.93%	11.04%	11.15%	11.27%	11.40%	12.01%	12.92%	14.06%	15.52%
$75,000 TO $99,999	5.45%	8.30%	8.94%	9.12%	9.27%	10.36%	10.46%	10.56%	10.66%	10.77%	11.30%	12.15%	13.32%	15.01%
$100,000 OR MORE	6.52%	9.09%	9.78%	9.98%	10.14%	11.20%	11.31%	11.42%	11.54%	11.65%	12.26%	13.22%	14.52%	16.39%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 9 parishes in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-25

Demographic and Employment Baseline Projections for Economic Impact Area MS-1

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	389.02	459.82	467.30	473.61	478.42	475.94	481.50	487.07	492.57	498.09	526.98	556.84	588.00	621.26
AGE UNDER 19 YEARS	31.48%	29.70%	28.65%	28.30%	28.10%	27.84%	27.67%	27.55%	27.41%	27.26%	26.91%	27.18%	27.19%	27.10%
AGE 20 TO 34 YEARS	24.06%	20.71%	20.56%	20.51%	20.42%	20.36%	20.31%	20.27%	20.33%	20.47%	20.23%	19.05%	18.58%	18.47%
AGE 35 TO 49 YEARS	19.90%	22.66%	22.39%	22.24%	22.03%	21.76%	21.49%	21.13%	20.74%	20.18%	18.68%	18.78%	19.03%	19.08%
AGE 50 TO 64 YEARS	13.74%	15.62%	16.64%	17.04%	17.38%	17.86%	18.22%	18.56%	18.86%	19.34%	20.08%	19.49%	18.04%	16.92%
AGE 65 YEARS AND OVER	10.82%	11.31%	11.76%	11.91%	12.06%	12.18%	12.31%	12.49%	12.66%	12.75%	14.09%	15.51%	17.16%	18.43%
MEDIAN AGE OF POPULATION (YEARS)	31.98	34.68	35.16	35.44	35.68	36.02	36.19	36.36	36.50	36.58	37.11	37.90	38.45	38.71
WHITE POPULATION	78.99%	77.03%	76.24%	76.03%	75.85%	75.10%	74.92%	74.75%	74.57%	74.39%	73.52%	72.68%	71.84%	70.96%
BLACK POPULATION	17.99%	18.55%	19.10%	19.16%	19.28%	19.94%	20.04%	20.14%	20.24%	20.35%	20.87%	21.37%	21.86%	22.39%
NATIVE AMERICAN POPULATION	0.27%	0.44%	0.46%	0.49%	0.48%	0.48%	0.48%	0.48%	0.48%	0.48%	0.47%	0.47%	0.46%	0.45%
ASIAN AND PACIFIC ISLANDER POP	1.45%	1.81%	1.88%	1.92%	1.96%	1.99%	2.03%	2.07%	2.10%	2.14%	2.31%	2.47%	2.62%	2.80%
HISPANIC POPULATION	1.31%	2.16%	2.32%	2.40%	2.43%	2.48%	2.52%	2.57%	2.61%	2.64%	2.84%	3.02%	3.21%	3.40%
MALE POPULATION	49.46%	49.76%	49.88%	49.88%	49.89%	49.87%	49.90%	49.91%	49.93%	49.94%	49.96%	49.98%	49.99%	49.99%
TOTAL EMPLOYMENT (THOUSANDS)	177.51	244.55	243.45	247.48	251.51	248.27	252.58	256.89	261.20	265.51	287.15	308.92	330.79	352.74
FARM EMPLOYMENT	1.62%	1.44%	1.43%	1.41%	1.38%	1.46%	1.43%	1.40%	1.36%	1.34%	1.20%	1.08%	0.98%	0.89%
AGRICULTURAL SERVICES, OTHER	1.27%	1.39%	1.48%	1.49%	1.50%	1.51%	1.51%	1.52%	1.52%	1.52%	1.54%	1.55%	1.56%	1.56%
MINING	0.23%	0.12%	0.11%	0.11%	0.11%	0.12%	0.11%	0.11%	0.11%	0.11%	0.11%	0.10%	0.10%	0.10%
CONSTRUCTION	4.79%	7.40%	6.66%	6.65%	6.64%	6.64%	6.63%	6.61%	6.60%	6.59%	6.52%	6.46%	6.40%	6.35%
MANUFACTURING	17.96%	11.31%	9.75%	9.66%	9.57%	9.42%	9.34%	9.26%	9.18%	9.11%	8.77%	8.48%	8.22%	8.00%
TRANSPORT, COMM. & PUBLIC UTIL	4.20%	4.00%	4.20%	4.18%	4.16%	4.18%	4.17%	4.15%	4.13%	4.12%	4.05%	3.98%	3.93%	3.88%
WHOLESALE TRADE	2.24%	2.01%	1.94%	1.93%	1.91%	1.92%	1.91%	1.90%	1.89%	1.88%	1.83%	1.80%	1.77%	1.74%
RETAIL TRADE	16.82%	17.23%	17.86%	17.82%	17.77%	17.85%	17.81%	17.76%	17.72%	17.68%	17.50%	17.35%	17.23%	17.12%
FINANCE, INS. & REAL ESTATE	4.28%	4.77%	5.18%	5.17%	5.15%	5.15%	5.13%	5.12%	5.10%	5.09%	5.02%	4.96%	4.90%	4.85%
SERVICES	19.70%	28.44%	28.41%	28.74%	29.05%	29.06%	29.38%	29.68%	29.98%	30.27%	31.59%	32.73%	33.73%	34.62%
FEDERAL CIVILIAN GOVT	5.53%	3.73%	3.64%	3.58%	3.53%	3.40%	3.35%	3.31%	3.27%	3.23%	3.04%	2.88%	2.73%	2.60%
FEDERAL MILITARY GOVT	9.08%	6.64%	7.28%	7.17%	7.06%	6.92%	6.83%	6.73%	6.64%	6.54%	6.13%	5.76%	5.44%	5.15%
STATE AND LOCAL GOVT	12.28%	11.52%	12.05%	12.11%	12.16%	12.36%	12.41%	12.45%	12.49%	12.53%	12.71%	12.87%	13.02%	13.14%
TOTAL EARNINGS (MILLIONS 1996 $)	4,535.88	7,040.93	7,364.91	7,533.37	7,700.43	7,593.12	7,775.11	7,957.71	8,143.57	8,332.79	9,332.11	10,426.41	11,626.45	12,944.79
FARM EARNINGS	0.19%	0.08%	0.00%	0.17%	0.16%	0.18%	0.18%	0.17%	0.17%	0.16%	0.15%	0.14%	0.12%	0.11%
AGRICULTURAL SERVICES, OTHER	0.63%	0.57%	0.50%	0.51%	0.51%	0.52%	0.52%	0.52%	0.52%	0.52%	0.53%	0.54%	0.54%	0.55%
MINING	0.22%	0.16%	0.16%	0.14%	0.14%	0.14%	0.14%	0.14%	0.13%	0.13%	0.12%	0.11%	0.11%	0.10%
CONSTRUCTION	4.09%	7.59%	6.72%	6.76%	6.74%	6.73%	6.71%	6.68%	6.65%	6.62%	6.50%	6.38%	6.28%	6.19%
MANUFACTURING	24.56%	17.11%	15.91%	15.67%	15.53%	15.27%	15.18%	15.10%	15.02%	14.93%	14.42%	13.81%	13.10%	12.31%
TRANSPORT, COMM. & PUBLIC UTIL	5.45%	5.12%	5.51%	5.54%	5.52%	5.55%	5.53%	5.50%	5.48%	5.45%	5.34%	5.25%	5.17%	5.10%
WHOLESALE TRADE	2.30%	2.23%	2.27%	1.89%	1.87%	1.89%	1.87%	1.85%	1.84%	1.83%	1.77%	1.71%	1.66%	1.62%
RETAIL TRADE	8.74%	9.14%	9.07%	9.02%	8.98%	9.04%	9.01%	8.98%	8.95%	8.92%	8.79%	8.66%	8.54%	8.43%
FINANCE, INS. & REAL ESTATE	3.05%	3.32%	3.48%	3.48%	3.49%	3.53%	3.54%	3.54%	3.55%	3.55%	3.57%	3.58%	3.60%	3.60%
SERVICES	16.01%	25.52%	24.63%	24.97%	25.32%	25.47%	25.81%	26.15%	26.49%	26.83%	28.54%	30.30%	32.11%	33.96%
FEDERAL CIVILIAN GOVT	9.93%	7.69%	7.80%	7.74%	7.67%	7.42%	7.33%	7.25%	7.16%	7.08%	6.68%	6.31%	5.97%	5.64%
FEDERAL MILITARY GOVT	12.67%	9.39%	11.14%	11.20%	11.09%	10.99%	10.87%	10.77%	10.66%	10.55%	10.03%	9.51%	9.00%	8.50%
STATE AND LOCAL GOVT	12.14%	12.08%	12.82%	12.91%	12.98%	13.27%	13.31%	13.35%	13.38%	13.41%	13.56%	13.69%	13.80%	13.88%
PERSONAL INCOME (MILLIONS 1996 $)	6,092.21	9,524.68	10,133.95	10,359.72	10,576.03	10,532.52	10,766.53	11,003.62	11,245.34	11,491.90	12,801.40	14,250.22	15,857.08	17,644.07
INCOME PER CAPITA (1996 $)	15,660.29	20,714.06	21,686.27	21,873.95	22,105.97	22,130.03	22,360.31	22,591.59	22,829.78	23,071.93	24,292.23	25,591.31	26,967.69	28,400.56
W&P WEALTH INDEX (U.S. = 100)	63.93	67.39	70.08	69.02	68.82	68.72	68.63	68.53	68.43	68.34	67.88	67.45	67.03	66.62
PERSONS PER HOUSEHOLD (PEOPLE)	2.80	2.70	2.67	2.66	2.65	2.64	2.63	2.63	2.62	2.61	2.58	2.57	2.57	2.58
MEAN HOUSEHOLD INCOME (1996 $)	38,951.14	49,159.57	51,015.43	50,358.57	50,608.00	50,766.43	51,079.14	51,399.86	51,744.43	52,102.29	54,081.14	56,585.43	59,549.71	62,979.00
NUMBER OF HOUSEHOLDS (THOUSANDS)	138.93	170.49	174.95	178.06	180.56	179.99	182.75	185.49	188.19	190.89	204.41	217.07	229.02	240.35
LESS THAN $10,000 (2000 $)	16.96%	11.89%	11.31%	11.11%	10.96%	10.87%	10.71%	10.55%	10.40%	10.24%	9.50%	8.61%	7.78%	6.89%
$10,000 TO $19,999	18.90%	14.52%	13.80%	13.56%	13.37%	13.28%	13.08%	12.89%	12.70%	12.51%	11.59%	10.48%	9.45%	8.35%
$20,000 TO $29,999	16.41%	15.05%	14.27%	14.02%	13.82%	13.64%	13.44%	13.24%	13.05%	12.86%	11.94%	10.81%	9.75%	8.63%
$30,000 TO $44,999	19.54%	20.51%	20.49%	20.44%	20.40%	20.31%	20.24%	20.15%	20.05%	19.92%	19.11%	17.58%	15.99%	14.16%
$45,000 TO $59,999	13.12%	14.42%	15.23%	15.50%	15.73%	15.94%	16.18%	16.42%	16.66%	16.92%	18.17%	19.63%	20.41%	20.36%
$60,000 TO $74,999	6.76%	9.43%	9.94%	10.13%	10.27%	10.39%	10.55%	10.70%	10.86%	11.02%	11.87%	13.13%	14.60%	16.58%
$75,000 TO $99,999	4.43%	7.83%	8.26%	8.41%	8.53%	8.58%	8.72%	8.85%	8.98%	9.12%	9.84%	10.92%	12.17%	13.85%
$100,000 OR MORE	3.88%	6.36%	6.70%	6.83%	6.92%	6.98%	7.09%	7.19%	7.30%	7.41%	7.99%	8.85%	9.85%	11.19%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 7 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-26

Demographic and Employment Baseline Projections for Economic Impact Area AL-1

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	609.33	677.22	685.27	690.28	697.06	741.71	746.26	750.82	755.30	759.80	784.22	810.06	837.76	868.36
AGE UNDER 19 YEARS	31.12 %	29.55 %	28.62 %	28.25 %	28.03 %	27.78 %	27.58 %	27.43 %	27.29 %	27.14 %	26.75 %	26.96 %	26.99 %	26.94 %
AGE 20 TO 34 YEARS	22.69 %	19.33 %	19.52 %	19.64 %	19.60 %	19.61 %	19.64 %	19.69 %	19.74 %	19.87 %	19.69 %	18.39 %	17.79 %	17.60 %
AGE 35 TO 49 YEARS	19.91 %	22.25 %	21.69 %	21.46 %	21.22 %	20.93 %	20.61 %	20.21 %	19.80 %	19.31 %	18.10 %	18.58 %	18.97 %	19.03 %
AGE 50 TO 64 YEARS	13.53 %	15.81 %	16.82 %	17.23 %	17.68 %	18.16 %	18.57 %	18.92 %	19.22 %	19.58 %	20.00 %	19.12 %	17.58 %	16.70 %
AGE 65 YEARS AND OVER	12.75 %	13.07 %	13.35 %	13.42 %	13.47 %	13.52 %	13.60 %	13.75 %	13.94 %	14.10 %	15.47 %	16.95 %	18.67 %	19.74 %
MEDIAN AGE OF POPULATION(YEARS)	32.73	36.08	36.80	37.04	37.19	37.39	37.51	37.65	37.77	37.86	38.00	38.50	39.24	39.52
WHITE POPULATION	68.03%	66.74%	66.50%	66.50%	66.39%	66.27%	66.17%	66.05%	65.95%	65.83%	65.29%	64.75%	64.19%	63.55%
BLACK POPULATION	29.75%	30.00%	30.11%	30.05%	30.11%	30.17%	30.22%	30.28%	30.34%	30.41%	30.71%	31.02%	31.33%	31.72%
NATIVE AMERICAN POPULATION	0.81%	0.96%	0.94%	0.93%	0.93%	0.94%	0.94%	0.94%	0.94%	0.94%	0.95%	0.95%	0.96%	0.96%
ASIAN AND PACIFIC ISLANDER POP	0.62%	1.05%	1.07%	1.12%	1.14%	1.17%	1.20%	1.23%	1.25%	1.28%	1.41%	1.54%	1.68%	1.84%
HISPANIC POPULATION	0.79%	1.25%	1.38%	1.40%	1.43%	1.45%	1.47%	1.49%	1.51%	1.53%	1.63%	1.74%	1.84%	1.94%
MALE POPULATION	47.77%	48.18%	48.25%	48.26%	48.29%	48.32%	48.35%	48.37%	48.39%	48.41%	48.50%	48.57%	48.58%	48.56%
TOTAL EMPLOYMENT (THOUSANDS)	282.20	351.87	344.78	350.12	355.46	380.45	385.13	389.81	394.47	399.13	422.18	444.96	467.51	489.85
FARM EMPLOYMENT	2.41%	1.59%	1.56%	1.53%	1.50%	1.44%	1.41%	1.39%	1.37%	1.34%	1.23%	1.13%	1.05%	0.97%
AGRICULTURAL SERVICES, OTHER	1.23%	1.41%	1.61%	1.60%	1.59%	1.58%	1.58%	1.57%	1.57%	1.56%	1.54%	1.52%	1.50%	1.49%
MINING	0.59%	0.44%	0.34%	0.33%	0.33%	0.33%	0.32%	0.32%	0.32%	0.31%	0.30%	0.29%	0.27%	0.26%
CONSTRUCTION	6.78%	8.06%	7.41%	7.49%	7.57%	7.67%	7.74%	7.82%	7.88%	7.95%	8.26%	8.53%	8.77%	8.98%
MANUFACTURING	16.51%	11.98%	9.97%	9.86%	9.76%	9.57%	9.48%	9.39%	9.31%	9.23%	8.84%	8.51%	8.21%	7.95%
TRANSPORT, COMM. & PUBLIC UTIL	5.30%	6.06%	5.58%	5.58%	5.58%	5.57%	5.57%	5.57%	5.57%	5.57%	5.57%	5.57%	5.57%	5.58%
WHOLESALE TRADE	4.56%	4.43%	4.34%	4.32%	4.31%	4.33%	4.32%	4.31%	4.29%	4.28%	4.22%	4.16%	4.11%	4.07%
RETAIL TRADE	17.20%	17.68%	18.16%	18.14%	18.12%	18.04%	18.02%	18.00%	17.98%	17.96%	17.87%	17.80%	17.76%	17.72%
FINANCE, INS. & REAL ESTATE	5.54%	6.44%	6.91%	6.91%	6.91%	6.89%	6.89%	6.88%	6.88%	6.88%	6.87%	6.87%	6.88%	6.88%
SERVICES	23.94%	27.66%	29.24%	29.46%	29.68%	30.03%	30.23%	30.42%	30.61%	30.79%	31.61%	32.32%	32.95%	33.49%
FEDERAL CIVILIAN GOVT	1.30%	0.99%	0.91%	0.90%	0.89%	0.88%	0.87%	0.86%	0.84%	0.83%	0.78%	0.73%	0.69%	0.65%
FEDERAL MILITARY GOVT	2.23%	1.36%	1.36%	1.34%	1.32%	1.30%	1.29%	1.27%	1.25%	1.23%	1.16%	1.09%	1.03%	0.97%
STATE AND LOCAL GOVT	12.41%	11.91%	12.61%	12.53%	12.44%	12.36%	12.28%	12.21%	12.14%	12.07%	11.75%	11.47%	11.22%	10.99%
TOTAL EARNINGS (MILLIONS 1996 $)	7,245.54	9,751.86	9,939.87	10,105.12	10,308.78	11,120.89	11,317.03	11,512.51	11,711.31	11,913.44	12,974.74	14,128.14	15,383.24	16,751.74
FARM EARNINGS	1.43%	0.84%	0.72%	0.64%	0.64%	0.62%	0.62%	0.62%	0.62%	0.62%	0.61%	0.60%	0.58%	0.57%
AGRICULTURAL SERVICES, OTHER	0.57%	0.76%	0.70%	0.70%	0.70%	0.69%	0.69%	0.69%	0.68%	0.68%	0.68%	0.68%	0.68%	0.68%
MINING	0.71%	0.89%	0.73%	0.75%	0.74%	0.72%	0.71%	0.69%	0.68%	0.67%	0.62%	0.58%	0.54%	0.50%
CONSTRUCTION	7.33%	8.55%	7.61%	7.97%	8.04%	8.13%	8.19%	8.24%	8.29%	8.34%	8.56%	8.73%	8.88%	8.99%
MANUFACTURING	24.20%	18.50%	16.38%	16.27%	16.10%	15.82%	15.71%	15.61%	15.51%	15.41%	14.81%	14.11%	13.32%	12.47%
TRANSPORT, COMM. & PUBLIC UTIL	7.35%	8.18%	7.82%	7.85%	7.84%	7.83%	7.82%	7.81%	7.80%	7.80%	7.76%	7.74%	7.72%	7.72%
WHOLESALE TRADE	5.50%	5.91%	6.31%	6.31%	6.28%	6.31%	6.28%	6.25%	6.22%	6.19%	6.04%	5.90%	5.77%	5.64%
RETAIL TRADE	10.15%	10.59%	10.88%	10.89%	10.85%	10.76%	10.73%	10.70%	10.68%	10.65%	10.53%	10.41%	10.31%	10.21%
FINANCE, INS. & REAL ESTATE	3.87%	5.65%	6.09%	6.14%	6.18%	6.21%	6.24%	6.27%	6.30%	6.33%	6.47%	6.60%	6.72%	6.84%
SERVICES	21.54%	23.36%	24.54%	24.88%	25.11%	25.50%	25.72%	25.93%	26.15%	26.38%	27.53%	28.76%	30.04%	31.39%
FEDERAL CIVILIAN GOVT	2.61%	2.18%	2.15%	2.14%	2.12%	2.12%	2.10%	2.07%	2.05%	2.02%	1.90%	1.79%	1.68%	1.58%
FEDERAL MILITARY GOVT	1.46%	1.00%	1.62%	1.02%	1.01%	1.01%	1.00%	0.99%	0.99%	0.98%	0.94%	0.90%	0.86%	0.82%
STATE AND LOCAL GOVT	13.29%	13.61%	14.46%	14.46%	14.39%	14.28%	14.20%	14.11%	14.02%	13.94%	13.55%	13.20%	12.88%	12.59%
PERSONAL INCOME (MILLIONS 1996 $)	10,111.40	13,927.73	14,371.09	14,637.96	14,945.65	16,039.34	16,326.52	16,617.21	16,913.70	17,215.97	18,818.82	20,590.27	22,552.96	24,733.81
INCOME PER CAPITA (1996 $)	16,594.34	20,566.12	20,971.52	21,205.83	21,440.86	21,624.87	21,877.67	22,131.99	22,393.29	22,658.50	23,996.95	25,418.30	26,920.71	28,483.36
W&P WEALTH INDEX (U.S. = 100)	69.27	68.32	69.85	69.25	69.20	69.17	69.15	69.13	69.12	69.11	69.02	68.92	68.78	68.62
PERSONS PER HOUSEHOLD (PEOPLE)	2.76	2.62	2.60	2.59	2.58	2.57	2.57	2.56	2.55	2.54	2.52	2.51	2.51	2.53
MEAN HOUSEHOLD INCOME (1996 $)	41,889.13	47,825.00	48,273.50	48,067.75	48,444.63	48,690.25	49,080.75	49,492.25	49,927.00	50,370.75	52,769.63	55,647.38	58,952.38	62,691.75
NUMBER OF HOUSEHOLDS (THOUSANDS)	221.16	258.01	263.44	266.41	270.03	288.19	290.94	293.63	296.25	298.86	311.79	323.37	333.97	343.82
LESS THAN $10,000 (2000 $)	18.75%	14.69%	13.99%	13.76%	13.53%	13.31%	13.09%	12.88%	12.67%	12.46%	11.49%	10.42%	9.18%	7.94%
$10,000 TO $19,999	18.03%	15.91%	15.23%	15.02%	14.80%	14.59%	14.38%	14.17%	13.96%	13.75%	12.79%	11.69%	10.40%	9.04%
$20,000 TO $29,999	15.81%	14.12%	13.58%	13.42%	13.25%	13.08%	12.91%	12.73%	12.56%	12.39%	11.59%	10.66%	9.52%	8.30%
$30,000 TO $44,999	18.54%	18.51%	18.69%	18.72%	18.74%	18.74%	18.73%	18.70%	18.66%	18.60%	18.15%	17.12%	15.52%	13.67%
$45,000 TO $59,999	12.25%	13.58%	14.20%	14.39%	14.60%	14.82%	15.03%	15.26%	15.48%	15.71%	16.77%	18.09%	19.20%	19.08%
$60,000 TO $74,999	7.46%	8.74%	9.15%	9.28%	9.42%	9.56%	9.70%	9.85%	10.00%	10.15%	10.92%	11.95%	13.48%	15.59%
$75,000 TO $99,999	4.50%	7.63%	7.99%	8.11%	8.24%	8.37%	8.50%	8.63%	8.77%	8.90%	9.59%	10.51%	11.87%	13.76%
$100,000 OR MORE	4.67%	6.83%	7.18%	7.30%	7.42%	7.53%	7.66%	7.78%	7.91%	8.04%	8.70%	9.56%	10.84%	12.62%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 8 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-27

Demographic and Employment Baseline Projections for Economic Impact Area FL-1

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	665.78	797.21	832.50	845.69	858.08	883.12	900.43	917.72	934.88	952.03	1,040.01	1,129.62	1,221.79	1,318.38
AGE UNDER 19 YEARS	29.48%	27.37%	27.14%	26.91%	26.52%	26.16%	25.83%	25.58%	25.33%	25.08%	24.61%	24.87%	24.95%	25.07%
AGE 20 TO 34 YEARS	25.11%	20.05%	19.41%	19.31%	19.43%	19.57%	19.71%	19.87%	20.11%	20.34%	20.56%	19.20%	18.19%	17.97%
AGE 35 TO 49 YEARS	19.83%	23.48%	22.51%	22.20%	21.88%	21.52%	21.13%	20.60%	20.03%	19.42%	17.26%	17.77%	18.84%	19.33%
AGE 50 TO 64 YEARS	14.16%	16.10%	17.48%	18.06%	18.36%	18.67%	18.91%	19.17%	19.41%	19.80%	20.40%	19.36%	17.36%	15.64%
AGE 65 YEARS AND OVER	11.42%	12.99%	13.45%	13.52%	13.81%	14.08%	14.42%	14.77%	15.12%	15.36%	17.18%	18.81%	20.66%	21.98%
MEDIAN AGE OF POPULATION (YEARS)	34.24	38.36	39.21	39.47	39.77	40.03	40.26	40.50	40.69	40.85	41.13	41.12	41.57	42.02
WHITE POPULATION	82.15%	80.37%	79.85%	79.70%	79.52%	79.28%	79.08%	78.89%	78.70%	78.50%	77.56%	76.61%	75.62%	74.51%
BLACK POPULATION	13.23%	13.58%	13.75%	13.76%	13.83%	13.93%	14.01%	14.09%	14.17%	14.26%	14.68%	15.11%	15.58%	16.13%
NATIVE AMERICAN POPULATION	0.82%	0.88%	0.86%	0.85%	0.84%	0.83%	0.83%	0.82%	0.81%	0.80%	0.76%	0.73%	0.69%	0.65%
ASIAN AND PACIFIC ISLANDER POP	1.75%	2.25%	2.32%	2.36%	2.40%	2.45%	2.49%	2.53%	2.57%	2.60%	2.76%	2.88%	2.99%	3.11%
HISPANIC POPULATION	2.05%	2.91%	3.22%	3.33%	3.41%	3.50%	3.59%	3.67%	3.75%	3.83%	4.24%	4.67%	5.12%	5.60%
MALE POPULATION	49.37%	50.14%	50.14%	50.17%	50.21%	50.24%	50.29%	50.33%	50.37%	50.40%	50.59%	50.73%	50.88%	51.04%
TOTAL EMPLOYMENT (THOUSANDS)	338.22	435.92	449.86	461.76	473.65	488.53	500.29	512.06	523.82	535.58	594.28	652.91	711.49	770.03
FARM EMPLOYMENT	0.64%	0.56%	0.56%	0.54%	0.53%	0.51%	0.50%	0.49%	0.48%	0.46%	0.41%	0.37%	0.34%	0.31%
AGRICULTURAL SERVICES, OTHER	1.18%	1.25%	1.38%	1.36%	1.35%	1.34%	1.32%	1.31%	1.30%	1.29%	1.25%	1.21%	1.19%	1.16%
MINING	0.23%	0.16%	0.12%	0.12%	0.12%	0.11%	0.11%	0.11%	0.11%	0.11%	0.10%	0.09%	0.08%	0.08%
CONSTRUCTION	5.92%	7.04%	6.20%	6.15%	6.11%	6.07%	6.02%	5.98%	5.95%	5.91%	5.75%	5.62%	5.51%	5.42%
MANUFACTURING	7.04%	4.11%	3.86%	3.76%	3.67%	3.59%	3.51%	3.43%	3.36%	3.29%	2.98%	2.72%	2.51%	2.33%
TRANSPORT, COMM. & PUBLIC UTIL	3.87%	3.77%	3.79%	3.76%	3.72%	3.69%	3.67%	3.64%	3.62%	3.59%	3.49%	3.40%	3.33%	3.27%
WHOLESALE TRADE	2.79%	2.99%	2.80%	2.80%	2.80%	2.80%	2.79%	2.79%	2.79%	2.79%	2.79%	2.78%	2.78%	2.77%
RETAIL TRADE	19.49%	18.79%	18.03%	17.80%	17.57%	17.35%	17.15%	16.95%	16.76%	16.58%	15.79%	15.15%	14.61%	14.15%
FINANCE, INS. & REAL ESTATE	5.76%	7.13%	7.38%	7.36%	7.34%	7.32%	7.30%	7.28%	7.26%	7.24%	7.17%	7.11%	7.05%	7.01%
SERVICES	25.48%	32.78%	34.41%	35.33%	36.20%	37.03%	37.81%	38.56%	39.28%	39.96%	42.97%	45.43%	47.48%	49.21%
FEDERAL CIVILIAN GOVT	6.66%	4.00%	3.66%	3.56%	3.48%	3.39%	3.31%	3.24%	3.16%	3.09%	2.79%	2.53%	2.33%	2.15%
FEDERAL MILITARY GOVT	10.46%	8.11%	8.57%	8.37%	8.18%	8.01%	7.83%	7.67%	7.51%	7.36%	6.71%	6.17%	5.73%	5.35%
STATE AND LOCAL GOVT	10.47%	9.31%	9.23%	9.08%	8.94%	8.80%	8.67%	8.55%	8.43%	8.32%	7.82%	7.41%	7.08%	6.79%
TOTAL EARNINGS (MILLIONS 1996 $)	9,140.94	12,355.71	13,536.33	14,052.87	14,498.11	15,042.32	15,500.06	15,961.31	16,433.38	16,916.65	19,515.21	22,456.99	25,800.77	29,613.16
FARM EARNINGS	0.30%	0.20%	0.21%	0.18%	0.18%	0.18%	0.17%	0.17%	0.17%	0.17%	0.16%	0.15%	0.14%	0.13%
AGRICULTURAL SERVICES, OTHER	0.52%	0.64%	0.56%	0.57%	0.56%	0.56%	0.55%	0.55%	0.55%	0.54%	0.53%	0.52%	0.50%	0.49%
MINING	0.21%	0.20%	0.19%	0.15%	0.15%	0.15%	0.14%	0.14%	0.13%	0.13%	0.12%	0.10%	0.09%	0.08%
CONSTRUCTION	5.50%	6.39%	5.28%	5.39%	5.35%	5.31%	5.26%	5.22%	5.17%	5.13%	4.93%	4.74%	4.56%	4.38%
MANUFACTURING	9.89%	5.87%	5.65%	5.60%	5.48%	5.36%	5.26%	5.17%	5.08%	4.99%	4.53%	4.08%	3.64%	3.22%
TRANSPORT, COMM. & PUBLIC UTIL	4.88%	5.38%	5.45%	5.23%	5.19%	5.15%	5.11%	5.07%	5.04%	5.00%	4.84%	4.69%	4.55%	4.42%
WHOLESALE TRADE	2.98%	3.79%	3.48%	3.44%	3.43%	3.43%	3.43%	3.42%	3.42%	3.42%	3.38%	3.33%	3.26%	3.18%
RETAIL TRADE	10.15%	10.48%	10.31%	10.15%	10.00%	9.86%	9.73%	9.60%	9.48%	9.37%	8.82%	8.33%	7.89%	7.47%
FINANCE, INS. & REAL ESTATE	3.27%	5.55%	5.86%	5.82%	5.87%	5.91%	5.95%	5.98%	6.02%	6.05%	6.20%	6.33%	6.42%	6.50%
SERVICES	20.84%	27.30%	28.18%	29.02%	29.94%	30.83%	31.69%	32.52%	33.33%	34.12%	37.88%	41.34%	44.59%	47.65%
FEDERAL CIVILIAN GOVT	11.35%	7.87%	7.44%	7.14%	7.00%	6.85%	6.70%	6.55%	6.41%	6.27%	5.63%	5.06%	4.56%	4.12%
FEDERAL MILITARY GOVT	18.23%	15.23%	16.68%	16.76%	16.46%	16.18%	15.90%	15.64%	15.38%	15.13%	13.92%	12.80%	11.74%	10.75%
STATE AND LOCAL GOVT	11.89%	11.10%	10.73%	10.53%	10.39%	10.25%	10.10%	9.96%	9.82%	9.69%	9.08%	8.54%	8.06%	7.61%
PERSONAL INCOME (MILLIONS 1996 $)	12,322.58	17,809.42	19,250.91	19,765.79	20,310.85	21,094.40	21,760.19	22,437.30	23,130.05	23,838.89	27,644.39	31,938.74	36,804.67	42,339.03
INCOME PER CAPITA (1996 $)	18,508.40	22,339.66	23,124.33	23,372.43	23,670.03	23,886.22	24,166.42	24,449.07	24,741.33	25,040.06	26,580.96	28,273.81	30,123.64	32,114.36
W&P WEALTH INDEX (U.S. = 100)	78.07	78.33	81.45	81.13	81.13	81.11	81.08	81.05	81.04	81.02	81.06	81.22	81.49	81.87
PERSONS PER HOUSEHOLD (PEOPLE)	2.65	2.60	2.57	2.56	2.55	2.54	2.53	2.52	2.51	2.50	2.47	2.46	2.47	2.49
MEAN HOUSEHOLD INCOME (1996 $)	43,452.14	51,182.86	53,480.43	53,603.29	54,007.43	54,259.43	54,665.00	55,094.14	55,553.14	56,027.43	58,720.14	62,149.14	66,270.14	71,115.71
NUMBER OF HOUSEHOLDS (THOUSANDS)	251.34	307.09	323.95	330.54	336.83	348.04	356.13	364.18	372.17	380.17	420.21	458.42	494.80	529.51
LESS THAN $10,000 (2000 $)	12.87%	9.79%	9.33%	9.14%	8.99%	8.85%	8.72%	8.59%	8.46%	8.33%	7.62%	6.75%	5.83%	5.03%
$10,000 TO $19,999	16.42%	13.94%	13.33%	13.07%	12.86%	12.67%	12.49%	12.31%	12.13%	11.96%	10.94%	9.68%	8.37%	7.24%
$20,000 TO $29,999	17.38%	15.53%	14.85%	14.56%	14.32%	14.12%	13.91%	13.72%	13.52%	13.33%	12.21%	10.81%	9.35%	8.10%
$30,000 TO $44,999	20.83%	20.51%	20.34%	20.17%	20.02%	19.91%	19.78%	19.65%	19.51%	19.36%	18.18%	16.20%	14.03%	12.16%
$45,000 TO $59,999	14.01%	14.59%	15.28%	15.61%	15.86%	16.08%	16.31%	16.52%	16.73%	16.94%	18.05%	18.98%	18.78%	17.56%
$60,000 TO $74,999	8.05%	9.91%	10.38%	10.61%	10.79%	10.95%	11.12%	11.28%	11.44%	11.61%	12.73%	14.47%	16.76%	18.77%
$75,000 TO $99,999	5.29%	8.11%	8.50%	8.69%	8.84%	8.97%	9.11%	9.24%	9.38%	9.52%	10.44%	11.89%	13.83%	16.02%
$100,000 OR MORE	5.15%	7.61%	7.99%	8.17%	8.31%	8.44%	8.57%	8.69%	8.82%	8.95%	9.83%	11.21%	13.05%	15.12%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 7 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; person per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-28

Demographic and Employment Baseline Projections for Economic Impact Area FL-2

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	472.24	577.43	592.26	599.70	609.81	619.51	627.71	635.91	644.04	652.17	694.50	738.07	783.36	831.46
AGE UNDER 19 YEARS	30.41%	27.35%	26.00%	25.73%	25.51%	25.29%	25.14%	25.07%	24.97%	24.83%	24.78%	25.36%	25.54%	25.55%
AGE 20 TO 34 YEARS	25.81%	23.71%	24.46%	24.41%	24.25%	24.16%	24.10%	23.96%	23.79%	23.45%	20.97%	19.44%	19.05%	19.24%
AGE 35 TO 49 YEARS	19.89%	22.14%	21.20%	20.95%	20.80%	20.56%	20.30%	20.03%	19.88%	19.84%	20.73%	21.01%	20.37%	18.40%
AGE 50 TO 64 YEARS	12.27%	15.24%	16.53%	17.04%	17.43%	17.82%	18.14%	18.42%	18.61%	18.92%	18.86%	17.87%	17.31%	18.35%
AGE 65 YEARS AND OVER	11.62%	11.56%	11.80%	11.87%	12.01%	12.16%	12.33%	12.52%	12.74%	12.96%	14.67%	16.31%	17.73%	18.46%
MEDIAN AGE OF POPULATION (YEARS)	32.95	36.58	36.81	36.88	37.16	37.46	37.73	37.98	38.20	38.43	39.17	39.82	40.68	41.24
WHITE POPULATION	71.19%	67.94%	67.40%	67.20%	67.00%	66.69%	66.38%	66.07%	65.76%	65.45%	63.94%	62.42%	60.90%	59.25%
BLACK POPULATION	25.57%	26.84%	26.84%	26.78%	26.88%	27.07%	27.24%	27.42%	27.61%	27.80%	28.68%	29.61%	30.55%	31.59%
NATIVE AMERICAN POPULATION	0.41%	0.48%	0.48%	0.49%	0.48%	0.48%	0.47%	0.47%	0.47%	0.47%	0.45%	0.42%	0.40%	0.37%
ASIAN AND PACIFIC ISLANDER POP	0.74%	1.11%	1.22%	1.28%	1.30%	1.34%	1.37%	1.40%	1.44%	1.47%	1.64%	1.79%	1.97%	2.16%
HISPANIC POPULATION	2.09%	3.63%	4.06%	4.24%	4.33%	4.43%	4.53%	4.63%	4.72%	4.82%	5.29%	5.75%	6.19%	6.63%
MALE POPULATION	49.08%	49.87%	50.17%	50.25%	50.29%	50.29%	50.31%	50.32%	50.33%	50.34%	50.39%	50.37%	50.34%	50.32%
TOTAL EMPLOYMENT (THOUSANDS)	241.45	301.77	306.38	312.12	317.83	323.52	329.19	334.84	340.50	346.13	374.26	402.29	430.26	458.17
FARM EMPLOYMENT	3.66%	3.20%	3.15%	3.09%	3.03%	2.98%	2.93%	2.88%	2.83%	2.78%	2.56%	2.38%	2.22%	2.08%
AGRICULTURAL SERVICES, OTHER	1.34%	1.53%	1.49%	1.50%	1.51%	1.52%	1.53%	1.54%	1.55%	1.56%	1.60%	1.63%	1.66%	1.69%
MINING	0.21%	0.12%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.10%	0.10%	0.10%	0.10%	0.09%	0.09%
CONSTRUCTION	5.29%	5.23%	5.37%	5.33%	5.29%	5.24%	5.21%	5.17%	5.13%	5.10%	4.94%	4.81%	4.70%	4.60%
MANUFACTURING	7.79%	5.69%	4.96%	4.91%	4.85%	4.79%	4.74%	4.69%	4.64%	4.59%	4.38%	4.20%	4.04%	3.89%
TRANSPORT, COMM. & PUBLIC UTIL	2.76%	2.90%	2.47%	2.47%	2.47%	2.46%	2.46%	2.46%	2.46%	2.45%	2.44%	2.43%	2.43%	2.42%
WHOLESALE TRADE	2.91%	2.78%	2.56%	2.54%	2.51%	2.49%	2.47%	2.45%	2.42%	2.40%	2.31%	2.24%	2.17%	2.11%
RETAIL TRADE	17.16%	16.22%	16.01%	15.91%	15.81%	15.72%	15.63%	15.54%	15.45%	15.37%	15.00%	14.68%	14.40%	14.16%
FINANCE, INS. & REAL ESTATE	5.16%	5.05%	5.53%	5.50%	5.48%	5.46%	5.44%	5.42%	5.40%	5.38%	5.30%	5.24%	5.18%	5.12%
SERVICES	22.70%	27.86%	28.98%	29.53%	30.07%	30.58%	31.08%	31.57%	32.03%	32.48%	34.51%	36.25%	37.75%	39.07%
FEDERAL CIVILIAN GOVT	1.57%	1.38%	1.26%	1.25%	1.23%	1.21%	1.20%	1.18%	1.17%	1.15%	1.09%	1.04%	0.99%	0.95%
FEDERAL MILITARY GOVT	0.64%	0.46%	0.46%	0.45%	0.44%	0.44%	0.43%	0.42%	0.41%	0.41%	0.37%	0.34%	0.32%	0.30%
STATE AND LOCAL GOVT	28.81%	27.57%	27.65%	27.43%	27.21%	26.99%	26.79%	26.59%	26.40%	26.22%	25.38%	24.67%	24.06%	23.52%
TOTAL EARNINGS (MILLIONS 1996 $)	6,062.48	8,577.46	8,810.41	9,114.46	9,345.09	9,577.30	9,812.24	10,046.07	10,284.76	10,528.48	11,828.21	13,277.52	14,897.13	16,709.80
FARM EARNINGS	2.86%	1.91%	1.43%	1.88%	1.87%	1.87%	1.87%	1.86%	1.86%	1.86%	1.84%	1.82%	1.79%	1.77%
AGRICULTURAL SERVICES, OTHER	0.83%	0.85%	0.86%	0.80%	0.80%	0.81%	0.81%	0.82%	0.82%	0.83%	0.85%	0.87%	0.88%	0.90%
MINING	0.23%	0.17%	0.17%	0.17%	0.16%	0.16%	0.16%	0.16%	0.15%	0.15%	0.14%	0.13%	0.12%	0.11%
CONSTRUCTION	5.06%	4.82%	5.11%	5.21%	5.15%	5.10%	5.04%	4.99%	4.94%	4.88%	4.65%	4.44%	4.26%	4.08%
MANUFACTURING	9.51%	7.09%	6.29%	6.29%	6.20%	6.13%	6.07%	6.02%	5.96%	5.91%	5.61%	5.27%	4.91%	4.52%
TRANSPORT, COMM. & PUBLIC UTIL	3.72%	3.77%	3.21%	3.34%	3.33%	3.32%	3.31%	3.30%	3.29%	3.28%	3.24%	3.19%	3.15%	3.10%
WHOLESALE TRADE	3.68%	3.41%	2.96%	2.97%	2.93%	2.89%	2.86%	2.83%	2.79%	2.76%	2.61%	2.47%	2.34%	2.21%
RETAIL TRADE	9.68%	8.63%	8.66%	8.54%	8.46%	8.37%	8.30%	8.23%	8.16%	8.10%	7.78%	7.48%	7.20%	6.93%
FINANCE, INS. & REAL ESTATE	3.61%	5.02%	5.83%	5.64%	5.66%	5.67%	5.68%	5.69%	5.71%	5.72%	5.76%	5.79%	5.81%	5.81%
SERVICES	20.32%	25.49%	26.61%	26.89%	27.48%	28.06%	28.62%	29.18%	29.73%	30.27%	32.86%	35.31%	37.67%	39.95%
FEDERAL CIVILIAN GOVT	2.99%	2.86%	2.87%	3.02%	2.99%	2.96%	2.92%	2.89%	2.85%	2.82%	2.66%	2.50%	2.36%	2.22%
FEDERAL MILITARY GOVT	0.44%	0.34%	0.55%	0.35%	0.35%	0.34%	0.34%	0.34%	0.33%	0.33%	0.31%	0.29%	0.27%	0.25%
STATE AND LOCAL GOVT	37.06%	35.63%	35.44%	34.91%	34.61%	34.32%	34.02%	33.71%	33.40%	33.11%	31.71%	30.44%	29.26%	28.15%
PERSONAL INCOME (MILLIONS 1996 $)	8,106.37	11,724.84	12,111.99	12,370.14	12,665.57	12,998.34	13,338.86	13,684.21	14,036.96	14,397.35	16,321.19	18,469.10	20,873.41	23,571.75
INCOME PER CAPITA (1996 $)	17,165.88	20,305.15	20,450.60	20,627.11	20,769.67	20,981.81	21,250.03	21,519.02	21,795.34	22,076.04	23,500.60	25,023.58	26,646.07	28,349.97
W&P WEALTH INDEX (U.S. = 100)	67.72	65.14	64.61	64.60	64.26	64.24	64.22	64.20	64.18	64.16	64.06	63.96	63.87	63.77
PERSONS PER HOUSEHOLD (PEOPLE)	2.72	2.64	2.62	2.61	2.60	2.59	2.58	2.57	2.56	2.55	2.52	2.51	2.51	2.53
MEAN HOUSEHOLD INCOME (1996 $)	40,180.33	45,050.73	43,989.00	44,202.47	44,193.27	44,399.60	44,733.13	45,071.93	45,436.67	45,808.73	47,835.87	50,329.80	53,256.07	56,633.07
NUMBER OF HOUSEHOLDS (THOUSANDS)	173.52	219.00	226.45	230.12	234.68	239.39	243.46	247.51	251.51	255.51	275.58	294.40	311.87	328.05
LESS THAN $10,000 (2000 $)	17.45%	14.98%	14.47%	14.29%	14.08%	13.88%	13.68%	13.48%	13.29%	13.10%	12.19%	11.04%	9.90%	8.67%
$10,000 TO $19,999	18.14%	15.75%	15.28%	15.10%	14.91%	14.68%	14.46%	14.24%	14.02%	13.81%	12.80%	11.58%	10.38%	9.08%
$20,000 TO $29,999	16.21%	15.25%	14.83%	14.67%	14.49%	14.28%	14.07%	13.87%	13.66%	13.47%	12.51%	11.33%	10.16%	8.89%
$30,000 TO $44,999	18.65%	18.16%	18.42%	18.52%	18.63%	18.70%	18.75%	18.78%	18.80%	18.79%	18.52%	17.58%	16.23%	14.32%
$45,000 TO $59,999	11.87%	12.84%	13.27%	13.43%	13.62%	13.82%	14.02%	14.23%	14.43%	14.64%	15.73%	16.97%	17.87%	18.31%
$60,000 TO $74,999	7.14%	8.52%	8.79%	8.89%	9.01%	9.14%	9.28%	9.41%	9.55%	9.69%	10.43%	11.57%	12.97%	14.87%
$75,000 TO $99,999	5.12%	7.41%	7.65%	7.73%	7.82%	7.94%	8.06%	8.19%	8.32%	8.44%	9.11%	10.16%	11.43%	13.14%
$100,000 OR MORE	5.42%	7.08%	7.30%	7.36%	7.44%	7.56%	7.68%	7.80%	7.93%	8.05%	8.71%	9.78%	11.04%	12.71%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 15 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-29

Demographic and Employment Baseline Projections for Economic Impact Area FL-3

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	472.24	577.43	592.26	599.70	609.81	619.51	627.71	635.91	644.04	652.17	694.50	738.07	783.36	831.46
AGE UNDER 19 YEARS	30.41%	27.35%	26.00%	25.73%	25.51%	25.29%	25.14%	25.07%	24.97%	24.83%	24.78%	25.36%	25.54%	25.55%
AGE 20 TO 34 YEARS	25.81%	23.71%	24.46%	24.41%	24.25%	24.16%	24.10%	23.96%	23.79%	23.45%	20.97%	19.44%	19.05%	19.24%
AGE 35 TO 49 YEARS	19.89%	22.14%	21.20%	20.95%	20.80%	20.56%	20.30%	20.03%	19.88%	19.84%	20.73%	21.01%	20.37%	18.40%
AGE 50 TO 64 YEARS	12.27%	15.24%	16.53%	17.04%	17.43%	17.82%	18.14%	18.42%	18.61%	18.92%	18.86%	17.87%	17.31%	18.35%
AGE 65 YEARS AND OVER	11.62%	11.56%	11.80%	11.87%	12.01%	12.16%	12.33%	12.52%	12.74%	12.96%	14.67%	16.31%	17.73%	18.46%
MEDIAN AGE OF POPULATION (YEARS)	32.95	36.58	36.81	36.88	37.16	37.46	37.73	37.98	38.20	38.43	39.17	39.82	40.68	41.24
WHITE POPULATION	71.19%	67.94%	67.40%	67.20%	67.00%	66.69%	66.38%	66.07%	65.76%	65.45%	63.94%	62.42%	60.90%	59.25%
BLACK POPULATION	25.57%	26.84%	26.84%	26.78%	26.88%	27.07%	27.24%	27.42%	27.61%	27.80%	28.68%	29.61%	30.55%	31.59%
NATIVE AMERICAN POPULATION	0.41%	0.48%	0.48%	0.49%	0.48%	0.48%	0.47%	0.47%	0.47%	0.47%	0.45%	0.42%	0.40%	0.37%
ASIAN AND PACIFIC ISLANDER POP	0.74%	1.11%	1.22%	1.28%	1.30%	1.34%	1.37%	1.40%	1.44%	1.47%	1.64%	1.79%	1.97%	2.16%
HISPANIC POPULATION	2.09%	3.63%	4.06%	4.24%	4.33%	4.43%	4.53%	4.63%	4.72%	4.82%	5.29%	5.75%	6.19%	6.63%
MALE POPULATION	49.08%	49.87%	50.17%	50.25%	50.29%	50.29%	50.31%	50.32%	50.33%	50.34%	50.39%	50.37%	50.34%	50.32%
TOTAL EMPLOYMENT (THOUSANDS)	241.45	301.77	306.38	312.12	317.83	323.52	329.19	334.84	340.50	346.13	374.26	402.29	430.26	458.17
FARM EMPLOYMENT	3.66%	3.20%	3.15%	3.09%	3.03%	2.98%	2.93%	2.88%	2.83%	2.78%	2.56%	2.38%	2.22%	2.08%
AGRICULTURAL SERVICES, OTHER	1.34%	1.53%	1.49%	1.50%	1.51%	1.52%	1.53%	1.54%	1.55%	1.56%	1.60%	1.63%	1.66%	1.69%
MINING	0.21%	0.12%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.10%	0.10%	0.10%	0.10%	0.09%	0.09%
CONSTRUCTION	5.29%	5.23%	5.37%	5.33%	5.29%	5.24%	5.21%	5.17%	5.13%	5.10%	4.94%	4.81%	4.70%	4.60%
MANUFACTURING	7.79%	5.69%	4.96%	4.91%	4.85%	4.79%	4.74%	4.69%	4.64%	4.59%	4.38%	4.20%	4.04%	3.89%
TRANSPORT, COMM. & PUBLIC UTIL	2.76%	2.90%	2.47%	2.47%	2.47%	2.46%	2.46%	2.46%	2.46%	2.45%	2.44%	2.43%	2.43%	2.42%
WHOLESALE TRADE	2.91%	2.78%	2.56%	2.54%	2.51%	2.49%	2.47%	2.45%	2.42%	2.40%	2.31%	2.24%	2.17%	2.11%
RETAIL TRADE	17.16%	16.22%	16.01%	15.91%	15.81%	15.72%	15.63%	15.54%	15.45%	15.37%	15.00%	14.68%	14.40%	14.16%
FINANCE, INS. & REAL ESTATE	5.16%	5.05%	5.53%	5.50%	5.48%	5.46%	5.44%	5.42%	5.40%	5.38%	5.30%	5.24%	5.18%	5.12%
SERVICES	22.70%	27.86%	28.98%	29.53%	30.07%	30.58%	31.08%	31.57%	32.03%	32.48%	34.51%	36.25%	37.75%	39.07%
FEDERAL CIVILIAN GOVT	1.57%	1.38%	1.26%	1.25%	1.23%	1.21%	1.20%	1.18%	1.17%	1.15%	1.09%	1.04%	0.99%	0.95%
FEDERAL MILITARY GOVT	0.64%	0.46%	0.46%	0.45%	0.44%	0.44%	0.43%	0.42%	0.41%	0.41%	0.37%	0.34%	0.32%	0.30%
STATE AND LOCAL GOVT	28.81%	27.57%	27.65%	27.43%	27.21%	26.99%	26.79%	26.59%	26.40%	26.22%	25.38%	24.67%	24.06%	23.52%
TOTAL EARNINGS (MILLIONS 1996 $)	6,062.48	8,577.46	8,810.41	9,114.46	9,345.09	9,577.30	9,812.24	10,046.07	10,284.76	10,528.48	11,828.21	13,277.52	14,897.13	16,709.80
FARM EARNINGS	2.86%	1.91%	1.43%	1.88%	1.87%	1.87%	1.87%	1.86%	1.86%	1.86%	1.84%	1.82%	1.79%	1.77%
AGRICULTURAL SERVICES, OTHER	0.83%	0.85%	0.86%	0.80%	0.80%	0.81%	0.81%	0.82%	0.82%	0.83%	0.85%	0.87%	0.88%	0.90%
MINING	0.23%	0.17%	0.17%	0.17%	0.16%	0.16%	0.16%	0.16%	0.15%	0.15%	0.14%	0.13%	0.12%	0.11%
CONSTRUCTION	5.06%	4.82%	5.11%	5.21%	5.15%	5.10%	5.04%	4.99%	4.94%	4.88%	4.65%	4.44%	4.26%	4.08%
MANUFACTURING	9.51%	7.09%	6.29%	6.29%	6.20%	6.13%	6.07%	6.02%	5.96%	5.91%	5.61%	5.27%	4.91%	4.52%
TRANSPORT, COMM. & PUBLIC UTIL	3.72%	3.77%	3.21%	3.34%	3.33%	3.32%	3.31%	3.30%	3.29%	3.28%	3.24%	3.19%	3.15%	3.10%
WHOLESALE TRADE	3.68%	3.41%	2.96%	2.97%	2.93%	2.89%	2.86%	2.83%	2.79%	2.76%	2.61%	2.47%	2.34%	2.21%
RETAIL TRADE	9.68%	8.63%	8.66%	8.54%	8.46%	8.37%	8.30%	8.23%	8.16%	8.10%	7.78%	7.48%	7.20%	6.93%
FINANCE, INS. & REAL ESTATE	3.61%	5.02%	5.83%	5.64%	5.66%	5.67%	5.68%	5.69%	5.71%	5.72%	5.76%	5.79%	5.81%	5.81%
SERVICES	20.32%	25.49%	26.61%	26.89%	27.48%	28.06%	28.62%	29.18%	29.73%	30.27%	32.86%	35.31%	37.67%	39.95%
FEDERAL CIVILIAN GOVT	2.99%	2.86%	2.87%	3.02%	2.99%	2.96%	2.92%	2.89%	2.85%	2.82%	2.66%	2.50%	2.36%	2.22%
FEDERAL MILITARY GOVT	0.44%	0.34%	0.55%	0.35%	0.35%	0.34%	0.34%	0.34%	0.33%	0.33%	0.31%	0.29%	0.27%	0.25%
STATE AND LOCAL GOVT	37.06%	35.63%	35.44%	34.91%	34.61%	34.32%	34.02%	33.71%	33.40%	33.11%	31.71%	30.44%	29.26%	28.15%
PERSONAL INCOME (MILLIONS 1996 $)	8,106.37	11,724.84	12,111.99	12,370.14	12,665.57	12,998.34	13,338.86	13,684.21	14,036.96	14,397.35	16,321.19	18,469.10	20,873.41	23,571.75
INCOME PER CAPITA (1996 $)	17,165.88	20,305.15	20,450.60	20,627.11	20,769.67	20,981.81	21,250.03	21,519.02	21,795.34	22,076.04	23,500.60	25,023.58	26,646.07	28,349.97
W&P WEALTH INDEX (U.S. = 100)	67.72	65.14	64.61	64.60	64.26	64.24	64.22	64.20	64.18	64.16	64.06	63.96	63.87	63.77
PERSONS PER HOUSEHOLD (PEOPLE)	2.72	2.64	2.62	2.61	2.60	2.59	2.58	2.57	2.56	2.55	2.52	2.51	2.51	2.53
MEAN HOUSEHOLD INCOME (1996 $)	40,180.33	45,050.73	43,989.00	44,202.47	44,193.27	44,399.60	44,733.13	45,071.93	45,436.67	45,808.73	47,835.87	50,329.80	53,256.07	56,633.07
NUMBER OF HOUSEHOLDS (THOUSANDS)	173.52	219.00	226.45	230.12	234.68	239.39	243.46	247.51	251.51	255.51	275.58	294.40	311.87	328.05
LESS THAN $10,000 (2000 $)	17.45%	14.98%	14.47%	14.29%	14.08%	13.88%	13.68%	13.48%	13.29%	13.10%	12.19%	11.04%	9.90%	8.67%
$10,000 TO $19,999	18.14%	15.75%	15.28%	15.10%	14.91%	14.68%	14.46%	14.24%	14.02%	13.81%	12.80%	11.58%	10.38%	9.08%
$20,000 TO $29,999	16.21%	15.25%	14.83%	14.67%	14.49%	14.28%	14.07%	13.87%	13.66%	13.47%	12.51%	11.33%	10.16%	8.89%
$30,000 TO $44,999	18.65%	18.16%	18.42%	18.52%	18.63%	18.70%	18.75%	18.78%	18.80%	18.79%	18.52%	17.58%	16.23%	14.32%
$45,000 TO $59,999	11.87%	12.84%	13.27%	13.43%	13.62%	13.82%	14.02%	14.23%	14.43%	14.64%	15.73%	16.97%	17.87%	18.31%
$60,000 TO $74,999	7.14%	8.52%	8.79%	8.89%	9.01%	9.14%	9.28%	9.41%	9.55%	9.69%	10.43%	11.57%	12.97%	14.87%
$75,000 TO $99,999	5.12%	7.41%	7.65%	7.73%	7.82%	7.94%	8.06%	8.19%	8.32%	8.44%	9.11%	10.16%	11.43%	13.14%
$100,000 OR MORE	5.42%	7.08%	7.30%	7.36%	7.44%	7.56%	7.68%	7.80%	7.93%	8.05%	8.71%	9.78%	11.04%	12.71%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 12 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-30

Demographic and Employment Baseline Projections for Economic Impact Area FL-4

	1990	2000	2003	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
TOTAL POPULATION (THOUSANDS)	4,409.06	5,437.77	5,741.98	5,845.19	5,947.96	6,074.63	6,185.27	6,295.73	6,405.33	6,514.93	7,078.15	7,652.58	8,244.18	8,865.40
AGE UNDER 19 YEARS	24.61%	24.99%	25.61%	25.61%	25.45%	25.33%	25.18%	25.02%	24.84%	24.61%	24.05%	24.02%	23.79%	23.61%
AGE 20 TO 34 YEARS	22.27%	18.79%	18.13%	18.02%	17.92%	17.86%	17.86%	17.99%	18.20%	18.48%	19.32%	18.91%	18.37%	18.08%
AGE 35 TO 49 YEARS	19.25%	22.36%	22.31%	22.24%	22.12%	21.98%	21.79%	21.47%	21.09%	20.60%	18.46%	17.96%	18.48%	19.18%
AGE 50 TO 64 YEARS	14.54%	15.97%	16.62%	16.99%	17.30%	17.62%	17.88%	18.13%	18.39%	18.73%	19.61%	19.32%	18.09%	16.27%
AGE 65 YEARS AND OVER	19.33%	17.88%	17.32%	17.15%	17.20%	17.20%	17.29%	17.40%	17.49%	17.57%	18.56%	19.78%	21.27%	22.85%
MEDIAN AGE OF POPULATION (YEARS)	41.33	43.38	42.93	42.88	43.04	43.16	43.28	43.40	43.49	43.54	43.62	43.43	43.19	42.69
WHITE POPULATION	58.73%	49.95%	47.64%	47.00%	46.43%	45.72%	45.07%	44.44%	43.84%	43.26%	40.56%	38.09%	35.71%	33.37%
BLACK POPULATION	14.25%	16.35%	16.61%	16.68%	16.71%	16.83%	16.93%	17.04%	17.15%	17.27%	17.83%	18.30%	18.78%	19.27%
NATIVE AMERICAN POPULATION	0.16%	0.17%	0.17%	0.17%	0.17%	0.17%	0.16%	0.16%	0.16%	0.16%	0.15%	0.15%	0.14%	0.13%
ASIAN AND PACIFIC ISLANDER POP	1.07%	1.60%	1.73%	1.78%	1.83%	1.88%	1.93%	1.98%	2.02%	2.07%	2.30%	2.51%	2.73%	2.97%
HISPANIC POPULATION	25.79%	31.93%	33.86%	34.36%	34.87%	35.40%	35.90%	36.38%	36.82%	37.24%	39.16%	40.95%	42.65%	44.27%
MALE POPULATION	48.03%	48.49%	48.64%	48.68%	48.69%	48.69%	48.69%	48.69%	48.69%	48.69%	48.65%	48.57%	48.48%	48.35%
TOTAL EMPLOYMENT (THOUSANDS)	2,307.19	2,968.79	3,152.21	3,219.53	3,286.87	3,354.95	3,422.26	3,489.59	3,556.92	3,624.25	3,961.04	4,298.01	4,635.13	4,972.38
FARM EMPLOYMENT	0.91%	0.74%	0.72%	0.70%	0.69%	0.69%	0.68%	0.67%	0.66%	0.65%	0.61%	0.58%	0.56%	0.53%
AGRICULTURAL SERVICES, OTHER	1.48%	1.62%	1.63%	1.63%	1.62%	1.62%	1.61%	1.61%	1.61%	1.60%	1.59%	1.57%	1.56%	1.55%
MINING	0.18%	0.11%	0.09%	0.09%	0.09%	0.08%	0.08%	0.08%	0.08%	0.08%	0.07%	0.07%	0.07%	0.06%
CONSTRUCTION	6.34%	6.02%	6.08%	6.06%	6.05%	6.03%	6.02%	6.00%	5.99%	5.97%	5.91%	5.86%	5.81%	5.77%
MANUFACTURING	7.13%	5.02%	4.13%	4.06%	3.99%	3.93%	3.87%	3.81%	3.75%	3.69%	3.44%	3.23%	3.05%	2.89%
TRANSPORT, COMM. & PUBLIC UTIL	5.50%	5.77%	5.25%	5.23%	5.21%	5.19%	5.16%	5.15%	5.13%	5.11%	5.03%	4.96%	4.90%	4.85%
WHOLESALE TRADE	5.62%	5.46%	5.37%	5.33%	5.30%	5.26%	5.23%	5.20%	5.17%	5.14%	5.02%	4.91%	4.82%	4.74%
RETAIL TRADE	18.95%	17.52%	16.98%	16.87%	16.77%	16.68%	16.58%	16.49%	16.41%	16.33%	15.96%	15.64%	15.38%	15.14%
FINANCE, INS. & REAL ESTATE	9.76%	9.28%	9.86%	9.75%	9.65%	9.55%	9.46%	9.37%	9.28%	9.20%	8.82%	8.51%	8.24%	8.00%
SERVICES	32.18%	37.54%	38.92%	39.28%	39.62%	39.94%	40.26%	40.56%	40.85%	41.13%	42.38%	43.44%	44.35%	45.13%
FEDERAL CIVILIAN GOVT	1.33%	1.13%	1.08%	1.07%	1.05%	1.04%	1.03%	1.01%	1.00%	0.99%	0.94%	0.90%	0.86%	0.83%
FEDERAL MILITARY GOVT	0.96%	0.54%	0.54%	0.52%	0.51%	0.50%	0.49%	0.48%	0.47%	0.46%	0.42%	0.39%	0.36%	0.33%
STATE AND LOCAL GOVT	9.66%	9.25%	9.36%	9.40%	9.45%	9.49%	9.53%	9.57%	9.61%	9.64%	9.81%	9.94%	10.06%	10.16%
TOTAL EARNINGS (MILLIONS 1996 $)	65,537.44	97,034.41	106,269.68	110,006.77	113,143.91	116,344.75	119,580.82	122,828.55	126,151.11	129,550.60	147,777.88	168,268.13	191,341.21	217,359.42
FARM EARNINGS	0.87%	0.40%	0.36%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.52%	0.51%
AGRICULTURAL SERVICES, OTHER	0.89%	0.84%	0.78%	0.80%	0.80%	0.79%	0.79%	0.79%	0.79%	0.79%	0.77%	0.76%	0.76%	0.75%
MINING	0.16%	0.15%	0.14%	0.10%	0.10%	0.10%	0.10%	0.09%	0.09%	0.09%	0.08%	0.07%	0.06%	0.06%
CONSTRUCTION	6.71%	5.99%	6.32%	6.66%	6.62%	6.58%	6.55%	6.51%	6.47%	6.43%	6.24%	6.06%	5.89%	5.72%
MANUFACTURING	8.35%	6.18%	5.43%	5.33%	5.23%	5.14%	5.07%	5.00%	4.93%	4.86%	4.51%	4.14%	3.77%	3.40%
TRANSPORT, COMM. & PUBLIC UTIL	7.46%	7.29%	6.56%	6.49%	6.45%	6.42%	6.38%	6.35%	6.31%	6.28%	6.12%	5.97%	5.82%	5.68%
WHOLESALE TRADE	7.58%	7.83%	7.67%	7.54%	7.46%	7.39%	7.32%	7.25%	7.18%	7.11%	6.79%	6.48%	6.19%	5.92%
RETAIL TRADE	12.47%	11.07%	10.51%	10.37%	10.28%	10.20%	10.12%	10.05%	9.99%	9.92%	9.60%	9.29%	8.98%	8.69%
FINANCE, INS. & REAL ESTATE	8.04%	11.60%	11.94%	11.77%	11.72%	11.66%	11.60%	11.53%	11.47%	11.41%	11.12%	10.85%	10.60%	10.35%
SERVICES	31.19%	34.10%	35.49%	35.68%	36.06%	36.43%	36.80%	37.16%	37.52%	37.88%	39.66%	41.42%	43.19%	44.95%
FEDERAL CIVILIAN GOVT	2.65%	2.31%	2.29%	2.25%	2.23%	2.21%	2.18%	2.15%	2.13%	2.10%	1.98%	1.86%	1.75%	1.65%
FEDERAL MILITARY GOVT	0.85%	0.42%	0.61%	0.60%	0.59%	0.58%	0.57%	0.56%	0.55%	0.54%	0.49%	0.45%	0.42%	0.38%
STATE AND LOCAL GOVT	12.78%	11.81%	11.90%	11.89%	11.94%	11.98%	12.01%	12.04%	12.06%	12.07%	12.12%	12.11%	12.06%	11.96%
PERSONAL INCOME (MILLIONS 1996 $)	107,074.07	148,829.68	159,378.99	165,192.92	170,531.47	175,696.02	180,935.65	186,274.82	191,747.27	197,357.39	227,623.10	262,015.91	301,215.82	346,011.24
INCOME PER CAPITA (1996 $)	24,284.99	27,369.63	27,756.78	28,261.34	28,670.59	28,922.93	29,252.67	29,587.47	29,935.58	30,293.09	32,158.55	34,238.88	36,536.77	39,029.40
W&P WEALTH INDEX (U.S. = 100)	115.41	108.80	109.28	109.95	110.29	110.52	110.73	110.95	111.17	111.39	112.56	113.80	115.12	116.51
PERSONS PER HOUSEHOLD (PEOPLE)	2.53	2.58	2.56	2.55	2.55	2.54	2.54	2.53	2.53	2.53	2.52	2.53	2.55	2.59
MEAN HOUSEHOLD INCOME (1996 $)	58,793.56	67,480.78	66,681.00	67,895.22	68,779.22	69,363.89	70,141.67	70,943.78	71,786.33	72,656.22	77,391.11	83,120.33	89,836.33	97,620.00
NUMBER OF HOUSEHOLDS (THOUSANDS)	1,739.76	2,104.41	2,243.27	2,289.34	2,335.58	2,390.04	2,437.85	2,485.23	2,531.94	2,578.44	2,808.96	3,024.42	3,227.09	3,418.04
LESS THAN $10,000 (2000 $)	11.70%	10.26%	9.87%	9.62%	9.38%	9.26%	9.12%	8.99%	8.86%	8.73%	7.95%	7.03%	6.21%	5.46%
$10,000 TO $19,999	14.85%	13.50%	13.06%	12.76%	12.48%	12.32%	12.15%	11.98%	11.81%	11.64%	10.64%	9.43%	8.35%	7.37%
$20,000 TO $29,999	15.28%	14.03%	13.60%	13.31%	13.04%	12.88%	12.70%	12.52%	12.34%	12.17%	11.14%	9.90%	8.77%	7.75%
$30,000 TO $44,999	19.48%	18.48%	18.27%	18.06%	17.84%	17.70%	17.53%	17.34%	17.14%	16.94%	15.61%	13.88%	12.30%	10.87%
$45,000 TO $59,999	13.98%	13.54%	13.98%	14.31%	14.61%	14.79%	14.97%	15.16%	15.33%	15.49%	16.20%	16.39%	15.53%	14.03%
$60,000 TO $74,999	8.80%	9.50%	9.82%	10.05%	10.27%	10.40%	10.55%	10.71%	10.87%	11.03%	12.11%	13.64%	15.24%	16.47%
$75,000 TO $99,999	6.49%	8.98%	9.28%	9.49%	9.70%	9.83%	9.97%	10.11%	10.26%	10.41%	11.43%	12.90%	14.59%	16.53%
$100,000 OR MORE	9.41%	11.71%	12.11%	12.40%	12.67%	12.83%	13.01%	13.20%	13.39%	13.59%	14.92%	16.82%	19.00%	21.51%

Notes: Median age, wealth index, and mean household income is the average of the original Woods & Poole values for the 9 counties in the EIA's; income per capita calculated using personal income/total population for the EIA; persons per Household calculated using total population/number of households for the EIA.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-31

OCS-Related Service Bases

Planning Area	Economic Impact Area	Service Base	County	Planning Area	Economic Impact Area	Service Base	County or Parish
WPA	TX-1	Aransas Pass	Nueces	CPA	LA-1	Cameron	Cameron
		Bayside	Aransas			Grand Chenier	Cameron
		Corpus Christi	Nueces			Lake Charles	Calcasieu
		Harbor Island	Nueces		LA-2	Abbeville	Vermilion
		Ingleside	San Patricio			Erath	Vermilion
		Port Aransas	Nueces			Freshwater City	Vermilion
		Port Isabel	Cameron			Intracoastal City	Vermilion
		Port Mansfield	Willacy			Kaplan	Vermilion
		Rockport	Aransas			New Iberia	Iberia
	TX-2	Freeport	Brazoria			Weeks Island	Iberia
		Port O'Connor	Calhoun		LA-3	Amelia	St Mary
	TX-3	Galveston	Galveston			Bayou Boeuf	St Mary
		Pelican Island	Galveston			Berwick	St Mary
		Port Arthur	Jefferson			Cocodrie	Terrebonne
		Sabine Pass	Jefferson			Dulac	Terrebonne
		Surfside	Harris			Fourchon	Lafourche
						Gibson	Terrebonne
						Houma	Terrebonne
						Leeville	Lafourche
EPA	FL-1	Panama City	Bay			Louisa	St Mary
						Morgan City	St Mary
	FL-2	NA				Patterson	St Mary
						Theriot	Terrebonne
	FL-3	NA			LA-4	Empire	Plaquemines
						Grand Isle	Jefferson
	FL-4	NA				Harvey	Jefferson
						Hopedale	St Bernard
						Paradis	St Charles
						Venice	Plaquemines
					MS-1	Pascagoula	Jackson
					AL-1	Bayou LaBatre	Mobile
						Mobile	Mobile
						Theodore	Mobile

NA means that information is not available.

Source: USDOI, MMS, 2001.

Table 3-32

2001 Hunting and Wildlife Watching in Gulf States by U.S. Residents

	Alabama	Mississippi	Louisiana	Texas	Florida	Total
Hunting						
Hunters	423,000	357,000	333,000	1,201,000	226,000	2,540,000
Resident	307,000	245,000	295,000	1,100,000	191,000	2,138,000
Nonresident	116,000	111,000	38,000	100,000	35,000	400,000
Total Expenditures ($million)	$663.6	$360.3	$446.2	$1,513.8	$394.2	$3,378.1
Trip-related	$195.9	$132.1	$120.7	$555.8	$120.0	$1,124.5
Equipment & Other	$467.7	$228.2	$325.5	$958.0	$274.3	$2,253.7
Wildlife Watching						
Total Participants	1,016,000	631,000	935,000	3,240,000	3,240,000	9,062,000
Residential	925,000	576,000	806,000	1,002,000	2,635,000	5,944,000
Nonresidential	276,000	131,000	314,000	2,930,000	1,503,000	5,154,000
Total Expenditures ($million)	$626.4	$303.5	$168.4	$1,283.0	$1,575.5	$3,956.8
Trip-related	$79.5	$36.1	$55.4	$228.8	$675.4	$1,075.2
Equipment & Other	$546.9	$267.4	$113.0	$1,054.2	$900.1	$2,881.6

Source: USDOI, FWS and USDOC, Bureau of the Census, 2001.

Table 3-33

Number of Shipwrecks by Planning Area and Lease Area

Western Planning Area		Central Planning Area	
Lease Area	Number of Wrecks	Lease Area	Number of Wrecks
Alaminos Canyon	1	Atwater Valley	4
Brazos	60	Bay Marchand	3
Corpus Christy	3	Breton Sound	13
East Breaks	7	Chandeleur	8
Galveston	113	DeSoto Canyon	3
Garden Banks	2	East Cameron	45
High Island	108	Eugene Island	92
Keathley Canyon	1	Ewing Bank	2
Matagorda Island	42	Green Canyon	14
Mustang Island	66	Grand Isle	29
North Padre Island	38	Lloyd Ridge	3
Port Isabel	2	Lund	11
Sabine Pass (Texas)	49	Mississippi Canyon	40
South Padre Island	2	Mobile	54

Table 3-34

Population and Employment Projections for Counties/Parishes Most Negatively Impacted by Hurricanes Katrina and Rita

Population Projections										
	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
ST. BERNARD, LA	65,364	9,288	12,188	15,090	17,982	20,878	35,537	50,333	65,310	80,569
ORLEANS, LA	454,863	153,983	164,858	175,742	186,587	197,454	253,033	309,485	366,912	425,702
PLAQUEMINES, LA	28,995	14,204	14,797	15,391	15,981	16,572	19,612	22,708	25,869	29,126
JEFFERSON, LA	452,824	405,011	411,322	417,635	423,898	430,175	462,817	496,415	531,255	568,032
CAMERON, LA	9,558	8,686	8,739	8,792	8,844	8,897	9,188	9,498	9,832	10,201
HANCOCK, MS	46,711	39,313	40,382	41,451	42,513	43,577	49,021	54,565	60,246	66,156
JACKSON, MS	135,940	130,740	132,342	133,945	135,532	137,121	145,437	154,025	162,974	172,499
HARRISON, MS	193,810	190,401	192,674	194,946	197,195	199,449	211,240	223,421	236,125	249,664
Population Level Compared to 2005 Pre-Katrina and Rita Population										
		2006	2007	2008	2009	2010	2015	2020	2025	2030
ST. BERNARD, LA		14%	19%	23%	28%	32%	54%	77%	100%	123%
ORLEANS, LA		34%	36%	39%	41%	43%	56%	68%	81%	94%
PLAQUEMINES, LA		49%	51%	53%	55%	57%	68%	78%	89%	100%
JEFFERSON, LA		89%	91%	92%	94%	95%	102%	110%	117%	125%
CAMERON, LA		91%	91%	92%	93%	93%	96%	99%	103%	107%
HANCOCK, MS		84%	86%	89%	91%	93%	105%	117%	129%	142%
JACKSON, MS		96%	97%	99%	100%	101%	107%	113%	120%	127%
HARRISON, MS		98%	99%	101%	102%	103%	109%	115%	122%	129%
Employment Projections										
	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030
ST. BERNARD, LA	24,815	3,521	4,622	5,727	6,831	7,937	13,516	19,109	24,693	30,230
ORLEANS, LA	319,010	108,204	116,348	124,566	132,833	141,177	184,328	229,214	275,644	323,380
PLAQUEMINES, LA	20,787	10,306	10,889	11,483	12,092	12,710	16,014	19,622	23,516	27,682
JEFFERSON, LA	285,724	257,505	264,084	270,694	277,335	284,006	317,861	352,350	387,339	422,688
CAMERON, LA	4,980	4,588	4,684	4,786	4,887	4,988	5,495	6,015	6,537	7,070
HANCOCK, MS	22,560	18,912	19,392	19,878	20,358	20,839	23,248	25,645	28,036	30,406
JACKSON, MS	63,692	61,128	61,902	62,673	63,447	64,219	68,096	71,985	75,876	79,760
HARRISON, MS	132,051	130,648	133,435	136,226	139,020	141,817	155,867	170,005	184,196	198,438
Employment Level Compared to 2005 Pre-Katrina and Rita Employment										
		2006	2007	2008	2009	2010	2015	2020	2025	2030
ST. BERNARD, LA		14%	19%	23%	28%	32%	54%	77%	100%	122%
ORLEANS, LA		34%	36%	39%	42%	44%	58%	72%	86%	101%
PLAQUEMINES, LA		50%	52%	55%	58%	61%	77%	94%	113%	133%
JEFFERSON, LA		90%	92%	95%	97%	99%	111%	123%	136%	148%
CAMERON, LA		92%	94%	96%	98%	100%	110%	121%	131%	142%
HANCOCK, MS		84%	86%	88%	90%	92%	103%	114%	124%	135%
JACKSON, MS		96%	97%	98%	100%	101%	107%	113%	119%	125%
HARRISON, MS		99%	101%	103%	105%	107%	118%	129%	139%	150%

Source: Woods & Poole Economics, Inc., 2006.

Table 3-35

Baseline Population Projections (in thousands) by Economic Impact Area

Model Year	Calendar Year	AL-1	MS-1	LA-1	LA-2	LA-3	LA-4	TX-1	TX-2	TX-3	FL-1	FL-2	FL-3	FL-4
	2005	697.06	478.42	334.83	562.44	1,045.93	1,385.14	1,651.49	587.87	5,533.80	858.08	609.81	3,421.40	5,947.96
	2006	741.71	475.94	339.74	580.30	1,149.95	1,054.72	1,686.51	596.61	5,665.75	883.12	619.51	3,476.93	6,074.63
1	2007	746.26	481.50	340.82	583.19	1,156.01	1,077.29	1,717.47	602.86	5,739.75	900.43	627.71	3,523.45	6,185.27
2	2008	750.82	487.07	341.91	586.09	1,162.08	1,099.87	1,748.38	609.11	5,813.67	917.72	635.91	3,569.92	6,295.73
3	2009	755.30	492.57	342.96	588.93	1,168.03	1,122.30	1,779.06	615.29	5,886.89	934.88	644.04	3,615.97	6,405.33
4	2010	759.80	498.09	344.03	591.80	1,174.01	1,144.78	1,809.74	621.49	5,960.20	952.03	652.17	3,662.06	6,514.93
5	2011	764.69	503.87	345.29	594.97	1,180.55	1,168.03	1,841.28	628.01	6,036.44	969.63	660.64	3,709.98	6,627.57
6	2012	769.60	509.71	346.55	598.16	1,187.14	1,191.75	1,873.36	634.60	6,113.66	987.55	669.21	3,758.53	6,742.17
7	2013	774.55	515.62	347.81	601.37	1,193.76	1,215.96	1,906.01	641.26	6,191.87	1,005.80	677.90	3,807.72	6,858.74
8	2014	779.52	521.60	349.08	604.59	1,200.41	1,240.65	1,939.22	647.99	6,271.08	1,024.39	686.70	3,857.54	6,977.33
9	2015	784.22	526.98	350.31	607.67	1,206.74	1,261.03	1,967.42	654.09	6,341.43	1,040.01	694.50	3,901.67	7,078.15
10	2016	789.39	532.95	351.71	611.07	1,213.71	1,284.85	1,999.59	660.86	6,419.86	1,057.93	703.21	3,950.95	7,193.04
11	2017	794.59	538.99	353.11	614.50	1,220.72	1,309.12	2,032.29	667.70	6,499.26	1,076.16	712.04	4,000.85	7,309.79
12	2018	799.82	545.10	354.52	617.95	1,227.77	1,333.85	2,065.52	674.61	6,579.65	1,094.71	720.97	4,051.38	7,428.44
13	2019	805.09	551.27	355.94	621.41	1,234.86	1,359.04	2,099.30	681.59	6,661.03	1,113.57	730.02	4,102.55	7,549.01
14	2020	810.06	556.84	357.30	624.70	1,241.59	1,380.13	2,128.28	687.93	6,733.60	1,129.62	738.07	4,148.07	7,652.58
15	2021	815.60	563.07	358.87	628.40	1,249.12	1,404.67	2,161.42	695.03	6,815.11	1,148.06	747.13	4,199.26	7,770.90
16	2022	821.17	569.37	360.45	632.12	1,256.70	1,429.65	2,195.07	702.19	6,897.62	1,166.79	756.30	4,251.08	7,891.05
17	2023	826.79	575.75	362.03	635.87	1,264.32	1,455.07	2,229.25	709.44	6,981.12	1,185.83	765.58	4,303.54	8,013.06
18	2024	832.44	582.19	363.62	639.63	1,271.99	1,480.94	2,263.96	716.75	7,065.64	1,205.18	774.97	4,356.65	8,136.95
19	2025	837.76	588.00	365.15	643.20	1,279.24	1,502.83	2,293.97	723.40	7,141.18	1,221.79	783.36	4,404.02	8,244.18
20	2026	843.88	594.65	366.97	647.34	1,287.66	1,528.47	2,328.77	731.01	7,227.78	1,241.11	792.98	4,458.35	8,368.43
21	2027	850.04	601.38	368.80	651.51	1,296.12	1,554.55	2,364.09	738.70	7,315.42	1,260.73	802.72	4,513.35	8,494.54
22	2028	856.25	608.18	370.63	655.71	1,304.65	1,581.07	2,399.95	746.48	7,404.13	1,280.67	812.57	4,569.03	8,622.56
23	2029	862.51	615.06	372.48	659.93	1,313.23	1,608.04	2,436.35	754.33	7,493.91	1,300.92	822.55	4,625.39	8,752.50
24	2030	868.36	621.26	374.25	663.91	1,321.31	1,631.03	2,467.95	761.46	7,574.15	1,318.38	831.46	4,675.66	8,865.40
25	2031	874.70	628.29	376.11	668.19	1,329.99	1,658.86	2,505.38	769.47	7,665.99	1,339.23	841.67	4,733.34	8,999.00
26	2032	881.10	635.39	377.98	672.49	1,338.74	1,687.16	2,543.38	777.56	7,758.95	1,360.41	852.00	4,791.73	9,134.62
27	2033	887.53	642.58	379.87	676.82	1,347.54	1,715.94	2,581.96	785.74	7,853.03	1,381.92	862.46	4,850.85	9,272.29
28	2034	894.02	649.85	381.76	681.18	1,356.40	1,745.22	2,621.13	794.01	7,948.26	1,403.77	873.06	4,910.69	9,412.02
29	2035	900.55	657.20	383.66	685.57	1,365.32	1,774.99	2,660.89	802.36	8,044.64	1,425.96	883.78	4,971.26	9,553.87
30	2036	907.13	664.63	385.57	689.99	1,374.30	1,805.28	2,701.25	810.80	8,142.19	1,448.51	894.63	5,032.59	9,697.85
31	2037	913.76	672.15	387.50	694.43	1,383.34	1,836.08	2,742.22	819.33	8,240.92	1,471.42	905.62	5,094.67	9,844.00
32	2038	920.43	679.75	389.43	698.90	1,392.44	1,867.40	2,783.81	827.95	8,340.85	1,494.68	916.74	5,157.52	9,992.35
33	2039	927.16	687.44	391.37	703.41	1,401.59	1,899.26	2,826.04	836.66	8,441.99	1,518.32	927.99	5,221.15	10,142.94
34	2040	933.93	695.22	393.32	707.94	1,410.81	1,931.66	2,868.91	845.46	8,544.35	1,542.33	939.39	5,285.55	10,295.80
35	2041	940.76	703.08	395.28	712.50	1,420.09	1,964.62	2,912.42	854.36	8,647.96	1,566.71	950.93	5,350.76	10,450.96
36	2042	947.63	711.03	397.25	717.09	1,429.43	1,998.14	2,956.60	863.35	8,752.83	1,591.49	962.60	5,416.76	10,608.46
37	2043	954.55	719.08	399.23	721.70	1,438.83	2,032.23	3,001.45	872.43	8,858.96	1,616.65	974.42	5,483.59	10,768.33
38	2044	961.53	727.21	401.22	726.35	1,448.29	2,066.90	3,046.97	881.61	8,966.38	1,642.21	986.39	5,551.23	10,930.62
39	2045	968.55	735.43	403.22	731.03	1,457.81	2,102.16	3,093.19	890.88	9,075.11	1,668.18	998.50	5,619.71	11,095.34
40	2046	975.63	743.75	405.23	735.74	1,467.40	2,138.03	3,140.11	900.25	9,185.15	1,694.56	1,010.76	5,689.04	11,262.56

Notes: Actual Woods & Poole data for 2006 through 2010, 2015, 2020, 2025, and 2030.
Missing estimates through 2030 calculated using average annual growth rate for the 5-year period; projections after 2030 calculated using the average annual growth rate from 2025 to 2030.

Source: Woods & Poole Economics, Inc., 2006.

Table 3-36

Waterway Depth, Traffic, and Number of Trips (2004)

Waterway	Maintained Depth (ft)	Traffic (thousand short tons)	Number of Trips	
			Foreign	Domestic
Gulf Intracoastal Waterway (GIWW)				
Pensacola Bay, FL to Mobile Bay, AL	12	MA	0	12,689
Mobile Bay, AL to New Orleans, LA	12, 14	21,808	0	37,991
Mississippi River, LA to Sabine River, TX	12, 10	69,489	0	146,176
Sabine River, TX to Galveston, TX	12	53,211	0	71,219
Galveston, TX to Corpus Christi, TX	11, 10.2	29,025	0	56,949
Corpus Christi, TX to Mexican Border, TX	10, 12, 7	2,748	0	5,225
Texas Harbors, Channels, and Waterways				
Beaumont (Neches River)	39, 40, 32	91,698	2,661	23,376
Port Arthur	38	27,570	1,088	13,196
Sabine Pass Harbor	29	929	45	3,543
Sabine-Neches Waterway	40, 37, 39, 32, 27, 20, 9, 8	150,297	3,795	72,127
Louisiana Harbors, Channels, and Waterways				
Atchafalaya River	12	8,826	0	25,464
Atchafalaya River, Morgan City to Gulf of Mexico	20	2,379	1,715	32,442
Barataria Bay Waterway	15 and less	219		9,273
Bayou Lafourche and Lafourche-Jump Waterway	28, 27, 27, 9	6,975	1,455	57,496
Bayou Little Caillou	10 and less	184	0	4,342
Bayou Teche and Vermilion River	8, 11, 9, 8, 5	978	0	6,716
Calcasieu River and Pass (Lake Charles)	42, 41-42, 36, 12, 7	54,768	1,981	99,735
Freshwater Bayou	12	1,282	0	17,038
GIWW, Morgan City-Port Allen Route	10	24,313	0	29,150
Innerharbor Navigation Canal	30, 15	18,774	469	22,866
Mermentau River	4, 7, 12, 10, 9, 11, 6, 8, 4, 7	831	17	5,000
Mississippi River Gulf Outlet via Venice Vicinity	16, 14	2,672	155	29,315
Port of Baton Rouge	40, 9, 12	57,083	1,173	80,523
Port of New Orleans	45, 30, 32, 36, 37, 12	78,085	4,881	259,087
Port of Plaquemines	45	54,405	819	100,813
Port of South Louisiana	45	224,187	3,780	149,972
Waterway from Empire to Gulf of Mexico	6, 9, 14	1,198	0	24,746
Waterway from GIWW to Bayou Dulac	12 or less	91	0	5,211
Mississippi Harbors, Channels, and Waterways				
Bayou Casotte	38	33,471	787	9,727
Pascagoula Harbor	40, 38, 38, 22, 12	34,100	999	10,733
Alabama Harbors, Channels, and Waterways				
Black Warrior and Tombigbee Rivers	9	22,026	0	31,498
Chickasaw Creek	25	1,520	0	1,455
Dauphin Island Bay	10 and less	NA	0	8,901
Mobile Harbor	47, 45, 40, 13-39, 40	56,212	2,320	43,226
Tennessee Tombigbee Waterway	9	6,677	0	8,593
Theodore Ship Channel	40	6,266	200	5,486

NA means that information is not available.

Source: U.S. Dept. of the Army, Corps of Engineers, 2006.

Table 3-37

Offshore Supply Vessel Specifications

	Old, Legacy Boats	New Generation, Deepwater Boats
Length (ft)	180	220'-295'
Brake Horsepower (BHP)	1,800-3,900	3,000-7,200
Cargo Capacity (DWT)	800-1,200	1,800-5,000
Liquid Mud Capacity (bbl)	800-1,200	3,000-6,000
Bulk Capacity (ft^3)	1,000-2,000	3,000-9,000
Station Keeping	Traditional, single bow thruster	Joystick, multi-thruster
Dynamic Positioning	No	Yes
Cost to build (million $)	$2.5-$6	$15-$30

Source: Barrett, 2005.

Table 3-38

Existing Coastal Infrastructure Related to OCS Activities in the Gulf of Mexico

Infrastructure	Texas	Louisiana	Mississippi and Alabama	Florida	Total
Pipeline Landfalls	13	106	7	0	126
Service Bases	16	29	4	1	50
Helicopter Hubs	39	84	5	0	128
Platform Fabrication Yards	7	31	5	0	43
Shipyards	27	38	20	9	94
Pipecoating Plants	7	7	2	3	19
Refineries	19	14	4	0	37
Petrochemical Plants	20	9	0	0	29
Gas Processing Plants	1	28	6	0	35
Pipeline Shore Facilities	13	37	0	0	50
Barge Terminals	4	5	0	0	9
Tanker Ports	4	6	0	0	10
Waste Disposal Plants	9	21	4	0	34

Source: The Louis Berger Group, Inc., 2004.

Table 3-39

Summary of Federal Rules Governing OCS Discharges and Injection

MMS Planning Region	Rules	Key Features
Western Planning Area	69 FR No. 245 76740 NPDES General Permit Rules	General permit restricting discharges to 29 mg/l monthly average and 49 mg/l maximum daily total oil and grease
Territorial Seas of Texas	70 FR No. 171 53008 NPDES General Permit Rules	General permit restricting discharges to 29 mg/l monthly average and 49 mg/l maximum daily total oil and grease
Central Planning Area	69 FR No. 245 76740 NPDES General Permit Rules 69 FR No. 194 60150 NPDES General Permit Rules	General permit for >200 m of water depth, restricting discharges to 29 mg/l monthly and 49 mg/l maximum daily total oil and grease
Eastern Planning Area	69 FR No. 194 60150 NPDES General Permit Rules	General permit for > 200 m of water depth, restricting discharges to 29 mg/l monthly average and 49 mg/l maximum daily total oil and grease
All of the above citations contain rules restricting discharge of domestic and sanitary sewage (including standards) and prohibiting discharge of trash in each of the MMS planning regions. Facilities located offshore of USEPA Region 6 are subject to a general Clean Water Act permit that covers all facilities in certain geographic locations. Offshore exploration and production facilities in Regions 4, 9, and 10 are also permitted individually in some cases. USEPA Regions 6 and 9 has a Memorandum of Agreement with MMS, whereby MMS agrees to conduct Clean Water Act preliminary inspections for USEPA.		
All	CWA § 308, 402, 403	Discharge rate limitations and monitoring; toxicity limitations; minimize discharge of surfactants, dispersants, and detergents; no rubbish, trash, or refuse; and no discharge in areas of biological concern
All	40 CFR 144	Underground injection control program rules

Table 3-40

Gulf of Mexico Region Counties with Concentrated Levels of Oil- and Gas-Related Infrastructure

Low Concentration		Medium Concentration		High Concentration	
County/Parish	State	County/Parish	State	County/Parish	State
Escambia	FL	Bay	FL	Mobile	AL
Manatee	FL	Hillsborough	FL	Cameron	LA
Ascension	LA	Calcasieu	LA	Jefferson	LA
Lafayette	LA	East Baton Rouge	LA	Lafourche	LA
St. John the Baptist	LA	Iberia	LA	Plaquemines	LA
West Baton Rouge	LA	Orleans	LA	St. Mary	LA
Harrison	MS	St. Bernard	LA	Brazoria	TX
Aransas	TX	St. Charles	LA	Galveston	TX
Cameron	TX	St. James	LA	Harris	TX
Chambers	TX	Terrebonne	LA	Jefferson	TX
Fort Bend	TX	Vermilion	LA		
Matagorda	TX	Jackson	MS		
Montgomery	TX	Calhoun	TX		
Orange	TX	Nueces	TX		
		San Patricio	TX		

Source: Based on data from The Louis Berger Group, Inc. (2004).

Table 3-41

Baseline Employment Projections (in thousands) by Economic Impact Area

Model Year	Calendar Year	AL-1	MS-1	LA-1	LA-2	LA-3	LA-4	TX-1	TX-2	TX-3	FL-1	FL-2	FL-3	FL-4
	2005	355.46	251.51	175.16	295.02	606.81	820.99	716.70	289.19	3,186.72	473.65	317.83	1,918.08	3,286.87
	2006	380.45	248.27	179.08	307.30	668.71	591.35	730.94	294.37	3,272.69	488.53	323.52	1,958.06	3,354.95
1	2007	385.13	252.58	181.26	311.44	675.32	610.34	745.17	299.12	3,333.08	500.29	329.19	1,997.55	3,422.26
2	2008	389.81	256.89	183.44	315.57	681.90	629.42	759.41	303.86	3,393.48	512.06	334.84	2,037.04	3,489.59
3	2009	394.47	261.20	185.63	319.69	688.47	648.58	773.64	308.58	3,453.88	523.82	340.50	2,076.54	3,556.92
4	2010	399.13	265.51	187.84	323.81	695.02	667.82	787.88	313.30	3,514.28	535.58	346.13	2,116.02	3,624.25
5	2011	403.74	269.84	190.06	327.91	701.48	687.42	802.11	318.00	3,574.69	547.32	351.75	2,155.52	3,691.61
6	2012	408.40	274.23	192.30	332.06	708.00	707.60	816.60	322.78	3,636.13	559.31	357.47	2,195.74	3,760.22
7	2013	413.12	278.70	194.58	336.27	714.58	728.36	831.35	327.62	3,698.63	571.58	363.28	2,236.72	3,830.10
8	2014	417.90	283.25	196.87	340.53	721.22	749.74	846.37	332.54	3,762.21	584.11	369.18	2,278.47	3,901.29
9	2015	422.18	287.15	198.94	344.32	727.31	765.82	859.04	336.81	3,816.31	594.28	374.26	2,313.48	3,961.04
10	2016	426.74	291.50	201.20	348.39	733.67	785.86	873.28	341.48	3,876.75	606.01	379.86	2,352.98	4,028.43
11	2017	431.34	295.92	203.48	352.52	740.09	806.42	887.75	346.20	3,938.15	617.96	385.55	2,393.15	4,096.97
12	2018	436.00	300.41	205.79	356.69	746.56	827.52	902.46	351.00	4,000.51	630.16	391.33	2,434.00	4,166.68
13	2019	440.70	304.97	208.13	360.91	753.09	849.17	917.42	355.86	4,063.87	642.59	397.19	2,475.56	4,237.57
14	2020	444.96	308.92	210.23	364.70	759.12	866.01	930.22	360.13	4,118.50	652.91	402.29	2,510.96	4,298.01
15	2021	449.47	313.29	212.54	368.76	765.39	886.43	944.46	364.76	4,179.00	664.63	407.88	2,550.45	4,365.43
16	2022	454.03	317.73	214.86	372.86	771.72	907.34	958.91	369.44	4,240.39	676.55	413.55	2,590.57	4,433.91
17	2023	458.63	322.23	217.22	377.02	778.10	928.74	973.58	374.18	4,302.68	688.69	419.30	2,631.32	4,503.47
18	2024	463.27	326.79	219.60	381.21	784.53	950.64	988.48	378.99	4,365.88	701.05	425.14	2,672.70	4,574.12
19	2025	467.51	330.79	221.75	385.00	790.49	968.13	1,001.40	383.25	4,421.00	711.49	430.26	2,708.43	4,635.13
20	2026	471.97	335.18	224.10	389.04	796.71	988.88	1,015.63	387.83	4,481.59	723.20	435.84	2,747.93	4,702.58
21	2027	476.48	339.63	226.47	393.13	802.98	1,010.07	1,030.07	392.47	4,543.01	735.10	441.50	2,788.00	4,771.01
22	2028	481.04	344.13	228.87	397.26	809.29	1,031.72	1,044.71	397.16	4,605.27	747.19	447.22	2,828.65	4,840.44
23	2029	485.64	348.70	231.30	401.43	815.66	1,053.83	1,059.56	401.90	4,668.39	759.49	453.03	2,869.90	4,910.87
24	2030	489.85	352.74	233.49	405.22	821.58	1,071.88	1,072.57	406.15	4,723.95	770.03	458.17	2,905.91	4,972.38
25	2031	494.53	357.42	235.97	409.48	828.04	1,094.85	1,087.81	411.00	4,788.69	782.70	464.11	2,948.28	5,044.73
26	2032	499.26	362.16	238.47	413.78	834.56	1,118.31	1,103.27	415.92	4,854.32	795.58	470.13	2,991.28	5,118.14
27	2033	504.03	366.97	240.99	418.12	841.12	1,142.28	1,118.96	420.89	4,920.85	808.68	476.23	3,034.90	5,192.62
28	2034	508.85	371.84	243.55	422.51	847.74	1,166.76	1,134.86	425.92	4,988.29	821.99	482.41	3,079.15	5,268.19
29	2035	513.71	376.77	246.12	426.95	854.40	1,191.77	1,150.99	431.01	5,056.66	835.51	488.67	3,124.05	5,344.85
30	2036	518.62	381.77	248.73	431.44	861.13	1,217.31	1,167.35	436.16	5,125.96	849.26	495.01	3,169.61	5,422.63
31	2037	523.58	386.84	251.37	435.97	867.90	1,243.40	1,183.94	441.37	5,196.21	863.24	501.43	3,215.83	5,501.53
32	2038	528.58	391.97	254.03	440.55	874.72	1,270.05	1,200.77	446.65	5,267.43	877.45	507.94	3,262.72	5,581.59
33	2039	533.64	397.17	256.72	445.17	881.60	1,297.27	1,217.84	451.98	5,339.62	891.89	514.53	3,310.30	5,662.81
34	2040	538.74	402.44	259.44	449.85	888.54	1,325.07	1,235.15	457.39	5,412.80	906.56	521.20	3,358.58	5,745.22
35	2041	543.89	407.78	262.19	454.57	895.53	1,353.47	1,252.71	462.85	5,486.98	921.48	527.96	3,407.55	5,828.82
36	2042	549.08	413.19	264.96	459.35	902.57	1,382.48	1,270.51	468.38	5,562.18	936.65	534.81	3,457.24	5,913.64
37	2043	554.33	418.68	267.77	464.17	909.67	1,412.11	1,288.57	473.98	5,638.41	952.06	541.75	3,507.66	5,999.70
38	2044	559.63	424.23	270.61	469.05	916.83	1,442.37	1,306.89	479.65	5,715.69	967.73	548.78	3,558.81	6,087.00
39	2045	564.98	429.86	273.47	473.98	924.04	1,473.29	1,325.46	485.38	5,794.02	983.66	555.90	3,610.70	6,175.58
40	2046	570.38	435.57	276.37	478.95	931.30	1,504.86	1,344.30	491.18	5,873.43	999.85	563.11	3,663.35	6,265.45

Notes: Actual Woods & Poole data for 2006 through 2010, 2015, 2020, 2025, and 2030.
Missing estimates through 2030 calculated using average annual growth rate for the 5-year period; projections after 2030 calculated using the average annual growth rate from 2025 to 2030.

Source: Woods & Poole Economics, Inc., 2006.

Table 4-1

Projected Oil and Gas Production in the Gulf of Mexico OCS

	Proposed Action	OCS Program (2007-2046)
Western Gulf of Mexico		
Reserve/Resource Production		
Oil (BBO)	0.242-0.423	6.629-8.060
Gas (Tcf)	1.644-2,647	52.211-59.961
Central Gulf of Mexico		
Reserve/Resource Production		
Oil (BBO)	0.776-1.292	21.933-24.510
Gas (Tcf)	3.236-5.229	90.155-102.761

BBO = billion barrels of oil.
Tcf = trillion cubic feet.

Table 4-2

Offshore Scenario Information Related to the Proposed Action in the Western Planning Area

	Offshore Subareas*							Total WPA**
	W0-60	W60-200	W200-400	W400-800	W800-1600	W1600-2400	W>2400	
Wells Drilled								
Exploration and Delineation Wells	23-36	5-7	1	3-4	5-10	2-3	3-5	42-66
Development Wells	64-89	13-15	6-7	9-13	48-75	9-15	6-8	155-221
Oil Wells	3-5	2-2	1-2	6-8	29-45	6-9	3-5	51-76
Gas Wells	61-84	10-13	5-5	3-5	20-30	3-6	2-3	105-146
Workovers and Other Well Activities	392-539	77-91	35-42	56-77	294-455	56-91	35-49	945-1,344
Production Structures								
Installed	21-31	2	1	1	1-3	1-2	1	28-41
Removed Using Explosives	9-15	1	0	0	0	0	0	11-17
Total Removed	13-22	2	1	1	1-3	1	1	20-31
Method of Oil Transportation***								
Percent Piped	99%	100%	100%	100%	0% -50%	0% -100%	0 -100%	41% -> 99%
Percent Barged	1%	0%	0%	0%	0%	0%	0%	< 1%
Percent Tankered	0%	0%	0%	0%	0% -50%	0% -100%	0% -100%	0% -59%
Length of Installed Pipelines (km)#	60-420	NA	NA	NA	NA	NA	NA	130-760
Blowouts	1	0	0	0	0-1	0	0	1-2
Service-Vessel Trips (1,000 round trips)	23-33	3	1	16-17	18-51	16-33	16-17	94-155
Helicopter Operations (1,000 operations)	300-680	30-44	14-22	14-22	14-66	14-44	14-22	400-900

*See Figure 4-1.
** Subarea totals may not add up to the planning area total because of rounding.
*** 100% of gas is assumed to be piped.
# Projected length of OCS pipelines does not include length in State waters.
NA means that information is not available.

Table 4-3

Offshore Scenario Information Related to the Proposed Action in the Central Planning Area

	Offshore Subareas*								Total CPA**
	C0-60 (western)	C0-60 (eastern)	C60-200	C200-400	C400-800	C800-1600	C1600-2400	C>2400	
Wells Drilled									
Exploration and Delineation Wells	14 - 16	3	9 - 12	7 - 11	9 - 14	10 - 18	7 - 12	6 - 10	65 - 96
Development Wells	51 - 59	9 - 10	22 - 26	75 - 107	61 - 83	56 - 91	37 - 59	20 - 33	330 - 468
Oil Wells	13 - 15	2 - 2	7 - 8	43 - 61	36 - 49	33 - 54	22 - 36	12 - 20	168 - 245
Gas Wells	38 - 44	7 - 8	15 - 18	32 - 46	25 - 33	23 - 37	15 - 23	8 - 14	162 - 223
Workovers and Other Well Activities	309 - 357	55 - 63	133 - 161	455 - 651	371 - 504	343 - 553	224 - 357	119 - 203	2,009 - 2,849
Production Structures									
Installed	17 - 18	3	2 - 3	1 - 3	1 - 3	1 - 4	1 - 3	2	28 - 39
Removed Using Explosives	10	2	2	0 - 1	0 - 1	0	0	0	14 - 16
Total Removed	14	2 - 3	2 - 3	1 - 3	1 - 3	1 - 4	1 - 3	2	24 - 35
Method of Oil Transportation***									
Percent Piped	99%	99%	100%	100%	100%	0% - 50%	0% - 100%	0% - 100%	57% - >99%
Percent Barged	1%	1%	0%	0%	0%	0%	0%	0%	<1%
Percent Tankered	0%	0%	0%	0%	0%	0% - 50%	0% - 100%	0% - 100%	0% - 43%
Length of Installed Pipelines (km)#	40 - 720	10 - 130	NA	NA	NA	NA	NA	NA	130 - 1,700
Blowouts	0	0	0	0	0 - 1	0 - 1	0	00	2 - 3
Service-Vessel Trips (1,000 round trips)	18 - 19	3	3 - 4	4 - 7	19 - 52	19 - 68	18 - 51	33 - 34	117 - 239
Helicopter Operations (1,000 operations)	607 - 1,016	107 - 169	71 - 169	36 - 169	36 - 169	36 - 226	36 - 169	71 - 113	1,000 - 2,200

* See Figure 4-1.
** Subarea totals may not add up to the planning area total because of rounding.
*** 100% of gas is assumed to be piped.
# Projected length of OCS pipelines does not include length in State waters.
NA means that information is not available.

Table 4-4

Offshore Scenario Information Related to OCS Program Activities
in the Gulf of Mexico for the Years 2007-2046

	Water Depths*							Total OCS**
	0-60	60-200	200-400	400-800	800-1600	1600-2400	>2400	
Wells Drilled								
Exploration and Delineation Wells	3,312 - 4,013	1,928 - 2,508	222 - 297	347 - 460	624 - 853	470 - 661	432 - 641	7,335 - 9,433
Development Wells	9,654 - 10,174	4,946 - 5,521	1,470 - 1,553	1,960 - 2,065	5,946 - 6,885	5,688 - 7,300	1,680 - 2,408	31,342 - 35,905
Oil Wells	1,667 - 1,722	1,450 - 1,581	728 - 761	1,248 - 1,306	3,813 - 4,387	3,904 - 4,908	1,042 - 1,482	13,850 - 16,148
Gas Wells	7,986 - 8,451	3,496 - 3,940	742 - 792	712 - 759	2,133 - 2,498	1,784 - 2,392	638 - 926	17,492 - 19,757
Workovers and Other Well Activities	58,765 - 61,930	30,107 - 33,607	8,946 - 9,450	11,928 - 12,565	36,190 - 41,909	34,615 - 44,436	10,227 - 14,658	190,778 - 218,555
Production Structures								
Installed	2,465 - 2,608	314 - 383	16 - 19	23 - 25	73 - 103	46 - 90	21 - 34	2,958 - 3,262
Removed Using Explosives	4,111 - 4,149	109 - 118	2 - 4	1	0	0	0	4,225 - 4,270
Total Removed	5,097 - 5,137	693 - 714	22 - 26	38 - 17	87 - 107	46 - 70	14 - 26	5,997 - 6,097
Method of Oil Transportation***								
Percent Piped	99%	100%	100%	100%	91% - 100%	95% - 100%	90% - 100%	94% - >99%
Percent Barged	1%	0%	0%	0%	0%	0%	0%	<1%
Percent Tankered	0%	0%	0%	0%	0% - 9%	0% - 5%	0% - 10%	0% - 6%
Length of Installed Pipelines (km)#	5,320 - 31,690	NA	NA	NA	NA	NA	NA	9,470 - 66,550
Blowouts	78 - 85	41 - 48	10 - 11	14 - 15	39 - 46	37 - 48	13 - 18	232 - 272
Service-Vessel Trips (1,000 trips)	2,781 - 2,965	570 - 683	82 - 91	459 - 501	1,425 - 1,951	976 - 1,750	421 - 667	6,714 - 8,608
Helicopter Trips (1,000 trips)	31,633 - 47,929	4,047 - 7,055	206 - 350	296 - 461	954 - 1,917	592 - 1,664	269 - 624	38,000 - 60,000

* See Figure 4-1.
** Water depth totals may not add up to the OCS total because of rounding.
*** 100% of gas is assumed to be piped.
# Projected length of OCS pipelines does not include length in State waters.
NA means that information is not available.

Table 4-5

Offshore Scenario Information Related to OCS Program Activities
in the Western Planning Area for the Years 2007-2046

	Offshore Subareas*							Total WPA**
	W0-60	W60-200	W200-400	W400-800	W800-1600	W1600-2400	W>2400	
Wells Drilled								
Exploration and Delineation Wells	888 - 1,097	787 - 858	64 - 83	120 - 155	203 - 276	130 - 197	133 - 198	2,325 - 2,864
Development Wells	2,652 - 2,826	1,370 - 1,547	269 - 290	301 - 337	2,145 - 2,490	933 - 1,505	491 - 668	8,160 - 9,662
Oil Wells	135 - 140	205 - 230	74 - 78	177 - 198	1,247 - 1,455	549 - 890	329 - 439	2,716 - 3,430
Gas Wells	2,517 - 2,685	1,165 - 1,317	196 - 212	124 - 139	898 - 1,035	384 - 615	162 - 229	5,446 - 6,232
Workovers and Other Well Activities	16,142 - 17,199	8,337 - 9,415	1,638 - 1,764	1,834 - 2,051	13,055 - 15,155	5,677 - 9,163	2,989 - 4,067	49,672 - 58,814
Production Structures								
Installed	666 - 710	99 - 115	5 - 6	7 - 8	34 - 43	14 - 31	5 - 9	830 - 922
Removed Using Explosives	632 - 661	104 - 112	1	1	0	0	0	738 - 775
Total Removed	864 - 904	149 - 160	4 - 5	8 - 10	34 - 43	8 - 18	5 - 8	1,072 - 1,148
Method of Oil Transportation***								
Percent Piped	99%	100%	100%	100%	88% - 100%	94% - 100%	83% - 100%	92 - >99%
Percent Barged	1%	0%	0%	0%	0%	0%	0%	<1%
Percent Tankered	0%	0%	0%	0%	0% - 12%	0% - 6%	0% - 17%	0% - 8%
Length of Installed Pipelines (km)#	2,340 - 9,580	NA	NA	NA	NA	NA	NA	5,050 - 22,960
Blowouts	21 - 24	13 - 14	2	3	14 - 17	6 - 10	4 - 5	63 - 75
Service-Vessel Trips (1,000 round trips)	753 - 810	181 - 206	18 - 21	129 - 148	635 - 796	266 - 563	105 - 179	2,087 - 2,722
Helicopter Operations (1,000 operations)	9,147 - 13,861	1,360 - 2,245	69 - 117	96 - 156	467 - 840	192 - 605	69 - 176	11,400 - 18,000

* See Figure 4-1.
** Subarea totals may not add up to the planning area total because of rounding.
*** 100% of gas is assumed to be piped.
# Projected length of OCS pipelines does not include length in State waters.
NA means that information is not available.

Table 4-6

Offshore Scenario Information Related to OCS Program Activities
in the Central Planning Area for the Years 2007-2046

	Offshore Subareas*								Total CPA**
	C0 - 60 (western)	C0 - 60 (eastern)	C60 - 200	C200 - 400	C400 - 800	C800 - 1600	C1600 - 2400	C>2400	
Wells Drilled									
Exploration and Delineation Wells	2,060 - 2,479	364 - 437	1,141 - 1,650	158 - 214	227 - 305	421 - 577	340 - 464	299 - 443	5,010 - 6,569
Development Wells	5,952 - 6,246	1,050 - 1,102	3,577 - 3,974	1,200 - 1,263	1,658 - 1,727	3,801 - 4,395	4,754 - 5,795	1,189 - 1,740	23,181 - 26,243
Oil Wells	1,303 - 1,345	230 - 237	1,245 - 1,351	654 - 683	1,071 - 1,108	2,566 - 2,932	3,355 - 4,018	713 - 1,043	11,137 - 12,718
Gas Wells	4,649 - 4,901	820 - 865	2,331 - 2,623	546 - 580	588 - 620	1,235 - 1,463	1,400 - 1,777	476 - 697	12,045 - 13,526
Workovers and Other Well Activities	36,230 - 38,021	6,393 - 6,710	21,770 - 24,192	7,308 - 7,686	10,094 - 10,514	23,135 - 26,754	28,938 - 35,273	7,238 - 10,591	141,106 - 159,741
Production Structures									
Installed	1,529 - 1,613	270 - 285	215 - 268	11 - 13	16 - 17	39 - 60	32 - 59	16 - 25	2,128 - 2,340
Removed Using Explosives	3,091 - 3,092	388 - 396	5 - 6	1 - 3	0	0	0	0	3,487 - 3,495
Total Removed	3,598 - 3,598	635 - 635	544 - 554	18 - 21	7 - 30	53 - 64	38 - 52	9 - 18	4,925 - 4,949
Method of Oil Transportation***									
Percent Piped	99%	99%	100%	100%	100%	92% - 100%	95% - 100%	93% - 100%	95% - >99%
Percent Barged	1%	1%	0%	0%	0%	0%	0%	0%	<1%
Percent Tankered	0%	0%	0%	0%	0%	0% - 8%	0% - 5%	0% - 7%	0% - 5%
Length of Installed Pipelines (km)#	2,530 - 18,790	450 - 3,320	NA	NA	NA	NA	NA	NA	4,420 - 43,590
Blowouts	48 - 52	8 - 9	28 - 34	8 - 9	11 - 12	25 - 30	31 - 38	9 - 13	169 – 197
Service-Vessel Trips (1,000 round trips)	1,724 - 1,832	304 - 324	389 - 477	64 - 71	330 - 353	790 - 1,155	711 - 1,188	316 - 488	4,627 - 5,887
Helicopter Operations (1,000 operations)	19,112 - 28,952	3,374 - 5,115	2,688 - 4,810	138 - 233	200 - 305	488 - 1,077	400 - 1,059	200 - 449	26,600 - 42,000

* See Figure 4-1.
** Subarea totals may not add up to the planning area total because of rounding.
*** 100% of gas is assumed to be piped.
# Projected length of OCS pipelines does not include length in State waters.
NA means that information is not available.

Table 4-7

Annual Volume of Produced Water Discharged by Depth (MMbbl)

Year	Water Depth							Total
	0-60 m	60-200 m	200-400 m	400-800 m	800-1600 m	1600-2400 m	>2400 m	
1996	397	129	10	10	no discharge	no discharge	no discharge	546
1997	415	129	10	8	no discharge	no discharge	no discharge	561
1998	451	146	12	11	no discharge	no discharge	no discharge	621
1999	466	152	14	12	0.01	no discharge	no discharge	644
2000	460	159	14	14	1	no discharge	no discharge	647
2001	502	153	12	17	2	no discharge	no discharge	686
2002	428	150	19	20	1	0.01	no discharge	617
2003	429	152	18	20	4	3	no discharge	626
2004	407	129	17	20	9	1	0.01	583
2005	296	85	12	19	15	4	0.04	431

Source: USDOI, MMS, 2006b.

Table 4-8

Average Annual Emission Rates
from OCS Infrastructures in the Gulf of Mexico

Infrastructure	NO_x	CO	SO_x	VOC	PM_{10}	$PM_{2.5}$
Platforms (tons/platform/year)	44.1	52.1	2.0	20.7	0.45	0.45
Exploration Well (tons/well)	40.5	4.3	6.8	0.4	1.0	1.0
Development Well (tons/well)[1]	21.5	5.7	2.5	2.1	0.60	0.60

[1] Assumes a 3,050-m hole, a 35-day drilling period in less than 400-m water depth, a 60-day drilling period in greater than 400-m water depth, and a power consumption of 180 horsepower hour/foot.

Source: USDOI, MMS, 1994.

Table 4-9

Projected New Coastal Infrastructure Related to OCS Activities in the Gulf of Mexico from the Years 2007-2046

Infrastructure	Texas	Louisiana	Mississippi and Alabama	Florida	OCS Program Total
Pipeline Landfalls	6-8	25-36	1-3	0	32-47
Service Bases	0	0	0	0	0
Helicopter Hubs	0	0	0	0	0
Platform Yards	0	0	0	0	0
Shipyards	0	0	0	0	0
Pipecoating Plants	0	0	0	0	0
Refineries	0	0	0	0	0
Petrochemical Plants	0	0	0	0	0
Gas Processing Plants	2	3	9	0	14
Pipeline Shore Facilities	1-2	3-5	0-1	0	4-6
Barge Terminals	0	0	0	0	0
Tanker Ports	0	0	0	0	0
Waste Disposal Plants	0	0	0	0	0

Table 4-10

LNG Proposed or Licensed Projects (Deepwater Ports) in the Gulf of Mexico

Project Name	Affiliations	Proposed Location (Area and Block)	Proposed Capacity* (Cf/d)	USDOT Docket Number
Gulf Gateway (formerly Energy Bridge)	Excelerate Energy	West Cameron 603	690 million	14294
Gulf Landing	Shell US Gas & Power	West Cameron 213	1.2 billion	16860
Main Pass Energy Hub	Freeport McMoRan Energy	Main Pass 299	1.6 billion	17696
Beacon Port	ConocoPhillips	High Island A27	1.8 billion	21232
Bienville Offshore Energy Terminal	TORP Terminal LP	Main Pass 258	1.4 billion	24644

* Peak capacity estimates.
Cf/d = cubic feet per day.

Table 4-11

Average Annual Inputs (1990-1999)
of Petroleum Hydrocarbons to Coastal Waters of the Gulf of Mexico

	Western GOM		Eastern GOM	
	(tonnes)	(bbl)	(tonnes)	(bbl)
Extraction of Petroleum				
Platforms Spills	90	630	trace[1]	trace
Atmospheric Releases (VOC's)	trace	trace	trace	trace
Permitted Produced-Water Discharges	590	4,130	trace	trace
Sum of Extraction Inputs	680	4,760	trace	trace
Transportation of Petroleum				
Pipelines Spills	890	6,230	trace	trace
Tank Vessel Spills	770	5,390	140	980
Coastal Facilities Spills[2]	740	5,180	10	70
Atmospheric Releases (VOC's)[3]	trace	trace	trace	trace
Sum of Transportation Inputs[4]	2,400	16,800	160	1,120
Consumption of Petroleum				
Land-based Sources[5]	11,000	77,000	1,600	11,200
Recreational Vessels	770	5,390	770	5,390
Vessel >100 GT (spills)[6]	100	700	30	210
Vessel >100 GT (operational discharges)	trace	trace	trace	trace
Vessel <100 GT (operational discharges)	trace	trace	trace	trace
Deposition of Atmospheric Releases (VOC's)	90	630	60	420
Aircraft Jettison of Fuel	NA[7]	NA	NA	NA
Sum of Consumption	12,000	84,000	2,500	17,500

Notes:
[1]Trace indicates less than 70 bbl (10 tonnes).
[2]Coastal facility spills does not include spills in coastal waters related to exploration and production spills or spills from vessels. The category "Coastal Facilities" includes the following: aircraft, airport, refined product in coastal pipeline, industrial facilities, marinas, marine terminals, military facilities, municipal facilities, reception facilities, refineries, shipyards, and storage tanks.
[3]Volatization of light hydrocarbons during tank vessel loading, washing, and voyage.
[4]Sums may not match.
[5]Inputs from land-based sources during consumption of petroleum are the sum of diverse sources. Three categories of wastewater discharge are summed: municipal, industrial (not related to petroleum refining), and petroleum refinery wastewater. Urban runoff is included. It results from oil droplets from vehicles washing into waterways from parking lots and roads and the improper disposal of oil containing consumer products.
[6]GT – Gross tons.
[7]NA – not available.

Source: NRC, 2003.

Table 4-12

Average Annual Inputs (1990-1999)
of Petroleum Hydrocarbons to Offshore Waters of the Gulf of Mexico

	Western GOM		Eastern GOM	
	(tonnes)	(bbl)	(tonnes)	(bbl)
Natural Sources				
Seeps	70,000	490,000	70,000	490,000
Extraction of Petroleum				
Platforms	50	350	trace[1]	trace
Atmospheric Releases (VOC's)	60	420	trace	trace
Permitted Produced-Water Discharges	1,700	11,900	trace	trace
Sum of Extraction	1,800	12,600	trace	trace
Transportation of Petroleum				
Pipelines	60	420	trace	trace
Tank Vessels	1,500	10,500	10	70
Atmospheric Releases (VOC's)	trace	trace	trace	trace
Sum of Transportation	1,600	11,200	10	70
Consumption of Petroleum				
Land-based Consumption[2]	NA	NA	NA	NA
Recreational Vessel Consumption[3]	NA	NA	NA	NA
Vessel >100 GT[4] (spill)	120	840	70	490
Vessel >100 GT (operational discharges)	25	175	trace	trace
Vessel <100 GT (operational discharges)	trace	trace	trace	trace
Deposition of Atmospheric Releases (VOC's)	1,200	8,400	1,600	11,200
Aircraft Jettison of Fuel	80	560	80	560
Sum of Consumption[5]	1,400	9,800	1,800	12,600

Notes:
[1]Trace indicates less than 70 bbl (10 tonnes).
[2]Limited to coastal zone.
[3]Limited to within 3 mi of the coast.
[4]GT – Gross tons.
[5]Sums may not match.
VOC = volatile organic compounds.

Source: NRC, 2003.

Table 4-13

Annual Oil-Spill Occurrence within Coastal and Offshore Waters of the Gulf of Mexico (Gulfwide Estimates)

Source	Number of Spills ≥1,000 bbl	Assumed Size (bbl)	Source	Number of Spills <1,000 bbl	Assumed Size (bbl)
Offshore Spills			Offshore Spills		
Total All Sources	1 per year		Total All Sources	1,500-1,800 per year	5
Total Non-OCS Sources			Non-OCS Sources	1,000-1,300 per year	5
Tank Ship	<1 per year	14,600	Tank Ship	5-10 per year	5
Tank Barge	<1 per year	3,000	Tank Barge	2-5 per year	5
Total OCS Program Sources			Unknown and Other	1,000-1,200 per year	5
Facility	<1 per year	1,500			
Pipeline	1 per year	4,600	Total OCS Program Sources (MODU, platform, pipeline)	450-500 per year	5
Shuttle Tanker	1 in next 40 years	14,600			
Coastal Spills			Coastal Spills		
Total All Sources	1 per year		Total All Sources	440-650 per year	5
Non-OCS Sources	3 per 6 years		Non-OCS Sources	400-600 per year	
Tank Ship	1 per 6 years	4,500	Tank Ship	2 per year	5
Tank Barge	1 per 6 years	3,000	Tank Barge	1 per year	5
Other	1 per 6 years	4,200	Unknown and Other	400-600 per year	5
Total OCS Sources	1 per 6 years	4,200	Total OCS Sources	40-50 per year	5

Note: The estimated number of offshore OCS Program spills ≥1,000 bbl was determined using 40-year program resource projections (2007-2042) and Anderson and LaBelle (2000) spill rates (Table 4-15). For offshore non-OCS spills ≥1,000 bbl, coastal OCS and non-OCS spills ≥1,000, and all sources of spills <1,000 bbl, the historical number of spills per year is presented (Dickey, 2006). The assumed size of spills ≥1,000 bbl was obtained from Anderson and LaBelle (2000), and the assumed size of spills <1,000 bbl is the median size of all spills 1-999 bbl (1996-2001).

Table 4-14

OCS and Non-OCS Program Spill Rates

OCS Program Spill Rates	
<1,000 bbl	
≤1 bbl	3,357 spills/BBO handled
≥1 and < 50 bbl	91 spills/BBO handled
≥50 bbl and <1,000 bbl	7 spills/BBO handled
≥1,000 bbl	
Facility	0.13 spills/BBO handled
Pipeline	1.38 spills/BBO handled
Shuttle Tanker	0.73 spills/BBO handled
Offshore	0.29 spills/BBO handled
Coastal	0.44 spills/BBO handled
Barge	1.23 spills/BBO handled
Non-OCS Program Spill Rates	
≤1,000 bbl	rate based on yearly occurrence information
≥1,000 bbl	
Import Tanker	0.82 spills/BBO handled
Offshore	0.36 spills/BBO handled
Coastal	0.46 spills/BBO handled
Coastwise Tanker	0.73 spills/BBO handled
Offshore	0.29 spills/BBO handled
Coastal	0.44 spills/BBO handled
Barge	1.23 spills/BBO handled
Pipeline	rate based on yearly occurrence information

BBO = billion barrels of oil.

Table 4-15

Probability of One or More Offshore Spill Events (percent chance) and the Mean Number of Spills Estimated for Two Size Groups (≥1,000 bbl and ≥10,000 bbl) that Could Occur as a Result of an Accident Associated with Either Facility, Pipeline, or Tanker OCS Program Operations

	OCS Facilities		OCS Pipelines		OCS Shuttle Tankers		All OCS Sources	
	Low	High	Low	High	Low	High	Low	High
For Possible Spills Occurring ≥1,000 bbl								
Western Planning Area – OCS Program								
Mean Number of Spills	<1	1	9	10	<1	<1	10	12
Probability of Occurrence (%)	58	65	99+	99+	<0.5	28	99+	99+
Central Planning Area – OCS Program								
Mean Number of Spills	3	3	30	32	<1	1	33	36
Probability of Occurrence (%)	94	96	99+	99+	<0.5	63	99+	99+
Gulfwide OCS Program								
Mean Number of Spills	4	4	39	45	<1	<1	43	49
Probability of Occurrence (%)	98	99	99+	99+	<0.5	<0.5	99+	99+
For Possible Spills Occurring ≥10,000 bbl								
Western Planning Area – OCS Program								
Mean Number of Spills	<1	<1	2	3	<1	<1	3	3
Probability of Occurrence (%)	28	33	90	92	<0.5	11	92	96
Central Planning Area – OCS Program								
Mean Number of Spills	1	1	7	8	<1	<1	9	9
Probability of Occurrence (%)	67	71	99+	99+	<0.5	29	99+	99+
Gulfwide OCS Program								
Mean Number of Spills	1	2	10	11	<1	<1	11	13
Probability of Occurrence (%)	76	80	99+	99+	<0.5	<0.5	99+	99+

Note: The mean number of spills estimated and the probability of occurrence are derived from by application of the historical rate of spills per volume crude oil handled (1985-1999) (Anderson and LaBelle, 2000) to the projected Gulfwide OCS total production over a future 40-year period. The actual number of spills that may occur in the future could vary from the estimated number.

Table 4-16

OCS Offshore Oil Spills[1] (1985-1999)

Spill Size Grouping	Total Number of Spills	Total Volume of Oil Spilled (bbl)	Number of Spills by Source Facility[2]/ Pipeline	Spill Rate[3] (spills/BBO)	Average Spill Size (bbl)	Median Spill Size (bbl)
0-1.0 bbl	19,506	1,365	Unavailable	3,357.31	0.07	Unavailable
1.1-9.9 bbl	434	1,302	326/108	74.70	3.0	2.8
10.0-49.9 bbl	94	1,795	66/28	16.18	19.1	17.8
50.0-499.9 bbl	37	4,551	28/9	6.37	123	87
500.0-999.9 bbl	3	2,043	2/1	0.52	681	643
≥1,000 bbl	8	53,730	0/8	0.13/1.38[4]	6,716	4,551
≥10,000 bbl	2	30,000	0/2	0.05/0.34[4]	15,000	15,000

[1] Oil spilled includes crude oil, condensate, and refined petroleum products.
[2] Facilities represent spills that have occurred during drilling, development, and production operations.
[3] Spill rate = spills per BBO handled; BBO = 10^9 bbl (from 1985 to 1999 OCS production = 5.81 BBO).
[4] Facility spills rate/pipeline spill rate.

Source: Anderson and LaBelle, 2000.

Table 4-17

Projected Average Annual OCS Emissions Related to the Proposed Action in the WPA by Source (tons per year)

Activity/Pollutant	NO_x	CO	SO_x	VOC	PM_{10}	$PM_{2.5}$
Support Vessels	388-568	50-73	66-97	5-8	10-14	10-14
Survey Vessels	1-2	0-0.2	0	0	0	0
Pipeline Vessels	135-1,756	14-184	23-295	1-17	3-44	3-44
Helicopters	10-14	41-61	1-2	16-23	1	1
Tanker/Barge Transport	21-42	4-7	4-7	17-34	1	1
Platform Construction	102-163	13-20	17-28	1-2	3-4	3-4
Exploration and Delineation Wells	263-389	28-41	44-66	3-4	7-10	7-10
Platforms	749-1,498	884-1,769	33-67	571-1,143	8-15	8-15
Totals	1,669-4,432	1,034-2,155	189-561	615-1230	33-89	33-89

Table 4-18

Class I
OCD Modeling Results for a Proposed Action in the Western Planning Area
and the Corresponding Maximum Allowable Increases

Pollutant Averaging Period	Class I Maximum Allowable Increase*	Class I Modeled Impact**
SO_2		
Annual	2.0 µg/m^3	0.00-0.02 µg/m^3
24-hour	5.0 µg/m^3	0.14 µg/m^3
3-hour	25.0 µg/m^3	0.6-0.7 µg/m^3
NO_2		
Annual	2.5 µg/m^3	0.09-0.12 µg/m^3
PM_{10}		
Annual	4.0 µg/m^3	0.00-0.01 µg/m^3
24-hour	8.0 µg/m^3	0.06 µg/m^3

* 30 CFR 250.303.
** Calculated using MMS's Offshore and Coastal Dispersion (OCD) Model.

Source: 40 CFR 51.166, 1996.

Table 4-19

Class II
OCD Modeling Results for a Proposed Action in the Western Planning Area
and the Corresponding Maximum Allowable Increases

Pollutant Averaging Period	Class II Maximum Allowable Increase*	Class II Modeled Impact**
SO_2		
Annual	20.0 µg/m^3	0.04 µg/m^3
24-hour	91.0 µg/m^3	0.5 µg/m^3
3-hour	512.0 µg/m^3	1.8-1.9 µg/m^3
NO_2		
Annual	25.0 µg/m^3	0.36-0.42 µg/m^3
PM_{10}		
Annual	17.0 µg/m^3	0.02 µg/m^3
24-hour	30.0 µg/m^3	0.2 µg/m^3

* 30 CFR 250.303.
** Calculated using MMS's Offshore and Coastal Dispersion (OCD) Model.

Source: 40 CFR 51.166, 1996.

Table 4-20

Population Projections for a Proposed WPA Lease Sale by Economic Impact Area Over 40 Years

Calendar Year	Model Year	AL-1 Low High	MS-1 Low High	LA-1 Low High	LA-2 Low High	LA-3 Low High	LA-4 Low High	TX-1 Low High	TX-2 Low High	TX-3 Low High	FL-1 Low High	FL-2 Low High	FL-3 Low High	FL-4 Low High	Total EIA Low High
2007	1	36 - 51	25 - 36	26 - 38	302 - 436	284 - 402	136 - 194	56 - 81	42 - 63	578 - 815	54 - 75	13 – 19	18 - 26	8 - 11	1,579 - 2,247
2008	2	104 - 138	78 - 101	72 - 94	825 - 1,113	809 - 1,082	371 - 512	155 - 204	114 - 146	1,669 - 2,279	133 - 186	36 - 49	86 - 101	32 - 38	4,483 - 6,043
2009	3	192 - 241	140 - 173	127 - 156	1,260 - 1,624	1,432 - 1,809	730 - 913	268 - 335	197 - 239	3,351 - 4,193	173 - 248	81 - 97	142 - 164	94 - 103	8,186 - 10,294
2010	4	77 - 103	56 - 77	53 - 72	483 - 740	570 - 789	314 - 423	107 - 145	86 - 114	1,364 - 1,866	44 - 72	38 - 48	52 - 70	47 - 54	3,292 - 4,574
2011	5	99 - 163	73 - 121	68 - 110	652 - 1,085	743 - 1,227	395 - 655	139 - 225	110 - 174	1,760 - 2,940	61 - 105	47 - 76	78 - 118	58 - 93	4,283 - 7,092
2012	6	47 - 70	39 - 57	37 - 54	415 - 618	372 - 565	150 - 241	80 - 118	64 - 92	698 - 1,121	49 - 74	16 - 24	73 - 105	18 - 25	2,057 - 3,165
2013	7	70 - 164	60 - 130	56 - 118	622 - 1,266	562 - 1,275	218 - 588	121 - 256	97 - 196	1,055 - 2,791	70 - 133	23 - 65	127 - 227	29 - 80	3,111 - 7,290
2014	8	85 - 153	72 - 128	67 - 116	744 - 1,350	676 - 1,239	260 - 529	146 - 257	116 - 196	1,271 - 2,542	82 - 145	27 - 55	156 - 260	36 - 64	3,739 - 7,033
2015	9	68 - 153	60 - 127	56 - 115	620 - 1,222	544 - 1,199	200 - 529	121 - 249	100 - 197	972 - 2,511	60 - 112	22 - 60	140 - 246	32 - 81	2,996 - 6,801
2016	10	58 - 87	51 - 77	49 - 73	545 - 823	467 - 708	173 - 273	106 - 158	90 - 131	807 - 1,270	53 - 78	19 - 29	114 - 176	27 - 39	2,559 - 3,921
2017	11	50 - 76	45 - 68	44 - 67	491 - 747	410 - 628	152 - 241	95 - 143	82 - 122	678 - 1,082	48 - 71	17 - 26	94 - 146	23 - 34	2,227 - 3,450
2018	12	49 - 71	44 - 64	44 - 65	492 - 722	402 - 589	152 - 225	94 - 138	83 - 121	658 - 963	48 - 69	17 - 25	84 - 126	22 - 32	2,190 - 3,210
2019	13	50 - 75	45 - 68	47 - 70	517 - 782	418 - 629	161 - 244	99 - 149	89 - 133	677 - 1,019	50 - 75	18 - 27	82 - 126	23 - 34	2,275 - 3,430
2020	14	99 - 146	80 - 121	77 - 117	773 - 1,241	772 - 1,168	359 - 533	165 - 247	138 - 209	1,610 - 2,326	71 - 113	44 - 62	110 - 164	58 - 79	4,356 - 6,525
2021	15	53 - 148	47 - 123	50 - 120	557 - 1,278	443 - 1,191	173 - 543	107 - 255	97 - 217	711 - 2,360	54 - 117	20 - 64	81 - 163	24 - 80	2,416 - 6,659
2022	16	53 - 82	47 - 73	51 - 79	564 - 886	445 - 692	175 - 277	109 - 170	99 - 155	715 - 1,113	55 - 86	20 - 32	78 - 122	23 - 35	2,435 - 3,801
2023	17	52 - 81	46 - 72	51 - 80	561 - 888	439 - 689	175 - 277	109 - 171	100 - 157	706 - 1,108	55 - 86	21 - 33	74 - 117	23 - 35	2,409 - 3,794
2024	18	51 - 79	44 - 69	50 - 78	552 - 876	429 - 675	172 - 274	107 - 170	99 - 156	693 - 1,089	54 - 85	21 - 33	70 - 111	22 - 33	2,363 - 3,730
2025	19	47 - 74	41 - 65	47 - 75	526 - 830	400 - 628	159 - 252	102 - 161	95 - 151	621 - 974	52 - 82	19 - 31	64 - 99	20 - 30	2,195 - 3,450
2026	20	46 - 71	40 - 62	46 - 73	515 - 810	391 - 611	156 - 246	100 - 158	94 - 148	606 - 949	51 - 80	19 - 31	61 - 94	19 - 29	2,145 - 3,363
2027	21	44 - 69	38 - 60	45 - 71	500 - 787	378 - 591	152 - 240	98 - 154	92 - 145	586 - 921	49 - 78	19 - 30	58 - 89	18 - 28	2,076 - 3,261
2028	22	42 - 66	36 - 57	43 - 68	476 - 757	358 - 567	144 - 231	94 - 149	88 - 140	556 - 884	47 - 75	18 - 29	54 - 83	17 - 27	1,973 - 3,132
2029	23	40 - 63	34 - 54	41 - 65	455 - 724	342 - 542	138 - 221	90 - 143	84 - 135	533 - 845	45 - 72	18 - 28	51 - 79	16 - 25	1,888 - 2,996
2030	24	38 - 59	33 - 51	38 - 61	430 - 681	324 - 511	131 - 208	85 - 135	80 - 127	505 - 797	43 - 68	17 - 27	48 - 73	15 - 24	1,786 - 2,822
2031	25	35 - 55	30 - 48	36 - 57	399 - 635	301 - 477	122 - 194	80 - 126	74 - 119	471 - 744	40 - 64	16 - 25	44 - 68	14 - 22	1,662 - 2,634
2032	26	32 - 51	28 - 44	33 - 52	368 - 583	279 - 439	112 - 178	74 - 117	69 - 110	434 - 683	37 - 59	14 - 23	41 - 63	13 - 20	1,534 - 2,422
2033	27	30 - 47	26 - 41	30 - 48	341 - 537	259 - 406	104 - 164	69 - 108	64 - 101	403 - 632	34 - 54	13 - 21	38 - 58	12 - 19	1,425 - 2,235
2034	28	28 - 43	24 - 37	28 - 44	314 - 495	239 - 375	95 - 151	64 - 100	59 - 93	372 - 585	32 - 50	12 - 20	35 - 54	11 - 18	1,313 - 2,066
2035	29	25 - 40	22 - 35	26 - 41	288 - 458	220 - 349	87 - 140	59 - 93	54 - 87	342 - 544	29 - 47	11 - 18	32 - 50	10 - 16	1,206 - 1,918
2036	30	24 - 37	21 - 32	24 - 37	267 - 421	205 - 321	81 - 128	55 - 86	50 - 80	317 - 501	27 - 43	11 - 17	30 - 46	10 - 15	1,119 - 1,765
2037	31	22 - 34	19 - 30	22 - 35	247 - 390	190 - 299	75 - 119	51 - 80	47 - 74	295 - 465	25 - 40	10 - 16	28 - 43	9 - 14	1,040 - 1,638
2038	32	22 - 34	19 - 29	21 - 33	241 - 374	191 - 292	80 - 120	50 - 77	45 - 71	303 - 463	24 - 38	10 - 15	27 - 41	9 - 14	1,043 - 1,601
2039	33	28 - 40	23 - 33	26 - 37	283 - 410	251 - 350	119 - 160	60 - 86	53 - 77	418 - 575	28 - 41	12 - 17	29 - 42	10 - 14	1,340 - 1,882
2040	34	22 - 34	18 - 28	21 - 32	228 - 355	195 - 295	83 - 125	48 - 75	43 - 67	309 - 484	23 - 36	9 - 15	25 - 39	8 - 13	1,033 - 1,599
2041	35	23 - 38	19 - 32	20 - 35	227 - 385	200 - 338	89 - 153	49 - 83	43 - 71	327 - 610	23 - 39	10 - 18	24 - 41	8 - 16	1,061 - 1,860
2042	36	16 - 28	14 - 25	15 - 27	175 - 309	138 - 247	55 - 106	37 - 66	33 - 57	215 - 452	18 - 31	7 - 14	20 - 36	7 - 14	751 - 1,412
2043	37	15 - 31	13 - 27	15 - 29	168 - 328	134 - 279	54 - 127	36 - 71	32 - 61	212 - 515	17 - 33	7 - 15	20 - 36	6 - 15	730 - 1,566
2044	38	15 - 27	13 - 24	14 - 26	161 - 294	129 - 242	54 - 111	34 - 64	30 - 54	209 - 458	16 - 29	7 - 14	19 - 33	6 - 13	708 - 1,389
2045	39	14 - 28	12 - 24	13 - 26	153 - 294	123 - 253	52 - 117	33 - 64	29 - 54	200 - 476	16 - 30	6 - 14	18 - 32	6 - 13	674 - 1,427
2046	40	13 - 23	11 - 20	12 - 22	140 - 247	113 - 202	46 - 89	30 - 54	27 - 46	181 - 386	14 - 25	6 - 12	17 - 29	5 - 12	614 - 1,166

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table 4-21

Population Projected from a Proposed CPA Lease Sale as a Percent of Total Population by Economic Impact Area

Calendar Year	Model Year	AL-1	MS-1	LA-1	LA-2	LA-3	LA-4	TX-1	TX-2	TX-3	FL-1	FL-2	FL-3	FL-4	Total EIA
		Low High	Low High	Low High	Low High	Low High	Low High	Low High	Low High	Low High	Low High	Low High	Low High	Low High	Low High
2007	1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2008	2	0.0 - 0.1	0.0 - 0.1	0.1 - 0.1	0.4 - 0.5	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.1 - 0.1	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1
2009	3	0.0 - 0.0	0.0 - 0.1	0.1 - 0.1	0.3 - 0.5	0.2 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.1	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1
2010	4	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.2 - 0.3	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2011	5	0.0 - 0.1	0.0 - 0.1	0.1 - 0.1	0.3 - 0.8	0.2 - 0.5	0.1 - 0.2	0.0 - 0.1	0.1 - 0.1	0.1 - 0.2	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1
2012	6	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.2 - 0.4	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1
2013	7	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.2 - 0.4	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2014	8	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.2 - 0.4	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2015	9	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2016	10	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2017	11	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2018	12	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2019	13	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2020	14	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2021	15	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2022	16	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2023	17	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2024	18	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2025	19	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2026	20	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2027	21	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2028	22	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2029	23	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2030	24	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2031	25	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2032	26	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2033	27	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2034	28	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2035	29	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2036	30	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2037	31	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2038	32	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2039	33	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2040	34	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2041	35	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2042	36	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2043	37	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2044	38	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2045	39	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2046	40	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table 4-22

Low-Case Employment (Direct, Indirect, and Induced) Projections for a Proposed WPA Sale by Economic Impact Area Over 40 Years

EIA	Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total
AL-1	Direct	14	41	74	30	38	19	28	34	27	23	20	20	21	40	22	22	21	21	19	19	18	17	17	16	15	14	13	12	11	10	9	9	12	9	10	7	7	6	6	6	776
	Indirect	3	9	17	7	9	4	6	7	6	5	4	4	4	9	5	5	5	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	3	2	2	1	1	1	1	1	170
	Induced	2	5	9	3	4	2	3	4	3	3	3	3	3	5	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	1	1	1	100
	Total	19	54	100	41	52	25	38	45	37	31	27	27	28	54	29	29	29	28	26	26	25	23	22	21	20	18	17	16	15	14	13	13	16	13	13	9	9	9	8	8	1,046
FL-1	Direct	11	28	40	12	17	14	22	26	22	19	17	17	18	25	20	20	20	19	19	18	18	17	16	15	14	13	12	11	11	10	9	9	10	8	8	7	6	6	6	5	617
	Indirect	13	30	35	7	10	8	10	11	6	5	4	4	5	7	5	5	5	5	5	5	5	5	5	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	247
	Induced	7	16	22	6	8	6	8	10	7	6	6	6	6	9	6	7	7	6	6	6	6	6	5	5	5	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	232
	Total	30	74	97	25	35	28	40	47	34	30	27	27	29	41	31	32	32	31	30	30	29	28	26	25	23	22	20	19	17	16	15	14	16	14	13	11	10	10	9	9	1,095
FL-2	Direct	4	12	26	12	15	5	8	9	7	6	6	6	6	15	7	7	7	7	7	7	6	6	6	6	5	5	5	4	4	4	3	3	4	3	3	2	2	2	2	2	259
	Indirect	1	3	6	3	4	1	2	2	2	1	1	1	1	3	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	60
	Induced	2	4	10	5	6	2	3	3	3	2	2	2	2	6	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	1	1	1	99
	Total	7	19	43	20	25	8	12	15	12	10	9	9	10	24	11	11	11	11	11	11	10	10	10	9	9	8	7	7	6	6	5	5	7	5	5	4	4	4	4	3	417
FL-3	Direct	6	27	44	16	25	24	42	52	46	38	32	29	28	37	28	27	26	25	23	22	21	19	18	17	16	15	14	13	12	11	10	10	11	9	9	8	7	7	7	6	832
	Indirect	2	9	14	5	8	8	14	17	15	12	10	9	9	11	9	8	8	7	7	6	6	6	5	5	5	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	257
	Induced	3	13	23	9	13	11	19	24	21	17	14	13	13	18	13	12	12	11	10	10	9	9	8	8	7	7	6	6	5	5	5	4	5	4	4	3	3	3	3	3	386
	Total	10	49	81	30	45	43	75	92	83	68	56	51	50	66	49	48	45	43	40	38	36	33	31	30	28	25	24	22	20	19	18	17	18	16	15	13	13	12	11	11	1,475
FL-4	Direct	2	10	27	13	16	6	11	13	12	10	8	8	8	18	8	8	8	8	7	7	6	6	5	5	5	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	279
	Indirect	1	3	11	6	7	1	2	3	2	2	2	2	2	6	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	74
	Induced	1	5	15	8	9	2	4	5	4	3	3	3	3	9	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	120
	Total	4	18	52	26	32	10	16	20	18	15	13	12	13	33	13	13	13	12	11	11	10	9	9	9	8	7	7	6	6	5	5	5	5	5	5	4	4	3	3	3	473
LA-1	Direct	10	27	46	19	25	14	21	26	22	19	17	17	18	30	20	20	20	20	19	19	18	18	17	16	15	14	13	12	11	10	9	9	11	9	9	7	7	6	6	6	654
	Indirect	2	5	9	4	5	2	3	4	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	111
	Induced	3	8	13	6	7	4	7	8	7	6	6	6	6	9	7	7	7	7	6	6	6	6	6	5	5	5	4	4	4	3	3	3	4	3	3	2	2	2	2	2	209
	Total	14	39	68	29	37	21	31	38	32	28	26	26	27	45	30	30	30	30	29	28	28	26	25	24	22	21	19	18	16	15	14	14	17	14	14	10	10	10	9	8	973
LA-2	Direct	94	262	400	151	208	134	203	245	205	181	163	164	173	260	187	190	189	187	178	175	170	162	156	148	138	127	119	109	101	94	87	86	101	82	82	63	61	59	56	51	5,998
	Indirect	24	66	112	47	62	32	47	57	46	41	37	37	40	69	43	44	45	44	42	42	41	39	38	36	33	31	29	26	24	23	21	21	27	21	21	15	15	14	14	12	1,478
	Induced	43	116	171	66	90	65	98	118	101	90	82	83	88	123	96	98	99	98	94	93	91	87	83	79	74	68	64	59	54	50	47	45	52	42	42	34	32	31	29	27	3,001
	Total	161	444	684	264	359	230	348	419	352	311	282	284	300	452	327	333	332	329	315	310	301	288	277	262	245	227	211	195	179	167	155	152	179	145	145	112	108	104	99	91	10,477
LA-3	Direct	103	296	512	195	259	135	205	247	197	169	147	143	148	274	156	156	154	150	139	135	131	124	118	112	104	96	90	83	76	71	66	67	89	69	71	49	47	46	44	40	5,512
	Indirect	28	77	153	68	86	37	55	66	53	46	41	41	43	88	47	48	48	47	44	43	42	40	39	37	34	32	30	27	25	23	22	22	30	23	24	16	15	15	14	13	1,683
	Induced	36	101	180	74	96	51	77	93	77	67	60	60	63	110	68	69	69	68	64	63	61	58	56	53	49	46	42	39	36	34	31	31	39	31	32	23	22	21	20	19	2,289
	Total	166	475	844	338	441	222	336	406	328	282	248	245	255	472	271	273	270	265	247	242	234	222	213	201	188	174	162	150	138	128	119	120	158	123	126	87	85	82	78	72	9,485
LA-4	Direct	39	109	203	81	106	44	65	79	61	52	45	45	47	102	50	50	50	49	45	44	43	40	39	37	34	32	30	27	25	23	22	24	36	24	27	16	17	17	16	14	1,907
	Indirect	17	44	100	50	61	20	29	34	27	24	22	23	25	59	28	29	29	29	28	28	27	26	25	24	22	21	19	18	16	15	14	15	21	16	16	10	10	10	9	8	1,049
	Induced	21	59	119	52	66	25	37	44	34	30	27	27	29	65	32	32	32	32	30	29	29	28	27	25	23	22	20	19	17	16	15	16	24	17	18	11	11	11	11	10	1,190
	Total	77	212	422	183	233	89	131	157	122	106	93	95	100	225	109	111	111	111	103	101	98	94	91	86	80	74	69	64	59	54	51	54	81	57	61	38	38	38	36	32	4,146
MS-1	Direct	10	29	51	20	27	14	22	27	22	19	17	17	17	30	18	18	18	17	16	16	15	14	14	13	12	11	10	10	9	8	8	8	9	7	8	6	5	5	5	5	609
	Indirect	2	5	10	4	6	3	5	6	5	4	4	3	3	6	4	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	2	1	1	1	1	1	1	1	117
	Induced	2	7	13	5	7	3	5	7	6	5	4	4	4	8	5	5	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	152
	Total	13	41	74	30	39	21	32	39	33	28	25	24	25	45	26	26	26	25	23	23	22	20	20	18	17	16	15	14	13	12	11	11	13	11	11	8	8	7	7	7	878
TX-1	Direct	15	42	71	28	36	21	32	39	33	28	25	25	26	43	28	29	29	28	27	26	26	24	23	22	21	19	18	17	15	14	13	13	15	12	13	10	9	9	8	8	942
	Indirect	3	9	18	8	10	4	7	8	6	5	5	5	5	10	6	6	6	6	5	5	5	5	5	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	198
	Induced	6	17	28	11	15	9	14	17	14	12	11	11	12	19	13	13	13	13	12	12	12	11	11	10	10	9	8	8	7	7	6	6	7	6	6	4	4	4	4	4	417
	Total	24	68	117	47	61	35	53	64	53	46	41	41	43	72	47	48	47	47	45	44	43	41	39	37	35	32	30	28	25	24	22	22	26	21	21	16	15	15	14	13	1,557
TX-2	Direct	14	37	62	26	34	22	33	40	34	31	28	29	30	45	33	34	34	34	33	32	32	30	29	28	26	24	22	20	19	18	16	16	18	15	15	12	11	11	10	9	1,044
	Indirect	3	8	18	9	11	4	6	7	6	5	5	5	6	12	6	7	7	7	6	6	6	6	6	6	5	5	4	4	4	4	3	3	4	3	3	2	2	2	2	2	221
	Induced	4	11	19	9	11	7	11	13	11	10	9	10	10	15	11	12	12	12	11	11	11	11	10	10	9	8	8	7	7	6	6	6	6	5	5	4	4	4	4	3	352
	Total	21	57	99	43	55	33	49	60	52	46	43	43	46	72	51	52	53	52	51	50	49	47	45	43	40	37	34	32	29	27	25	25	28	23	23	18	17	17	16	14	1,617
TX-3	Direct	169	505	1,009	402	527	213	327	397	307	254	211	204	209	498	218	218	215	210	186	182	175	166	159	150	140	130	121	111	103	95	89	92	128	94	100	66	66	65	62	56	8,631
	Indirect	66	184	385	167	212	80	120	144	110	93	80	79	83	200	89	91	91	91	83	82	80	76	74	70	65	60	56	52	48	44	41	42	58	43	45	30	29	29	27	25	3,525
	Induced	100	285	572	235	303	122	184	222	168	141	119	117	121	287	128	130	129	127	115	112	109	104	100	95	88	82	76	70	64	60	56	57	78	58	62	41	40	40	38	35	5,070
	Total	335	974	1,966	804	1,042	415	630	762	585	488	411	400	413	985	436	440	435	428	384	376	364	346	332	315	294	272	253	233	215	199	186	192	264	196	207	137	135	133	128	116	17,227
Total EIA	Direct	489	1,425	2,565	1,006	1,332	665	1,018	1,233	996	849	737	723	750	1,417	795	800	791	775	718	701	678	644	617	584	545	504	470	434	399	372	346	348	447	345	357	253	248	241	230	210	28,058
	Indirect	164	452	889	385	490	204	305	366	286	247	217	217	229	487	247	252	253	251	234	231	225	215	207	196	183	170	158	146	134	125	116	117	158	120	124	84	82	79	76	69	9,190
	Induced	230	646	1,193	489	635	309	469	566	456	393	346	344	360	682	388	393	392	387	362	355	345	329	316	300	280	259	241	222	205	190	177	178	225	175	179	129	126	122	117	106	13,617
	Total	882	2,523	4,648	1,880	2,458	1,179	1,792	2,165	1,738	1,490	1,301	1,284	1,339	2,586	1,430	1,446	1,435	1,412	1,314	1,287	1,248	1,189	1,140	1,081	1,008	932	868	802	738	686	639	643	831	641	660	467	455	443	422	386	50,866

Note: Totals may not sum due to rounding.

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-23

High-Case Employment (Direct, Indirect, and Induced) Projections for a Proposed WPA Sale by Economic Impact Area Over 40 Years

EIA	Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total
AL-1	Direct	20	54	93	40	63	28	65	62	61	35	31	29	31	59	60	34	33	33	30	29	29	27	26	25	23	21	20	18	17	16	15	14	17	14	16	12	13	12	12	10	1,247
	Indirect	4	12	22	10	15	6	15	13	14	7	6	6	6	14	14	7	7	7	6	6	6	6	6	5	5	5	4	4	4	3	3	3	4	3	4	3	3	3	3	2	276
	Induced	2	6	11	5	7	3	8	7	7	4	4	4	4	7	8	5	5	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	1	160
	Total	26	72	126	54	86	37	87	82	82	47	42	39	41	80	82	45	45	44	41	40	39	37	35	33	31	29	27	25	23	21	20	19	23	19	22	16	18	16	17	13	1,682
FL-1	Direct	15	37	52	18	28	20	39	43	38	28	26	25	27	38	39	31	31	31	30	29	28	27	26	24	23	21	20	18	17	15	14	14	15	13	14	11	12	11	11	9	967
	Indirect	17	43	55	13	17	12	20	22	12	8	7	7	7	13	14	8	9	9	8	8	8	8	8	7	7	6	6	5	5	5	4	4	5	4	4	3	4	3	3	3	410
	Induced	9	23	32	9	14	9	17	18	14	9	8	8	9	14	15	10	10	10	10	10	9	9	9	8	8	7	7	6	6	5	5	5	5	4	5	4	4	4	4	3	373
	Total	42	104	139	41	59	42	76	83	64	45	41	40	43	65	68	50	50	49	48	47	45	44	42	40	37	34	32	29	27	25	23	22	24	21	23	18	19	17	17	15	1,751
FL-2	Direct	6	16	32	15	25	8	22	19	20	10	9	8	9	21	21	11	11	11	10	10	10	10	10	9	8	8	7	7	6	6	5	5	6	5	6	5	5	5	5	4	428
	Indirect	1	4	7	4	6	2	5	4	5	2	2	2	2	5	5	2	3	3	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	99
	Induced	2	6	12	6	10	3	8	6	8	3	3	3	3	8	8	4	4	4	4	4	4	4	4	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	163
	Total	10	26	52	25	40	13	35	30	32	15	14	13	15	34	35	18	18	18	17	17	16	16	15	15	14	13	12	11	10	9	9	8	10	8	10	8	8	8	8	7	690
FL-3	Direct	8	32	51	22	37	34	74	85	81	59	49	43	43	55	55	42	41	39	35	33	31	30	28	26	25	23	21	20	18	17	16	15	15	14	15	13	13	12	12	11	1,292
	Indirect	2	10	16	7	12	11	25	29	27	19	16	14	13	17	17	13	12	12	10	10	9	9	8	7	7	6	6	6	5	5	4	4	4	4	4	4	4	4	3	3	400
	Induced	4	16	27	12	20	16	35	39	38	27	22	19	20	27	27	19	19	18	16	15	14	13	13	12	11	10	9	9	8	8	7	7	7	6	7	6	6	6	6	5	602
	Total	15	58	94	40	68	61	133	153	146	105	87	76	76	99	99	74	71	68	61	58	55	52	49	46	43	39	36	34	32	29	27	26	27	25	26	23	23	21	21	18	2,294
FL-4	Direct	3	11	29	15	26	9	25	22	26	14	12	12	12	25	25	13	12	12	11	10	10	9	9	8	8	7	6	6	6	5	5	5	5	4	5	5	5	4	4	4	442
	Indirect	1	4	12	7	11	2	8	5	8	3	2	2	2	8	8	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	124
	Induced	2	6	16	9	15	3	12	9	11	5	4	4	4	12	12	5	5	5	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	197
	Total	6	21	57	30	52	14	45	36	46	22	19	18	19	44	45	20	19	19	17	16	16	15	14	13	12	11	11	10	9	8	8	8	8	8	9	8	8	7	7	7	763
LA-1	Direct	14	35	57	26	40	20	45	45	44	28	26	25	28	46	47	32	32	32	30	30	29	28	27	25	24	22	20	19	17	16	15	14	16	14	15	12	13	12	12	10	1,043
	Indirect	2	6	12	6	9	3	8	8	8	4	4	4	4	9	9	5	5	5	5	5	5	4	4	4	4	4	3	3	3	3	2	2	3	2	3	2	2	2	2	2	180
	Induced	4	10	16	7	11	6	13	13	13	9	8	8	9	14	15	11	11	11	10	10	10	9	9	9	8	7	7	6	6	5	5	5	5	5	5	4	4	4	4	3	330
	Total	20	51	84	39	61	30	66	66	66	42	38	38	41	69	71	47	48	47	45	44	43	42	40	38	36	33	30	28	26	24	22	22	24	21	23	18	20	17	18	15	1,553
LA-2	Direct	135	355	519	236	349	200	414	447	405	274	249	241	261	419	433	298	300	296	281	275	267	258	247	233	218	202	186	172	160	148	138	133	146	127	140	112	120	108	109	92	9,702
	Indirect	35	90	143	69	104	49	107	109	101	62	57	55	60	109	112	70	71	71	67	66	64	62	60	57	53	49	45	42	39	36	33	32	38	32	36	27	30	27	27	22	2,419
	Induced	63	154	219	99	146	94	187	205	187	134	123	121	133	196	204	154	156	155	149	146	143	138	133	126	117	108	100	93	86	79	74	71	76	66	70	58	61	55	55	47	4,783
	Total	233	599	881	405	598	343	708	760	693	469	429	417	454	724	750	522	527	522	497	487	475	458	440	416	389	359	332	307	285	263	245	236	260	226	246	198	211	190	191	161	16,904
LA-3	Direct	144	399	655	277	432	206	461	456	432	257	226	210	223	417	424	243	241	236	217	211	204	195	187	176	164	151	140	130	121	111	104	102	123	104	121	88	100	87	91	73	8,937
	Indirect	40	103	188	89	141	56	134	123	127	70	63	60	65	131	134	74	75	74	70	68	67	64	62	58	55	50	47	43	40	37	34	34	42	34	40	28	32	28	29	23	2,732
	Induced	51	133	223	101	157	75	169	166	164	101	91	88	95	166	171	108	108	107	101	99	96	92	89	84	78	72	67	62	57	53	49	48	56	47	53	40	44	39	40	33	3,672
	Total	235	635	1,066	467	729	337	763	744	722	428	380	358	384	714	730	425	424	417	388	378	366	352	337	318	297	274	253	235	218	201	187	183	220	186	213	156	176	153	161	128	15,341
LA-4	Direct	54	152	260	115	178	71	170	161	155	83	72	66	71	154	157	79	79	78	71	69	67	64	62	58	54	50	46	43	40	37	34	35	48	37	47	33	40	35	37	29	3,193
	Indirect	25	60	120	63	99	31	83	69	76	37	34	33	37	85	88	45	46	47	44	44	43	42	41	38	36	33	31	28	26	24	23	22	29	23	28	19	22	19	20	15	1,733
	Induced	31	81	148	70	109	40	99	89	91	47	42	40	44	95	98	51	51	51	47	47	46	44	42	40	37	35	32	30	27	25	24	24	32	25	31	21	26	23	24	18	1,978
	Total	110	293	528	247	385	143	353	320	321	167	148	139	152	334	343	175	177	176	162	159	156	150	145	137	128	118	109	101	94	87	80	82	109	86	105	73	88	78	82	62	6,903
MS-1	Direct	14	37	64	28	44	21	48	48	47	29	26	24	26	46	47	28	28	27	25	25	24	23	22	20	19	18	16	15	14	13	12	12	13	12	13	10	11	10	10	8	975
	Indirect	2	7	12	6	10	4	10	10	10	6	5	5	5	10	10	5	5	5	5	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	1	188
	Induced	3	9	15	7	11	5	12	12	12	7	6	6	7	12	12	7	7	7	6	6	6	6	6	5	5	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	243
	Total	19	53	92	41	65	31	71	69	69	42	37	35	38	67	68	41	40	39	36	35	34	32	31	29	27	25	23	21	20	18	17	17	19	16	18	14	16	14	14	12	1,406
TX-1	Direct	21	55	89	38	59	32	68	69	66	42	38	37	40	65	67	45	45	45	42	41	40	39	37	35	33	30	28	26	24	22	21	20	22	19	21	17	18	16	17	14	1,506
	Indirect	5	12	22	10	16	7	16	15	15	8	7	7	8	15	15	9	9	9	8	8	8	8	7	7	7	6	6	5	5	4	4	4	5	4	5	3	4	3	4	3	321
	Induced	9	22	35	15	24	13	28	29	28	18	17	16	18	28	29	21	21	21	20	19	19	18	17	16	15	14	13	12	11	10	10	9	10	9	10	8	8	7	7	6	662
	Total	35	89	146	63	98	51	112	112	109	69	62	60	65	108	111	74	75	74	70	69	67	65	62	59	55	51	47	43	40	37	35	33	37	32	36	28	30	27	28	23	2,488
TX-2	Direct	20	48	76	35	54	31	64	66	65	45	42	42	46	69	72	53	54	54	52	51	50	48	46	44	41	38	35	32	30	28	26	25	26	23	25	20	21	19	19	16	1,649
	Indirect	5	11	21	11	18	6	15	13	15	8	7	8	8	17	18	10	10	11	10	10	10	10	9	9	8	8	7	7	6	6	5	5	6	5	6	4	5	4	4	3	358
	Induced	6	14	23	11	17	10	20	21	21	15	14	14	15	23	24	18	19	18	18	18	17	17	16	15	14	13	12	11	10	10	9	9	9	8	8	7	7	7	7	6	553
	Total	31	73	120	58	88	47	100	101	101	68	63	63	69	109	114	82	83	83	80	79	77	75	72	68	63	59	54	50	47	43	40	38	42	36	39	31	33	29	30	25	2,559
TX-3	Direct	237	690	1,267	558	885	343	859	796	785	401	339	299	314	722	732	339	336	330	292	283	274	263	251	237	221	203	188	175	163	150	140	140	176	148	190	142	163	146	151	123	14,453
	Indirect	94	252	476	224	352	128	323	288	291	145	126	116	125	289	296	143	144	143	131	129	126	122	117	111	104	95	88	82	76	70	65	64	80	67	82	60	68	59	63	50	5,865
	Induced	142	388	716	319	504	196	484	441	435	221	190	171	182	412	420	202	203	200	180	176	171	165	158	150	140	129	119	110	103	95	88	88	108	92	115	85	97	87	90	73	8,445
	Total	473	1,330	2,460	1,100	1,741	667	1,667	1,525	1,511	767	656	586	622	1,423	1,447	684	683	673	603	588	572	550	527	497	465	427	396	367	342	315	293	292	363	307	387	287	328	292	304	247	28,763
Total EIA	Direct	692	1,921	3,245	1,423	2,219	1,023	2,354	2,317	2,227	1,304	1,145	1,060	1,131	2,136	2,181	1,247	1,244	1,221	1,126	1,096	1,063	1,021	977	921	861	794	734	681	634	584	544	533	628	536	628	481	534	476	489	402	45,833
	Indirect	235	615	1,106	518	809	319	770	708	707	380	338	318	345	720	740	395	399	397	370	363	355	343	330	312	292	269	248	230	214	197	183	180	219	184	215	157	178	155	163	130	15,105
	Induced	328	867	1,493	670	1,043	474	1,091	1,055	1,028	601	534	504	543	1,014	1,042	615	617	611	570	558	543	524	503	475	444	409	378	350	326	301	280	274	319	272	314	242	267	239	244	201	22,162
	Total	1,255	3,403	5,844	2,611	4,071	1,816	4,215	4,080	3,962	2,285	2,017	1,882	2,018	3,871	3,963	2,257	2,260	2,229	2,065	2,017	1,961	1,887	1,809	1,707	1,597	1,472	1,361	1,261	1,174	1,082	1,007	987	1,166	991	1,157	879	979	870	896	733	83,099

Note: Totals may not sum due to rounding.

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-24

Employment Projected from a Proposed WPA Lease Sale as a Percent of Total Employment by Economic Impact Area

Calendar Year	Model Year	AL-1 Low High	MS-1 Low High	LA-1 Low High	LA-2 Low High	LA-3 Low High	LA-4 Low High	TX-1 Low High	TX-2 Low High	TX-3 Low High	FL-1 Low High	FL-2 Low - High	FL-3 Low High	FL-4 Low High	Total EIA Low High
2007	1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2008	2	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2009	3	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.2 - 0.3	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2010	4	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2011	5	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2012	6	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2013	7	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2014	8	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2015	9	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2016	10	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2017	11	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2018	12	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2019	13	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2020	14	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2021	15	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.2	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2022	16	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2023	17	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2024	18	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2025	19	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2026	20	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2027	21	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2028	22	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2029	23	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2030	24	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2031	25	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2032	26	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2033	27	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.1 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2034	28	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2035	29	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2036	30	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2037	31	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2038	32	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2039	33	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2040	34	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2041	35	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.1	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2042	36	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2043	37	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2044	38	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2045	39	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0
2046	40	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0	0.0 - 0.0

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table 4-25

Projected Average Annual OCS Emissions Related to the Proposed Action in the CPA by Source
(tons per year)

Activity/Pollutant	NO_x	CO	SO_x	VOC	PM_{10}	$PM_{2.25}$
Support Vessels	388-540	50-70	66-92	5-7	10-13	10-13
Survey Vessels	1	0-0.1	0	0	0	0
Pipeline Vessels	135-1756	14-184	23-295	1-17	3-44	3-44
Helicopters	10-14	41-58	1-2	16-22	1	1
Tanker/Barge Transport	84-137	14-23	14-24	69-111	2-4	2-4
Platform Construction	111-168	14-21	19-29	1-2	3-4	3-4
Exploration and Delineation Wells	263-389	28-41	44-66	3-4	7-10	7-10
Platforms	2,996-4,869	3,538-5,749	133-217	2,286-3,714	30-49	30-49
Totals	3,988-7,874	3,699-6,145	301-723	2,380-3,877	56-125	56-125

Table 4-26

Class I
OCD Modeling Results for a Proposed Action in the Central Planning Area
and the Corresponding Maximum Allowable Increases

Pollutant Averaging Period	Class I Maximum Allowable Increase*	Class I Modeled Impact**
SO_2		
Annual	2.0 µg/m^3	0.00 - 0.02 µg/m^3
24-hour	5.0 µg/m^3	0.14 µg/m^3
3-hour	25.0 µg/m^3	0.6 - 0.7 µg/m^3
NO_2		
Annual	2.5 µg/m^3	0.09 - 0.12 µg/m^3
PM_{10}		
Annual	5.0 µg/m^3	0.00 - 0.01 µg/m^3
24-hour	10.0 µg/m^3	0.06 µg/m^3

* 30 CFR 250.303.
** Calculated using MMS's Offshore and Coastal Dispersion (OCD) Model.

Source: 40 CFR 51.166, 1996.

Table 4-27

Class II
OCD Modeling Results for a Proposed Action in the Central Planning Area
and the Corresponding Maximum Allowable Increases

Pollutant Averaging Period	Class II Maximum Allowable Increase*	Class II Modeled Impact**
SO_2		
Annual	20.0 µg/m^3	0.04 µg/m^3
24-hour	91.0 µg/m^3	0.5 µg/m^3
3-hour	512.0 µg/m^3	1.8 - 1.9 µg/m^3
NO_2		
Annual	25.0 µg/m^3	0.36 - 0.42 µg/m^3
PM_{10}		
Annual	19.0 µg/m^3	0.02 µg/m^3
24-hour	37.0 µg/m^3	0.2 µg/m^3

* 30 CFR 250.303.
** Calculated using MMS's Offshore and Coastal Dispersion (OCD) Model.

Source: 40 CFR 51.166, 1996.

Table 4-28

Population Projections for a Proposed CPA Lease Sale by Economic Impact Area Over 40 Years

Calendar Year	Model Year	AL-1 Low	AL-1 High	MS-1 Low	MS-1 High	LA-1 Low	LA-1 High	LA-2 Low	LA-2 High	LA-3 Low	LA-3 High	LA-4 Low	LA-4 High	TX-1 Low	TX-1 High	TX-2 Low	TX-2 High	TX-3 Low	TX-3 High	FL-1 Low	FL-1 High	FL-2 Low	FL-2 High	FL-3 Low	FL-3 High	FL-4 Low	FL-4 High	Total EIA Low	Total EIA High
2007	1	100	141	76	108	79	114	893	1,310	794	1,135	356	529	164	237	134	195	1,521	2,211	123	171	36	54	94	140	29	41	4,399	6,386
2008	2	308	396	233	304	219	288	2,230	3,064	2,338	3,054	1,158	1,486	456	601	355	472	5,244	6,634	272	371	127	159	258	359	148	174	13,347	17,361
2009	3	249	349	185	264	177	255	1,899	2,802	1,929	2,743	965	1,339	368	533	286	418	4,211	5,771	252	373	106	144	168	266	105	135	10,900	15,392
2010	4	171	254	125	194	122	189	1,140	2,041	1,277	2,007	695	1,061	246	377	203	306	2,978	4,583	106	203	85	119	120	177	100	123	7,367	11,634
2011	5	308	699	224	533	209	480	1,883	5,024	2,268	5,408	1,237	2,890	422	963	338	742	5,391	13,102	167	470	151	327	218	445	190	388	13,007	31,473
2012	6	105	317	84	246	85	232	950	2,556	842	2,519	356	1,256	181	480	149	377	1,586	5,567	115	268	39	137	134	280	37	146	4,663	14,380
2013	7	128	280	108	222	105	211	1,178	2,313	1,035	2,225	421	1,061	225	451	186	358	1,906	4,760	136	251	46	120	193	318	50	128	5,718	12,698
2014	8	150	241	127	198	122	191	1,372	2,220	1,216	1,972	488	871	264	418	217	333	2,232	3,895	157	249	53	93	229	342	60	90	6,687	11,113
2015	9	114	166	102	146	101	147	1,114	1,687	932	1,387	351	571	212	313	185	268	1,554	2,437	107	155	39	61	208	307	51	68	5,070	7,713
2016	10	109	160	98	142	98	144	1,082	1,638	894	1,334	336	536	205	305	182	267	1,451	2,247	104	152	38	59	190	281	49	67	4,835	7,333
2017	11	107	163	97	146	98	149	1,083	1,671	884	1,354	331	525	205	314	183	279	1,396	2,185	104	159	37	59	182	279	48	70	4,754	7,351
2018	12	110	173	99	156	102	160	1,127	1,790	913	1,447	346	563	214	338	192	301	1,435	2,328	109	171	39	64	180	292	49	75	4,914	7,856
2019	13	111	176	101	159	102	162	1,133	1,822	921	1,473	347	572	216	345	194	308	1,442	2,357	110	174	39	65	180	292	50	77	4,945	7,982
2020	14	109	170	100	155	101	158	1,126	1,757	910	1,416	339	531	215	335	193	302	1,391	2,171	109	171	38	60	177	277	49	76	4,857	7,579
2021	15	111	170	101	155	104	161	1,163	1,794	932	1,431	352	545	222	343	202	312	1,425	2,192	113	175	40	63	175	266	49	76	4,990	7,683
2022	16	110	170	100	154	105	163	1,166	1,812	926	1,434	354	553	224	348	204	319	1,419	2,201	114	177	41	65	168	259	48	75	4,979	7,727
2023	17	108	169	97	151	104	163	1,159	1,815	914	1,427	354	556	223	350	205	322	1,405	2,196	114	178	42	67	161	250	47	73	4,934	7,718
2024	18	105	161	94	143	102	158	1,141	1,755	894	1,365	349	540	221	339	204	315	1,376	2,102	112	173	42	66	153	227	45	69	4,839	7,412
2025	19	102	157	91	139	100	155	1,116	1,726	870	1,336	343	533	217	335	201	312	1,342	2,061	110	170	42	66	144	216	44	67	4,723	7,273
2026	20	99	151	88	133	98	151	1,091	1,683	847	1,295	336	521	213	328	198	307	1,307	2,001	108	167	42	65	137	204	42	64	4,606	7,070
2027	21	96	146	84	129	95	147	1,059	1,639	818	1,258	327	509	207	321	193	301	1,267	1,946	105	163	41	64	130	194	40	61	4,463	6,878
2028	22	92	141	81	123	92	142	1,026	1,584	791	1,213	317	492	202	311	188	292	1,225	1,878	102	158	40	63	123	183	39	59	4,320	6,641
2029	23	88	135	77	118	88	136	981	1,522	755	1,164	304	474	194	300	181	282	1,170	1,805	98	152	39	61	116	173	37	56	4,127	6,380
2030	24	84	128	73	112	84	130	935	1,449	720	1,108	290	452	186	287	173	270	1,116	1,718	94	145	37	59	109	163	35	53	3,935	6,075
2031	25	79	121	69	105	79	122	881	1,365	680	1,046	274	426	176	272	164	255	1,055	1,623	89	138	35	56	103	153	33	50	3,715	5,732
2032	26	74	113	65	99	74	114	825	1,277	637	979	256	399	165	255	154	239	989	1,519	83	129	33	52	96	143	31	47	3,482	5,366
2033	27	69	106	60	92	69	106	772	1,194	598	918	240	373	155	240	144	224	926	1,424	78	121	31	49	90	134	29	44	3,262	5,025
2034	28	65	99	57	87	64	100	722	1,117	561	862	225	349	146	226	135	211	870	1,336	74	114	29	46	84	126	27	42	3,058	4,713
2035	29	61	93	53	81	60	93	674	1,045	525	808	209	327	137	212	127	198	812	1,253	69	107	27	43	79	118	26	39	2,859	4,417
2036	30	57	87	50	76	56	87	632	978	493	758	196	306	129	200	119	185	762	1,175	65	100	26	40	74	110	24	37	2,684	4,139
2037	31	54	82	47	72	53	82	597	922	468	717	188	290	123	189	113	175	728	1,115	61	95	25	38	70	104	23	35	2,549	3,915
2038	32	66	93	55	78	61	88	678	987	580	819	271	369	142	205	126	186	962	1,333	68	100	29	42	73	106	25	36	3,136	4,443
2039	33	54	79	46	68	51	77	573	861	474	697	200	291	120	179	108	164	751	1,098	59	89	24	36	64	95	22	32	2,546	3,766
2040	34	54	78	45	66	50	74	555	829	473	686	200	289	117	174	105	158	750	1,084	57	85	23	35	62	91	21	31	2,513	3,681
2041	35	64	108	51	86	55	94	605	1,029	560	959	250	459	131	223	114	192	915	1,634	62	103	27	47	64	103	22	38	2,919	5,075
2042	36	41	74	35	63	39	70	445	781	355	657	143	284	94	167	85	148	558	1,112	46	80	19	35	52	86	17	32	1,929	3,589
2043	37	38	68	34	59	37	65	421	728	337	605	135	260	89	156	81	138	528	1,027	44	75	18	33	49	81	17	31	1,828	3,325
2044	38	37	60	33	53	36	58	406	661	326	535	132	226	86	142	78	126	513	913	42	69	17	30	48	75	16	29	1,769	2,976
2045	39	35	56	31	49	34	54	384	616	309	496	125	207	82	132	74	117	487	848	40	64	16	28	45	70	15	27	1,677	2,766
2046	40	33	52	29	47	32	51	361	579	292	467	116	194	78	125	70	111	457	800	38	61	15	27	43	66	14	26	1,578	2,604

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table 4-29

Population Projected from a Proposed CPA Lease Sale as a Percent of Total Population by Economic Impact Area

Calendar Year	Model Year	AL-1 Low	AL-1 High	MS-1 Low	MS-1 High	LA-1 Low	LA-1 High	LA-2 Low	LA-2 High	LA-3 Low	LA-3 High	LA-4 Low	LA-4 High	TX-1 Low	TX-1 High	TX-2 Low	TX-2 High	TX-3 Low	TX-3 High	FL-1 Low	FL-1 High	FL-2 Low	FL-2 High	FL-3 Low	FL-3 High	FL-4 Low	FL-4 High	Total EIA Low	Total EIA High
2007	1	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008	2	0.0	**0.1**	0.0	**0.1**	**0.1**	**0.1**	**0.4**	**0.5**	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	**0.1**	**0.1**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**
2009	3	0.0	0.0	0.0	**0.1**	**0.1**	**0.1**	**0.3**	**0.5**	**0.2**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	**0.1**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**
2010	4	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.3**	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011	5	0.0	**0.1**	0.0	**0.1**	**0.1**	**0.1**	**0.3**	**0.8**	**0.2**	**0.5**	**0.1**	**0.2**	0.0	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**
2012	6	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.4**	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**
2013	7	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.4**	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014	8	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.4**	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015	9	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016	10	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	11	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018	12	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019	13	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020	14	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021	15	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	16	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023	17	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024	18	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025	19	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2026	20	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2027	21	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2028	22	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2029	23	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2030	24	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2031	25	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2032	26	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2033	27	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2034	28	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2035	29	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2036	30	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2037	31	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2038	32	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2039	33	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2040	34	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2041	35	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2042	36	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2043	37	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2044	38	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2045	39	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2046	40	0.0	0.0	0.0	0.0	0.0	0.0	**0.0**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table 4-30a

Low-Case Employment (Direct, Indirect, and Induced) Projections
for a Proposed CPA Sale by Economic Impact Area Over 40 Years (Years 1-20)

EIA	Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
AL-1	Direct	39	119	96	66	119	41	51	60	46	44	43	45	45	45	46	45	45	44	42	41
	Indirect	8	27	22	16	30	9	11	13	10	9	9	9	9	9	10	10	9	9	9	9
	Induced	5	14	11	8	14	5	6	7	6	6	6	6	6	6	6	6	6	6	6	6
	Total	52	160	130	90	163	55	68	81	62	59	58	60	61	60	61	61	60	59	57	55
FL-1	Direct	30	69	58	30	48	32	41	47	39	38	38	40	40	40	41	42	41	41	40	39
	Indirect	24	48	51	16	24	19	20	23	10	10	10	10	10	10	11	11	11	11	11	11
	Induced	15	34	32	14	22	14	16	19	13	12	12	13	13	13	14	14	14	13	13	13
	Total	69	152	141	60	94	65	77	89	61	59	60	62	63	63	66	66	66	65	64	63
FL-2	Direct	12	41	35	28	49	13	16	18	13	13	13	13	13	13	14	14	14	14	14	14
	Indirect	3	10	8	6	12	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3
	Induced	4	16	13	11	20	5	6	6	5	5	5	5	5	5	5	5	5	5	5	5
	Total	19	67	56	45	81	21	25	28	21	20	20	21	21	21	22	23	23	23	23	23
FL-3	Direct	30	81	53	38	69	44	64	76	69	64	61	61	61	61	60	58	56	53	51	48
	Indirect	9	25	16	12	21	14	21	25	22	20	19	19	19	19	19	18	17	16	15	14
	Induced	14	41	27	20	37	20	29	35	32	29	28	28	28	28	27	26	25	24	23	22
	Total	53	147	97	69	127	79	114	135	123	113	109	108	109	107	106	103	98	94	89	85
FL-4	Direct	9	44	30	28	53	12	17	21	19	18	17	18	18	18	18	18	17	16	15	15
	Indirect	3	16	12	12	22	3	4	5	4	3	3	3	3	3	3	3	3	3	3	3
	Induced	4	23	17	16	30	5	7	8	6	6	6	6	6	6	6	6	6	6	6	6
	Total	16	82	58	55	106	21	28	34	29	27	27	27	28	27	28	27	26	26	25	24
LA-1	Direct	28	79	64	44	76	32	40	47	39	38	38	40	40	40	42	42	42	42	41	40
	Indirect	5	15	13	10	17	5	7	8	6	6	6	6	6	6	6	7	7	7	6	6
	Induced	9	23	19	13	22	10	12	14	12	12	12	13	13	13	14	14	14	14	14	13
	Total	42	117	96	67	115	47	59	69	57	56	56	59	60	59	62	62	62	62	61	60
LA-2	Direct	276	699	601	355	594	304	381	448	365	357	358	374	379	379	392	394	392	387	379	372
	Indirect	69	189	165	109	186	75	92	107	83	81	81	86	87	86	90	91	92	91	90	89
	Induced	132	313	265	160	257	148	186	218	183	179	181	190	192	193	201	203	203	202	199	196
	Total	477	1,201	1,031	624	1,038	528	659	773	631	617	621	650	658	657	682	688	687	680	668	656
LA-3	Direct	281	824	687	436	781	301	372	439	332	318	314	323	328	324	330	327	322	314	304	295
	Indirect	78	247	204	152	272	85	104	122	94	91	90	94	95	94	97	98	98	97	96	94
	Induced	104	301	247	169	295	115	144	169	136	132	132	137	139	138	143	143	143	141	138	135
	Total	464	1,372	1,137	756	1,348	502	620	730	562	540	536	555	562	556	571	569	563	552	538	524
LA-4	Direct	99	315	268	179	322	102	122	144	102	98	96	100	101	99	102	102	102	100	98	95
	Indirect	46	160	133	111	197	50	59	68	50	49	49	53	53	52	55	57	59	59	59	59
	Induced	57	188	157	116	208	60	71	83	61	59	58	62	62	61	64	65	65	65	64	63
	Total	202	663	557	405	728	212	252	295	213	206	204	215	217	213	222	225	226	224	221	217
MS-1	Direct	28	85	68	46	82	32	40	48	38	37	36	38	38	38	39	38	38	37	35	34
	Indirect	5	17	13	9	17	6	8	10	8	8	8	8	8	8	8	8	7	7	7	6
	Induced	7	21	17	11	21	8	10	12	10	9	9	9	10	10	10	10	10	9	9	9
	Total	40	123	98	67	120	45	58	69	56	53	53	55	56	55	56	56	54	53	51	49
TX-1	Direct	43	120	97	63	109	48	60	70	57	55	55	57	57	57	59	59	59	58	57	56
	Indirect	9	29	24	17	30	10	12	15	11	11	11	11	11	11	11	11	12	11	11	11
	Induced	18	49	39	27	45	21	26	30	25	24	24	26	26	26	27	27	27	27	26	26
	Total	71	198	160	107	184	79	98	115	93	90	90	93	94	94	97	98	98	96	95	93
TX-2	Direct	43	112	90	61	102	49	62	73	63	62	63	66	66	67	69	70	71	70	69	68
	Indirect	9	30	24	20	36	10	12	14	11	11	11	12	12	12	13	13	13	14	13	13
	Induced	14	36	29	20	33	16	20	24	21	21	21	22	23	23	24	24	24	24	24	24
	Total	66	177	143	102	171	76	95	111	95	94	95	100	101	101	106	108	108	108	106	105
TX-3	Direct	446	1,564	1,256	874	1,599	477	578	683	481	448	431	441	446	430	439	434	428	418	406	394
	Indirect	175	603	492	368	663	187	224	262	182	173	168	176	177	172	178	181	181	180	178	175
	Induced	262	894	722	514	931	279	336	394	271	255	247	255	258	249	257	257	256	252	247	241
	Total	884	3,061	2,471	1,756	3,193	943	1,139	1,339	935	876	846	872	880	851	874	872	866	850	831	811
Total EIA	Direct	1,364	4,151	3,405	2,247	4,002	1,489	1,844	2,174	1,664	1,588	1,563	1,616	1,635	1,610	1,651	1,644	1,627	1,594	1,553	1,513
	Indirect	445	1,416	1,177	857	1,528	478	578	675	493	474	469	490	494	485	505	511	513	509	502	493
	Induced	645	1,953	1,593	1,099	1,935	705	870	1,020	780	750	742	773	781	771	797	801	799	789	774	758
	Total	2,454	7,520	6,176	4,203	7,466	2,672	3,291	3,869	2,938	2,811	2,774	2,879	2,909	2,865	2,953	2,956	2,938	2,891	2,828	2,764

Note: Totals may not sum due to rounding.

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-30b

Low-Case Employment (Direct, Indirect, and Induced) Projections
for a Proposed CPA Sale by Economic Impact Area Over 40 Years (Years 21-40)

EIA	Type	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total
AL-1	Direct	40	38	36	35	33	31	29	27	25	24	23	28	23	23	27	17	16	16	15	14	1,642
	Indirect	9	8	8	8	7	7	6	6	6	5	5	6	5	5	6	4	4	3	3	3	362
	Induced	5	5	5	5	5	4	4	4	4	3	3	4	3	3	4	2	2	2	2	2	214
	Total	54	52	49	47	45	42	39	37	35	32	31	38	31	31	37	23	22	22	21	19	2,218
FL-1	Direct	38	37	35	34	32	30	28	27	25	23	22	24	21	20	22	17	16	15	15	14	1,328
	Indirect	11	10	10	10	9	9	8	8	7	7	6	8	6	6	7	5	5	4	4	4	495
	Induced	13	12	12	11	11	10	9	9	8	8	7	8	7	7	8	6	5	5	5	5	488
	Total	61	60	57	55	52	49	46	43	40	38	36	40	34	34	36	27	26	25	24	22	2,312
FL-2	Direct	14	14	13	13	12	11	11	10	9	9	8	10	8	8	9	6	6	6	6	5	564
	Indirect	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	129
	Induced	5	5	5	5	5	4	4	4	4	3	3	4	3	3	3	2	2	2	2	2	215
	Total	23	22	21	21	19	18	17	16	15	14	14	16	13	13	15	10	10	10	9	9	908
FL-3	Direct	46	44	41	39	37	34	32	30	28	27	25	27	23	22	23	19	18	18	17	16	1,725
	Indirect	13	13	12	11	11	10	9	9	8	8	7	8	7	7	7	5	5	5	5	5	526
	Induced	21	20	19	18	17	16	15	14	13	12	11	12	11	10	11	9	8	8	8	7	801
	Total	80	76	72	68	64	60	56	53	50	47	44	46	41	39	41	33	32	31	29	28	3,052
FL-4	Direct	14	14	13	12	11	11	10	9	9	8	8	8	7	7	7	6	6	5	5	5	598
	Indirect	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	153
	Induced	6	5	5	5	5	4	4	4	4	3	3	4	3	3	3	2	2	2	2	2	255
	Total	23	22	21	20	18	17	16	15	14	13	13	14	12	12	12	10	9	9	8	8	1,007
LA-1	Direct	39	38	36	35	33	31	29	27	26	24	23	26	22	22	24	17	17	16	15	14	1,409
	Indirect	6	6	6	6	5	5	5	4	4	4	4	5	4	4	4	3	3	3	2	2	239
	Induced	13	13	12	12	11	10	10	9	9	8	8	9	7	7	8	6	6	5	5	5	453
	Total	58	57	55	52	49	46	44	41	38	36	34	40	34	33	37	26	25	24	23	22	2,102
LA-2	Direct	361	351	337	322	304	286	269	252	237	223	211	241	204	199	219	161	153	148	140	133	12,936
	Indirect	87	84	81	78	74	69	65	61	57	54	51	62	51	50	57	39	37	36	34	32	3,200
	Induced	191	186	179	171	162	152	143	134	126	119	112	124	107	103	110	85	81	78	74	70	6,510
	Total	639	622	597	571	540	508	477	448	420	395	375	428	363	353	386	285	271	262	249	235	22,646
LA-3	Direct	285	275	262	250	236	221	208	195	183	172	163	204	166	167	199	125	118	115	109	103	11,707
	Indirect	91	89	85	82	77	73	68	64	60	57	54	69	56	56	67	41	39	38	36	34	3,637
	Induced	131	127	122	116	110	104	97	91	86	81	77	92	76	76	87	58	55	54	51	48	4,939
	Total	507	491	469	448	423	397	373	350	328	309	294	365	298	298	353	224	213	206	196	185	20,283
LA-4	Direct	93	90	86	82	78	73	69	64	60	57	55	81	59	59	75	43	41	40	38	35	4,025
	Indirect	58	57	55	53	50	47	44	42	39	37	35	49	38	38	47	27	26	25	24	22	2,292
	Induced	62	60	58	56	53	50	47	44	41	39	37	55	40	40	51	29	28	27	26	24	2,555
	Total	212	207	199	191	181	170	160	150	141	132	127	184	137	137	172	99	94	92	88	82	8,871
MS-1	Direct	33	32	30	29	27	26	24	23	21	20	19	22	19	18	21	14	14	13	13	12	1,304
	Indirect	6	6	5	5	5	5	4	4	4	4	3	4	3	3	4	3	2	2	2	2	253
	Induced	8	8	8	7	7	7	6	6	5	5	5	6	5	5	5	4	3	3	3	3	327
	Total	48	46	44	42	39	37	35	32	30	29	27	32	27	26	30	21	20	19	18	17	1,884
TX-1	Direct	54	53	51	48	46	43	40	38	36	34	32	37	31	30	34	24	23	22	21	20	2,014
	Indirect	11	10	10	10	9	9	8	8	7	7	6	8	6	6	8	5	5	4	4	4	424
	Induced	25	25	24	23	21	20	19	18	17	16	15	17	14	14	15	11	11	10	10	9	897
	Total	90	88	84	81	76	72	67	63	59	56	53	61	52	51	57	40	38	37	35	33	3,335
TX-2	Direct	66	65	62	60	56	53	50	47	44	41	39	43	37	36	39	30	28	27	26	24	2,271
	Indirect	13	13	13	12	11	11	10	10	9	8	8	10	8	8	9	6	6	6	5	5	487
	Induced	23	22	22	21	20	18	17	16	15	14	14	15	13	13	13	10	10	9	9	9	771
	Total	103	100	96	92	87	82	77	73	68	64	61	68	59	57	62	46	44	42	40	38	3,530
TX-3	Direct	381	368	351	334	316	297	278	262	245	230	220	295	228	228	279	170	162	157	150	141	17,767
	Indirect	171	167	160	153	146	137	128	121	113	106	101	132	105	106	128	78	74	72	68	64	7,425
	Induced	235	228	218	208	197	185	174	163	153	144	138	181	142	142	173	106	101	98	93	87	10,543
	Total	787	762	729	696	659	619	580	546	511	480	459	607	475	475	580	354	336	327	311	292	35,735
Total EIA	Direct	1,465	1,418	1,354	1,292	1,222	1,147	1,077	1,012	948	891	849	1,046	850	840	978	649	617	599	569	536	59,292
	Indirect	482	470	451	432	410	385	362	340	319	300	286	364	293	293	348	219	208	201	191	180	19,623
	Induced	738	717	688	657	622	585	549	516	483	455	433	529	432	425	491	332	315	305	290	273	28,969
	Total	2,684	2,604	2,493	2,382	2,254	2,117	1,987	1,868	1,750	1,646	1,568	1,938	1,574	1,558	1,817	1,200	1,139	1,105	1,050	990	107,883

Note: Totals may not sum due to rounding.

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-31a

High-Case Employment (Direct, Indirect, and Induced) Projections
for a Proposed CPA Sale by Economic Impact Area Over 40 Years (Years 1-20)

EIA	Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
AL-1	Direct	54	153	136	98	272	125	111	96	67	65	66	70	72	70	70	70	69	66	65	62
	Indirect	12	35	31	24	66	29	25	21	14	14	14	15	15	14	15	15	15	14	14	13
	Induced	7	18	16	11	31	15	13	12	9	8	9	9	10	9	9	9	9	9	9	9
	Total	73	205	182	133	369	168	149	129	90	87	88	94	96	93	94	94	94	89	87	85
FL-1	Direct	42	94	87	52	121	69	70	71	54	54	57	62	63	63	64	65	65	63	62	60
	Indirect	33	66	75	36	82	48	41	41	16	15	15	16	17	16	16	17	17	17	17	17
	Induced	21	46	47	26	63	34	31	31	18	18	19	20	21	20	21	21	21	21	20	20
	Total	95	207	209	114	265	152	142	142	88	87	91	98	101	99	101	103	104	100	99	97
FL-2	Direct	18	52	48	39	107	46	40	32	21	20	20	22	22	20	21	22	23	23	23	22
	Indirect	4	12	11	9	25	11	9	7	5	4	4	5	5	5	5	5	5	5	5	5
	Induced	6	20	17	15	42	17	15	11	7	7	7	8	8	8	8	8	9	9	9	8
	Total	28	84	76	63	174	73	64	50	33	32	32	34	35	33	34	36	36	36	36	36
FL-3	Direct	44	113	84	56	140	90	104	113	102	94	94	99	99	95	92	90	87	79	76	72
	Indirect	14	36	26	17	44	29	34	37	33	30	30	31	31	30	28	27	26	24	22	21
	Induced	21	56	42	29	75	45	50	52	46	43	43	45	45	43	42	41	40	36	35	33
	Total	79	205	153	102	259	164	187	202	182	168	167	176	176	168	162	158	153	139	133	126
FL-4	Direct	13	52	40	34	106	42	39	30	25	24	26	27	28	28	28	27	26	25	24	22
	Indirect	4	18	14	15	47	16	13	8	5	5	5	5	5	5	5	5	5	5	5	5
	Induced	6	27	21	20	63	23	19	13	9	9	9	10	10	10	10	10	10	9	9	9
	Total	23	97	75	69	216	81	72	50	38	38	39	42	43	43	43	42	41	39	37	36
LA-1	Direct	41	104	93	69	176	86	79	73	56	56	58	62	64	63	64	65	66	64	63	62
	Indirect	7	20	18	15	39	17	15	13	9	9	9	10	10	10	10	10	10	10	10	10
	Induced	12	31	27	20	49	25	24	22	18	18	19	20	21	21	21	22	22	21	21	21
	Total	61	155	138	103	264	129	118	108	84	83	86	93	95	93	95	97	98	95	94	92
LA-2	Direct	404	961	886	651	1,635	831	751	727	554	540	553	595	610	590	604	611	614	594	586	572
	Indirect	103	254	237	186	478	228	199	181	129	125	127	137	141	134	139	142	144	141	140	137
	Induced	193	435	398	280	656	360	343	343	273	269	278	301	308	301	310	316	319	311	308	302
	Total	700	1,650	1,521	1,117	2,769	1,419	1,293	1,250	956	934	958	1,033	1,058	1,026	1,053	1,069	1,076	1,046	1,033	1,011
LA-3	Direct	399	1,080	978	704	1,921	901	795	714	494	474	480	513	523	503	506	505	501	477	465	450
	Indirect	114	318	285	224	610	273	239	202	141	136	139	150	153	147	151	153	154	150	148	145
	Induced	151	395	354	260	682	328	298	269	201	196	202	217	222	216	220	222	223	216	212	207
	Total	663	1,792	1,617	1,188	3,213	1,502	1,332	1,185	836	806	821	880	898	866	877	880	878	842	826	802
LA-4	Direct	145	408	374	289	802	356	301	257	167	156	152	163	167	155	158	159	159	153	151	147
	Indirect	70	202	182	157	425	181	154	121	81	78	78	85	88	82	87	90	93	92	93	92
	Induced	85	240	218	174	474	209	180	149	99	94	93	100	103	96	99	102	103	101	100	98
	Total	300	850	774	619	1,701	746	635	526	347	328	324	349	358	333	344	351	355	347	343	337
MS-1	Direct	40	111	97	71	195	91	83	74	55	53	55	59	60	59	59	59	58	56	54	52
	Indirect	7	22	19	15	43	19	17	15	11	11	11	12	12	12	12	12	11	11	10	10
	Induced	10	27	24	17	48	22	20	18	14	13	14	15	15	15	15	15	15	14	14	13
	Total	57	160	140	103	285	132	120	108	80	78	80	86	88	86	86	86	85	80	78	75
TX-1	Direct	62	158	141	99	253	127	119	111	83	81	83	90	92	89	91	92	92	89	88	86
	Indirect	14	37	33	25	67	31	28	24	17	16	16	17	18	17	18	18	18	18	17	17
	Induced	27	65	58	40	100	52	50	47	37	36	37	40	41	40	41	42	42	41	41	40
	Total	103	261	232	164	419	209	197	182	137	133	137	147	151	146	150	152	153	148	146	143
TX-2	Direct	63	150	133	96	231	121	116	111	91	91	95	103	105	104	107	109	111	108	107	105
	Indirect	14	38	34	28	74	33	29	24	17	17	18	19	20	19	20	21	21	21	21	21
	Induced	20	48	42	30	71	38	38	36	30	30	32	35	36	35	37	38	38	37	37	37
	Total	97	235	209	154	376	192	183	171	138	138	145	157	161	158	164	168	170	167	165	163
TX-3	Direct	644	1,978	1,718	1,369	3,987	1,691	1,445	1,191	754	693	673	717	727	670	672	672	668	635	621	600
	Indirect	258	762	674	552	1,552	662	567	458	287	269	264	284	290	269	276	282	285	278	275	270
	Induced	382	1,133	994	782	2,219	958	831	687	426	395	387	414	421	389	396	399	401	386	380	370
	Total	1,284	3,872	3,386	2,702	7,759	3,311	2,843	2,336	1,466	1,357	1,324	1,415	1,438	1,328	1,344	1,353	1,354	1,299	1,276	1,241
Total EIA	Direct	1,969	5,415	4,816	3,625	9,945	4,575	4,053	3,600	2,523	2,401	2,412	2,583	2,633	2,509	2,536	2,546	2,539	2,432	2,383	2,313
	Indirect	652	1,819	1,638	1,303	3,552	1,579	1,371	1,150	764	729	731	787	804	759	781	796	805	785	777	763
	Induced	940	2,540	2,258	1,705	4,573	2,125	1,912	1,690	1,187	1,137	1,148	1,235	1,261	1,203	1,229	1,245	1,251	1,211	1,195	1,167
	Total	3,562	9,773	8,712	6,632	18,071	8,278	7,336	6,440	4,474	4,267	4,292	4,605	4,698	4,471	4,547	4,587	4,596	4,428	4,355	4,243

Source: Employment output from MMS's economic impact model MAG-PLAN.

Note: Totals may not sum due to rounding.

Table 4-31b

High-Case Employment (Direct, Indirect, and Induced) Projections
for a Proposed CPA Sale by Economic Impact Area Over 40 Years (Years 21-40)

EIA	Type	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total
AL-1	Direct	61	58	56	53	50	47	44	42	39	37	35	39	34	33	46	32	29	26	24	23	2,661
	Indirect	13	13	12	12	11	10	10	9	9	8	8	9	7	7	11	7	6	6	5	5	591
	Induced	8	8	8	7	7	7	6	6	5	5	5	5	5	5	6	4	4	4	3	3	343
	Total	82	79	76	72	68	64	60	56	53	50	47	53	46	45	62	43	40	35	33	31	3,596
FL-1	Direct	59	57	55	52	49	46	44	41	38	36	34	36	32	31	36	29	27	25	23	22	2,106
	Indirect	17	16	16	15	14	14	13	12	11	11	10	11	10	9	12	9	8	7	7	6	848
	Induced	20	19	18	17	17	16	15	14	13	12	11	12	11	10	13	10	9	8	8	7	800
	Total	95	92	89	85	80	75	71	67	63	59	56	59	52	50	61	47	44	40	38	36	3,754
FL-2	Direct	22	22	21	20	19	18	17	16	15	14	13	15	12	12	16	12	11	10	10	9	945
	Indirect	5	5	5	5	4	4	4	4	3	3	3	3	3	3	4	3	3	2	2	2	216
	Induced	8	8	8	8	7	7	6	6	6	5	5	5	5	5	6	5	4	4	4	3	355
	Total	35	35	34	32	31	29	27	25	24	22	21	23	20	20	26	20	18	17	16	15	1,515
FL-3	Direct	69	65	62	58	55	51	48	45	43	40	38	38	34	33	37	31	30	28	26	24	2,679
	Indirect	20	19	18	17	16	15	14	13	12	11	11	11	10	10	11	9	9	8	7	7	819
	Induced	31	30	28	26	25	23	22	20	19	18	17	18	16	15	17	14	14	13	12	11	1,250
	Total	120	114	108	102	96	89	84	79	74	69	65	67	60	58	65	55	52	48	45	43	4,748
FL-4	Direct	21	20	19	18	17	16	15	14	13	13	12	12	11	11	12	11	10	9	9	8	941
	Indirect	5	4	4	4	4	4	3	3	3	3	3	3	3	2	3	3	3	2	2	2	256
	Induced	8	8	8	7	7	7	6	6	5	5	5	5	5	4	6	5	4	4	4	4	417
	Total	35	33	31	30	28	26	25	23	22	21	19	20	18	17	21	18	17	16	15	14	1,614
LA-1	Direct	60	59	57	54	51	48	45	42	40	37	35	38	34	33	41	31	29	26	24	23	2,272
	Indirect	10	9	9	9	8	8	7	7	6	6	6	7	6	6	8	5	5	4	4	4	394
	Induced	20	20	19	18	17	16	15	14	13	13	12	13	11	11	13	10	10	9	8	8	725
	Total	90	88	85	81	77	72	68	63	60	56	53	58	50	49	62	46	43	39	37	35	3,391
LA-2	Direct	558	541	521	498	471	442	415	390	366	344	325	350	307	296	371	283	265	241	226	213	21,288
	Indirect	135	131	127	121	115	108	101	95	89	84	80	89	76	75	99	71	66	59	55	52	5,330
	Induced	296	288	278	266	251	236	222	208	196	184	174	183	162	156	186	146	138	126	118	112	10,528
	Total	989	960	926	884	837	786	737	693	651	611	579	622	545	527	656	500	468	427	399	377	37,147
LA-3	Direct	436	419	402	382	361	338	317	298	280	263	249	286	243	240	341	232	214	189	176	165	19,214
	Indirect	141	137	133	127	120	113	106	99	93	88	83	97	82	81	116	77	71	62	58	54	5,967
	Induced	202	196	189	180	170	160	150	141	132	124	118	131	113	111	148	105	98	87	81	77	8,006
	Total	779	752	723	689	651	611	573	539	506	475	450	514	438	432	605	415	382	338	314	296	33,187
LA-4	Direct	143	138	133	127	120	113	106	99	93	88	84	109	85	85	139	86	79	69	64	60	6,839
	Indirect	91	89	87	83	79	74	70	66	62	58	55	68	55	55	84	53	49	42	39	37	3,825
	Induced	96	94	91	87	82	77	73	68	64	60	58	74	58	58	93	58	53	46	43	40	4,290
	Total	330	321	311	297	281	264	248	233	219	206	197	251	199	198	316	197	181	158	145	136	14,954
MS-1	Direct	51	49	47	44	42	39	37	35	33	31	29	32	28	27	35	26	24	22	20	19	2,110
	Indirect	9	9	8	8	7	7	6	6	6	5	5	6	5	5	6	5	4	4	4	3	411
	Induced	13	12	12	11	11	10	9	9	8	8	7	8	7	7	9	6	6	5	5	5	527
	Total	73	70	67	64	60	56	53	50	47	44	41	45	39	38	50	37	34	31	29	27	3,047
TX-1	Direct	84	81	78	75	71	66	62	59	55	52	49	53	46	45	57	43	40	36	34	32	3,247
	Indirect	17	16	16	15	14	13	12	12	11	10	10	11	10	9	13	9	8	7	7	7	694
	Induced	39	38	37	35	33	31	29	27	26	24	23	24	21	21	26	20	18	17	16	15	1,437
	Total	140	136	131	125	118	111	104	98	92	86	82	89	77	75	96	72	67	61	57	54	5,378
TX-2	Direct	103	100	97	93	88	82	77	73	68	64	61	64	57	54	65	51	48	44	41	39	3,626
	Indirect	21	20	20	19	18	17	16	15	14	13	12	14	12	12	16	11	10	9	9	8	794
	Induced	36	35	34	32	31	29	27	25	24	22	21	22	20	19	23	18	17	15	14	14	1,223
	Total	160	155	150	144	136	128	120	113	106	100	94	100	88	86	104	80	75	68	64	60	5,644
TX-3	Direct	582	561	538	512	484	453	425	400	376	353	335	406	332	328	502	342	318	284	264	249	30,168
	Indirect	265	258	249	238	226	212	199	187	176	165	157	185	155	153	226	153	141	125	116	110	12,509
	Induced	361	350	337	321	304	285	268	252	236	222	211	251	208	205	308	211	195	174	162	153	17,764
	Total	1,209	1,168	1,125	1,072	1,014	951	892	839	788	740	703	842	694	686	1,037	706	654	582	542	511	60,441
Total EIA	Direct	2,249	2,171	2,086	1,987	1,878	1,761	1,652	1,553	1,459	1,370	1,299	1,478	1,254	1,227	1,699	1,208	1,123	1,009	940	887	98,098
	Indirect	748	727	703	672	636	598	561	527	496	466	441	513	433	427	610	416	383	339	315	297	32,654
	Induced	1,140	1,105	1,065	1,017	962	903	848	797	749	703	667	753	641	627	853	612	569	513	478	451	47,665
	Total	4,136	4,003	3,854	3,676	3,477	3,262	3,061	2,878	2,703	2,539	2,407	2,744	2,328	2,281	3,162	2,236	2,075	1,861	1,733	1,635	178,417

Source: Employment output from MMS's economic impact model MAG-PLAN.

Note: Totals may not sum due to rounding.

Table 4-32

Employment Projected from a Proposed CPA Lease Sale as a Percent of Total Employment by Economic Impact Area

Calendar	Model	AL-1		MS-1		LA-1		LA-2		LA-3		LA-4		TX-1		TX-2		TX-3		FL-1		FL-2		FL-3		FL-4		Total EIA	
Year	Year	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
2007	1	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008	2	0.0	**0.1**	0.0	**0.1**	**0.1**	**0.1**	**0.4**	**0.5**	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	**0.1**	**0.1**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**
2009	3	0.0	0.0	0.0	**0.1**	**0.1**	**0.1**	**0.3**	**0.5**	**0.2**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	**0.1**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**
2010	4	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.3**	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011	5	0.0	**0.1**	0.0	**0.1**	**0.1**	**0.1**	**0.3**	**0.8**	**0.2**	**0.5**	**0.1**	**0.2**	0.0	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**
2012	6	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.4**	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**
2013	7	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.4**	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**
2014	8	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.4**	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015	9	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016	10	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	11	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018	12	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019	13	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020	14	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021	15	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	16	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023	17	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024	18	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025	19	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2026	20	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2027	21	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.3**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2028	22	0.0	0.0	0.0	0.0	0.0	0.0	**0.2**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2029	23	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2030	24	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2031	25	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2032	26	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2033	27	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2034	28	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2035	29	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.2**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2036	30	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2037	31	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2038	32	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2039	33	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2040	34	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2041	35	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2042	36	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2043	37	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2044	38	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2045	39	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2046	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	**0.1**	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table 4-33

Offshore Spills ≥1,000 Barrels from Accidents Associated with OCS Facility Operations (1964-2005)

Year	Volume Spilled (bbl)	Area and Block	Water Depth (ft)	Distance from Shore (mi)	Cause of Spill
1964	2,559	EI 208	94	48	Freighter struck production platform, fire
1964	5,180	EI 208	94	48	Hurricane Hilda destroyed 3 production platforms, blowout
1964	5,100	SS 149	55	33	Hurricane Hilda destroyed production platform, blowout
1964	1,589	SS 199	102	44	Hurricane Hilda destroyed production platform, caused storage oil loss
1965	1,688[1]	SS 29	15	7	Drilling blowout
1969[1]	80,000	*	190	6	Drilling blowout
1969	2,500	SS 72	30	6	Storm caused vessel to bump drilling rig resulting in blowout
1970	30,000	MP 41	39	14	Fire destroyed production platform, blowout
1970	53,000	ST 26	60	8	Workover caused fire, destroyed platform and 2 drilling rigs
1973	9,935	WD 79	110	17	Oil storage tank ruptured
1973	7,000	SP 23	61	15	Rough seas sunk stationary storage barge
1979	1,500[2]	MP 151	280	10	Collision during rough seas between service vessel and drilling rig, damaged rig's diesel tank
1980	1,456	HI 206	60	27	During ballasting, for Hurricane Jeanne, oil storage tank overflowed
1998	1,012[3]	EW 873	1,271	61	Zinc bromide solution, human error, valve left open
2002	1,800[4]	WR 206	8,180	160	SBF release, loop current and severe weather, emergency riser disconnect
2003	1,421[4]	MC 778/822	6,040	75	SBF release, weather, external forces, riser parted
2004	1,034[4]	GC 653	4,238	120	SBF release, weather, external forces, emergency riser disconnect
2005[#]	2,000[1]	EI 314	230	78	Hurricane Rita destroyed platform
2005[#]	1,572[2]	SS 250	182	48	Hurricane Rita destroyed drilling rig
2005	1,494[2]	SM 146	232	79	Hurricane Rita

Notes: Gulf of Mexico crude oil unless otherwise indicated.
[1] condensate.
[2] diesel or other refined oil.
[3] chemical spill.
[4] synthetic base fluid.
* Occurred in Santa Barbara Channel, California.
[#] Preliminary information.

EI = Eugene Island Area
SS = Ship Shoal Area
MP = Main Pass Area
ST = South Timbalier Area
WD = West Delta Area
SP = South Pass Area
HI = High Island Area
EW = Ewing Bank
WR = Walker Ridge
MC = Mississippi Canyon
GC = Green Canyon
SM = South Marsh Island

Sources: Anderson and LaBelle, 2000; USDOI, MMS, 2006a; Anderson, personal communication, June and August 2006.

Table 4-34

Offshore Spills ≥1,000 bbl from Accidents Associated with OCS Pipeline Oil Transport (1964-2005)

Year	Volume Spilled (bbl)	Area and Block	Water Depth (ft)	Distance From Shore (mi)	Cause of Spill
1967	160,638	WD 73	168	22	Internal corrosion caused by anchor kink
1968	6,000	ST 131	160	28	Anchor drag
1969	7,532	MP 299	210	17	Anchor drag
1973	5,000	WD 73	168	22	Internal corrosion
1974	19,833	EI 317	240	75	Anchor drag
1974	3,500	MP 73	141	9	Hurricane Carmen, connection torn loose
1976	4,000	EI 297	210	71	Trawl drag
1981	5,100	SP 60	185	4	Service vessel's anchor
1988	15,576	GAL 2A	75	34	Anchor drag
1990	14,423[1]	SS 281	197	60	Anchor drag
1990	4,569	EI 314	230	78	Trawl drag
1992	2,000	SP 8	30	6	During Hurricane Andrew, drilling rig's anchor drag
1994	4,533[1]	SS 281	197	60	Trawl drag
1998	1,211[1]	EC 334	264	105	Service vessel anchor drag during rescue operation
1998	8,212	SP 38	10	6	During Hurricane Georges, damage from mudslide
1999	3,200	SS 241	133	50	Jack-up barge damage
2000	2,240	SS 332	435	75	Drilling rig anchor drag
2004[3]	1,720	MC 20	479	19	Hurricane Ivan mud slide
2004	4,834[2]	MP 261	1475	75	Hurricane Ivan, anchor drag
2005#	>100-1,812[1]	EI 51	17	20	Hurricane Rita, suspected anchor or mooring drag
2005#	>100-1,551[1]	EI 95	17	24	Hurricane Rita, suspected anchor or mooring drag
2005#	200-2,000	MC 109	1,000	18	Hurricane Katrina

Notes: Crude oil unless otherwise indicated.
[1]condensate.
[2]methanol.
= Preliminary information.

WD = West Delta Area
ST = South Timbalier Area
MP = Main Pass Area
EI = Eugene Island Area
SP = South Pass Area
SS = Ship Shoal Area
EC = East Cameron Area
MC = Mississippi Canyon

Sources: Anderson and LaBelle, 2000; Anderson, personal communication, August 2006.

Table 4-35

Mean Number and Sizes of Spills Estimated to Occur in
OCS Offshore Waters from an Accident Related
to Activities Supporting a Proposed Action Over a 40-Year Time Period

Spill Size Group	Spill Rate (Spills/BBO) [1]	Number of Spills Estimated for a WPA Proposed Action [2]	Number of Spills Estimated for a CPA Proposed Action [2]	Estimated Spill Size [1]
0-1.0 bbl	3,357.31	812-1,420	2,605-4,337	0.07[3]
1.1-9.9 bbl	74.7	18-32	58-97	3[4]
10.0-49.9 bbl	16.18	4-7	13-21	20[4]
50.0-499.9 bbl	6.37	2-3	5-8	90[4]
500.0-999.9 bbl	0.52	<1	<1-1	640[4]
≥1,000 bbl	1.51	<1-1	1-2	4,600[4]
≥10,000 bbl	0.39	<1	<1-1	15,000[4]

Notes: The number of spills estimated is derived by application of the historical rate of spills per volume crude oil handled (1985-1999) (Anderson and LaBelle, 2000) to the projected production for a proposed action in the WPA or CPA (Table 4-1). Projected production is an estimate of recoverable resource and is influenced by supporting infrastructure, as well as economic and technological factors. The actual number of spills that may occur in the future could vary from the estimated number.

[1] Source: Anderson and LaBelle, 2000.
[2] Source: Table 4-1.
[3] Average spill size.
[4] Median spill size.

Table 4-36

Mass Balance of a Hypothetical Spill of 4,600 bbl Spilled over a 12-Hour Period from a Pipeline Break during the Summer, 50 Miles Off Louisiana
(oil characteristics: API 30° and stable emulsion formation)

Time Elapsed after Spill Event Begins (hr)	Estimated Volume in Slick (Spilled Oil Remaining on Water Surface)* (bbl)	Estimated Open Water Slick Thickness (mm)	Estimated Area of Open Water Covered by Slick* (ac)	Estimated Length of Shoreline Contacted, if Slick were to Reach Land (km)	Estimated Volume Lost from Slick by Natural Weathering (bbl)	Estimated Volume Removed from Slick Using Chemical Dispersants (bbl)	Estimated Volume Removed from Slick by Mechanical Cleanup (bbl)	Percent of Total Volume Cleaned Up (%)	Total Percent of Slick Lost from Natural Weathering (%)	Percent of Total Spill Mass Evaporated (%)	Percent of Total Spill Mass Naturally Dispersed (%)
4	1,260	1.4	35	5	220	0	0	0	15	15	0
12	2,620	1	200	30	920	1,050	0	23	21	20	1
24	1,330	1	100	15	1,060	1,750	460	48	24	22	2
48	270	1	20	3	1,210	2,050	1,070	68	27	24	3
72	270	1	10	1	1,250	2,050	1,070	68	28	27	1
240	50**	1	5	1	1,430	2,050	1,070	68	32	30	2

* Assumes continuous coverage of water surface by slick for first 4 hours and noncontinuous, patchy, wind-row coverage after 4 hours. 50% of the slick would become emulsified, with the remaining being a light sheen.

** After 10 days, the 50 bbl remaining is expected to occur as a rainbow sheen, the slick broken up into many, small slicks spread out over approximately 200 ac. These small sheens would dissipate in less than a day.

Table 4-37

Mass Balance of a Hypothetical Spill of 4,600 bbl Spilled over 12-Hour Period from an OCS Pipeline Break during the Winter, 65 Miles off Texas
(oil characteristics: API 35°, no emulsion formation)

Time Elapsed after Spill Event Begins (hr/day)	Estimated Volume in Slick (Spilled Oil Remaining on Water Surface)* (bbl)	Estimated Open Water Slick Thickness (mm)	Estimated Area of Open Water Covered by Slick* (ac)	Estimated Length of Shoreline Contacted, if Slick were to Reach Land (km)	Estimated Volume Lost from Slick by Natural Weathering (bbl)	Estimated Volume Removed from Slick Using Chemical Dispersants (bbl)	Estimated Volume Removed from Slick by Mechanical Cleanup (bbl)	Percent of Total Volume Cleaned Up (%)	Total Percent of Slick Lost from Natural Weathering (%)	Percent of Total Spill Mass Evaporated (%)	Percent of Total Spill Mass Naturally Dispersed (%)
4 hr	1,140	0.7	60	10	1,180	0	0	0	26	21	5
12 hr	1,870	0.4	350	50	2,025	710	0	16	44	27	18
24 hr	450	0.3	140	20	2,900	1,040	180	27	64	30	35
48 hr	0				3,380	1,040	180	27	73	31	42
3 days	0										
10 days	0										

* Assumes continuous coverage of water surface by slick for first 4 hours, then noncontinuous, patchy coverage after 4 hours.

Table 4-38

Estimated Number of Spills that Could Happen in Gulf Coastal Waters
from an Accident Related to Activities Supporting a Proposed Action

Size Category	Assumed Size	WPA Proposed Action	CPA Proposed Action
Total		15-34	46-102
≤1 bbl	1 bbl	13-29	42-92
>1 bbl and <50 bbl	3 bbl	1-2	2-4
≥50 bbl and <1,000 bbl	150 bbl	1-2	2-5
≥1,000 bbl	3,000 bbl	<1-1	<1-1

Note: The estimated number of spills is obtained from the count of coastal spills for 2001 proportioned to reflect that OCS oil comprised 19 percent of the oil crossing into GOM coastal waters in 2001. Intrastate oil and refined product transport were not included. The low estimate in the range was obtained from Dickey (2006) and the high estimate was obtained from aggregated national data available on the Internet (USCG, 2001).

Sources: Dickey, 2006; USCG, 2001; National Ocean Economics Program, 2006; USDOE, EIA, 2006.

Table 4-39

Number and Volume of Chemical and Synthetic-Based Fluid Spills
in the Gulf of Mexico during the Years 2001-2004

	2001		2002		2003		2004	
Spill Size (bbl)	Chemical	SBF	Chemical	SBF	Chemical	SBF	Chemical	SBF
1 - <50	9	4	6	11	2	11	16	5
50 - <100	0	0	0	2	0	2	1	1
100 - <500	2	3	2	1	1	3	2	2
500 - <1,000	0	1	0	2	0	1	0	1
>1,000	0	0	0	1	0	1	1	1
Total	11	8	8	17	3	18	20	10

Note: For the years 2001-2003, the total volume of drilling fluid was recorded rather than the volume of the synthetic based fluid within of the drilling fluid.

Table 4-40

Record of Past Spills Where >1,000 bbl of Synthetic-Based Fluid (SBF) was Released

Date	Location	Water Depth (ft)	SBF Volume Released * (bbl)	Cause
03/01/02	WR 206	8,180	1,800	Emergency riser disconnect
05/21/03	MC 822	6,040	1,421	Riser failure
04/11/04	GC 653	4,238	1,034	Emergency riser disconnect

* Volume reflects the amount of synthetic fluid, not the total drilling mud released.

Table 4-41

Estimated Air Emissions for OCS and Non-OCS Activities
in the Western and Central Gulf of Mexico Planning Areas

Activity	Pollutant (tons/yr)				
	NO_x	SO_2	PM_{10}	CO	VOC
Production Platforms	112,367	4,999	1,136	132,659	85,714
Exploration Wells	7,083-9,107	1,195-1,536	176-226	744-956	68-88
Platform Construction/ Removal	15,552-15,691	2,650-2,674	388-392	1,936-1,956	199-201
Pipelaying Vessels	2,495-4,990	419-838	62-125	261-523	24-48
Support Vessels	46,455-48,947	7,937-8,362	1,160-1,222	5,997-6,319	621-654
Survey Vessels	111	18	3	11	1
Helicopters	1,179-1,242	145-153	88-92	4,969-5,235	1,873-1,974
Tanker/Barge Transport	3,165	544	81	528	2,572
Total	188,407-195,620	17,906-19,124	3,094-3,277	147,104-148,187	91,072-91,251
2000 Non-Oil/Gas OCS Emissions	49,923	9,280	1,371	13,536	24,444

Table 4-42

Recommended Mitigation Techniques Used to Avoid or Reduce Adverse Impact to Wetlands by Pipelines, Canals, Dredging, and Dredged Material Placement

Technique	Decision Process	Factors to Consider
Pipeline Construction		
Avoidance	Route selection and location Evaluation of potential routes that avoid wetlands entirely Shared right-of-way (ROW) and pipelines Using all or part of an existing ROW would avoid new impacts to wetlands	Length of route Difficulty of the land for pipeline installation, i.e., access points and sediment characteristics Presence of other pipelines Presence of transportation corridors Density of surrounding developments Number of different land owners
Minimization	Necessity of pipeline contents	Environment function Timing of the project Previous pipeline installations Availability of equipment
Location/Route Selection	Early planning Considering wetland type Use of aerial photography as well as digital and topographic maps combined with field surveys to identify route of minimal impact	Most routes are predetermined by the beginning and end points Flexibility within general route to locate sections of pipelines to one side or another to take advantage of upland areas, existing ROW, etc.
Existing ROW/Corridors	Plan routes paralleling existing pipelines (safety issues) Timing right to share section of pipeline between or among users	Group pipelines in corridors where impacts are limited to smaller areas of coastal wetlands
Construction/ Installation	Methods depend on environment pipeline is constructed Flotation canals Push-pull method Single versus double ditching techniques Directional drilling *	Choice of method has implications for Type of impact Access impact Impact from specific equipment
Dredging		
Dredge and Other Material Disposal	Features associated with pipeline canals and navigation channels Avoid levees by spray dredging, levee manipulation/spoil bank removal, and canal backfilling	Navigation channels and some canals must be left open for access Impacts associated with spoil banks include soil compaction, impoundment, and creation of upland vegetation
Dredge Material Bank Removal	Identify areas to place dredge Navigation channels Canals that cannot be backfilled Potential use for filling nearby old canal or abandoned navigation channels Off-site mitigation	Due to expense and difficulty in many coastal areas only used in sensitive areas
Levee Manipulation	Dredge material should allow water to pass through openings in the line of dredge placement	Levees used as walkways and built from material placed in a long line paralleling the length of the project is detrimental to marsh and should be built discontinuous instead Must maintain natural hydrologic pattern Technique is post-construction technique where sections of dredge banks are removed in order to restore hydrologic flow
Spray Dredge	Suggested and used to avoid completely the creation of dredge banks Spray dredging places material over a large area of marsh surface at a depth that avoids destroying vegetation or altering hydrology	Normally dredge is deposited discontinuously and unevenly, enabling the avoidance of sensitive habitats or minimize spoil over small creeks More costly than more traditional use of the bucket dredge; most contractors along the Gulf Coast have not invested in spray dredge technology
Canals and Channels		
Backfill	Suggested as a way to minimize impacts from canals and to restore impacted habitats Based on OCS permit information, this is the most common required mitigation in recent years In Texas and Louisiana, a typical backfilled pipeline canal results in 75% reduction in direct impacts to the marsh as compared to non-backfilled canals (Baumann and Turner, 1990)	Involves returning soil into the canal so that the elevation is restored as close as possible to pre-construction elevation May occur on-site for canal restoration, as well as off-site as mitigation for other dredging operations Intended benefits of backfilling are reestablishment of marsh vegetation in the canal and on the regraded spoil bank, and restoration of marsh soils on bottom of the canal

Technique	Decision Process	Factors to Consider
Canals and Channels (continued)		
Wood Chipping	A new technique unique to forested wetlands Regulatory personnel believe the use of windrows should be avoided. Requirement for chipping on-site started approximately 1992/1993	Prior to 1996, trees removed for ROW being pushed to the side created *windrows* with the potential to act as hydrologic barriers Success of wood chipping remains undetermined. Problems encountered include equipment not adapted to the function of marshes, equipment is expensive, and process is time-consuming
Erosion Stabilization	Many impacts are from pipeline canals and navigation channels Stabilization of banks is critical Lack of stabilization can result in slumping of canal sides and blockage of natural creeks/drainage streams	Erosion control measures are required through the use of Best Management Practices Requirement is usually erosion control/siltation fences
Revegetation	Often required by permits Extremely valuable to the acceleration of marsh recover over first growing season Most extensive data exist for the revegetation of dunes, but through the use of directional drilling, is not the concern as in past cases	Stabilizes shorelines, shore banks, and areas surrounding stream crossings where erosion is most likely to occur Helps to reduce sedimentation and erosion
Plugs/Dams	Structures have been used frequently in order to mitigate adverse hydrodynamic impacts and accelerated erosion, i.e., dams, weirs, bulkheads, rip-rap, shell/gravel mats, and biodegradable mats	Reduces erosion and provides barriers to saltwater intrusion Plugs maintain elevated marsh water levels Prevent saltwater intrusion into low-salinity marshes Reduces tidal exchange thereby reducing bank erosion
Erosion Control during Project	Construction of pipelines and navigation Channels is governed by the of Best Management Practices and erosion control during the construction phase is a requirement	Natural features of each construction site should be identified for the necessary erosion control
Timing of Project	Seasonal timing of the project can minimize impacts Avoid impacts to endangered species, particularly bird breeding seasons	Expanding restrictions to ensure there will be at least part of one growing season for re-establishment of vegetation before fall/winter has been discussed, but dismissed for economic reasons to industry
Restoration	Can occur either immediately, post construction, or many years after pipeline and navigation canal construction	Backfilling of canals, resulting in levee removal, has been a requirement for most pipeline installation projects There is a benefit to backfilling old canals and navigation channels in order to reduce or reverse the trend of wetland losses in coastal Louisiana Other options include the use of imported material
Compensation	Typically occurs through the creation of new wetland habitat or through a cash payment to the appropriate land management agency Allows for the creation and restoration of lost wetland habitat In Louisiana, the payment of cash for wetlands into a State trust fund is administered by LADNR and is controversial This fund has been in existence for several years and has a significant accumulation of funds; however, no creation projects have yet to tap into it	In many cases not an option Saline marshes have yet to be successfully created, and finding appropriate locations to create salt marsh is difficult Forested wetlands are also difficult to compensate

* Trenchless, or directional drilling, is the newest and favored technique in sensitive habitats. This technique is considered to be extremely protective of sensitive habitats. At present, directional drilling is required almost without exception for crossing barrier island and shore faces. Impacts are limited to the access and staging sites for the equipment. By using directional drilling, pipeline installation can occur without having to cut through shore facings, minimizing any erosion and surface habitat disturbance

Table 4-43

Population Projected for the OCS Program by Economic Impact Area

Calendar Year	Model Year	AL-1 Low	AL-1 High	MS-1 Low	MS-1 High	LA-1 Low	LA-1 High	LA-2 Low	LA-2 High	LA-3 Low	LA-3 High	LA-4 Low	LA-4 High	TX-1 Low	TX-1 High	TX-2 Low	TX-2 High	TX-3 Low	TX-3 High	FL-1 Low	FL-1 High	FL-2 Low	FL-2 High	FL-3 Low	FL-3 High	FL-4 Low	FL-4 High	Total EIA Low	Total EIA High
2007	1	10,426	13,205	8,606	10,783	9,828	12,730	105,797	138,327	84,881	108,782	38,411	51,016	19,162	31,131	17,742	27,860	152,061	202,514	10,943	14,218	4,364	5,864	13,756	16,026	4,122	5,015	480,099	637,469
2008	2	10,353	13,562	8,565	11,105	9,716	12,817	104,756	139,508	84,406	111,525	37,846	51,845	19,099	31,892	17,580	28,162	150,660	208,966	10,903	14,415	4,306	5,919	13,712	16,425	4,101	5,258	476,004	651,400
2009	3	10,242	13,729	8,505	11,275	9,547	12,791	103,014	139,352	83,562	112,790	37,131	51,921	18,923	32,935	17,305	28,675	148,899	212,352	10,722	14,471	4,225	5,899	13,716	16,715	4,105	5,400	469,896	658,304
2010	4	10,102	13,748	8,426	11,320	9,327	12,656	100,757	138,120	82,403	112,883	36,209	51,427	18,653	34,169	16,910	29,314	146,611	213,216	10,514	14,488	4,102	5,814	13,738	16,891	4,096	5,442	461,847	659,487
2011	5	10,111	13,427	8,442	11,101	9,219	12,298	99,437	134,409	82,334	110,344	36,011	49,707	18,579	35,197	16,713	29,817	147,099	208,632	10,357	14,151	4,083	5,613	13,739	16,744	4,196	5,347	460,322	646,787
2012	6	9,595	13,027	8,064	10,811	8,779	11,886	95,151	130,041	78,437	107,167	33,756	47,780	17,835	36,550	16,005	30,550	138,253	203,263	9,980	13,726	3,818	5,394	13,289	16,416	3,942	5,223	436,904	631,834
2013	7	9,714	12,777	8,158	10,648	8,773	11,600	94,810	127,062	79,241	105,201	34,075	46,410	17,954	38,146	15,987	31,476	140,683	200,279	9,910	13,419	3,860	5,230	13,332	16,356	4,095	5,165	440,591	623,770
2014	8	9,270	12,415	7,842	10,392	8,418	11,233	91,486	123,174	75,960	102,342	32,070	44,638	17,365	39,569	15,439	32,262	132,665	195,437	9,630	13,023	3,621	5,026	13,013	16,105	3,854	5,056	420,633	610,672
2015	9	9,383	12,040	7,928	10,125	8,429	10,869	91,345	119,263	76,732	99,345	32,508	43,007	17,490	41,074	15,463	33,134	134,978	190,505	9,589	12,626	3,671	4,821	12,997	15,799	3,988	4,933	424,500	597,541
2016	10	8,946	11,586	7,601	9,780	8,083	10,441	88,050	114,666	73,472	95,717	30,718	41,076	16,895	41,824	14,930	33,445	127,503	184,018	9,308	12,151	3,456	4,596	12,545	15,315	3,751	4,775	405,259	579,388
2017	11	9,021	11,203	7,653	9,495	8,076	10,069	87,829	110,678	74,019	92,651	30,956	39,368	16,986	41,949	14,936	33,315	129,009	178,085	9,272	11,727	3,487	4,392	12,503	14,996	3,844	4,649	407,591	562,576
2018	12	8,865	11,144	7,556	9,469	8,045	10,103	87,918	111,053	73,187	92,487	30,314	39,145	17,017	42,592	15,033	33,828	125,684	176,767	9,328	11,727	3,441	4,414	12,400	14,943	3,715	4,639	402,503	562,312
2019	13	9,065	10,989	7,695	9,352	8,200	10,044	89,374	110,408	74,875	91,530	31,283	38,660	17,426	42,806	15,388	33,997	129,461	174,093	9,457	11,643	3,589	4,405	12,314	14,650	3,859	4,581	411,987	557,157
2020	14	8,755	10,842	7,467	9,237	8,033	9,979	87,942	109,740	72,731	90,587	30,185	38,286	17,144	42,735	15,221	33,964	123,942	171,520	9,345	11,581	3,474	4,393	11,954	14,362	3,667	4,516	399,861	551,742
2021	15	9,032	10,720	7,676	9,142	8,275	9,920	90,356	109,175	75,067	89,831	31,437	37,886	17,731	42,610	15,759	33,872	128,699	169,175	9,544	11,549	3,662	4,380	12,044	14,168	3,848	4,455	413,130	546,883
2022	16	8,839	10,627	7,545	9,067	8,217	9,870	90,113	108,743	73,935	89,293	30,755	37,578	17,690	42,586	15,811	33,835	124,897	167,546	9,548	11,551	3,606	4,377	11,871	13,993	3,703	4,409	406,530	543,473
2023	17	9,066	10,589	7,712	9,037	8,398	9,857	91,885	108,688	75,832	89,207	31,755	37,526	18,164	42,670	16,232	33,884	128,914	166,959	9,699	11,555	3,767	4,399	11,909	13,845	3,865	4,398	417,198	542,614
2024	18	8,913	10,587	7,604	9,039	8,346	9,876	91,700	108,920	75,043	89,454	31,260	37,631	18,148	42,806	16,267	33,982	125,819	166,730	9,731	11,560	3,708	4,425	11,756	13,767	3,717	4,400	412,011	543,177
2025	19	8,852	10,441	7,563	8,939	8,318	9,791	91,595	108,058	74,701	88,409	31,058	37,088	18,178	42,598	16,314	33,839	124,881	164,142	9,763	11,442	3,715	4,402	11,620	13,600	3,691	4,368	410,249	537,117
2026	20	8,810	10,409	7,521	8,917	8,287	9,775	91,429	107,980	74,540	88,334	31,022	37,065	18,215	42,531	16,347	33,788	124,449	163,588	9,795	11,440	3,727	4,425	11,445	13,457	3,659	4,373	409,245	536,082
2027	21	8,804	10,429	7,517	8,939	8,280	9,795	91,504	108,334	74,656	88,676	31,068	37,180	18,306	42,431	16,416	33,716	124,508	163,651	9,831	11,495	3,747	4,460	11,363	13,403	3,654	4,392	409,655	536,900
2028	22	8,710	10,433	7,449	8,940	8,209	9,793	90,844	108,470	74,019	88,858	30,743	37,213	18,245	42,341	16,374	33,634	123,156	163,531	9,754	11,564	3,734	4,486	11,232	13,307	3,635	4,393	406,103	536,962
2029	23	8,654	10,406	7,402	8,909	8,150	9,762	90,267	108,276	73,672	88,800	30,583	37,161	18,215	42,175	16,340	33,485	122,444	163,035	9,702	11,609	3,733	4,501	11,098	13,166	3,626	4,371	403,886	535,655
2030	24	8,566	10,391	7,345	8,897	8,077	9,749	89,547	108,281	73,029	88,814	30,277	37,161	18,128	41,990	16,272	33,347	121,142	162,626	9,608	11,651	3,715	4,517	11,004	13,083	3,619	4,362	400,328	534,870
2031	25	8,531	10,410	7,317	8,913	8,022	9,752	89,027	108,469	72,833	89,117	30,148	37,231	18,110	41,912	16,232	33,266	120,664	162,852	9,577	11,722	3,708	4,548	10,916	13,036	3,616	4,376	398,701	535,605
2032	26	8,456	10,424	7,260	8,929	7,934	9,753	88,223	108,640	72,282	89,365	29,826	37,265	18,026	41,819	16,130	33,181	119,626	162,968	9,534	11,772	3,686	4,579	10,808	12,996	3,599	4,400	395,390	536,091
2033	27	8,423	10,473	7,232	8,976	7,875	9,785	87,713	109,134	72,115	89,911	29,721	37,445	18,007	41,790	16,072	33,155	119,281	163,580	9,527	11,839	3,676	4,624	10,714	12,999	3,583	4,444	393,940	538,155
2034	28	8,384	10,478	7,199	8,984	7,802	9,780	87,046	109,241	71,807	90,082	29,505	37,428	17,964	41,735	15,990	33,097	118,967	163,577	9,517	11,889	3,673	4,653	10,610	12,940	3,589	4,463	392,053	538,347
2035	29	8,315	10,475	7,141	8,984	7,718	9,773	86,262	109,312	71,314	90,209	29,257	37,441	17,882	41,700	15,885	33,054	118,149	163,540	9,478	11,927	3,655	4,682	10,473	12,874	3,565	4,475	389,094	538,447
2036	30	8,223	10,431	7,071	8,953	7,619	9,732	85,332	109,022	70,608	89,949	28,755	37,122	17,768	41,555	15,761	32,929	116,650	162,459	9,438	11,955	3,619	4,683	10,368	12,815	3,536	4,467	384,748	536,072
2037	31	8,223	10,421	7,068	8,939	7,588	9,715	85,101	108,985	70,687	90,027	28,820	37,177	17,809	41,569	15,754	32,905	117,004	162,414	9,448	11,999	3,633	4,705	10,298	12,726	3,546	4,455	384,980	536,037
2038	32	8,159	10,437	7,021	8,949	7,522	9,709	84,510	109,077	70,275	90,291	28,543	37,207	17,760	41,616	15,697	32,904	115,853	162,672	9,415	12,072	3,608	4,732	10,228	12,682	3,519	4,464	382,111	536,813
2039	33	8,046	10,422	6,941	8,940	7,426	9,682	83,664	108,959	69,458	90,277	28,034	37,075	17,640	41,667	15,582	32,901	113,961	162,445	9,369	12,115	3,565	4,749	10,127	12,634	3,468	4,470	377,281	536,336
2040	34	8,006	10,433	6,908	8,944	7,371	9,671	83,162	108,983	69,199	90,488	27,881	37,130	17,619	41,791	15,535	32,945	113,504	162,807	9,345	12,166	3,560	4,776	10,058	12,586	3,460	4,480	375,608	537,199
2041	35	7,999	10,447	6,905	8,963	7,341	9,669	82,945	109,116	69,215	90,740	27,820	37,147	17,660	41,941	15,537	33,020	113,464	163,093	9,355	12,204	3,564	4,805	10,039	12,589	3,468	4,506	375,312	538,239
2042	36	7,925	10,412	6,839	8,931	7,256	9,622	82,101	108,741	68,662	90,552	27,540	37,000	17,567	42,030	15,425	33,031	112,618	162,800	9,308	12,206	3,549	4,818	9,906	12,497	3,443	4,503	372,140	537,142
2043	37	7,799	10,366	6,754	8,903	7,162	9,590	81,246	108,444	67,773	90,311	27,032	36,777	17,437	42,081	15,319	33,049	110,330	161,645	9,219	12,207	3,498	4,815	9,835	12,496	3,384	4,494	366,787	535,179
2044	38	7,757	10,335	6,722	8,880	7,107	9,551	80,746	108,151	67,499	90,168	26,841	36,630	17,413	42,139	15,270	33,050	109,761	161,206	9,197	12,218	3,489	4,828	9,784	12,413	3,374	4,495	364,959	534,063
2045	39	7,739	10,341	6,711	8,882	7,072	9,537	80,462	108,139	67,431	90,371	26,760	36,706	17,435	42,263	15,263	33,094	109,568	161,571	9,197	12,253	3,495	4,856	9,746	12,361	3,382	4,505	364,261	534,880
2046	40	7,686	10,299	6,668	8,854	7,010	9,492	79,875	107,791	67,061	90,134	26,543	36,478	17,390	42,306	15,200	33,083	108,882	160,881	9,166	12,251	3,487	4,861	9,665	12,307	3,369	4,504	362,005	533,240

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-44

Population Projected for the OCS Program as a Percent of Total Population by Economic Impact Area

Calendar Year	Model Year	AL-1 Low High	MS-1 Low High	LA-1 Low High	LA-2 Low High	LA-3 Low High	LA-4 Low High	TX-1 Low High	TX-2 Low High	TX-3 Low High	FL-1 Low High	FL-2 Low High	FL-3 Low High	FL-4 Low High	Total EIA Low High
2007	1	1.4 - 1.8	1.8 - 2.2	2.9 - 3.7	18.1 - 23.7	7.3 - 9.4	3.6 - 4.7	1.1 - 1.8	2.9 - 4.6	2.6 - 3.5	1.2 - 1.6	0.7 - 0.9	0.4 - 0.5	0.1 - 0.1	2.0 - 2.7
2008	2	1.4 - 1.8	1.8 - 2.3	2.8 - 3.7	17.9 - 23.8	7.3 - 9.6	3.4 - 4.7	1.1 - 1.8	2.9 - 4.6	2.6 - 3.6	1.2 - 1.6	0.7 - 0.9	0.4 - 0.5	0.1 - 0.1	2.0 - 2.7
2009	3	1.4 - 1.8	1.7 - 2.3	2.8 - 3.7	17.5 - 23.7	7.2 - 9.7	3.3 - 4.6	1.1 - 1.9	2.8 - 4.7	2.5 - 3.6	1.1 - 1.5	0.7 - 0.9	0.4 - 0.5	0.1 - 0.1	1.9 - 2.7
2010	4	1.3 - 1.8	1.7 - 2.3	2.7 - 3.7	17.0 - 23.3	7.0 - 9.6	3.2 - 4.5	1.0 - 1.9	2.7 - 4.7	2.5 - 3.6	1.1 - 1.5	0.6 - 0.9	0.4 - 0.5	0.1 - 0.1	1.9 - 2.7
2011	5	1.3 - 1.8	1.7 - 2.2	2.7 - 3.6	16.7 - 22.6	7.0 - 9.3	3.1 - 4.3	1.0 - 1.9	2.7 - 4.7	2.4 - 3.5	1.1 - 1.5	0.6 - 0.8	0.4 - 0.5	0.1 - 0.1	1.8 - 2.6
2012	6	1.2 - 1.7	1.6 - 2.1	2.5 - 3.4	15.9 - 21.7	6.6 - 9.0	2.8 - 4.0	1.0 - 2.0	2.5 - 4.8	2.3 - 3.3	1.0 - 1.4	0.6 - 0.8	0.4 - 0.4	0.1 - 0.1	1.7 - 2.5
2013	7	1.3 - 1.6	1.6 - 2.1	2.5 - 3.3	15.8 - 21.1	6.6 - 8.8	2.8 - 3.8	0.9 - 2.0	2.5 - 4.9	2.3 - 3.2	1.0 - 1.3	0.6 - 0.8	0.4 - 0.4	0.1 - 0.1	1.7 - 2.4
2014	8	1.2 - 1.6	1.5 - 2.0	2.4 - 3.2	15.1 - 20.4	6.3 - 8.5	2.6 - 3.6	0.9 - 2.0	2.4 - 5.0	2.1 - 3.1	0.9 - 1.3	0.5 - 0.7	0.3 - 0.4	0.1 - 0.1	1.6 - 2.3
2015	9	1.2 - 1.5	1.5 - 1.9	2.4 - 3.1	15.0 - 19.6	6.4 - 8.2	2.6 - 3.4	0.9 - 2.1	2.4 - 5.1	2.1 - 3.0	0.9 - 1.2	0.5 - 0.7	0.3 - 0.4	0.1 - 0.1	1.6 - 2.3
2016	10	1.1 - 1.5	1.4 - 1.8	2.3 - 3.0	14.4 - 18.8	6.1 - 7.9	2.4 - 3.2	0.8 - 2.1	2.3 - 5.1	2.0 - 2.9	0.9 - 1.1	0.5 - 0.7	0.3 - 0.4	0.1 - 0.1	1.5 - 2.2
2017	11	1.1 - 1.4	1.4 - 1.8	2.3 - 2.9	14.3 - 18.0	6.1 - 7.6	2.4 - 3.0	0.8 - 2.1	2.2 - 5.0	2.0 - 2.7	0.9 - 1.1	0.5 - 0.6	0.3 - 0.4	0.1 - 0.1	1.5 - 2.1
2018	12	1.1 - 1.4	1.4 - 1.7	2.3 - 2.8	14.2 - 18.0	6.0 - 7.5	2.3 - 2.9	0.8 - 2.1	2.2 - 5.0	1.9 - 2.7	0.9 - 1.1	0.5 - 0.6	0.3 - 0.4	0.1 - 0.1	1.5 - 2.0
2019	13	1.1 - 1.4	1.4 - 1.7	2.3 - 2.8	14.4 - 17.8	6.1 - 7.4	2.3 - 2.8	0.8 - 2.0	2.3 - 5.0	1.9 - 2.6	0.8 - 1.0	0.5 - 0.6	0.3 - 0.4	0.1 - 0.1	1.5 - 2.0
2020	14	1.1 - 1.3	1.3 - 1.7	2.2 - 2.8	14.1 - 17.6	5.9 - 7.3	2.2 - 2.8	0.8 - 2.0	2.2 - 4.9	1.8 - 2.5	0.8 - 1.0	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.4 - 2.0
2021	15	1.1 - 1.3	1.4 - 1.6	2.3 - 2.8	14.4 - 17.4	6.0 - 7.2	2.2 - 2.7	0.8 - 2.0	2.3 - 4.9	1.9 - 2.5	0.8 - 1.0	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.4 - 1.9
2022	16	1.1 - 1.3	1.3 - 1.6	2.3 - 2.7	14.3 - 17.2	5.9 - 7.1	2.2 - 2.6	0.8 - 1.9	2.3 - 4.8	1.8 - 2.4	0.8 - 1.0	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.4 - 1.9
2023	17	1.1 - 1.3	1.3 - 1.6	2.3 - 2.7	14.5 - 17.1	6.0 - 7.1	2.2 - 2.6	0.8 - 1.9	2.3 - 4.8	1.8 - 2.4	0.8 - 1.0	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.4 - 1.9
2024	18	1.1 - 1.3	1.3 - 1.6	2.3 - 2.7	14.3 - 17.0	5.9 - 7.0	2.1 - 2.5	0.8 - 1.9	2.3 - 4.7	1.8 - 2.4	0.8 - 1.0	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.4 - 1.8
2025	19	1.1 - 1.2	1.3 - 1.5	2.3 - 2.7	14.2 - 16.8	5.8 - 6.9	2.1 - 2.5	0.8 - 1.9	2.3 - 4.7	1.7 - 2.3	0.8 - 0.9	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.4 - 1.8
2026	20	1.0 - 1.2	1.3 - 1.5	2.3 - 2.7	14.1 - 16.7	5.8 - 6.9	2.0 - 2.4	0.8 - 1.8	2.2 - 4.6	1.7 - 2.3	0.8 - 0.9	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.3 - 1.8
2027	21	1.0 - 1.2	1.2 - 1.5	2.2 - 2.7	14.0 - 16.6	5.8 - 6.8	2.0 - 2.4	0.8 - 1.8	2.2 - 4.6	1.7 - 2.2	0.8 - 0.9	0.5 - 0.6	0.3 - 0.3	0.0 - 0.1	1.3 - 1.7
2028	22	1.0 - 1.2	1.2 - 1.5	2.2 - 2.6	13.9 - 16.5	5.7 - 6.8	1.9 - 2.4	0.8 - 1.8	2.2 - 4.5	1.7 - 2.2	0.8 - 0.9	0.5 - 0.6	0.2 - 0.3	0.0 - 0.1	1.3 - 1.7
2029	23	1.0 - 1.2	1.2 - 1.4	2.2 - 2.6	13.7 - 16.4	5.6 - 6.8	1.9 - 2.3	0.7 - 1.7	2.2 - 4.4	1.6 - 2.2	0.7 - 0.9	0.5 - 0.5	0.2 - 0.3	0.0 - 0.0	1.3 - 1.7
2030	24	1.0 - 1.2	1.2 - 1.4	2.2 - 2.6	13.5 - 16.3	5.5 - 6.7	1.9 - 2.3	0.7 - 1.7	2.1 - 4.4	1.6 - 2.1	0.7 - 0.9	0.4 - 0.5	0.2 - 0.3	0.0 - 0.0	1.3 - 1.7
2031	25	1.0 - 1.2	1.2 - 1.4	2.1 - 2.6	13.3 - 16.2	5.5 - 6.7	1.8 - 2.2	0.7 - 1.7	2.1 - 4.3	1.6 - 2.1	0.7 - 0.9	0.4 - 0.5	0.2 - 0.3	0.0 - 0.0	1.2 - 1.7
2032	26	1.0 - 1.2	1.1 - 1.4	2.1 - 2.6	13.1 - 16.2	5.4 - 6.7	1.8 - 2.2	0.7 - 1.6	2.1 - 4.3	1.5 - 2.1	0.7 - 0.9	0.4 - 0.5	0.2 - 0.3	0.0 - 0.0	1.2 - 1.6
2033	27	0.9 - 1.2	1.1 - 1.4	2.1 - 2.6	13.0 - 16.1	5.4 - 6.7	1.7 - 2.2	0.7 - 1.6	2.0 - 4.2	1.5 - 2.1	0.7 - 0.9	0.4 - 0.5	0.2 - 0.3	0.0 - 0.0	1.2 - 1.6
2034	28	0.9 - 1.2	1.1 - 1.4	2.0 - 2.6	12.8 - 16.0	5.3 - 6.6	1.7 - 2.1	0.7 - 1.6	2.0 - 4.2	1.5 - 2.1	0.7 - 0.8	0.4 - 0.5	0.2 - 0.3	0.0 - 0.0	1.2 - 1.6
2035	29	0.9 - 1.2	1.1 - 1.4	2.0 - 2.5	12.6 - 15.9	5.2 - 6.6	1.6 - 2.1	0.7 - 1.6	2.0 - 4.1	1.5 - 2.0	0.7 - 0.8	0.4 - 0.5	0.2 - 0.3	0.0 - 0.0	1.1 - 1.6
2036	30	0.9 - 1.1	1.1 - 1.3	2.0 - 2.5	12.4 - 15.8	5.1 - 6.5	1.6 - 2.1	0.7 - 1.5	1.9 - 4.1	1.4 - 2.0	0.7 - 0.8	0.4 - 0.5	0.2 - 0.3	0.0 - 0.0	1.1 - 1.6
2037	31	0.9 - 1.1	1.1 - 1.3	2.0 - 2.5	12.3 - 15.7	5.1 - 6.5	1.6 - 2.0	0.6 - 1.5	1.9 - 4.0	1.4 - 2.0	0.6 - 0.8	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.1 - 1.5
2038	32	0.9 - 1.1	1.0 - 1.3	1.9 - 2.5	12.1 - 15.6	5.0 - 6.5	1.5 - 2.0	0.6 - 1.5	1.9 - 4.0	1.4 - 2.0	0.6 - 0.8	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.1 - 1.5
2039	33	0.9 - 1.1	1.0 - 1.3	1.9 - 2.5	11.9 - 15.5	5.0 - 6.4	1.5 - 2.0	0.6 - 1.5	1.9 - 3.9	1.3 - 1.9	0.6 - 0.8	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.1 - 1.5
2040	34	0.9 - 1.1	1.0 - 1.3	1.9 - 2.5	11.7 - 15.4	4.9 - 6.4	1.4 - 1.9	0.6 - 1.5	1.8 - 3.9	1.3 - 1.9	0.6 - 0.8	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.0 - 1.5
2041	35	0.9 - 1.1	1.0 - 1.3	1.9 - 2.4	11.6 - 15.3	4.9 - 6.4	1.4 - 1.9	0.6 - 1.4	1.8 - 3.9	1.3 - 1.9	0.6 - 0.8	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.0 - 1.5
2042	36	0.8 - 1.1	1.0 - 1.3	1.8 - 2.4	11.4 - 15.2	4.8 - 6.3	1.4 - 1.9	0.6 - 1.4	1.8 - 3.8	1.3 - 1.9	0.6 - 0.8	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.0 - 1.4
2043	37	0.8 - 1.1	0.9 - 1.2	1.8 - 2.4	11.3 - 15.0	4.7 - 6.3	1.3 - 1.8	0.6 - 1.4	1.8 - 3.8	1.2 - 1.8	0.6 - 0.8	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.0 - 1.4
2044	38	0.8 - 1.1	0.9 - 1.2	1.8 - 2.4	11.1 - 14.9	4.7 - 6.2	1.3 - 1.8	0.6 - 1.4	1.7 - 3.7	1.2 - 1.8	0.6 - 0.7	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	1.0 - 1.4
2045	39	0.8 - 1.1	0.9 - 1.2	1.8 - 2.4	11.0 - 14.8	4.6 - 6.2	1.3 - 1.7	0.6 - 1.4	1.7 - 3.7	1.2 - 1.8	0.6 - 0.7	0.4 - 0.5	0.2 - 0.2	0.0 - 0.0	0.9 - 1.4
2046	40	0.8 - 1.1	0.9 - 1.2	1.7 - 2.3	10.9 - 14.7	4.6 - 6.1	1.2 - 1.7	0.6 - 1.3	1.7 - 3.7	1.2 - 1.8	0.5 - 0.7	0.3 - 0.5	0.2 - 0.2	0.0 - 0.0	0.9 - 1.4

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table 4-45a

Low-Case Employment Projected for the OCS Program by Economic Impact Area (Years 1-20)

EIA	Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
AL-1	Direct	3,983	3,981	3,963	3,935	3,959	3,779	3,845	3,692	3,751	3,594	3,638	3,590	3,682	3,568	3,689	3,621	3,722	3,671	3,655	3,644
	Indirect	876	874	868	859	865	821	837	798	814	775	787	773	799	771	802	785	812	799	796	794
	Induced	522	521	518	513	514	492	498	480	486	468	472	469	481	470	486	481	494	490	489	489
	Total	5,381	5,375	5,349	5,307	5,339	5,092	5,181	4,970	5,051	4,836	4,897	4,833	4,962	4,809	4,977	4,887	5,029	4,960	4,940	4,927
FL-1	Direct	3,370	3,370	3,342	3,301	3,271	3,172	3,168	3,100	3,098	3,021	3,019	3,055	3,103	3,082	3,161	3,181	3,241	3,262	3,275	3,281
	Indirect	1,430	1,434	1,401	1,370	1,343	1,292	1,277	1,237	1,227	1,190	1,185	1,188	1,207	1,187	1,204	1,197	1,212	1,215	1,222	1,234
	Induced	1,279	1,280	1,264	1,245	1,232	1,189	1,187	1,154	1,154	1,121	1,121	1,127	1,147	1,133	1,160	1,159	1,180	1,183	1,188	1,193
	Total	6,080	6,084	6,008	5,915	5,846	5,652	5,632	5,491	5,479	5,332	5,324	5,370	5,457	5,401	5,525	5,536	5,633	5,660	5,685	5,707
FL-2	Direct	1,429	1,416	1,395	1,359	1,357	1,274	1,290	1,215	1,233	1,164	1,175	1,164	1,215	1,178	1,243	1,226	1,282	1,264	1,268	1,273
	Indirect	327	324	318	310	310	290	294	277	281	266	269	266	278	270	285	281	294	290	291	292
	Induced	533	528	520	507	508	476	484	455	464	438	444	438	460	446	472	465	488	479	481	483
	Total	2,289	2,268	2,234	2,177	2,174	2,039	2,069	1,947	1,978	1,867	1,888	1,868	1,953	1,893	1,999	1,972	2,063	2,034	2,040	2,048
FL-3	Direct	4,412	4,426	4,453	4,485	4,506	4,385	4,419	4,340	4,349	4,219	4,222	4,211	4,201	4,098	4,144	4,104	4,132	4,098	4,063	4,013
	Indirect	1,360	1,366	1,378	1,393	1,402	1,365	1,377	1,353	1,356	1,314	1,314	1,306	1,297	1,259	1,268	1,250	1,253	1,239	1,225	1,206
	Induced	2,026	2,033	2,046	2,061	2,074	2,014	2,035	1,993	2,002	1,938	1,943	1,932	1,932	1,879	1,904	1,880	1,896	1,875	1,859	1,836
	Total	7,799	7,824	7,876	7,938	7,983	7,763	7,831	7,686	7,706	7,471	7,479	7,450	7,431	7,236	7,315	7,234	7,281	7,212	7,146	7,054
FL-4	Direct	1,361	1,361	1,369	1,375	1,406	1,337	1,382	1,319	1,357	1,289	1,315	1,282	1,319	1,263	1,313	1,273	1,316	1,276	1,267	1,254
	Indirect	346	342	341	337	349	319	337	308	325	297	310	292	312	290	312	294	314	295	293	290
	Induced	574	570	570	566	582	542	567	528	550	514	530	509	535	506	537	514	542	518	515	512
	Total	2,281	2,273	2,279	2,279	2,337	2,199	2,286	2,155	2,232	2,101	2,154	2,084	2,166	2,059	2,161	2,081	2,172	2,090	2,075	2,056
LA-1	Direct	3,506	3,498	3,469	3,421	3,410	3,276	3,300	3,195	3,220	3,112	3,131	3,142	3,222	3,176	3,289	3,287	3,378	3,378	3,385	3,390
	Indirect	593	590	584	574	574	545	553	529	537	513	519	517	535	523	547	542	562	559	559	561
	Induced	1,128	1,125	1,114	1,097	1,091	1,050	1,055	1,024	1,030	999	1,003	1,011	1,037	1,027	1,065	1,069	1,099	1,103	1,107	1,110
	Total	5,227	5,213	5,168	5,092	5,075	4,872	4,908	4,748	4,786	4,624	4,654	4,670	4,795	4,726	4,901	4,898	5,039	5,040	5,052	5,061
LA-2	Direct	32,131	32,100	31,856	31,459	31,311	30,197	30,338	29,500	29,650	28,760	28,878	29,046	29,680	29,318	30,242	30,272	30,999	31,064	31,140	31,187
	Indirect	7,993	7,962	7,879	7,741	7,707	7,371	7,422	7,150	7,211	6,944	6,993	7,005	7,217	7,099	7,378	7,361	7,589	7,587	7,607	7,634
	Induced	16,375	16,342	16,185	15,930	15,785	15,255	15,255	14,878	14,897	14,496	14,513	14,696	15,012	14,924	15,403	15,521	15,892	16,001	16,079	16,127
	Total	56,499	56,404	55,919	55,130	54,803	52,822	53,015	51,528	51,758	50,200	50,384	50,748	51,908	51,340	53,023	53,154	54,480	54,652	54,826	54,948
LA-3	Direct	28,556	28,562	28,446	28,256	28,384	27,168	27,580	26,560	26,928	25,867	26,143	25,861	26,465	25,705	26,505	26,080	26,741	26,462	26,350	26,290
	Indirect	8,899	8,862	8,787	8,655	8,674	8,240	8,366	7,991	8,118	7,754	7,852	7,779	8,049	7,832	8,169	8,066	8,351	8,282	8,271	8,283
	Induced	12,130	12,105	12,020	11,872	11,865	11,371	11,488	11,086	11,202	10,792	10,880	10,862	11,150	10,932	11,323	11,257	11,577	11,540	11,540	11,547
	Total	49,585	49,529	49,254	48,783	48,923	46,779	47,433	45,638	46,247	44,413	44,875	44,502	45,663	44,468	45,997	45,402	46,669	46,285	46,161	46,120
LA-4	Direct	9,863	9,841	9,778	9,678	9,734	9,235	9,417	8,970	9,137	8,712	8,840	8,692	8,982	8,675	9,032	8,849	9,143	9,026	8,977	8,984
	Indirect	5,646	5,595	5,518	5,383	5,381	5,059	5,141	4,853	4,945	4,686	4,760	4,714	4,946	4,814	5,090	5,036	5,272	5,237	5,242	5,275
	Induced	6,253	6,221	6,163	6,062	6,079	5,749	5,853	5,558	5,660	5,390	5,469	5,401	5,618	5,452	5,717	5,634	5,854	5,803	5,789	5,811
	Total	21,762	21,658	21,458	21,123	21,193	20,043	20,411	19,380	19,742	18,788	19,069	18,807	19,546	18,941	19,839	19,519	20,269	20,066	20,008	20,070
MS-1	Direct	3,148	3,149	3,141	3,123	3,139	3,012	3,057	2,952	2,992	2,881	2,909	2,887	2,951	2,876	2,965	2,927	3,001	2,971	2,963	2,955
	Indirect	583	585	588	591	600	577	591	570	582	559	567	557	568	548	564	550	563	552	548	544
	Induced	783	783	782	777	781	750	762	735	746	718	726	720	737	719	742	733	752	745	743	741
	Total	4,514	4,517	4,510	4,491	4,521	4,339	4,410	4,258	4,320	4,158	4,202	4,164	4,257	4,143	4,271	4,210	4,316	4,268	4,254	4,239
TX-1	Direct	5,021	5,012	4,974	4,913	4,898	4,708	4,742	4,594	4,627	4,473	4,497	4,505	4,609	4,534	4,682	4,668	4,787	4,780	4,786	4,788
	Indirect	1,053	1,048	1,039	1,023	1,023	974	987	946	959	918	928	922	952	929	967	957	988	982	982	983
	Induced	2,241	2,235	2,216	2,184	2,173	2,091	2,102	2,040	2,051	1,987	1,995	2,007	2,055	2,031	2,099	2,103	2,158	2,162	2,168	2,172
	Total	8,314	8,296	8,229	8,120	8,094	7,774	7,831	7,579	7,637	7,378	7,420	7,435	7,615	7,493	7,748	7,728	7,933	7,924	7,935	7,944
TX-2	Direct	5,671	5,655	5,600	5,509	5,468	5,272	5,285	5,141	5,160	5,009	5,024	5,079	5,202	5,164	5,346	5,380	5,525	5,553	5,579	5,594
	Indirect	1,207	1,197	1,181	1,152	1,147	1,087	1,099	1,047	1,061	1,014	1,025	1,025	1,069	1,050	1,105	1,102	1,149	1,147	1,152	1,158
	Induced	1,925	1,918	1,898	1,864	1,847	1,781	1,784	1,736	1,741	1,691	1,695	1,718	1,763	1,754	1,819	1,836	1,888	1,902	1,912	1,920
	Total	8,803	8,770	8,679	8,525	8,463	8,140	8,168	7,923	7,962	7,714	7,744	7,822	8,034	7,968	8,271	8,318	8,561	8,601	8,643	8,672
TX-3	Direct	43,749	43,620	43,415	43,100	43,529	41,122	42,105	39,900	40,760	38,631	39,240	38,255	39,444	37,749	39,205	38,019	39,266	38,312	38,026	37,883
	Indirect	18,430	18,313	18,131	17,836	17,913	16,870	17,198	16,255	16,576	15,698	15,935	15,643	16,255	15,670	16,401	16,041	16,673	16,386	16,344	16,362
	Induced	26,123	26,008	25,813	25,509	25,668	24,235	24,733	23,434	23,894	22,666	22,996	22,520	23,285	22,389	23,313	22,722	23,515	23,047	22,941	22,919
	Total	88,302	87,941	87,360	86,445	87,110	82,227	84,035	79,590	81,231	76,995	78,171	76,417	78,984	75,807	78,918	76,782	79,454	77,744	77,312	77,164
Total EIA	Direct	146,201	145,991	145,202	143,914	144,371	137,936	139,930	134,478	136,261	130,733	132,033	130,769	134,076	130,385	134,814	132,887	136,532	135,117	134,734	134,537
	Indirect	48,743	48,491	48,013	47,223	47,290	44,810	45,480	43,313	43,991	41,928	42,443	41,988	43,484	42,241	44,092	43,462	45,033	44,571	44,531	44,617
	Induced	71,892	71,670	71,108	70,188	70,199	66,994	67,801	65,101	65,877	63,217	63,787	63,412	65,212	63,661	66,039	65,373	67,334	66,849	66,812	66,859
	Total	266,836	266,152	264,323	261,326	261,860	249,741	253,210	242,892	246,130	235,878	238,263	236,169	242,772	236,287	244,945	241,722	248,899	246,537	246,078	246,012
Other-GOM	Direct	59,785	59,772	59,690	59,458	59,874	57,324	58,294	56,130	56,937	54,625	55,171	54,525	55,688	54,002	55,652	54,694	56,065	55,259	55,032	54,773
	Indirect	20,670	20,677	20,681	20,643	20,870	19,943	20,369	19,560	19,919	19,064	19,309	18,997	19,443	18,777	19,376	18,951	19,461	19,094	18,997	18,889
	Induced	29,653	29,635	29,581	29,449	29,674	28,375	28,886	27,773	28,208	27,037	27,332	26,994	27,621	26,777	27,641	27,151	27,878	27,443	27,346	27,223
	Total	110,108	110,084	109,953	109,550	110,418	105,642	107,550	103,464	105,064	100,726	101,812	100,516	102,752	99,557	102,670	100,796	103,403	101,795	101,375	100,885
Other-US	Direct	58,754	58,346	57,989	57,343	58,190	54,589	56,238	52,897	54,400	51,183	52,261	50,910	53,079	50,841	53,530	52,004	54,406	52,864	52,645	52,407
	Indirect	56,370	55,909	55,399	54,549	55,105	51,680	53,031	49,872	51,135	48,162	49,052	47,995	50,108	48,230	50,843	49,641	51,969	50,677	50,609	50,486
	Induced	94,608	93,871	93,118	91,842	92,969	87,158	89,612	84,233	86,505	81,402	83,020	81,039	84,588	81,212	85,594	83,353	87,267	84,944	84,719	84,441
	Total	209,732	208,127	206,506	203,734	206,264	193,426	198,881	187,002	192,040	180,748	184,333	179,944	187,774	180,282	189,967	184,999	193,642	188,485	187,972	187,334

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-45b

Low-Case Employment Projected for the OCS Program by Economic Impact Area (Years 21-40)

EIA	Type	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total
AL-1	Direct	3,649	3,617	3,600	3,570	3,563	3,539	3,533	3,524	3,503	3,472	3,479	3,460	3,420	3,410	3,414	3,390	3,343	3,333	3,332	3,316	144,430
	Indirect	796	790	787	781	780	775	774	772	768	760	763	758	748	747	748	743	731	729	729	726	31,511
	Induced	490	487	485	482	481	478	477	476	473	469	470	467	463	462	462	459	454	453	453	451	19,225
	Total	4,935	4,893	4,873	4,832	4,823	4,791	4,784	4,772	4,743	4,702	4,712	4,686	4,631	4,618	4,624	4,592	4,529	4,515	4,514	4,494	195,165
FL-1	Direct	3,294	3,281	3,271	3,254	3,247	3,232	3,226	3,216	3,200	3,185	3,185	3,179	3,165	3,158	3,163	3,144	3,128	3,122	3,124	3,115	127,761
	Indirect	1,240	1,221	1,211	1,187	1,182	1,179	1,184	1,192	1,193	1,192	1,198	1,193	1,188	1,186	1,189	1,188	1,167	1,165	1,166	1,164	49,039
	Induced	1,198	1,189	1,183	1,171	1,169	1,164	1,164	1,165	1,161	1,157	1,160	1,156	1,151	1,148	1,150	1,146	1,134	1,132	1,133	1,130	46,853
	Total	5,732	5,691	5,664	5,612	5,597	5,576	5,575	5,573	5,554	5,534	5,543	5,527	5,504	5,493	5,502	5,478	5,429	5,419	5,423	5,408	223,653
FL-2	Direct	1,281	1,277	1,277	1,272	1,270	1,263	1,261	1,261	1,255	1,244	1,249	1,242	1,228	1,227	1,230	1,225	1,209	1,207	1,210	1,208	50,317
	Indirect	294	293	293	292	292	290	289	289	288	285	287	285	281	281	282	281	277	276	277	276	11,518
	Induced	486	485	485	484	483	481	480	480	478	474	476	473	467	467	468	466	459	458	459	458	19,033
	Total	2,061	2,055	2,056	2,047	2,045	2,034	2,030	2,030	2,021	2,002	2,012	1,999	1,977	1,975	1,979	1,972	1,945	1,941	1,946	1,942	80,868
FL-3	Direct	3,995	3,959	3,922	3,896	3,874	3,845	3,820	3,791	3,751	3,722	3,706	3,690	3,663	3,646	3,647	3,608	3,591	3,581	3,575	3,554	160,118
	Indirect	1,198	1,184	1,171	1,161	1,153	1,143	1,135	1,126	1,112	1,103	1,097	1,091	1,082	1,076	1,077	1,064	1,058	1,055	1,052	1,045	48,464
	Induced	1,827	1,810	1,794	1,782	1,772	1,759	1,748	1,736	1,718	1,705	1,698	1,690	1,676	1,669	1,669	1,651	1,642	1,637	1,635	1,625	73,396
	Total	7,019	6,954	6,886	6,839	6,799	6,747	6,703	6,653	6,581	6,530	6,501	6,471	6,421	6,391	6,393	6,323	6,291	6,272	6,262	6,224	281,978
FL-4	Direct	1,251	1,243	1,238	1,235	1,233	1,227	1,221	1,221	1,211	1,202	1,203	1,195	1,180	1,177	1,179	1,169	1,153	1,150	1,152	1,146	50,422
	Indirect	290	288	288	287	287	285	283	284	283	279	281	277	271	270	270	269	261	260	260	259	11,834
	Induced	512	509	508	507	507	504	502	504	501	496	498	493	485	484	485	482	472	470	471	469	20,641
	Total	2,052	2,040	2,034	2,030	2,027	2,016	2,006	2,009	1,995	1,977	1,982	1,966	1,936	1,931	1,934	1,919	1,886	1,879	1,882	1,874	82,897
LA-1	Direct	3,405	3,393	3,387	3,371	3,367	3,348	3,341	3,329	3,311	3,287	3,292	3,281	3,257	3,251	3,256	3,235	3,211	3,204	3,206	3,195	132,112
	Indirect	564	562	562	559	559	556	555	554	551	546	548	546	540	539	540	537	532	530	531	529	21,960
	Induced	1,116	1,114	1,112	1,109	1,107	1,102	1,099	1,095	1,089	1,082	1,083	1,080	1,074	1,072	1,073	1,067	1,061	1,059	1,060	1,056	43,054
	Total	5,085	5,069	5,061	5,039	5,033	5,006	4,996	4,978	4,951	4,915	4,922	4,907	4,871	4,862	4,869	4,840	4,804	4,793	4,797	4,781	197,126
LA-2	Direct	31,325	31,206	31,119	30,964	30,905	30,746	30,691	30,580	30,424	30,215	30,254	30,159	29,974	29,910	29,952	29,760	29,560	29,493	29,505	29,402	1,215,268
	Indirect	7,677	7,651	7,642	7,602	7,594	7,554	7,547	7,525	7,491	7,433	7,452	7,427	7,367	7,355	7,367	7,326	7,262	7,247	7,253	7,231	297,851
	Induced	16,213	16,181	16,149	16,089	16,058	15,982	15,948	15,887	15,806	15,709	15,721	15,684	15,608	15,579	15,601	15,506	15,432	15,403	15,411	15,365	624,899
	Total	55,214	55,038	54,909	54,655	54,557	54,282	54,186	53,992	53,721	53,357	53,427	53,270	52,949	52,844	52,919	52,592	52,255	52,142	52,169	51,998	2,138,018
LA-3	Direct	26,339	26,104	25,982	25,753	25,704	25,535	25,509	25,435	25,288	25,066	25,125	24,996	24,727	24,657	24,691	24,518	24,205	24,132	24,130	24,017	1,040,822
	Indirect	8,319	8,275	8,266	8,212	8,210	8,159	8,154	8,132	8,089	8,016	8,042	8,008	7,918	7,903	7,918	7,870	7,775	7,756	7,763	7,736	325,801
	Induced	11,593	11,537	11,511	11,445	11,432	11,366	11,350	11,311	11,250	11,160	11,182	11,142	11,045	11,022	11,039	10,967	10,868	10,842	10,848	10,809	452,253
	Total	46,251	45,915	45,759	45,409	45,345	45,060	45,014	44,878	44,627	44,242	44,349	44,147	43,689	43,582	43,648	43,355	42,848	42,730	42,742	42,561	1,818,877
LA-4	Direct	9,022	8,943	8,914	8,835	8,826	8,766	8,773	8,744	8,707	8,586	8,646	8,590	8,469	8,455	8,471	8,416	8,286	8,258	8,264	8,225	355,762
	Indirect	5,317	5,303	5,316	5,289	5,297	5,265	5,268	5,256	5,234	5,177	5,206	5,186	5,120	5,116	5,128	5,104	5,039	5,029	5,039	5,026	206,309
	Induced	5,848	5,815	5,813	5,774	5,775	5,739	5,744	5,725	5,703	5,626	5,665	5,636	5,559	5,554	5,566	5,534	5,459	5,444	5,451	5,431	228,395
	Total	20,187	20,061	20,043	19,898	19,898	19,770	19,785	19,725	19,644	19,390	19,517	19,412	19,148	19,126	19,166	19,054	18,784	18,731	18,755	18,682	790,466
MS-1	Direct	2,960	2,939	2,926	2,907	2,902	2,885	2,879	2,872	2,854	2,832	2,836	2,823	2,797	2,789	2,793	2,773	2,743	2,736	2,737	2,725	116,709
	Indirect	543	538	535	532	531	528	527	525	522	518	518	515	510	508	509	504	498	497	497	494	21,739
	Induced	742	738	735	731	729	725	724	722	718	712	713	710	703	702	703	697	690	689	689	686	29,233
	Total	4,245	4,215	4,197	4,170	4,162	4,138	4,130	4,119	4,094	4,062	4,068	4,049	4,010	3,999	4,005	3,974	3,932	3,921	3,922	3,905	167,681
TX-1	Direct	4,806	4,784	4,769	4,742	4,732	4,706	4,696	4,680	4,654	4,620	4,625	4,608	4,573	4,563	4,568	4,539	4,501	4,491	4,491	4,475	187,221
	Indirect	988	983	981	975	974	968	967	965	960	951	954	950	940	938	940	934	924	921	922	919	38,612
	Induced	2,182	2,175	2,171	2,161	2,157	2,146	2,141	2,133	2,122	2,107	2,110	2,103	2,089	2,085	2,088	2,075	2,061	2,057	2,058	2,051	84,541
	Total	7,976	7,942	7,921	7,878	7,863	7,819	7,804	7,778	7,735	7,678	7,689	7,660	7,602	7,586	7,596	7,549	7,486	7,469	7,471	7,445	310,375
TX-2	Direct	5,624	5,615	5,608	5,590	5,582	5,555	5,542	5,521	5,491	5,458	5,461	5,449	5,419	5,410	5,418	5,385	5,358	5,348	5,352	5,337	216,737
	Indirect	1,167	1,166	1,169	1,164	1,165	1,159	1,158	1,155	1,150	1,140	1,144	1,141	1,130	1,129	1,131	1,126	1,115	1,113	1,115	1,113	45,025
	Induced	1,931	1,930	1,929	1,925	1,923	1,914	1,909	1,902	1,892	1,880	1,882	1,878	1,869	1,866	1,869	1,858	1,850	1,847	1,849	1,844	74,138
	Total	8,722	8,711	8,706	8,680	8,670	8,628	8,609	8,577	8,533	8,478	8,487	8,468	8,418	8,404	8,417	8,368	8,323	8,308	8,316	8,293	335,899
TX-3	Direct	37,914	37,508	37,302	36,924	36,814	36,541	36,479	36,430	36,224	35,796	35,961	35,637	35,084	34,987	35,024	34,798	34,105	33,970	33,951	33,771	1,520,551
	Indirect	16,427	16,315	16,284	16,152	16,132	16,026	16,012	15,999	15,920	15,760	15,831	15,720	15,504	15,473	15,497	15,418	15,156	15,110	15,117	15,060	649,843
	Induced	22,980	22,778	22,690	22,480	22,428	22,275	22,252	22,234	22,121	21,881	21,984	21,807	21,494	21,444	21,470	21,350	20,960	20,888	20,886	20,793	914,927
	Total	77,322	76,601	76,277	75,555	75,375	74,843	74,744	74,663	74,265	73,438	73,776	73,164	72,081	71,904	71,991	71,566	70,221	69,968	69,954	69,624	3,085,321
Total EIA	Direct	134,864	133,870	133,316	132,313	132,019	131,188	130,972	130,603	129,874	128,684	129,022	128,308	126,955	126,641	126,807	125,960	124,394	124,023	124,028	123,486	5,318,229
	Indirect	44,820	44,569	44,504	44,192	44,155	43,888	43,855	43,774	43,561	43,162	43,320	43,098	42,599	42,522	42,595	42,365	41,796	41,689	41,721	41,579	1,759,507
	Induced	67,118	66,748	66,565	66,138	66,022	65,635	65,538	65,369	65,030	64,458	64,641	64,319	63,683	63,552	63,643	63,257	62,542	62,377	62,402	62,167	2,630,588
	Total	246,802	245,187	244,385	242,644	242,195	240,710	240,366	239,746	238,465	236,304	236,983	235,725	233,237	232,715	233,044	231,583	228,731	228,089	228,152	227,233	9,708,324
Other-GOM	Direct	54,801	54,389	54,118	53,765	53,634	53,318	53,174	53,058	52,713	52,301	52,366	52,084	51,554	51,405	51,480	51,096	50,500	50,357	50,374	50,151	2,179,389
	Indirect	18,888	18,736	18,641	18,521	18,482	18,378	18,331	18,311	18,194	18,055	18,085	17,980	17,782	17,730	17,758	17,624	17,393	17,342	17,352	17,274	754,549
	Induced	27,238	27,046	26,920	26,757	26,694	26,544	26,468	26,426	26,258	26,063	26,097	25,953	25,689	25,617	25,655	25,469	25,163	25,092	25,104	24,997	1,082,928
	Total	100,927	100,171	99,680	99,043	98,810	98,241	97,974	97,795	97,165	96,420	96,548	96,017	95,025	94,752	94,892	94,189	93,057	92,791	92,830	92,421	4,016,866
Other-US	Direct	52,447	52,133	52,071	51,812	51,764	51,398	51,177	51,098	50,756	50,303	50,389	50,015	49,296	49,183	49,243	48,930	48,058	47,902	47,927	47,741	2,088,518
	Indirect	50,582	50,354	50,331	50,110	50,055	49,723	49,498	49,441	49,137	48,746	48,825	48,479	47,850	47,754	47,812	47,553	46,745	46,604	46,636	46,480	2,003,537
	Induced	84,562	84,114	84,055	83,647	83,565	82,984	82,623	82,513	81,986	81,295	81,432	80,834	79,721	79,551	79,645	79,186	77,789	77,545	77,589	77,310	3,357,440
	Total	187,591	186,600	186,457	185,569	185,384	184,104	183,298	183,052	181,878	180,345	180,646	179,328	176,867	176,488	176,700	175,669	172,592	172,051	172,153	171,531	7,449,495

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-46a

High-Case Employment Projected for the OCS Program by Economic Impact Area (Years 1-20)

EIA	Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
AL-1	Direct	5,032	5,205	5,305	5,348	5,253	5,125	5,055	4,939	4,813	4,652	4,519	4,511	4,464	4,417	4,380	4,354	4,351	4,362	4,312	4,307
	Indirect	1,121	1,158	1,177	1,183	1,158	1,127	1,108	1,079	1,048	1,011	979	978	969	959	951	946	947	951	941	941
	Induced	662	679	688	691	678	662	652	637	621	601	584	586	582	579	576	575	575	578	574	574
	Total	6,815	7,041	7,170	7,222	7,089	6,913	6,815	6,655	6,482	6,263	6,082	6,075	6,015	5,955	5,908	5,875	5,874	5,892	5,826	5,822
FL-1	Direct	4,289	4,347	4,374	4,382	4,307	4,206	4,145	4,055	3,958	3,836	3,732	3,770	3,772	3,770	3,776	3,786	3,800	3,823	3,811	3,820
	Indirect	1,942	1,992	2,013	2,037	1,985	1,917	1,862	1,796	1,727	1,651	1,577	1,555	1,530	1,514	1,503	1,504	1,500	1,489	1,455	1,448
	Induced	1,669	1,704	1,721	1,732	1,696	1,650	1,618	1,575	1,529	1,474	1,425	1,426	1,417	1,410	1,407	1,408	1,410	1,412	1,397	1,398
	Total	7,899	8,043	8,108	8,150	7,988	7,774	7,626	7,426	7,215	6,960	6,734	6,750	6,719	6,694	6,686	6,698	6,711	6,724	6,663	6,666
FL-2	Direct	1,922	1,948	1,949	1,929	1,868	1,801	1,752	1,689	1,623	1,551	1,485	1,495	1,495	1,493	1,491	1,492	1,502	1,512	1,506	1,514
	Indirect	440	445	445	440	426	411	399	384	370	353	338	340	340	340	340	340	343	346	344	346
	Induced	713	724	724	717	694	670	652	629	605	579	555	560	561	561	560	561	565	569	568	572
	Total	3,075	3,117	3,119	3,086	2,988	2,881	2,803	2,702	2,598	2,483	2,378	2,396	2,396	2,394	2,391	2,393	2,409	2,427	2,418	2,432
FL-3	Direct	5,151	5,305	5,427	5,513	5,494	5,415	5,423	5,368	5,286	5,147	5,062	5,072	4,999	4,921	4,875	4,834	4,802	4,793	4,750	4,713
	Indirect	1,564	1,619	1,663	1,696	1,695	1,672	1,679	1,665	1,641	1,598	1,574	1,571	1,541	1,510	1,491	1,474	1,460	1,454	1,436	1,420
	Induced	2,370	2,449	2,509	2,551	2,540	2,503	2,506	2,479	2,440	2,375	2,334	2,336	2,300	2,263	2,239	2,219	2,204	2,199	2,178	2,161
	Total	9,086	9,372	9,599	9,760	9,728	9,590	9,608	9,513	9,368	9,121	8,970	8,978	8,840	8,694	8,605	8,527	8,465	8,446	8,364	8,294
FL-4	Direct	1,614	1,694	1,747	1,771	1,752	1,721	1,713	1,688	1,656	1,611	1,577	1,577	1,559	1,538	1,520	1,505	1,500	1,501	1,491	1,490
	Indirect	443	466	478	479	465	450	441	427	413	396	381	379	373	367	360	355	355	355	351	352
	Induced	719	754	774	778	761	741	730	712	692	668	648	646	639	631	623	617	617	617	613	615
	Total	2,775	2,914	2,999	3,027	2,978	2,913	2,884	2,827	2,760	2,674	2,606	2,602	2,572	2,536	2,503	2,477	2,472	2,473	2,456	2,457
LA-1	Direct	4,528	4,604	4,638	4,633	4,541	4,426	4,357	4,255	4,147	4,014	3,901	3,940	3,943	3,940	3,940	3,945	3,964	3,995	3,981	3,995
	Indirect	782	797	804	801	781	759	744	724	703	678	656	662	662	661	660	660	664	671	667	670
	Induced	1,459	1,476	1,482	1,476	1,447	1,410	1,388	1,356	1,322	1,281	1,245	1,263	1,268	1,271	1,274	1,278	1,286	1,299	1,298	1,304
	Total	6,770	6,877	6,923	6,910	6,769	6,595	6,489	6,335	6,172	5,973	5,802	5,864	5,873	5,871	5,875	5,883	5,914	5,964	5,946	5,969
LA-2	Direct	41,899	42,736	43,134	43,174	42,361	41,314	40,702	39,776	38,772	37,528	36,472	36,770	36,730	36,647	36,602	36,607	36,746	36,985	36,818	36,917
	Indirect	10,625	10,814	10,880	10,842	10,587	10,284	10,085	9,812	9,524	9,184	8,886	8,958	8,956	8,946	8,938	8,945	8,996	9,073	9,028	9,066
	Induced	21,347	21,566	21,629	21,558	21,129	20,593	20,262	19,787	19,281	18,663	18,134	18,375	18,438	18,473	18,527	18,591	18,701	18,857	18,834	18,912
	Total	73,871	75,116	75,644	75,574	74,077	72,191	71,049	69,376	67,577	65,375	63,492	64,102	64,125	64,066	64,066	64,143	64,443	64,915	64,680	64,895
LA-3	Direct	36,342	37,625	38,375	38,713	38,046	37,130	36,641	35,820	34,915	33,759	32,803	32,737	32,389	32,045	31,772	31,589	31,567	31,659	31,276	31,235
	Indirect	11,596	11,869	11,991	11,979	11,702	11,369	11,156	10,853	10,533	10,151	9,822	9,866	9,830	9,788	9,750	9,733	9,774	9,857	9,780	9,811
	Induced	15,610	15,949	16,115	16,136	15,818	15,415	15,176	14,815	14,428	13,950	13,546	13,634	13,600	13,553	13,522	13,511	13,559	13,658	13,575	13,609
	Total	63,548	65,442	66,482	66,828	65,566	63,914	62,973	61,488	59,876	57,860	56,172	56,238	55,820	55,386	55,043	54,833	54,900	55,173	54,631	54,655
LA-4	Direct	12,962	13,422	13,665	13,750	13,452	13,076	12,856	12,505	12,134	11,691	11,309	11,268	11,149	11,036	10,942	10,880	10,890	10,944	10,783	10,793
	Indirect	7,633	7,739	7,749	7,669	7,436	7,181	6,996	6,760	6,519	6,251	6,010	6,065	6,082	6,091	6,093	6,106	6,163	6,248	6,215	6,263
	Induced	8,308	8,508	8,591	8,582	8,366	8,112	7,948	7,710	7,465	7,182	6,932	6,952	6,925	6,897	6,873	6,863	6,899	6,965	6,894	6,925
	Total	28,903	29,669	30,005	30,000	29,254	28,369	27,800	26,975	26,118	25,123	24,251	24,286	24,156	24,024	23,909	23,849	23,952	24,156	23,892	23,980
MS-1	Direct	3,961	4,092	4,170	4,204	4,138	4,046	3,999	3,918	3,827	3,708	3,611	3,617	3,587	3,556	3,532	3,516	3,516	3,528	3,498	3,497
	Indirect	711	748	773	787	780	766	763	752	738	718	703	701	691	680	672	665	662	662	655	653
	Induced	985	1,017	1,036	1,043	1,027	1,005	993	974	951	922	899	901	895	888	883	879	880	883	876	877
	Total	5,656	5,857	5,979	6,034	5,945	5,817	5,756	5,643	5,517	5,349	5,213	5,218	5,173	5,125	5,087	5,060	5,058	5,074	5,029	5,026
TX-1	Direct	7,827	8,025	8,273	8,552	8,758	9,026	9,359	9,646	9,946	10,075	10,075	10,220	10,262	10,241	10,208	10,198	10,214	10,244	10,190	10,167
	Indirect	2,095	2,165	2,276	2,417	2,559	2,745	2,944	3,135	3,336	3,461	3,508	3,568	3,593	3,586	3,570	3,564	3,568	3,574	3,553	3,539
	Induced	3,585	3,663	3,773	3,906	4,016	4,162	4,335	4,489	4,652	4,731	4,742	4,822	4,853	4,851	4,842	4,842	4,854	4,871	4,852	4,843
	Total	13,507	13,852	14,322	14,875	15,333	15,932	16,639	17,270	17,934	18,266	18,324	18,609	18,707	18,678	18,619	18,604	18,636	18,690	18,595	18,549
TX-2	Direct	8,702	8,845	9,046	9,280	9,456	9,695	10,000	10,262	10,538	10,645	10,626	10,821	10,905	10,920	10,918	10,933	10,973	11,029	11,005	11,003
	Indirect	2,170	2,214	2,287	2,378	2,466	2,589	2,725	2,853	2,990	3,067	3,086	3,147	3,177	3,182	3,176	3,178	3,191	3,208	3,196	3,194
	Induced	2,951	2,989	3,048	3,120	3,177	3,255	3,356	3,442	3,533	3,569	3,562	3,634	3,668	3,678	3,682	3,691	3,708	3,731	3,726	3,729
	Total	13,823	14,049	14,381	14,778	15,098	15,539	16,081	16,557	17,062	17,281	17,274	17,601	17,750	17,780	17,776	17,801	17,872	17,968	17,927	17,926
TX-3	Direct	57,840	60,311	61,845	62,609	61,637	60,388	59,874	58,759	57,518	55,792	54,243	53,903	53,131	52,343	51,644	51,174	51,031	51,001	50,215	50,056
	Indirect	25,060	25,777	26,174	26,280	25,780	25,217	24,918	24,414	23,881	23,161	22,474	22,494	22,348	22,177	22,010	21,923	21,974	22,072	21,844	21,858
	Induced	34,700	35,886	36,570	36,829	36,132	35,287	34,843	34,076	33,248	32,170	31,191	31,080	30,735	30,388	30,083	29,903	29,898	29,950	29,559	29,519
	Total	117,600	121,975	124,588	125,718	123,549	120,892	119,634	117,249	114,647	111,123	107,908	107,477	106,213	104,908	103,737	103,001	102,902	103,023	101,618	101,433
Total EIA	Direct	192,069	198,158	201,946	203,856	201,063	197,368	195,877	192,680	189,135	184,008	179,413	179,701	178,386	176,866	175,598	174,813	174,855	175,377	173,636	173,506
	Indirect	66,182	67,804	68,712	68,988	67,818	66,486	65,821	64,654	63,424	61,678	59,995	60,282	60,091	59,802	59,515	59,393	59,597	59,959	59,465	59,562
	Induced	95,078	97,363	98,661	99,118	97,483	95,466	94,458	92,680	90,768	88,164	85,797	86,214	85,882	85,443	85,091	84,939	85,156	85,590	84,945	85,036
	Total	353,329	363,325	369,319	371,962	366,364	359,319	356,156	350,015	343,326	333,850	325,205	326,196	324,359	322,111	320,204	319,145	319,607	320,926	318,046	318,104
Other-GOM	Direct	73,859	76,406	77,975	78,701	77,514	75,793	74,979	73,461	71,742	69,470	67,645	67,639	66,941	66,214	65,673	65,305	65,210	65,321	64,721	64,619
	Indirect	25,369	26,398	27,047	27,368	26,980	26,409	26,150	25,642	25,061	24,286	23,662	23,614	23,334	23,047	22,819	22,659	22,607	22,623	22,396	22,353
	Induced	36,656	37,908	38,671	39,009	38,401	37,542	37,119	36,356	35,495	34,371	33,459	33,471	33,148	32,809	32,552	32,380	32,345	32,399	32,124	32,088
	Total	135,884	140,712	143,693	145,078	142,895	139,744	138,248	135,458	132,298	128,127	124,765	124,723	123,424	122,070	121,044	120,344	120,162	120,343	119,240	119,061
Other-US	Direct	75,172	77,719	78,969	78,996	77,133	74,915	73,597	71,592	69,383	66,775	64,634	64,733	64,237	63,613	62,965	62,502	62,552	62,791	62,345	62,493
	Indirect	73,358	75,389	76,246	75,980	73,989	71,704	70,241	68,153	65,876	63,279	61,104	61,335	61,038	60,613	60,125	59,818	59,960	60,229	59,919	60,138
	Induced	122,185	125,862	127,526	127,277	124,063	120,324	117,990	114,585	110,865	106,564	102,990	103,264	102,627	101,785	100,872	100,263	100,435	100,864	100,244	100,551
	Total	270,715	278,970	282,741	282,252	275,186	266,943	261,828	254,330	246,124	236,618	228,728	229,333	227,902	226,011	223,962	222,583	222,947	223,885	222,508	223,182

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-46b

High-Case Employment Projected for the OCS Program by Economic Impact Area (Years 21-40)

EIA	Type	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	Total
AL-1	Direct	4,323	4,333	4,330	4,331	4,348	4,363	4,392	4,403	4,411	4,401	4,406	4,421	4,425	4,438	4,454	4,448	4,437	4,432	4,444	4,435	182,678
	Indirect	945	948	949	950	954	958	965	968	971	969	970	975	976	979	983	983	980	980	984	982	40,101
	Induced	577	579	580	581	583	586	590	592	594	594	595	597	599	601	603	603	603	603	605	604	24,223
	Total	5,846	5,861	5,859	5,862	5,886	5,907	5,947	5,964	5,975	5,964	5,971	5,993	5,999	6,018	6,040	6,033	6,020	6,015	6,032	6,021	247,002
FL-1	Direct	3,845	3,867	3,878	3,892	3,915	3,935	3,965	3,984	4,001	4,014	4,028	4,050	4,064	4,079	4,099	4,100	4,115	4,122	4,135	4,140	159,988
	Indirect	1,452	1,466	1,479	1,487	1,500	1,506	1,510	1,518	1,522	1,526	1,536	1,552	1,561	1,573	1,575	1,578	1,568	1,571	1,577	1,576	64,629
	Induced	1,405	1,414	1,421	1,426	1,436	1,443	1,452	1,460	1,465	1,469	1,475	1,485	1,491	1,499	1,504	1,506	1,505	1,507	1,513	1,513	59,869
	Total	6,703	6,747	6,777	6,805	6,851	6,884	6,928	6,962	6,988	7,009	7,039	7,087	7,117	7,151	7,178	7,183	7,189	7,200	7,225	7,229	284,486
FL-2	Direct	1,527	1,537	1,543	1,549	1,561	1,572	1,588	1,599	1,610	1,611	1,620	1,631	1,637	1,648	1,659	1,664	1,665	1,670	1,681	1,684	65,275
	Indirect	349	351	353	355	357	360	364	366	369	369	371	373	375	377	380	381	381	382	385	385	14,912
	Induced	577	581	583	586	590	595	601	606	610	611	614	618	621	625	629	631	631	634	638	639	24,557
	Total	2,453	2,469	2,479	2,489	2,508	2,527	2,553	2,571	2,589	2,591	2,605	2,622	2,633	2,650	2,668	2,677	2,677	2,686	2,704	2,708	104,744
FL-3	Direct	4,706	4,685	4,648	4,628	4,623	4,620	4,633	4,623	4,611	4,603	4,582	4,578	4,572	4,565	4,577	4,555	4,567	4,548	4,540	4,531	194,343
	Indirect	1,415	1,405	1,390	1,382	1,378	1,374	1,375	1,370	1,363	1,358	1,350	1,346	1,343	1,339	1,341	1,333	1,334	1,326	1,322	1,318	58,586
	Induced	2,158	2,148	2,131	2,122	2,120	2,119	2,125	2,121	2,115	2,110	2,101	2,099	2,096	2,093	2,099	2,088	2,092	2,084	2,080	2,076	89,331
	Total	8,279	8,238	8,169	8,131	8,120	8,113	8,133	8,114	8,090	8,071	8,033	8,023	8,010	7,998	8,017	7,976	7,993	7,958	7,942	7,925	342,260
FL-4	Direct	1,495	1,493	1,484	1,480	1,483	1,488	1,501	1,505	1,507	1,504	1,498	1,499	1,500	1,501	1,508	1,504	1,504	1,503	1,504	1,503	62,185
	Indirect	354	354	352	351	352	355	359	361	363	361	360	361	361	363	365	366	362	362	364	363	15,278
	Induced	618	619	616	616	618	622	629	632	634	633	632	633	634	636	640	640	638	638	640	640	26,203
	Total	2,467	2,466	2,452	2,446	2,453	2,465	2,488	2,498	2,504	2,498	2,490	2,494	2,496	2,500	2,513	2,510	2,504	2,503	2,507	2,506	103,667
LA-1	Direct	4,025	4,045	4,054	4,067	4,090	4,113	4,148	4,168	4,188	4,193	4,208	4,228	4,240	4,258	4,280	4,283	4,291	4,297	4,314	4,317	167,496
	Indirect	676	680	682	684	688	692	699	703	706	706	709	713	715	719	723	724	724	725	729	729	28,332
	Induced	1,315	1,323	1,326	1,332	1,340	1,348	1,361	1,368	1,375	1,379	1,385	1,392	1,396	1,402	1,410	1,412	1,417	1,420	1,426	1,428	54,436
	Total	6,015	6,048	6,062	6,083	6,118	6,153	6,208	6,239	6,270	6,278	6,302	6,333	6,351	6,379	6,413	6,418	6,432	6,442	6,468	6,474	250,264
LA-2	Direct	37,170	37,348	37,407	37,517	37,720	37,921	38,239	38,418	38,582	38,616	38,740	38,916	39,019	39,175	39,372	39,383	39,405	39,443	39,585	39,604	1,550,271
	Indirect	9,137	9,190	9,221	9,254	9,314	9,371	9,457	9,508	9,557	9,562	9,604	9,658	9,686	9,734	9,788	9,799	9,800	9,816	9,866	9,871	383,621
	Induced	19,063	19,178	19,236	19,318	19,437	19,553	19,724	19,833	19,938	19,991	20,077	20,181	20,254	20,342	20,456	20,476	20,542	20,581	20,663	20,695	791,196
	Total	65,370	65,716	65,864	66,089	66,471	66,845	67,420	67,758	68,076	68,169	68,422	68,756	68,959	69,252	69,616	69,657	69,747	69,840	70,114	70,170	2,725,088
LA-3	Direct	31,357	31,430	31,414	31,423	31,547	31,650	31,857	31,930	31,983	31,899	31,940	32,055	32,072	32,171	32,280	32,231	32,139	32,101	32,193	32,123	1,324,234
	Indirect	9,880	9,928	9,954	9,979	10,039	10,093	10,181	10,227	10,270	10,262	10,297	10,353	10,371	10,420	10,473	10,477	10,474	10,484	10,537	10,531	416,439
	Induced	13,699	13,762	13,787	13,822	13,898	13,967	14,083	14,143	14,199	14,200	14,245	14,312	14,342	14,399	14,469	14,469	14,484	14,495	14,552	14,550	573,058
	Total	54,937	55,120	55,154	55,224	55,484	55,710	56,121	56,300	56,452	56,361	56,482	56,721	56,785	56,990	57,222	57,177	57,097	57,080	57,282	57,205	2,313,731
LA-4	Direct	10,851	10,889	10,897	10,910	10,962	11,004	11,091	11,117	11,150	11,078	11,131	11,173	11,168	11,225	11,265	11,255	11,208	11,194	11,253	11,215	461,541
	Indirect	6,327	6,375	6,413	6,444	6,498	6,545	6,617	6,659	6,705	6,701	6,746	6,794	6,812	6,857	6,902	6,917	6,925	6,943	6,997	6,998	267,443
	Induced	6,980	7,020	7,043	7,067	7,113	7,151	7,218	7,247	7,284	7,253	7,300	7,338	7,344	7,388	7,424	7,427	7,422	7,426	7,475	7,462	295,279
	Total	24,158	24,283	24,353	24,421	24,573	24,700	24,927	25,023	25,139	25,032	25,176	25,305	25,324	25,470	25,591	25,600	25,554	25,562	25,725	25,675	1,024,263
MS-1	Direct	3,513	3,521	3,518	3,520	3,534	3,547	3,573	3,583	3,591	3,587	3,590	3,602	3,606	3,616	3,630	3,625	3,622	3,620	3,629	3,625	147,169
	Indirect	654	654	650	649	650	652	656	657	657	654	652	653	652	653	655	653	650	649	649	648	27,328
	Induced	881	883	882	883	887	890	897	900	903	902	902	905	907	909	913	912	912	911	914	913	36,822
	Total	5,048	5,058	5,051	5,052	5,070	5,089	5,126	5,140	5,150	5,143	5,144	5,160	5,165	5,178	5,198	5,190	5,184	5,180	5,192	5,185	211,319
TX-1	Direct	10,142	10,117	10,073	10,029	10,008	9,983	9,976	9,959	9,946	9,907	9,904	9,909	9,913	9,935	9,962	9,972	9,975	9,978	9,999	9,999	391,190
	Indirect	3,515	3,495	3,470	3,442	3,422	3,401	3,384	3,368	3,354	3,331	3,324	3,319	3,317	3,321	3,327	3,333	3,329	3,330	3,336	3,335	130,207
	Induced	4,831	4,820	4,799	4,778	4,768	4,756	4,751	4,743	4,738	4,721	4,720	4,722	4,726	4,736	4,750	4,756	4,762	4,765	4,776	4,778	184,878
	Total	18,488	18,431	18,342	18,249	18,198	18,140	18,111	18,070	18,038	17,958	17,947	17,951	17,956	17,992	18,040	18,061	18,066	18,074	18,110	18,112	706,274
TX-2	Direct	10,999	10,991	10,959	10,929	10,922	10,913	10,924	10,923	10,927	10,905	10,912	10,928	10,944	10,974	11,015	11,032	11,054	11,069	11,098	11,110	425,129
	Indirect	3,184	3,174	3,161	3,144	3,136	3,125	3,120	3,114	3,109	3,095	3,095	3,097	3,098	3,106	3,116	3,124	3,126	3,130	3,140	3,143	120,012
	Induced	3,730	3,729	3,721	3,713	3,712	3,710	3,716	3,717	3,720	3,714	3,719	3,725	3,732	3,742	3,757	3,764	3,775	3,781	3,792	3,798	144,017
	Total	17,913	17,894	17,841	17,787	17,769	17,749	17,760	17,754	17,756	17,714	17,726	17,750	17,774	17,823	17,889	17,920	17,955	17,981	18,030	18,050	689,158
TX-3	Direct	50,098	50,079	49,926	49,802	49,903	49,980	50,220	50,253	50,272	49,954	49,971	50,083	50,053	50,218	50,357	50,311	49,956	49,852	50,008	49,831	2,116,441
	Indirect	21,937	21,991	22,006	22,008	22,099	22,173	22,310	22,374	22,435	22,366	22,421	22,520	22,549	22,652	22,749	22,772	22,694	22,703	22,815	22,785	920,193
	Induced	29,596	29,644	29,632	29,618	29,726	29,807	29,973	30,033	30,089	29,957	30,017	30,128	30,146	30,268	30,374	30,373	30,231	30,207	30,333	30,259	1,252,454
	Total	101,630	101,714	101,564	101,429	101,728	101,960	102,502	102,660	102,797	102,277	102,408	102,731	102,748	103,137	103,480	103,455	102,881	102,762	103,155	102,875	4,289,088
Total EIA	Direct	174,051	174,335	174,130	174,077	174,614	175,089	176,107	176,467	176,780	176,271	176,530	177,073	177,213	177,803	178,459	178,363	177,939	177,829	178,381	178,117	7,247,940
	Indirect	59,825	60,011	60,080	60,128	60,388	60,606	60,997	61,193	61,381	61,259	61,435	61,716	61,815	62,093	62,376	62,436	62,348	62,402	62,700	62,663	2,487,080
	Induced	85,430	85,700	85,758	85,862	86,227	86,547	87,120	87,393	87,664	87,534	87,782	88,137	88,286	88,641	89,029	89,057	89,014	89,051	89,406	89,354	3,556,323
	Total	319,306	320,047	319,967	320,067	321,228	322,241	324,224	325,053	325,824	325,064	325,747	326,926	327,314	328,537	329,865	329,857	329,301	329,282	330,487	330,134	13,291,343
Other-GOM	Direct	64,842	64,929	64,795	64,775	64,994	65,209	65,640	65,796	65,901	65,803	65,799	65,991	66,050	66,200	66,455	66,348	66,311	66,249	66,385	66,301	2,723,961
	Indirect	22,424	22,446	22,386	22,368	22,439	22,512	22,662	22,714	22,743	22,700	22,681	22,742	22,758	22,801	22,885	22,840	22,812	22,785	22,825	22,789	943,136
	Induced	32,208	32,262	32,204	32,202	32,319	32,437	32,661	32,753	32,817	32,785	32,785	32,887	32,929	33,007	33,141	33,097	33,086	33,067	33,136	33,104	1,353,191
	Total	119,473	119,637	119,385	119,345	119,752	120,158	120,963	121,263	121,461	121,288	121,265	121,619	121,738	122,008	122,481	122,284	122,210	122,101	122,346	122,194	5,020,288
Other-US	Direct	62,828	62,931	62,793	62,750	63,010	63,377	64,005	64,324	64,550	64,496	64,448	64,677	64,796	65,037	65,403	65,460	65,211	65,247	65,463	65,446	2,663,371
	Indirect	60,514	60,691	60,649	60,679	60,985	61,394	62,031	62,410	62,698	62,744	62,765	63,045	63,232	63,512	63,903	64,034	63,829	63,925	64,177	64,221	2,569,934
	Induced	101,140	101,381	101,258	101,259	101,735	102,376	103,410	103,990	104,421	104,425	104,415	104,846	105,106	105,543	106,165	106,331	105,963	106,078	106,471	106,497	4,293,946
	Total	224,482	225,002	224,700	224,688	225,730	227,147	229,446	230,725	231,669	231,664	231,628	232,569	233,135	234,092	235,472	235,825	235,004	235,250	236,111	236,165	9,527,251

Source: Employment output from MMS's economic impact model MAG-PLAN.

Table 4-47

Employment Projected for the OCS Program as a Percent of Total Employment by Economic Impact Area

Calendar Year	Model Year	AL-1 Low	AL-1 High	MS-1 Low	MS-1 High	LA-1 Low	LA-1 High	LA-2 Low	LA-2 High	LA-3 Low	LA-3 High	LA-4 Low	LA-4 High	TX-1 Low	TX-1 High	TX-2 Low	TX-2 High	TX-3 Low	TX-3 High	FL-1 Low	FL-1 High	FL-2 Low	FL-2 High	FL-3 Low	FL-3 High	FL-4 Low	FL-4 High
2007	1	1.4	1.8	1.8	2.2	2.9	3.7	18.1	23.7	7.3	9.4	3.6	4.7	1.1	1.8	2.9	4.6	2.6	3.5	1.2	1.6	0.7	0.9	0.4	0.5	0.1	0.1
2008	2	1.4	1.8	1.8	2.3	2.8	3.7	17.9	23.8	7.3	9.6	3.4	4.7	1.1	1.8	2.9	4.6	2.6	3.6	1.2	1.6	0.7	0.9	0.4	0.5	0.1	0.1
2009	3	1.4	1.8	1.7	2.3	2.8	3.7	17.5	23.7	7.2	9.7	3.3	4.6	1.1	1.9	2.8	4.7	2.5	3.6	1.1	1.5	0.7	0.9	0.4	0.5	0.1	0.1
2010	4	1.3	1.8	1.7	2.3	2.7	3.7	17.0	23.3	7.0	9.6	3.2	4.5	1.0	1.9	2.7	4.7	2.5	3.6	1.1	1.5	0.6	0.9	0.4	0.5	0.1	0.1
2011	5	1.3	1.8	1.7	2.2	2.7	3.6	16.7	22.6	7.0	9.3	3.1	4.3	1.0	1.9	2.7	4.7	2.4	3.5	1.1	1.5	0.6	0.8	0.4	0.5	0.1	0.1
2012	6	1.2	1.7	1.6	2.1	2.5	3.4	15.9	21.7	6.6	9.0	2.8	4.0	1.0	2.0	2.5	4.8	2.3	3.3	1.0	1.4	0.6	0.8	0.4	0.4	0.1	0.1
2013	7	1.3	1.6	1.6	2.1	2.5	3.3	15.8	21.1	6.6	8.8	2.8	3.8	0.9	2.0	2.5	4.9	2.3	3.2	1.0	1.3	0.6	0.8	0.4	0.4	0.1	0.1
2014	8	1.2	1.6	1.5	2.0	2.4	3.2	15.1	20.4	6.3	8.5	2.6	3.6	0.9	2.0	2.4	5.0	2.1	3.1	0.9	1.3	0.5	0.7	0.3	0.4	0.1	0.1
2015	9	1.2	1.5	1.5	1.9	2.4	3.1	15.0	19.6	6.4	8.2	2.6	3.4	0.9	2.1	2.4	5.1	2.1	3.0	0.9	1.2	0.5	0.7	0.3	0.4	0.1	0.1
2016	10	1.1	1.5	1.4	1.8	2.3	3.0	14.4	18.8	6.1	7.9	2.4	3.2	0.8	2.1	2.3	5.1	2.0	2.9	0.9	1.1	0.5	0.7	0.3	0.4	0.1	0.1
2017	11	1.1	1.4	1.4	1.8	2.3	2.9	14.3	18.0	6.1	7.6	2.4	3.0	0.8	2.1	2.2	5.0	2.0	2.7	0.9	1.1	0.5	0.6	0.3	0.4	0.1	0.1
2018	12	1.1	1.4	1.4	1.7	2.3	2.8	14.2	18.0	6.0	7.5	2.3	2.9	0.8	2.1	2.2	5.0	1.9	2.7	0.9	1.1	0.5	0.6	0.3	0.4	0.1	0.1
2019	13	1.1	1.4	1.4	1.7	2.3	2.8	14.4	17.8	6.1	7.4	2.3	2.8	0.8	2.0	2.3	5.0	1.9	2.6	0.8	1.0	0.5	0.6	0.3	0.4	0.1	0.1
2020	14	1.1	1.3	1.3	1.7	2.2	2.8	14.1	17.6	5.9	7.3	2.2	2.8	0.8	2.0	2.2	4.9	1.8	2.5	0.8	1.0	0.5	0.6	0.3	0.3	0.0	0.1
2021	15	1.1	1.3	1.4	1.6	2.3	2.8	14.4	17.4	6.0	7.2	2.2	2.7	0.8	2.0	2.3	4.9	1.9	2.5	0.8	1.0	0.5	0.6	0.3	0.3	0.0	0.1
2022	16	1.1	1.3	1.3	1.6	2.3	2.7	14.3	17.2	5.9	7.1	2.2	2.6	0.8	1.9	2.3	4.8	1.8	2.4	0.8	1.0	0.5	0.6	0.3	0.3	0.0	0.1
2023	17	1.1	1.3	1.3	1.6	2.3	2.7	14.5	17.1	6.0	7.1	2.2	2.6	0.8	1.9	2.3	4.8	1.8	2.4	0.8	1.0	0.5	0.6	0.3	0.3	0.0	0.1
2024	18	1.1	1.3	1.3	1.6	2.3	2.7	14.3	17.0	5.9	7.0	2.1	2.5	0.8	1.9	2.3	4.7	1.8	2.4	0.8	1.0	0.5	0.6	0.3	0.3	0.0	0.1
2025	19	1.1	1.2	1.3	1.5	2.3	2.7	14.2	16.8	5.8	6.9	2.1	2.5	0.8	1.9	2.3	4.7	1.7	2.3	0.8	0.9	0.5	0.6	0.3	0.3	0.0	0.1
2026	20	1.0	1.2	1.3	1.5	2.3	2.7	14.1	16.7	5.8	6.9	2.0	2.4	0.8	1.8	2.2	4.6	1.7	2.3	0.8	0.9	0.5	0.6	0.3	0.3	0.0	0.1
2027	21	1.0	1.2	1.2	1.5	2.2	2.7	14.0	16.6	5.8	6.8	2.0	2.4	0.8	1.8	2.2	4.6	1.7	2.2	0.8	0.9	0.5	0.6	0.3	0.3	0.0	0.1
2028	22	1.0	1.2	1.2	1.5	2.2	2.6	13.9	16.5	5.7	6.8	1.9	2.4	0.8	1.8	2.2	4.5	1.7	2.2	0.8	0.9	0.5	0.6	0.2	0.3	0.0	0.1
2029	23	1.0	1.2	1.2	1.4	2.2	2.6	13.7	16.4	5.6	6.8	1.9	2.3	0.7	1.7	2.2	4.4	1.6	2.2	0.7	0.9	0.5	0.5	0.2	0.3	0.0	0.0
2030	24	1.0	1.2	1.2	1.4	2.2	2.6	13.5	16.3	5.5	6.7	1.9	2.3	0.7	1.7	2.1	4.4	1.6	2.1	0.7	0.9	0.4	0.5	0.2	0.3	0.0	0.0
2031	25	1.0	1.2	1.2	1.4	2.1	2.6	13.3	16.2	5.5	6.7	1.8	2.2	0.7	1.7	2.1	4.3	1.6	2.1	0.7	0.9	0.4	0.5	0.2	0.3	0.0	0.0
2032	26	1.0	1.2	1.1	1.4	2.1	2.6	13.1	16.2	5.4	6.7	1.8	2.2	0.7	1.6	2.1	4.3	1.5	2.1	0.7	0.9	0.4	0.5	0.2	0.3	0.0	0.0
2033	27	0.9	1.2	1.1	1.4	2.1	2.6	13.0	16.1	5.4	6.7	1.7	2.2	0.7	1.6	2.0	4.2	1.5	2.1	0.7	0.9	0.4	0.5	0.2	0.3	0.0	0.0
2034	28	0.9	1.2	1.1	1.4	2.0	2.6	12.8	16.0	5.3	6.6	1.7	2.1	0.7	1.6	2.0	4.2	1.5	2.1	0.7	0.8	0.4	0.5	0.2	0.3	0.0	0.0
2035	29	0.9	1.2	1.1	1.4	2.0	2.5	12.6	15.9	5.2	6.6	1.6	2.1	0.7	1.6	2.0	4.1	1.5	2.0	0.7	0.8	0.4	0.5	0.2	0.3	0.0	0.0
2036	30	0.9	1.1	1.1	1.3	2.0	2.5	12.4	15.8	5.1	6.5	1.6	2.1	0.7	1.5	1.9	4.1	1.4	2.0	0.7	0.8	0.4	0.5	0.2	0.3	0.0	0.0
2037	31	0.9	1.1	1.1	1.3	2.0	2.5	12.3	15.7	5.1	6.5	1.6	2.0	0.6	1.5	1.9	4.0	1.4	2.0	0.6	0.8	0.4	0.5	0.2	0.2	0.0	0.0
2038	32	0.9	1.1	1.0	1.3	1.9	2.5	12.1	15.6	5.0	6.5	1.5	2.0	0.6	1.5	1.9	4.0	1.4	2.0	0.6	0.8	0.4	0.5	0.2	0.2	0.0	0.0
2039	33	0.9	1.1	1.0	1.3	1.9	2.5	11.9	15.5	5.0	6.4	1.5	2.0	0.6	1.5	1.9	3.9	1.3	1.9	0.6	0.8	0.4	0.5	0.2	0.2	0.0	0.0
2040	34	0.9	1.1	1.0	1.3	1.9	2.5	11.7	15.4	4.9	6.4	1.4	1.9	0.6	1.5	1.8	3.9	1.3	1.9	0.6	0.8	0.4	0.5	0.2	0.2	0.0	0.0
2041	35	0.9	1.1	1.0	1.3	1.9	2.4	11.6	15.3	4.9	6.4	1.4	1.9	0.6	1.4	1.8	3.9	1.3	1.9	0.6	0.8	0.4	0.5	0.2	0.2	0.0	0.0
2042	36	0.8	1.1	1.0	1.3	1.8	2.4	11.4	15.2	4.8	6.3	1.4	1.9	0.6	1.4	1.8	3.8	1.3	1.9	0.6	0.8	0.4	0.5	0.2	0.2	0.0	0.0
2043	37	0.8	1.1	0.9	1.2	1.8	2.4	11.3	15.0	4.7	6.3	1.3	1.8	0.6	1.4	1.8	3.8	1.2	1.8	0.6	0.8	0.4	0.5	0.2	0.2	0.0	0.0
2044	38	0.8	1.1	0.9	1.2	1.8	2.4	11.1	14.9	4.7	6.2	1.3	1.8	0.6	1.4	1.7	3.7	1.2	1.8	0.6	0.7	0.4	0.5	0.2	0.2	0.0	0.0
2045	39	0.8	1.1	0.9	1.2	1.8	2.4	11.0	14.8	4.6	6.2	1.3	1.7	0.6	1.4	1.7	3.7	1.2	1.8	0.6	0.7	0.4	0.5	0.2	0.2	0.0	0.0
2046	40	0.8	1.1	0.9	1.2	1.7	2.3	10.9	14.7	4.6	6.1	1.2	1.7	0.6	1.3	1.7	3.7	1.2	1.8	0.5	0.7	0.3	0.5	0.2	0.2	0.0	0.0

Source: Employment output from MMS's economic impact model MAG-PLAN as a percentage of baseline employment projections based on Woods & Poole Economics, Inc. (2006).

Table A-1

Watermasses in the Gulf of Mexico

Watermass	Eastern Gulf of Mexico			Western Gulf of Mexico		
	Depth	Feature(s)	Sigma-theta (m)(mg/cm^3)	Depth	Feature(s)	Sigma-theta (m)(mg/cm^3)
SUW-LC	150-250	S_{max}	25.40	NA	NA	NA
SUW	150-250	S_{max}	25.40	0-250	S_{max}	25.40
18°C W	200-400	O_{2max}	26.50	NA	NA	NA
TACW	400-700	O_{2min}	27.15	250-400	O_{2min}	27.15
AAIW	NA	NA	NA	500-700	NO_{3max}	27.30
AAIW	700-900	PO_{4max}	27.40	600-800	PO_{4max}	27.40
AAIW	800-1,000	S_{min}	27.50	700-800	S_{min}	27.50
		SiO_{2max}	NA		SiO_{2max}	NA
UNADW	900-1,200	SiO_{2max}	27.70	1,000-1,100	SiO_{2max}	27.70

Key:

18°C W = 18 degrees Centigrade Sargasso Sea Water.
AAIW = Antarctic intermediate water.
NA = information not available.
NO_{3max} = nitrate maximum.
O_{2max} = dissolved oxygen maximum.
O_{2min} = dissolved oxygen minimum.
PO_{4max} = phosphate maximum.
SiO_{2max} = silicate maximum.
S_{max} = salinity maximum.
S_{min} = salinity minimum.
SUW = subtropical underwater in the Gulf but outside the Loop Current.
SUW-LC = subtropical underwater in the Loop Current and new Loop Current eddies.
TACW = tropical Atlantic central water.
UNADW = mixture of upper North Atlantic deep water and high-silicate Caribbean mid-water.

Table A-2

Climatological Data for Selected Gulf Coast Locations

Location	Precipitation (annual average, meters)	Temperature (mean annual, ^{o}C)	Wind Speed (average annual mean, m/sec)	Humidity (average percent)	Barometric Pressure (average annual millibars)	Stability Conditions Annual Percent		
						Unstable	Neutral	Stable
Corpus Christi, TX	0.77	21.7	5.4	89	1,014	11.0	61.0	28.0
Galveston, TX	1.07	20.9	4.9	83	1,015	16.0	61.4	22.6
Lake Charles, LA	1.35	19.9	3.9	90	1,016	23.0	44.0	33.0
Gulfport, MS	1.50	20.0	3.6	85	1,016	17.5	47.4	35.1
Pensacola, FL	1.55	19.9	3.7	85	1,013	18.0	22.0	60.0
Key West, FL	1.01	25.3	5.0	79	1,014	80.0	18.0	2.0

Source: USDOC, NOAA, 1961-1986.

Table A-3

Summary of the Most Damaging Hurricanes in the Gulf of Mexico (1900-2005)

Hurricane	Year	Category[1]	Damage (million $)	Deaths
Texas	1900	4	NA	6,000+
Mississippi/Alabama/Pensacola, Florida	1906	3	NA	134
Southeast Florida	1906	2	NA	164
Louisiana	1909	4	NA	350
Texas	1909	3	NA	41
Louisiana	1915	4	NA	275
North Texas	1915	4	1,177	275
Southwest Louisiana	1918	3	NA	34
Florida Keys	1919	4	NA	600-900
Florida	1926	4	1,315	243
Louisiana	1926	3	NA	25
Texas	1932	4	NA	40
South Texas	1933	3	NA	40
Southwest Florida	1944	3	582	NA
Southeast Florida/Louisiana/Mississippi	1947	4	707	51
Audrey (Louisiana/Texas)	1957	4	696	390
Carla (Texas)	1961	4	1,926	46
Hilda (Louisiana)	1964	3	578	38
Betsy (Florida/Louisiana)	1965	3	6,461	75
Beulah (Texas)	1967	3	844	NA
Camille (Mississippi/Alabama)	1969	5	5,242	256
Celia (Texas)	1970	3	1,560	NA
Eloise (Florida)	1975	3	1,081	NA
Claudette (Texas)	1979	T.S.	609	NA
Frederic (Alabama/Mississippi)	1979	3	3,502	NA
Allen (Texas)	1980	3	410	NA
Alicia (Texas)	1983	3	2,391	NA
Elena (Mississippi/Alabama/Louisiana)	1985	3	1,392	NA
Juan (Louisiana)	1985	1	1,671	NA
Allison (Texas)	1989	T.S.	511	NA
Andrew (Florida/Louisiana)	1992	4	30,475	NA
Gordon (Florida)	1994	T.S.	400	NA
Alberto (Florida/Alabama)	1994	T.S.	500	30
Erin (Florida/Miss/Alabama)	1995	1	700	NA
Opal (Florida/Alabama)	1995	3	3,069	NA
Danny (Louisiana/Florida)	1997	1	NA	NA
Earl (Florida)	1998	1	NA	NA
Georges (Florida/Mississippi)	1998	2	NA	NA
Bret (Texas)	1999	4	NA	NA
Irene (Florida)	1999	1	NA	NA
Allison (Texas)	2001	T.S.	5,000	NA
Lili (Louisiana)	2002	1	860	NA
Jeanne (Florida)	2004	3	6,900	NA
Frances (Florida)	2004	2	8,900	NA
Ivan (Alabama/Florida)	2004	3	14,200	NA
Charley (Florida)	2004	4	15,000	NA

Table A-3. Summary of the Most Damaging Hurricanes in the Gulf of Mexico (1900-2005) (continued)

Hurricane	Year	Category [1]	Damage (million $)	Deaths
Dennis (Florida)	2005	3	2,230	42
Katrina (Louisiana/Mississippi/Alabama)	2005	3	75,000-100,000	1,600+
Rita (Texas/Louisiana)	2005	3	10,000	6
Wilma (Florida)	2005	3	12,200	22

Sources: Modified from Herbert et al., 1992.
USDOC, NOAA, NHC, 2001.
USDOC, NOAA, NHC, 2006.

[1] Storm category at landfall from the Saffir-Simpson scale.
Category 1 = winds of 74-95 mph
Category 2 = winds of 96-110 mph
Category 3 = winds of 111-130 mph
Category 4 = winds of 131-155 mph
Category 5 = winds greater than 155 mph

T.S. = tropical storm.
NA= data not available.

Table A-4

Rigs-to-Reefs Donations and Methods of Removal and Reefing by State as of May 2006

State	Rigs-to-Reefs Donations	Tow-and-Place Platforms	Topple-in-Place Platforms	Partial Removal Platforms
Louisiana	147	91	49	7
Texas	83	40	16	27
Florida	3	3	0	0
Alabama	6	6	0	0
Mississippi	8	3	5	0
Total	247	143	70	34

Table A-5

MMS-Funded Hurricane Research and Studies

Subject	Description
Hurricanes Katrina and Rita	
Joint Industry Project to Study Risk-Based Restarts of Untreated Subsea Oil and Gas Flowlines in the GOMR (Project No. 579)	This project assesses potential solutions to the disruptions of production restart from hydrates affecting pipelines after a long shut-in period such as a hurricane. Preliminary work shows that it may be possible to reduce the risk of hydrate plugging by selecting an appropriate restart rate. The MMS and industry will use the results of this project to reduce the risk of having hydrates stop production restarts.
Hindcast Data on Winds, Waves and Currents in Northern Gulf of Mexico in Hurricanes Katrina and Rita (2005) (Project No. 580)	The study objective is to develop a database of wind, sea state, and currents resulting from Hurricanes Katrina and Rita meteorological data and application of advanced hindcast models. The study contractor has already responded to urgent industry needs for a preliminary assessment of the impact of Hurricanes Katrina and Rita by performing and distributing to several offshore operators an "emergency response (ER)" wind and wave hindcast. The study contractor will make that same data immediately available to the other MMS contracted researchers providing Hurricane Katrina/Rita research then, following completion of the study contractor's new work, they will deliver a second and more in-depth hindcast data analysis (referred to as "fast response (FR)" that results from this new study. The FR hindcast differs from the ER hindcast in the following ways: (1) it will use a larger base of measured wind, wave, surge, and current data, (2) it will include a more detailed reanalysis of the wind field; (3) particular attention will be paid to provision of much higher resolution in shallow water and to the inclusion of the storm-perturbed water level in the shallow-water wave hindcast; and (4) more robust 1D and 2D current models will be adopted.
Pipeline Damage Assessment from Hurricane Katrina/Rita (Project No. 581)	The objective of the study is to find out what happened to the GOM pipeline infrastructure during Hurricanes Katrina and Rita and how to be better prepared in the future to reduce hurricane damage in the GOM. The study contractor proposes development of a web-based pipeline damage reporting system with MMS's eWell system. The intent of the web-based program is to allow operators with options to report their operational status more quickly and efficiently following a major event, plus it allows MMS the means to automate data collection and reporting.
Assessment of Fixed Offshore Platform Performance in Hurricanes Katrina and Rita (Project No. 578)	The objective of this effort is to conduct a qualitative and quantitative assessment of fixed offshore platforms that were affected by Hurricane Katrina and/or Rita. Resulting data will be evaluated to determine if any common trends occur, and also to determine if current API standards are an accurate indicator of expected performance. Coordination and consultation with the API HEAT group will occur throughout the project.
Modeling Waves and Currents Produced by Hurricanes Katrina and Rita (GM-06-x10)	The objective of the study is to assess the response of waves and currents throughout the water column on the northern GOM slope and shelf to Hurricanes Katrina and Rita, using numerical modeling techniques in conjunction with available meteorological and physical oceanographic data. In particular, this study aims at 1. a realistic simulation of circulation throughout the entire water column in the northern GOM continental slope and shelf regions, including the response of currents and waves to Hurricanes Katrina and Rita; 2. determination of the length of time for which substantial ocean response to these hurricanes persisted; and 3. determination of the area or areas of greatest wave height and current speed.

Post-Hurricane Assessment of Sensitive Habitats of the Flower Garden Banks Vicinity (GM-06-x11)	The condition of the communities on the banks selected for the study is important to the health of the ecosystem as a whole. This study will conduct field surveys at the East Flower Garden Bank and at Sonnier, Geyer, and possibly West Flower Garden and McGrail Banks to determine their condition and to track the progress of recovery from Hurricane Rita effects. The study will enhance MMS's ability to distinguish natural from anthropogenic impacts. Results from the study of these banks can be considered representative of others in the area and will improve the MMS's ability to make management decisions.
Post-Hurricane Assessment of OCS-Related Infrastructure and Communities in the Gulf of Mexico Region (GM-92-42-124)	The primary objective of this project is to update the existing Infrastructure Fact Book in light of the recent changes in the industry and the region. The goal will be a better understanding of the impacts that the 2005 tropical activity may have on future onshore infrastructure development trends and outlooks. A second objective will be to reorganize and supplement some of the information to better support EIS development. In addition to updating the underlying data, the original data documentation will be updated to ensure that the metadata associated with the project meets newer MMS data collection standards that have been developed since the original project concluded. The project will also conduct a socioeconomic analysis of select communities with a high concentration of OCS-related infrastructure. This analysis will take the existing GIS infrastructure information, as well as additions and supplements developed during this project, and identify communities of interest. For a set of 6-10 communities selected, detailed community profiles will be developed using Census data.
Spatial Restructuring and Fiscal Impacts in the Wake of Disaster: The Case of the Oil and Gas Industry Following Hurricanes Katrina and Rita (GM-92-42-125)	The objective of the study is to examine the following research questions: 1. What role will the oil and gas industry play in providing employment stability in the region in the aftermath of the storms, and how will this change over time? 2. Will a spatial shift of employment occur in response to the storms? If so, which areas stand to benefit and which areas stand to suffer from these changes? 3. How will the response of the oil and gas industry compare with other major industrial sectors in terms of its impact on employment and thus the region's recovery? 4. What strategies will the oil and gas industry use to recruit new and retain current employees? 5. What fiscal effects will the industry have on impacted communities, Gulf States, and the Gulf region?
Hurricane Ivan	
Examination and Review of Mobile Offshore Drilling Unit (MODU) Loss of Station-keeping Ability during Hurricane Ivan and Assessment of Current Mooring Standards and Criteria to Prevent Similar Failures (Project No. 548)	The project examined the loss of MODU station-keeping in the Gulf of Mexico during Hurricane Ivan in September 2004, comparing those findings with that of recent Hurricanes Andrew (1992) and Lili (2002), and it assessed the current mooring standards and criteria to prevent similar failures.
Assessment of Fixed Offshore Platforms in Hurricane Ivan, Andrew (Project No. 549)	Based on the damage data collected from Hurricanes Ivan (2004), Andrew (1992), and Lili (2002), this project determined the effectiveness of current structural design standards and MMS regulations. It analyzed the effectiveness of API RP2A and Section 17 to see if both the API standards and MMS regulations performed as expected for the assessment of existing fixed platforms.
A Pilot Study for Regionally-Consistent Hazard Susceptibility Mapping of Submarine Mudslides, Offshore Gulf of Mexico (Project No. 550)	During Hurricane Ivan in 2004, a number of GOM pipelines and platforms were believed to have been impacted by mudslides in the region of Ivan's path. This project provides hazard information for the design and placement of new pipelines and structures by determining the applicability of developing regionally consistent hazard maps that delineate relative susceptibility of GOM offshore regions to future submarine mudslides, including identification of past and future probable locations of underwater slope failures. The project consists of a pilot test to map the seafloor bottom using high-resolution bathymetric and seismic data to delineate past mudslide failures, sediments susceptible to failure, and areas of relative stability. An important part of this mapping is to determine the relative ages of sediment and past failures in order to evaluate where future failures are most likely to occur, and equally important, likely to not occur.

Assessment of Drilling and Workover Rig Storm Sea Fastenings on Offshore Floating Platforms During Hurricane Ivan (Project No. 551)	Drilling and workover rigs on floating production systems (FPS's) are held to the decks by sea fastenings to prevent movement during hurricanes. During Hurricane Ivan, a number of drilling or workover rigs shifted. These movements are assessed, along with the current design philosophy and criteria for storm sea fastenings, rig and storm sea fastening installation practices, and onboard storm operational practices to ready FPS's for a hurricane. The study's results provide information that can be used to assess any needs to revise tie-down criteria or practices.
Mudslides during Hurricane Ivan and an Assessment of the Potential for Future Mudslides in the GOM (Project No. 552)	During 2004 and 2005, Hurricanes Ivan, Katrina, and Rita damaged and destroyed hundreds of GOM pipelines and platforms, many from mudslides both in line with and adjacent to the hurricanes' paths. This project examines and reviews the mudflow/mudslide areas in the GOM caused by hurricanes. Revised and/or new maps indicating areas of high risk were produced. This will be accomplished through a review of both historical data, as well as new data that resulted from Hurricanes Ivan, Katrina, and Rita.
Pipeline Damage Assessment from Hurricane Ivan (Project No. 553)	In September 2004, Hurricane Ivan, a Category 4 hurricane, moved through the GOM with winds and waves that exceeded the 100-year storm design criteria of offshore facilities. Approximately 10,000 mi of pipelines were in the direct path of Hurricane Ivan. The MMS received industry damage assessment reports identifying damage to the offshore pipeline infrastructure. This project determined the type, cause, and extent of pipeline damage incurred during Hurricane Ivan and provides guidance for improving pipeline integrity/design to reduce potential damage from future GOM hurricanes.
Offshore Hurricane Readiness & Recovery Conference (Project No. 559)	The Offshore Hurricane Readiness & Recovery Conference, co-sponsored by MMS, was held July 26-27, 2005, in Houston, Texas. The conference brought industry and government officials together to share and learn from the experiences of Hurricane Ivan to improve future performance and reliability of offshore operations in the GOM.
Ocean Currents under Hurricane Ivan on the Mississippi/Alabama Shelf (GM-05-x12)	The purpose of this interagency agreement is to analyze vertical profiles of ocean currents prior to, during, and after the passage of Hurricane Ivan to assess the response of the ocean to such an energetic atmospheric event. In particular, a 3-dimensional response of ocean currents will be sought by the Naval Research Laboratory research team.
Hurricane Lili	
Validation and Calibration of API RP2A Using Hurricane Lili to Update the Hurricane Andrew Joint Industry Project (JIP) Results that Provided the Basis for API Section 17 (Project No. 466)	This project updates the API RP2A section using Hurricane Lili data to validate and calibrate Hurricane Andrew's JIP results. The general project objectives were to 1. determine the validity of the API RP2A process using a combined set of Hurricane Andrew and Hurricane Lili data; 2. determine the anticipated conservatism of the API process, if any, by determining the bias factors for the jacket and foundation; 3. identify the areas of the API design process, wave load, foundation design, etc., that provide the most significant bias contributors; and 4. make recommendations on improvements to API RP2A.
Hindcast Study of Winds, Waves, and Currents in Northern GOM in Hurricane Lili (2002) (Project No. 467)	The purpose of this study was to develop a description of the evolution and distribution of the surface wind field, wave, salinity, sea-surface temperature, and current field in the northern GOM during the approach and passage of Hurricane Lili in 2002. The hindcast used all available public domain meteorological and oceanographic measured data, and Oceanweather's most accurate cyclone wind and wave hindcast methods. Hindcast results are validated against available measured data and an assessment of the accuracy of the hindcast provided with the results. The narrative report includes a description of the data sources, storm evolution (track and intensity), wind and wave hindcast method and a summary of results.
Post-Mortem Failure Assessment of Drilling Rigs during Hurricane Lili (Project No. 469)	The project studied the failures of offshore drilling rigs, MODU's, and jackup rigs associated with the passage of Hurricane Lili in the autumn of 2002. It developed recommendations for updates on criteria, reviewed data from the Hurricane Andrew timeframe, and the made recommendations to SNAME RP for possible future mitigation action.

Assessment of Performance of Deepwater Floating Production Facilities (Project No. 471)	This project collected and assessed information on the performance of deepwater production facilities that were impacted by Hurricane Lili (2002). This study formed the basis for developing recommendations for improvement in design and operation of installations such as 1. vortex-induced vibration of risers; 2. loss of air gap with wave loading on decks; 3. tension leg platform TLP performance; and 4. spar performance measurements.
Evaluate and Compare Hurricane-Induced Damage to Offshore Pipelines for Hurricane Lili – Rev. A (Project No. 503)	This project investigated the major classes of pipeline failure that resulted to GOM OCS facilities by Hurricane Lili in the fall of 2002. The project had four objectives: 1. investigate pipeline failures resulting from Hurricane Lili, including flowlines, major trunk lines, and platform risers from both fixed and floating production facilities; 2. compare and contrast these failures with those reported from Hurricane Andrew; 3. make specific recommendations for changes in design or operations guidelines that might prevent or mitigate such failures in the future; and 4. suggest cost-effective methods for making existing pipelines designed by older guidelines less likely to fail in the future.
Hurricane Andrew	
Study and Hindcast of Wind and Wave Fields for Hurricane Andrew (Project No. 193)	This study was a JIP to describe the evolution and distribution of the surface wind field and wave field in the northern GOM during Hurricane Andrew in August 1992. The hindcast used public domain meteorological and oceanographic measured data and the Oceanweather's most accurate cyclone wind and wave hindcast methods. The narrative report includes a description of the data sources, storm evolution (track and intensity), hindcast method and a summary of results.
Hurricane Andrew Calibration Study (Project No. 199)	This study was a JIP to collect information gained from platform failures and survivals during Hurricane Andrew and to develop a database for the future management of existing platforms. The MMS, through its Platform Verification Program, is responsible for a wide variety of functions related to the strength and integrity of offshore platforms. This project incorporates a "calibration" task that uses the outcome of Hurricane Andrew (survived, damaged, or failed platforms) to update and adjust, where necessary, current practices for assessing in-place offshore platforms. This calibrated approach could become part of a future API RP2A recommendation for assessing existing offshore platforms.
Performance of Safety and Pollution Control Devices in the Aftermath of Hurricane Andrew (Part of the Hurricane Andrew OCS Damage Assessment Program) (Project No. 203)	The objective of this project was to develop a reliability database that will increase the confidence in the methodology used to develop safety systems, thereby increasing the safety of offshore developments. The basis of achieving the objectives of this work was to secure the support of operators associated with MMS to ease the gathering of data related to the performance of safety and pollution control devices within the offshore environment. These data were collated into a computer database and used as input to the review of reliability assessment methodology and the performance of test case analysis.
Post Mortem Platform Failure Evaluation Study (Project No. 204)	This study was a JIP that used the results of Hurricane Andrew to evaluate engineering methods for predicting platform failure or survivability by comparing screening analysis and/or detailed failure analysis against actual field data (i.e., platforms that were exposed to Andrew and either survived, collapsed, or were damaged). In addition, the study also examined the concept of a formal Offshore Platform Evaluation System as a management information system.
Shallow Water Wave and Current Field Study (Project No. 206)	The study provides a comprehensive and reliable database of environmental data in shallow-water (as well as offshore) areas affected by Hurricane Andrew through the implementation and application of advanced numerical wave and current hindcast models. The models adopted were previously applied and validated against historical GOM hurricanes. These were carefully checked and recalibrated against available data acquired in Hurricane Andrew.
API/Hurricane Foundation Study (Project No. 207)	The study is a JIP to develop separate bias factors for evaluation of pile foundations of GOM offshore steel jackets based upon their performance during Hurricane Andrew. Some similarly limited studies were performed for caisson structures. The purpose of the study is to evaluate possible conservatism in the current API RP2A foundation design recipe.

Development of Acceptance Criteria for Caisson Structures Damaged during Hurricane Andrew (Project No. 209)	Approximately 100 caisson structures were tilted during Hurricane Andrew. The objective of this study was to develop an acceptance criteria for those tilted structures and to develop guidelines for straightening those structures that did not meet the criteria.
Hurricane Andrew Effects on Offshore Platforms (Project No. 210)	This study was a JIP to inspect and analyze three Chevron platforms in their South Timbalier field. Two structures survived Hurricane Andrew; the other toppled during the hurricane. The objective of the study was to compare analytical predictions with actual field performance, with particular emphasis on individual members and platform system failures. This assessment provided information in developing guidelines to be incorporated into API RP2A.
Dynamic Nonlinear Loading Effects on Offshore Platforms (Project No. 224)	The project's objective was to conduct parametric studies of the dynamic response of reduced degrees of freedom nonlinear systems and to determine how the results from simplified nonlinear capacity analysis relate to the results from complex time-domain analysis of the performance of platforms in extreme condition storms. Observed platform performances during recent hurricanes (e.g., Andrew, Camille, Betsy, and Hilda) were used to verify the analysis. Engineering guidelines were developed to define dynamic nonlinear loading-capacity effects on the overall performance characteristics of platforms.
Hurricane Andrew Effects on Offshore Platforms (Phase II - JIP) (Project No. 229)	The study was a JIP. Phase I was a calibration task to study the effects of Hurricane Andrew on platforms (i.e., survived, damaged, or failed). The outcomes were used to update current practices for assessing the ability of in-place platforms to withstand hurricanes. This calibration approach became part of API's RP2A standard for assessing existing offshore platforms.

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The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.