

## **GAP ANALYSIS OF BROWSE PROVISION AT SAN DIEGO ZOO GLOBAL**

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### **Abstract**

At San Diego Zoo Global (SDZG), for many herbivorous species, browse is integral to the opportunity for a thoughtfully presented well-balanced diet; one of the guiding welfare Opportunities to Thrive. However, like many institutions, SDZG struggles to provide adequate browse for its herbivore collection as revealed by a gap analysis of browse provision in 2018. Daily browse proportion as indicated by animal diet sheets was compared to browse harvested and delivered by the Horticulture Browse Department. Dietary proportion was assessed as: Essential (more than 50% of the diet), High (less than 50% of the diet and scheduled to receive daily), Medium (less than 50% of the diet and not scheduled daily), or Low (variable and no scheduled days). Browse provision by the Browse Department was classified into three categories: no browse delivery, browse delivered below dietary proportion, or browse delivered at or above dietary proportion. The curatorial team was polled to provide additional feedback on dietary proportion assessment, browse delivery assessment, species priority, and supplementary browse (keeper cut) provided. Initial findings indicate that the Browse Department provides 42% of browse required by animals in the Essential and High designations. The largest gap in browse provision was identified in the supply to hoofstock at the San Diego Zoo Safari Park. More than 50,000 feet of browse per week are required to meet current diet sheet proportions. Moving forward the target for Horticulture Browse Department provision is to meet 100% of current collection needs and have a 10 to 20% buffer to allow for adaptability to collection changes.

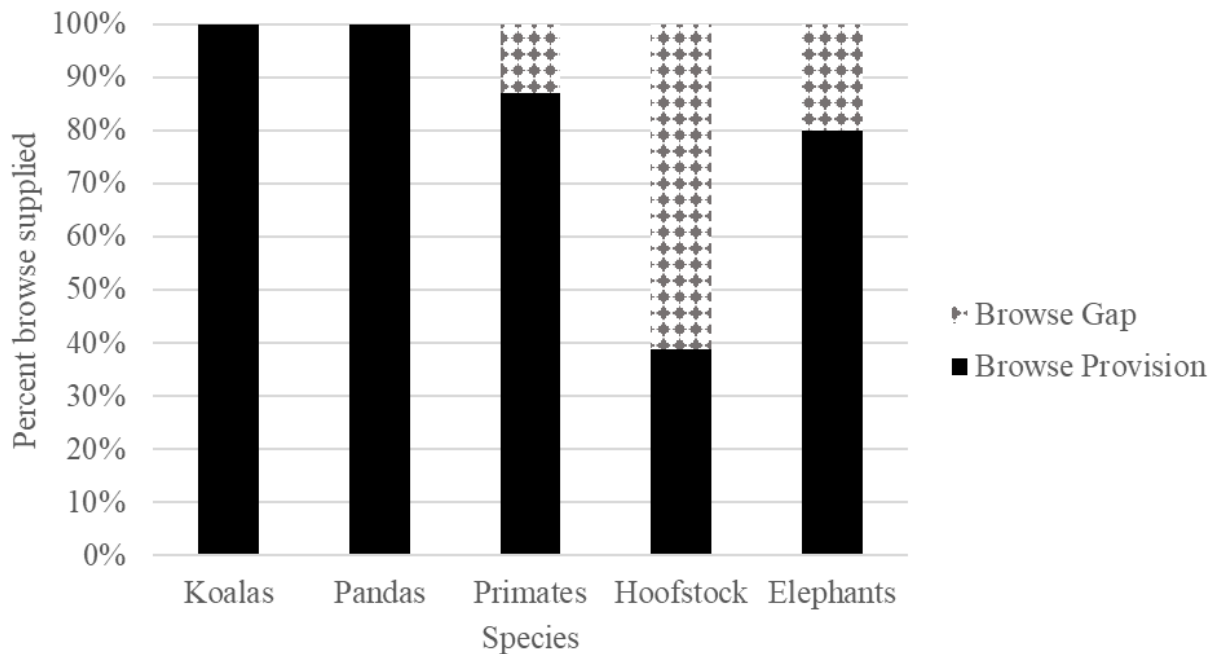
**Table 1.** Dietary proportion assessment of species which include browse on diet sheet housed at the San Diego Zoo and the San Diego Zoo Safari Park.

<b>Location<sup>1</sup></b>	<b>Common Name</b>	<b>Proportion<sup>2</sup></b>	<b>Scheduled Days per Week</b>
SDZ	Common Ringtail	Essential	7
SDZ	Giant Panda	Essential	7
SDZ	Koala	Essential	7
SDZ-SP	Addra Gazelle	High	7
Both	African Elephant	High	7
SDZ	American Beaver	High	7
SDZ	Angolan Colobus	High	7
SDZ	Asian Elephant	High	7
SDZ	Baird's Tapir	High	7
SDZ-SP	Black Rhinoceros	High	7
SDZ-SP	Bongo	High	7
SDZ	Bonobo	High	7
SDZ	Coquerel's Sifaka	High	7
Both	Eastern Black-and-white Colobus	High	7
SDZ	Francois' Langur	High	7
SDZ	Gelada Baboon	High	7
Both	Gerenuk	High	7
Both	Giant Eland	High	7
Both	Giraffe	High	7
SDZ-SP	Lowland Nyala	High	7
SDZ	Malayan Tapir	High	7
SDZ-SP	Matschie's Tree Kangaroo	High	7
Both	Okapi	High	7
SDZ	Red Panda	High	7
SDZ-SP	Red-necked Wallaby	High	7
SDZ	Royal Antelope	High	7
SDZ	Siberian Musk Deer	High	7
SDZ	Silvery Langur	High	7
SDZ	Sumatran Orangutan	High	7
Both	Tufted Deer	High	7
Both	Western Gorilla	High	7
SDZ-SP	Western Grey Kangaroo	High	7
SDZ	Chacoan Peccary	Medium	3
SDZ	Klipspringer	Medium	3
Both	Palm Cockatoo	Medium	2
Both	Black Duiker	Low	
SDZ	Bush Hyrax	Low	
Both	Cape Porcupine	Low	
Both	Great Blue Turaco	Low	

Both	Great Indian Rhinoceros	Low
SDZ	Ground Cuscus	Low
SDZ-SP	Indian Muntjac	Low
Both	Kirk's Dik-dik	Low
SDZ	Lesser Kudu	Low
Both	Linnaeus's Two-toed Sloth	Low
Both	North Sulawesi Babirusa	Low
SDZ	Parma Wallaby	Low
Both	Pronghorn	Low
SDZ	Red-cheeked Gibbon	Low
SDZ	Red-collared Lemur	Low
Both	Red-flanked Duiker	Low
SDZ-SP	Roan Antelope	Low
SDZ	Rock Hyrax	Low
SDZ-SP	Southern Lechwe	Low
SDZ-SP	Southern Pudu	Low
SDZ-SP	Steenbok	Low
SDZ	Takin	Low
Both	Yellow-backed Duiker	Low
SDZ	Yellow-footed Rock Wallaby	Low

<sup>1</sup>SDZ, San Diego Zoo; SDZ-SP, San Diego Zoo Safari Park.

<sup>2</sup>Essential, more than 50% of the diet; High, less than 50% of the diet and scheduled to receive daily; Medium, less than 50% of the diet and not scheduled daily; Low, variable and no scheduled days.



**Figure 1.** Current browse provision of predominant browse consumers supplied at San Diego Zoo Global (SDZG) by the Horticulture Browse Department.