

Alaska Statewide Summary of Assessments of Undiscovered, Technically Recoverable Oil and Gas¹

Region and Assessment Segment	Oil, MMSTB (million stock tank barrels)			Gas, BCF (billion cubic feet)			Marginal Probability ⁴	Reference	
	Probability Distribution			Probability Distribution					
	F95	Mean	F05	F95	Mean	F05			
North Slope Onshore & State Waters²									
Central North Slope	Oil & Associated gas	2,565	3,984	5,854	2,681	4,198	6,092	1.00	USGS, 2005: Open-File Rpt 2005-1182
	NGL & Non-associated gas	-- ³	478	-- ³	23,939	33,318	44,873		USGS, 2005: Open-File Rpt 2005-1182
Nat'l Petrol Reserve Alaska	Oil & Associated gas	--	896	--	--	--	--	1.00	USGS, 2010: Fact Sheet 2010-3102
	NGL & Non-associated gas	-- ³	--	-- ³	--	52,839	--		USGS, 2010: Fact Sheet 2010-3102
ANWR coastal plain ²	Oil & Associated gas	5,724	10,360	15,955	--	4,764	--	1.00	USGS, 1999: Open-File Rpt 98-34 (entire assessment area, includes native lands and state waters)
	NGL & Non-associated gas	-- ³	190	-- ³	0	3,841	10,852		USGS, 1999: Open-File Rpt 98-34 (entire assessment area, includes native lands and state waters)
total - North Slope Onshore		-- ³	15,908	-- ³	-- ³	98,960	-- ³		
Arctic Alaska Outer Continental Shelf (OCS)									
Chukchi Shelf	Oil & all gas	2,320	15,380	40,080	10,320	76,770	209,530	1.00	BOEM, 2011 National Assessment Factsheet; MMS, 2007 Alaska OCS Assessment
Beaufort Shelf	Oil & all gas	410	8,220	23,240	650	27,640	72,180	1.00	BOEM, 2011 National Assessment Factsheet; MMS, 2007 Alaska OCS Assessment
Hope Basin	Oil & all gas	0	150	600	0	3,770	14,980	0.40	BOEM, 2011 National Assessment Factsheet; MMS, 2007 Alaska OCS Assessment
total - Arctic OCS (offshore)		-- ³	23,750	-- ³	-- ³	108,180	-- ³		
TOTAL - Arctic Alaska		-- ³	39,658	-- ³	-- ³	207,140	-- ³		
Interior Alaska (USGS Assessments)									
Yukon Flats Basin ⁵	Oil & all gas	0	173	592	0	5,463	14,629	0.81	USGS, 2004: Fact Sheet 2004-3121
Central AK -- multiple basins ⁶	--	--	--	--	--	--	--	--	USGS, 1996: 1995 National Assessment, Digital Data Series DDS-30
Kandik Basin	Oil & all gas	0	61	312	--	178	--	0.42	USGS, 1996: 1995 National Assessment, Digital Data Series DDS-30
Copper River Basin ⁷	--	--	--	--	--	--	--	0.02	USGS, 1996: 1995 National Assessment, Digital Data Series DDS-30
TOTAL - Interior Alaska		-- ³	234	-- ³	-- ³	5,641	-- ³		
Southern Alaska									
Southern Cook Inlet OCS	Oil & all gas	60	1,010	2,850	30	1,200	3,480	1.00	BOEM, 2011 National Assessment Factsheet; MMS, 2007 Alaska OCS Assessment
Northern Cook Inlet	Oil & all gas	108	599	1,359	4,976	19,037	39,737	1.00	USGS, 2011: Fact Sheet 2011-3068; includes unconventional gas plays.
Alaska Peninsula Onshore	Oil & all gas	0	9	53	--	188	--	0.32	USGS, 1996: 1995 National Assessment, Digital Data Series DDS-30
North Aleutian OCS	Oil & all gas	20	750	2,500	400	8,620	23,280	1.00	BOEM, 2011 National Assessment Factsheet; MMS, 2007 Alaska OCS Assessment
Gulf of Alaska OCS	Oil & all gas	0	630	2,040	0	4,040	13,870	0.80	BOEM, 2011 National Assessment Factsheet; MMS, 2007 Alaska OCS Assessment
Other OCS basins ⁸	Oil & all gas	--	460	--	--	9,410	--	0.40-0.60	BOEM, 2011 National Assessment Factsheet; MMS, 2007 Alaska OCS Assessment
TOTAL - Southern Alaska		-- ³	3,458	-- ³	-- ³	42,495	-- ³		
TOTAL STATEWIDE mean undiscov., tech recov			43,350 MMSTB			255,276 BCF			

Notes:

¹ All numbers are probabilistic estimates of undiscovered, technically recoverable resource. Because these estimates include oil and gas resources in small, non-economic accumulations, these mean volumes are unlikely to ever be produced.

² North Slope figures used here include State waters and Native lands within the assessment areas (e.g., ANWR coastal plain includes inholdings, not just Federal 1002 lands).

³ Because only the means of different distributions can be summed, table contains blanks for F95 and F05 totals (except where source provides figures for aggregated distributions).

⁴ Marginal probability is likelihood (0-1) that assessed play or area is capable of producing at least one technically recoverable accumulation (areas with discoveries automatically assigned 1.0). Area is given highest probability of assessed plays.

⁵ Yukon Flats figures include four plays, but are overwhelmingly dominated by the conventional Tertiary sandstone play.

⁶ 1995 assessment of Central AK lumped multiple basins together (Yukon Flats, Minchumina, Nenana, Holitna, Bethel, Innoko, Galena, & Kotzebue basins), but total estimate was less than the more recent 2004 estimate of Yukon Flats Basin alone, so the 1995 results are not tabulated here.

⁷ Copper River Basin resource not volumetrically assessed. Mesozoic oil & Cenozoic biogenic gas plays given only 2% probability of producing at least one technically recoverable accumulation.

⁸ Other OCS includes Navarin Basin, St. George Basin, Norton Basin, Shumagin, and Kodiak planning areas.

compiled by Alaska Division of Oil and Gas (pld), updated November, 2011 BOEM updates)