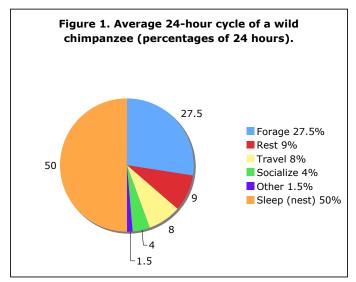
What chimpanzees do?



Linda Brent: the care and management of captive chimpanzees

SLEEP/REST and NEST BUILDING

Chimpanzees spend more than half of their life sleeping and resting. They mostly sleep (50%) overnight and rest (9%) for some time during the day.

Chimpanzees rest in incredible heights (30-50") up in the canopy:





http://www.youtube.com/watch?v=Olbrzuz2ot0&feature=related
http://www.youtube.com/watch?v=VoiUtT0TslE&feature=related

In captivity chimpanzees should at least be provided with:

Elevated structures





Sleeping platforms







Hammocks











Hilda Tresz

Substrates.

If elevated structures cannot be provided, substrates need to be added on grounds for nest building. Please compare resting without and with substrate:















Shredded paper



Excelsion





Hilda Tresz



Clothing http://www.youtube.com/watch?v=g_26CNOoQBo&NR=1







Hay/Straw



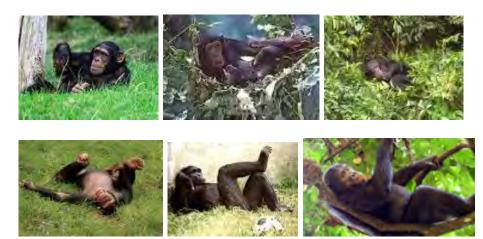


http://www.youtube.com/watch?v=ESuhHW7jeuA&feature=related

Dry leaves



Natural soil and vegetation



FORAGING and diet for captive chimpanzees

What is foraging? Foraging doesn't equal eating!!!!!!!!!! Foraging is one of the most frequently found species-typical and time-consuming behaviors. Is a time consuming event (27.5% overall) involving:

- > Searching for
- > Retrieving or acquiring
- > Processing food



In the wild chimps are mainly fruit eaters, plus leaves, pith, seeds, flowers, insects and meat.

In captivity

What should be in the diet?

Diet usually contains less carbohydrates and fiber in captivity.

- Fruit (apples, oranges, melons, bananas, mangos, berries, etc.)
- Vegetables (cabbages, lettuces, cucumbers, carrots, yams, sweet potatoes, celery, etc.)
- Browse (mulberry, willow, bamboo, tipu, sugar cane, carob, elm, pine, acacia, mesquite, sissoo, salt seeder, palm fronds, etc.)
- Commercial primate diet (monkey chow)
- Herbs (basil, catmint, lavender, rosemary, etc.)
- Seeds (milo, rice, popcorn, parrot mix, sunflower, nuts, etc.)
- Insects (mealworms, wax worms, super worms, grasshoppers, crickets, etc.) and invertebrates

Mealworms



Super worms



http://www.wormman.com/cat superworms.cfm

Earth worms



http://en.wikipedia.org/wiki/Earthworm

Snails



http://en.wikipedia.org/wiki/Snail

- Eggs (chicken, quail, duck, etc.)
- Milk products (milk, powdered milk, yogurt, etc.)

- Fruit juice
- Vitamins and minerals
- Grains (bread, cereals, etc.)

How to make chimpanzees forage for the longest time?



No...... not like this! But, by teaching them to "work for their food" (contra freeloading).

To promote psychological well being it is <u>not</u> sufficient to merely provide a nutritionally adequate diet.

Diet distribution is one the most important part of foraging. Chimpanzees spend the largest proportion of their waking day with foraging (Gombe 47-60%; Thai 54%; Mahale 30%)

- <u>Increased feeding times (</u>4-5 times per day).
- <u>Chopped up diet scattered</u> in floor, but not diced as small that the chimps would not bother gathering them
- Substrate use for hiding diet





http://www.youtube.com/watch?v=tl3KD3Uf9QM&feature=related

• <u>Browse</u> is one of the most important elements of foraging. It extends foraging time to hours, provides fiber and practically has no calories. It is also the best element for nest building.





• Foraging devices are range from feeder boxes, acrylic food puzzles feeders, to various shaker boxes, toys and peg boards placed outside enclosures where food has to be manipulated with "tools" to pull it through the peg maze. Foraging devices can be made more complex by suspending them. Different species, age groups, and individuals may prefer different types of foraging devices (C. Wattson 1997). Not all foraging devices are effective in a given situation (Lutz and Farrow 1996), and facilities may need to try several methods. Sometimes devices could be as simple as cardboard/cereal boxes, etc., paper towel tubes, plastic barrels, boomer ball feeders, bucket feeders, home made puzzle feeders such as mesh feeders or purchased plastic and metal feeders.



















• Tool use

Chimpanzees have incredible motor skills and learning abilities. They can use tools and even make tools.

Simple vs. complicated

Instead of trying to create fancy looking foraging devices, staff should consider the chimpanzees' natural behaviors and enrich them in simple, logical ways.

Stick + Plastic container= Free cognitive enrichment that even an infant can use!













- <u>Varied the feeding schedules.</u> Feeding times should be unpredictable to reduce inactivity.
- <u>Varied the locations</u> (food on the grounds, on the trees, behind furniture's, in substrate, etc.)
- Hunting. Chimpanzees are active hunters.
 http://notexactlyrocketscience.wordpress.com/2007/03/01/chimpanzees-make-spears-to-hunt-bushbabies/

http://arkive.org/chimpanzee/pan-troglodytes/video-sc08d.html





Crickets/locus, etc.



http://en.wikipedia.org/wiki/Cricket (insect)

Locomote

Climbing structures:

- Vertical swing ropes
- Tree trunks





Ropes



• Swings



• Tires and tire swings



Socialize

Other behaviors

