Order: Pelicaniformes Scientific Name: Pelecanus onocrotalus AZA Management: Green Green Yellow Yellow x Red Photo (Male): Image: Image: Image: Vellow Image: Africa X Australia Faraily: Pelicanidae Image: Africa X Porest Image: Forest
Scientific Name: Pelecanus onocrotalus AZA Management: Green Yellow x Red None Photo (Male): Image: The second sec
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Geographic Range: Africa X Australia Other Other N. India. Also resident in Africa S. of the Sahara and at single sites in NW India and S. Viet Nam.
Forest Desert Grassland Coastal X
Habitat:
Riverine X Montane 🗆 Other Rivers, lakes, deltas, estuaries.
Circadian Cycle: Diurnal X Crepuscular 🗌 Nocturnal 🗌 Other Click here to enter text.
Cold Tolerance: To 70° F To 60° F To 50° F To 40° F To 30° F X To 20° F Other Indoor housing recommended in freezing temperatures.
Heat Tolerance:To 30° FITo 50° FITo 70° FITo 90° FTo 110° FXOtherAccess to shade and water.
Diet:Frugivore NectivoreCarnivorePiscivoreXInsectivoreInsectivoreOmnivoreOmnivoreFolivoreOther (Add Below)Insectivore

Captive Dietary Needs:

Fed thawed, frozen fish which are supplemented with vitamin E and thiamin. Feeding more than one species of fish is recommended. Commonly fed fish are trout, smelt, capelin, sardines, mackerel, and herring. The birds are hand-fed their diet in a catch pen. Adults with chicks are fed extra small fish, typically trout and smelt, which increase in size as the chicks grow. Access to live fish encourages natural foraging behaviors. At the Safari Park they have access to Gambusia (a small fish they also feed to their chicks the first few days), perch, and catfish. See management challenges regarding live fish.

			Unkn	own:		Unknown:		
Life Expectancy in th	e Wild:	Males:	Appro years	oximately 50-6	0 Females	s: Approximately 50-60 years.		
Life Expectancy in Captivity:		Males:	Appro years	oximately 50-6	60 Females	Approximately 50-60 years.		
BREEDING INFORMATION:								
Age at Sexual Maturity:		Males:	Typically	3-4 years	Females:	Typically 3-4 years		
Courtship Displays:		Group display, setting to partners, strutting walk and head-up and bow						
Nest Site Description	Colonial nesters. Nest is usually a pile of reeds, sticks, etc. May also nest on bare ground or rocks. In captivity, they have been observed nesting on old Dalmatian Pelican nests. The male collects leaves, small sticks, and dirt by side-shoveling with his bill and presenting the material to the female sitting on the nest.							
Clutch Size, Egg Description:		-	Average 2 eggs (1-3); Oblong chalky white. The eggs get dirty from muddy feet and fecal material during incubation.					
Incubation Period:	29-36 days (Typically 29-3 captivity)		9-31 in	Fledgling	-	Approximately 65-75 days. At 20-25 days the chicks gather into "pods". They fledge into the water at ~35- 45 days old.		
Parental Care:	Both male and female share incubation and chick rearing duties.							
Chick Development:	Chicks are altricial. If two chicks hatch, siblicide is common. See additional comments for suggestions.							
		See References- Sedgwick County Zoo Eastern White Pelican Protocols - 2011 for hand-rearing protocols.						

CAPTIVE HABITAT INFORMATION:							
Social Structure in the Wild: Gregarious							
Social Structure in Captivity: Gregarious							
Minimum Group Size: b	.4 individuals for preeding. 4 for non- preeding.	Only limited by space Maximum Group Size: but keep male to female ratios even.					
Compatible in Mixed Species Exhibits:	Yes Comments:	Best if they have an area they can retreat to where the mammals cannot go. Horned mammals may impale birds.					
Optimal Habitat Size: Large pond with island.							
Management Challenges:	 hallenges: Bumble foot can be a challenge. There are several breeding challenges such as low breeding success, nest disturbances, siblicide, and aggression towards other pelican species during nesting. Their ability to fly even when pinioned is amazing, depending on the exhibit, regular clipping of the pinioned wing may be required to keep them in their enclosure. Live fish such as large catfish may cause severe damage to the pouch. Another challenge is the fish can carry worms which will live in the stomach of pelicans. 						

ADDITIONAL COMMENTS:

More research is needed to increase the breeding success of this species in captivity.

At the San Diego Zoo Safari Park, Great White Pelicans and Dalmatian Pelicans are housed together. Both species are similar in size and nest in the same area at the same time. Nest material choices and nest building activities are different but incubation and chick rearing is very similar. Hand-raised Dalmatian Pelicans are the most successful breeders in the mixed flock at the Safari Park. They sit through most nest disturbances in which the parent raised birds flee the nest area. When keepers process chicks, the birds stay sitting on the nest and the eggs/chicks are easily removed, processed, and replaced. It is likely that hand-raised Great White Pelicans will respond in the same way, possibly increasing breeding success.

With the Great White Pelican, siblicide is common if two chicks hatch. We had one instance of sibling aggression from a 3 day old Dalmatian Pelican chick to its newly hatched sibling. Keepers noticed bruising on the chicks head and back and observed the older chick biting the younger chick. We successfully placed the newly hatched chick back in a cleaned, capped shell and placed it under a foster pair of Dalmatian Pelicans whose egg was infertile. They accepted the egg/chick. It is likely this would also work with Great White Pelicans possibly increasing chick survivability and giving additional pairs experience raising chicks.

In 2014, a Dalmatian Pelican family was being aggressed by other nesting pelicans, they were moved to a holding pen with a small pool to raise their 7 day old chick. Keepers made a nest with sticks on top of a small pallet. The parents were hand-raised birds and adjusted well to the small enclosure. They successfully raised their chick and the family was moved back with the flock. This may also be an option for hand-raised Great White Pelican pairs.

With Great White Pelicans, the breeding knob starts to deflate and the facial skin goes back to pinkishpurple in both the male and female of the pair after the first egg is laid. If they lose their clutch, they will both color up and the knob inflates again which is very helpful to keepers to know when a nest has failed. When the first egg of the new clutch is laid the knob deflates and facial color changes again.

Hand-feeding the flock in a catch pen gives the keeper a good look at each bird daily and the opportunity to get hands-on if necessary without causing disturbance to nesting birds.

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8/15/2014