Species Fact Sheets

Order: Scientific Name:	Sphenisciforme Aptenodytes fo			Family: Common N	lame:	Spheniscidae Emperor penguir	1	
AZA Management:	□ Green		Yellow	[_ Red	X	None	
<section-header></section-header>				Pho	to (Femal	e):		
NATURAL HISTORY:	:							
Geographic Range:	Europe Africa		Asia Australia		North Ar Other	Circumpolar; e	ween 66 degree	□ es S
Habitat:	Forest Riverine		Desert Montane		Grassl Other	and 🗌 Marine, pelagi	Coastal c.	Х
Circadian Cycle:	Diurnal X	Crepuscular	· 🗆	Nocturnal		ther Click her	e to enter text.	
Cold Tolerance:	To 70° F To 30° F		To 60° F To 20° F		To 50° Other	[°] F □ Likely in excess	To 40° F s of -60o F	
Heat Tolerance:	To 30° F To 110° F	x □ 0	To 50° F ther Op	□ otimal tempe	To 70° rature bel	°F□ low 30 deg F.	To 90° F	
Diet:	Frugivore Nectivore		Carnivore Omnivore		Piscivor Folivore		nsectivore er (Add Below)	
Captive Dietary Needs: Variety of fishes including herring, capelin, sardines and lake smelt. Squid may also be provided.								
Life Expectancy in t	Life Expectancy in the Wild: Male		20-25 y	ears	Fe	males: 20-25 y	/ears	
Life Expectancy in C	Captivity:	Males:	25-35 y	ears	Fe	males: 25-35 y	/ears	

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Age at Sexual Maturity:	Males: 5 years	Fema	ales: 6 years			
Courtship Displays:	"face to face" and " their heads fall, take with a similar ecstat continue to raise the heads to level. Birds patch. "Trios", when develop. Females w	vaddling gait" displays. In a breath and then vocaliz c display. This may be fol ir heads and bill point tov will also arch their heads e two females compete fo ill follow the male with a enguins do not engage in t	hip displays. They exhibit ecstatic, a the ecstatic display, males stop, let e. Receptive females will respond lowed by "face to face" where birds ward the sky, then slower lower their to the side exposing the auricular or the attention of a single male, may "waddling gait" once the pair has mutual preening. Emperor penguin			
Nest Site Description:	after laying and carr to the male. The ma	Emperor penguins do not build nests. Females will pick the egg up immediately after laying and carry the egg on her feet for up to 1 day until she transfers the egg to the male. The male will then support and incubate the egg on top of the feet and within the brood patch until hatching. Chicks are carried on top of the feet after hatching.				
Clutch Size, Egg Description	on: Single egg clutch; lar	ge, white, thick-shelled e	gg.			
Incubation Period: 6	2-65 days	Fledgling Period:	5 months post hatch			
Parental Care:Males only incubate the single egg during the Antarctic winter while females return to sea to forage. Females return at the time of chick hatching in order to relieve the male and feed the chick. Males are able to feed chicks for a short time with a throat secretion or "crop milk" if the female is late. Both parents care for the chick until fledging. Chicks will form crèches at the time when both parents must leave the colony to forage in order to adequately provision the chick.						
Chick Development:	Chicks hatch with a short, silve	ery down and black mask.				
CAPTIVE HABITAT INFORMATION:						
Social Structure in the Wi	i ld: Colonial.					
Social Structure in Captiv	ity: Colonial					
Minimum Group Size:	The AZA Penguin Animal Care (submitted for publication, AZ set a minimum group size of 1 Emperors may benefit from a size for maximum reproductiv In the wild, emperor penguin are skewed towards females.	A, 2014) has 0 birds. Maxim larger group Group e potential. Size:	Limited by space, not behavior. um			

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Compatible in Mixed Species Exhibits:	Yes	Comments:	Has been housed successfully with high- or sub- Antarctic species including macaroni, Gentoo, Adelie, king, chinstrap penguins; and Antarctic shag, Southern black-backed gull, giant petrel.		
Optimal Habitat Size:	Enough space should be provided so they can walk, swim, and perch. Dedicated breeding areas, back of house support are needed. Birds need to be able to avoid or escape any territorial disputes especially during breeding season. Adequate pool space is also important. See Penguin Care Manual minimum standards for water and land size.				
Management Challenges	Emperor penguin breeding is characterized by a strong food drive at the start of the season in preparation for the long winter fasting period during incubation. Emperor penguin food provision should be judiciously monitored during the reproductive cycle to prevent excessive weight gain that may prevent successful copulation. Photoperiod appears to be important for reproductive success. Playback recordings of emperor colonies may help synchronize reproduction when used in conjunction with photoperiod at the start of the breeding cycle in April and May. For optimal success, emperor penguins require colder holding temperatures than other penguin species; therefore they are currently found in only a single AZA institution.				

ADDITIONAL COMMENTS:

Sex can be determined by voice character for both males and females. Sex of chicks may also be determined by acoustic measures.

REFERENCES:

http://seaworld.org/animal-info/animal-bytes/birds/emperor-penguin/

Jouventin, Pierre. (1982). Visual and Vocal Signals in Penguins, their Evolution and Adaptive Characters. Advances in Ethology No. 24, 1-148.

Garcia Borboroglu, P. and Boersma P.D. (Eds.). (2013). Penguins: Natural History and Conservation. Seattle, Washington: University of Washington Press.

Global Penguin Society Species Fact Sheet. www.globalpenguinsociety.org

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