Northern Elephant Seal Fact Sheet		
Ano Nuevo State Reserve	**Imperial**	**Metric**
Total population of Northern eseal	175,000	175,000
Año Nuevo population	10,000	10,000
Peak population at A.N. at any one time	5,000	5,000
Population at time of genetic bottleneck	20-100	20-100
Length		
At birth	3-4 feet	0.9-1.2 meters
Weaner	4.5 feet	1.4 meters
Adult female	8 - 12 feet	2.5-3.5 meters
Adult male	14-16 feet	4-5 meters
Adult Great white shark	13-20 feet	4-6 meters
Weight		
At birth	60-80 pounds	27-36 kilograms
Weaning	250-330 pounds	113-150 kilograms
Super weaners	400-600 pounds	181-272 kilograms
Adult female immediately post-partum	900-1700 pounds	400-770 kilograms
Adult males at breeding arrival	3,000 - 5,000 pounds	1360 - 2270+ kg.
Heaviest male	5400 pounds	2455 kg.
Adult female at departure	450 - 1000 pounds	200 - 400 kg.
Adult male at departure	2000 - 3300 pounds	900 - 1500 kg.
Life Expectency		
Male maximum	14 years	14 years
Female maximum	21 years	21 years
Survival rate from weaning to 1 year	50%	50%
Survival rate from weaning to 4 years	20%	20%
Average pup mortality on A.N. mainland	7-11%	?
Sexual Maturity		
Age of sexual maturity - males	5-6 years	5-6 years
Age of sexual maturity - females	3 years	3 years
Age of physical maturity - males	8-9 years	8-9 years
Breeding age of males	10-12 years	10-12 years
Gestation	11 months	11 months
Active gestation	7-8 months	7-8 months
Weight loss		
Breeding season rate - males	8-12 pounds/day	3.5-5.5 kg/day
Breeding season rate - females	16.5 pounds/day	7.5 kg/day
Breeding season total - males	30% of body weight	30% of body weight
Breeding season total - females	30-40% of body weight	30-40% of body weight

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	Imperial	Metric
Weaners on shore	30% of weaning weight	30% of weaning weight
Molt season rate-females	6.5 pounds/day	3 kg/day
Nursing & Milk Fat		
Fat in elephant seal milk	10-55%	10-55%
Fat in human milk	Avg. 4%	Avg. 4%
Fat in cow milk	Avg. 3-4%	Avg. 3-4%
Whipping cream	36%	36%
Clotted cream	55%	55%
Rate of weight gain of nursing pup	8-10 pounds/day	3.5-4.5 kilograms/day
Length of nursing	24-28 days	24-28 days
Time of weaners onshore after weaning	8-10 weeks	8-10 weeks
Age of natal pelage molt	4-6 weeks	4-6 weeks
Length of molt haulout	4.5 - 5.5 weeks	4.5 - 5.5 weeks
Migration & Diving		
Deepest dive (female)	5,432 feet	1656 meters
Average dive depth	1,200-2,400 feet	400-800 m
Average time	15-30 minutes	15-30 minutes
Longest dive	2 hours	2 hours
Breathing interval at surface	2-3 minutes	2-3 minutes
Average linear distance per migration - males	6,200-7,500 miles	10,000-12,000 km
Average linear distance per migration - females	4,000-7,600 miles	6,300-12,200 km
Total distance of female migration (including dives) (multiply r distance by ~1.65)	6270 - 12540 miles	10,400 - 20,100 km
Number of migrations per year	2	2
Rate of linear travel - males	55-65 miles/day	90-103 km/day
Rate of linear travel - females	45-57 miles/day	73-91 km/day
Overall rate of linear travel	2-3 miles/hour	3-5 km/hour
Swimming speed	4-5 miles/hour	7-8 km/hour
Speed on land	8 miles/hour (short burst)	13 km/hour (short burst)
Surfacing heartbeat	80-120 bpm	80-120 bpm
Diving heartbeat	25-40, can drop to 5-10 for short periods	25-40, can drop to 5-10 for short periods
Land Heartbeat Apnea	35-55 BPM	35-55 BPM
Land Heartbeat Eupnea	85-95 BPM	85-95 BPM
Liters of blood adult female (~21% of mass)	22 - 40 gallons	85 - 150 liters
Liters of blood adult male (~21% of mass)	75 - 125 gallons	285 - 475 liters
Miscellaneous		
Average thickness of blubber - adult male	1.5 - 3.5 inches	4 - 9 cm
Core Temperature	~100° F	~38° C
Average time of sleep apnea	8 -10 minutes	8 - 10 minutes
Maximun length of sleep apnea	25 minutes	25 minutes
Number of teeth	30	30
Tooth length - male (includes root)	4-6 inches	10-15 cm
Tooth lenth - female (includes root)	3 inches	7.6 cm
Length of proboscis on adult	2-2.5 feet	0.6-0.8 meters
Length of os penis (baculum)	1 foot	0.3 meters

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