

**ELEPHANT SEAL INFORMATION SUMMARY (Form/Data originated at Ano Nuevo/updated with Piedras Blancas data December 2016)**

Docents - use this information sheet realizing that some numbers are estimates and there are always exceptions.

Population	United States	Metric	NURSING & MILK FAT	United States	Metric
Total Population of Northern E-Seal	230,000 - 240,000		Fat in Elephant seal milk	10 - 63%	
Piedras Blancas Population	25,000		Fat in human or cow milk	Average 3 - 4%	
Peak Population at PB at any one time	>10,000		Fat in Whipping Cream	36%	
Smallest Population at any one time	100-150		Rate of weight gain in nursing pup	8 - 12 lbs/day	4 - 5 kg/day
<b>LENGTH (Nose to tip if tail)</b>			Length of nursing	24 - 28 days	
At Birth	3 - 4 feet	1 - 1.2 meters	Time weaners onshore after weaning	8 - 10 weeks	
Weaner	5 - 6 feet	1.5 - 2.0 meters	Age of natal pelage molt	4 - 6 weeks	
Adult Female	8 - 12 feet	2.5 - 3.5 meters	Length of molt haul-out	4.5 - 5.5. weeks	
Adult Male	14 - 16 feet	4 - 5 meters	<b>MIGRATION, DIVING, MISCELLANEOUS</b>		
Adult Great White Shark	13 - 20 feet	4 - 6 meters	Deepest dive, female (2012)	5700 feet	
<b>WEIGHT</b>			Average dive depth	1,200 - 2,400 ft	400 - 700 meters
At Birth	60 - 80 lbs	27 - 36 kilograms	Average time	15 - 30 minutes	
Weaning	250 - 330 lbs	110 - 150 kg	Longest dive	2 hours	
Super Weaners	400 - 600 lbs	180 - 270 kg	Breathing interval at surface	2 - 3 minutes	
Adult female immediately post-partum	900 - 1700 lbs	400 - 770 kg	Avg linear distance per migration-male	7,500 -12,000miles	12070-19310 km
Adult males at breeding arrival	3000 - 5000 lbs	1400 - 2300 kg	Avg linear distance per migration-female	6,500-10,000 miles	10,460-16,090 km
Adult female at departure	500 - 1000 lbs	230 - 450 kg			
Adult male at departure	2000 - 3300 lbs	900 - 1500 kg	Rates of travel – per day	45 - 65 miles/day	70 - 100 km/day
<b>LIFE EXPECTANCY</b>			Rate of travel – per hour	2 - 3 miles/hour	3 - 5 km/hour
Male	14 years or more		Swimming speed	4 - 6 miles/hour	7 - 8 km/hour
Female	23 years or more		Speed on land (Short burst)	8 mph	13 kph
Survival rate from birth to 1 year	55%		Surfacing heart rate	80 - 125 BPM	
			Diving heart rate	25 - 40/can drop to 3 - 4 for short periods	
Survival rate from birth to 4 years	30%		Land heart rate–Apnea (non-breathing)	35 - 55 BPM	
Average pup mortality at PB	5 - 15%		Land heart rate – Eupnea (breathing)	85 - 95 BPM	
<b>MATURITY</b>			Blood -adult female 21% of mass	22 - 40 gallons	85 - 150 liters
Age of sexual maturity - males	5 - 6 years		Blood -adult male 21% of mass	75 - 125 gallons	285 - 475 liters
Age of sexual maturity - females	2 - 3 years		Thickness of blubber - adult male	0 - 6 inches	7.6 - 15.2 cm
Age of physical maturity - males	8 - 9 years		Core temperature	~100 F	~38 C
Age of Physical maturity - females	5 - 6 years		Avg time of sleep apnea	8-10 minutes	
Age of Alpha Males	10 - 12 years		Maximum length of sleep apnea	25 minutes	
Gestation	11 months		Avg weight gain/day at sea – lge male	15 lb	7 kg
Gestation - Attachment Period	7 - 8 months		Avg weight gain/day at sea –lge female	3 lb	1.5 kg
<b>WEIGHT LOSS</b>					
Breeding season rate - males	8 - 12 lbs/day	3 - 6 kg/day			
Breeding season rate - females	16 lbs/day	7 kg/day	Number of teeth	30	
Breeding season total - males	35% of body weight		Canine Tooth (exposed) - male	1-2 inches	2.5-5 cm
Breeding season total - females	30 - 40% of body weight		Canine Tooth (exposed) – female	1 inch	2.5 cm
Weaners on shore	30% weaning weight		Length of proboscis on adult male	2 - 2.5 feet	0.6 - 0.8 meters
Molt season rate-females	6 lbs/day	3 kg/day	Length of penis (baculum)	1 foot	0.3 meters