

Estimates of Current (2007) Consumption of (i.e., demand for) Beef in the Marianas

	2007 total Marianas	2007 Guam	2007 total CNMI	2007 Rota	2007 Saipan	2007 Tinian	
per capita beef consumption		61.0	61.0	61.0	61.0	61.0	lbs/yr/person
residents							
population	227,687	180,865	46,822	3,282	40,000	3,540	
annual beef consumption	13,888,907	11,032,765	2,856,142	200,202	2,440,000	215,940	lbs/yr
estimated yield, carcass weight per head	520	520	520	520	520	520	lbs/head
equivalent cattle consumed	26,700	21,200	5,500	400	4,700	400	head/year
herd factor	2.5	2.5	2.5	2.5	2.5	2.5	
equivalent required herd size	66,750	53,000	13,750	1,000	11,750	1,000	# head
tourists							
arrivals	1,584,000	1,200,000	384,000	18,000	346,000	20,000	people/year
average duration	7	7	7	3	7	3	days
person-days	10,936,000	8,400,000	2,536,000	54,000	2,422,000	60,000	person-days
equivalent population	30,378	23,333	7,044	150	6,728	167	people
average consumption	0.169	0.169	0.169	0.169	0.169	0.169	lbs/person/day
annual beef consumption	1,853,044	1,423,333	429,711	9,150	410,394	10,167	lbs/year
estimated yield, carcass weight per head	520	520	520	520	520	520	lbs/head
equivalent cattle consumed	3,600	2,700	800	-	800	-	head/year
herd factor	2.5	2.5	2.5	2.5	2.5	2.5	years
equivalent required herd size	9,000	6,750	2,000	-	2,000	-	# head
combined							
equivalent population	258,065	204,198	53,866	3,432	46,728	3,707	people
annual beef consumption	15,741,951	12,456,098	3,285,853	209,352	2,850,394	226,107	lbs/year
equivalent cattle consumed	30,300	23,900	6,300	400	5,500	400	head/year
equivalent required herd size	75,750	59,750	15,750	1,000	13,750	1,000	# head
existing herd size	1,507	112	1,395	265	461	669	# head
existing sales	284	9	275	83	89	103	
existing sales / existing consumption	0.9%	0.0%	4.4%	20.8%	1.6%	25.8%	

notes:

- 1 The average duration of tourist stays in the islands is an estimate; no definitive data was available from the tourism authorities.
- 2 The per capita consumption figure is average U.S. data; source: USDA: http://www.ers.usda.gov/publications/lp/xlstables/Meat/WASDE_Beef.xls
- 3 The grow-out duration is an estimated average for grass-fed market cattle under tropical conditions, and can vary due to many factors.
- 4 The "equivalent required herd size" includes bulls, culls, and other herd components needed to ensure a sustainable/growing herd.
- 5 These figures do not include estimates of any possible export markets.