

**Appendix 3-1**  
**Utility Gas Demand Schedule**

## Average Annual Shortfall of Utility Gas to be Delivered to Cook Inlet – Thermal Basis

SAIC, the authors of the Gas Market Assessment, provided the underlying digital information for the annual shortfall of gas projected for Cook Inlet. The composition of the utility gas was not provided in the Gas Market Assessment, however, the gross or higher heating value of the gas was stated as 1,035 btu/scf. The following schedule of utility gas delivered to Cook Inlet was used as the basis for all material balances supporting spur line project tariff calculations and the estimates of the price of gas delivered to Cook Inlet:

**Calculated Cook Inlet Gas Shortfall, per Figure 5 of Gas Market Assessment, Average Annual Rates**

Year	Volumetric Rate (MMscfd)	Thermal Rate at 1,035 btu/scf (Tbtu/yr)
2015	109.7	41.46
2016	130.1	49.16
2017	148.3	56.01
2018	160.4	60.59
2019	172.2	65.04
2020	184.4	69.68
2021	197.6	74.66
2022	241.3	91.16
2023	248.0	93.68
2024	252.4	95.33
2025	250.0	94.46
2026	267.6	101.09
2027	270.3	102.1
2028	273.0	103.12
2029	275.7	104.15
2030	278.5	105.19
2031	281.2	106.24
2032	284.0	107.31
2033	286.9	108.38
2034	289.8	109.46
2035	292.7	110.56
2036+	+1% / year	+1% / year

The shortfall increases at a rate of 1% per year from 2030 to 2036. It was assumed that the shortfall would continue to increase at 1% per annum from the year 2036 and thereafter.