OTHER APPROVED ORANGUTAN ENRICHMENT:

TRASHCANS      PAINTS
TEACHER PAPER   TV/ RADIO
BOOMER BALLS    YELLOW PAGES
LARGE PLASTIC BARREL  BLACK TUBS
TREAT STAND     MIRROR
HOLLIE ROLLER BALLS  HOLTZRUGELS
PVC CUPS        TRASHCAN LIDS
REGISTER TAPE   JELLO
CARDBOARD BOXES
PAPER TOWELS
MILKCRATES
<table>
<thead>
<tr>
<th></th>
<th>Sunday</th>
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<th>Tues</th>
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</thead>
<tbody>
<tr>
<td>A.M. FOOD</td>
<td>Juicers</td>
<td>Bleach bottles</td>
<td>FP chips pasta</td>
<td>Jello boards and</td>
<td>FP shavings &amp;</td>
<td>Large ice treats</td>
<td>FP BOC &amp; dry mix</td>
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<tr>
<td></td>
<td></td>
<td>on cagefront w/</td>
<td></td>
<td>balls</td>
<td>rice crispy or</td>
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<td></td>
<td></td>
<td>dry koolaid</td>
<td></td>
<td></td>
<td>cherios</td>
<td></td>
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</tr>
<tr>
<td>EXHIBIT</td>
<td>Crickets</td>
<td>Dry koolaid</td>
<td>Scatter pasta</td>
<td>Scatter rice</td>
<td>Scatter rice</td>
<td>Large ice treat</td>
<td>Ball w/spices &amp; dry mix</td>
</tr>
<tr>
<td></td>
<td>Sticks</td>
<td></td>
<td></td>
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<td>crispy or</td>
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<td></td>
<td></td>
<td>cherios</td>
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<tr>
<td>P.M. NON FOOD</td>
<td>Clothes &amp;</td>
<td>Bird paper</td>
<td>TV SUPERbeds - 1</td>
<td>PVC pieces</td>
<td>Spoons if</td>
<td>Scents &amp; heat lamp</td>
<td>Water</td>
</tr>
<tr>
<td></td>
<td>blankets</td>
<td></td>
<td>bale woodwool</td>
<td>ferret logs only</td>
<td>available TP</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Keeper play</td>
<td></td>
<td>choose cage</td>
<td>for BSMD</td>
<td></td>
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<tr>
<td></td>
<td>time</td>
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</tr>
<tr>
<td>P.M. FOOD</td>
<td>Popcorn</td>
<td>Crickets</td>
<td>Small ice treat</td>
<td>Yogurt 1 cup per</td>
<td>Alfalfa</td>
<td>Raisins on floor</td>
<td>All– U-Can Drink</td>
</tr>
<tr>
<td></td>
<td>(make extra</td>
<td></td>
<td></td>
<td>group</td>
<td></td>
<td>outside cage</td>
<td>Koolaid</td>
</tr>
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<td>for ASH)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Worms</td>
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</tr>
<tr>
<td>STARCH</td>
<td>Bread</td>
<td>Pasta</td>
<td>Corn cob</td>
<td>Rice</td>
<td>Sweet potato</td>
<td>Corn</td>
<td>Dry Mix</td>
</tr>
<tr>
<td>PREP WORK</td>
<td>Mk small ice</td>
<td>Sub zupreem chow for 5038 Remove cups &amp; containers</td>
<td>Make jello boards and balls</td>
<td>Make large ice treats</td>
<td>sub 1/4 chow for Raisin Bran Remove spoons</td>
<td>Pop popcorn for Morning &amp; ASH</td>
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</tr>
<tr>
<td></td>
<td>treats</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>CALENDAR</td>
<td>Traps USDA 5</td>
<td>✓ Hay</td>
<td>✓ F.O.</td>
<td>✓ Cooler Remember to order enough timothy for whole week on exhibit</td>
<td>Straighten B.E. area Traps</td>
<td>Food order Rinse cooler if dirty Defrost 1 bag of corn</td>
<td>USDA 1 &amp; 2 Leave cup &amp; note on log to bring up worms in a.m.</td>
</tr>
<tr>
<td>FOOD ORDER FOR WEEK 1</td>
<td></td>
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<tr>
<td>Order 1 bag of substrate for each substrate day unless bin is less than ½ full, then order 2 bags.</td>
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</tr>
<tr>
<td>2 wood wool (week 1&amp;2)</td>
<td>1 bags bark chips(week 1)</td>
<td>1 Shavings (Week 1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>bed o cobs (week1)</td>
<td>rice (week 1 and 2)</td>
<td>6 rolls TP (week 1)</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>1 box Post Raisin Bran (week 1)</td>
<td>1 extra yogurt (week 1)</td>
<td></td>
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<tr>
<td>Play time ideas – dancing, singing, spray koolaid in mouth, sweet talking, showing novel objects, bubbles</td>
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</tbody>
</table>
**Easier Orangutan Enrichment Rotation Week 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tues</th>
<th>Wed</th>
<th>Thurs</th>
<th>Friday</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.M. FOOD</strong></td>
<td>FP woodwool &amp; popcorn</td>
<td>Dry Jello</td>
<td>FP chips &amp; Rice crispy or cherios</td>
<td>Juicers</td>
<td>Jello boards &amp; balls</td>
<td>Large ice treat</td>
<td>FP chips &amp; pasta</td>
</tr>
<tr>
<td><strong>EXHIBIT</strong></td>
<td>Woodwool and worms</td>
<td>Dry jello</td>
<td>FP chips &amp; rice crispy or cherios</td>
<td>Keeper choice</td>
<td>Alfalfa</td>
<td>Large ice treat</td>
<td>Applesauce on branches</td>
</tr>
<tr>
<td><strong>P.M. NON FOOD</strong></td>
<td>Clothes and blankets (tie sheets on cage furniture)</td>
<td>TV</td>
<td>Do in a.m. Switch moveable items p.m. mirrors</td>
<td>Shredded paper</td>
<td>Mulch in tubs</td>
<td>Cups and containers</td>
<td>Water Tires (hung or loose)</td>
</tr>
<tr>
<td><strong>P.M. FOOD</strong></td>
<td>Cooked rice or bread worms</td>
<td>crickets</td>
<td>Yogurt 1 cup per group</td>
<td>FP w/ shavings &amp; enrich bits</td>
<td>Scatter sunflower seeds (1 c. per group)</td>
<td>Bimples</td>
<td>Applesauce 1 can per group</td>
</tr>
<tr>
<td><strong>STARCH</strong></td>
<td>Cooked rice</td>
<td>Pasta</td>
<td>Corn cob</td>
<td>Sweet Potato</td>
<td>Dry mix</td>
<td>Corn</td>
<td>Pasta</td>
</tr>
<tr>
<td><strong>PREP WORK</strong></td>
<td>Cook rice Remove PVC</td>
<td>Sub 5ma4 chow for 5038 Shredded paper</td>
<td>Make large ice treats</td>
<td>Make jello boards &amp; balls</td>
<td>sub 1/4 enrich bits for chow amount</td>
<td>Locate newspaper</td>
<td>Acquire 9 phone books Gather browse</td>
</tr>
<tr>
<td><strong>CALENDAR</strong></td>
<td>Traps USDA 9</td>
<td>✓ Hay</td>
<td>✓ F.O.</td>
<td>Traps Straighten B.E. area</td>
<td>Food order USDA 4</td>
<td>USDA 1 Rinse cooler if needed</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>✓ Cooler</td>
<td></td>
<td></td>
<td>Defrost 1 bag of corn</td>
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</tr>
</tbody>
</table>

**FOOD ORDER FOR WEEK 2**
Order 1 bag substrate for each substrate day unless bin is less than ½ full, then order 2 bags
2 extra yogurt (week 2) 3 extra applesauce (week 2) bark chips (week 2)
8 bimples (week 2) shavings (week 2) Dry mix (week 2)
### Orangutan Enrichment Rotation Week 3

<table>
<thead>
<tr>
<th></th>
<th>Sunday</th>
<th>Monday</th>
<th>Tues</th>
<th>Wed</th>
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<th>Friday</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.M. FOOD</strong></td>
<td>Browse</td>
<td>Dry koolaid in bleach bottles on cagefront</td>
<td>FP BOC seeds 1C. per group 2 T. each M&amp;B</td>
<td>Jello</td>
<td>Juicers with 2x dilute OJ</td>
<td>Large ice treat</td>
<td>FP shavings rice crispy or cherios</td>
</tr>
<tr>
<td><strong>EXHIBIT</strong></td>
<td>browse</td>
<td>Juicer in hose hole</td>
<td>scatter 1 cup seeds</td>
<td>Spices on exhibit</td>
<td>Sheets</td>
<td>Large ice treat</td>
<td>FP shavings rice crispy or cherios</td>
</tr>
<tr>
<td><strong>P.M. NON FOOD</strong></td>
<td>PVC pieces (ferret logs only for BSMD)</td>
<td>Burlap from clothes barrel 2-pp, 1-m/b, 2-bsmd</td>
<td>Newspaper</td>
<td>Bird Paper</td>
<td>TV TP or phone books</td>
<td>Crib toys</td>
<td>Water &amp; bird mister</td>
</tr>
<tr>
<td><strong>P.M. FOOD</strong></td>
<td>Popcorn with dry koolaid (make for ASH too)</td>
<td>Alfalfa</td>
<td>Crickets Dry koolaid on cage front</td>
<td>FP bark with raisin bran</td>
<td>Hard shelled nuts</td>
<td>Frozen yogurt cubes</td>
<td>Bimples</td>
</tr>
<tr>
<td><strong>STARCH</strong></td>
<td>Bread</td>
<td>Cooked pasta</td>
<td>Corn cob</td>
<td>Sweet Potato</td>
<td>Rice</td>
<td>Corn</td>
<td>Puffed rice</td>
</tr>
<tr>
<td><strong>PREP WORK</strong></td>
<td>Bring 1 juicer &amp; koolaid to office Remove mulch in tubs</td>
<td>Cook pasta Remove cups and containers Sub zupreem chow for 5038</td>
<td>Remove tires Make large veggie ice treats</td>
<td>Freeze yogurt cubes use 1 cont. Remove PVC</td>
<td>Sub 5ma4 chow for 5038</td>
<td>Make jello with small pvc pieces</td>
<td></td>
</tr>
<tr>
<td><strong>CALENDAR</strong></td>
<td>Traps USDA 10</td>
<td></td>
<td>Straighten B.E. area</td>
<td>USDA 8</td>
<td>Food order USDA 6 Defrost 1 bag of corn</td>
<td>USDA 1 &amp; 2 Rinse cooler if needed</td>
<td></td>
</tr>
</tbody>
</table>

**FOOD ORDER FOR WEEK 3**
Order 1 bag of substrate for each substrate day unless bin is less than ½ full, then order 2 bags.

- shavings (week 3) 5 burlap bags
- bed o cobs (week 3) 2 bags hard shelled nuts (week 3)
- 4 QT. OJ (week 3) 1 extra yogurt (week 3) 8 bimples (week 3)
- Rice

*Remember to order enough timothy for whole week on exhibit!*
### Orangutan Enrichment Rotation Week 4

<table>
<thead>
<tr>
<th></th>
<th>Sunday</th>
<th>Monday</th>
<th>Tues</th>
<th>Wed</th>
<th>Thurs</th>
<th>Friday</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A.M. FOOD</strong></td>
<td>Jello in small PVC pieces</td>
<td>Juicers with Koolaid</td>
<td>FP BOC &amp; dry mix</td>
<td>FP shavings &amp; pasta</td>
<td>Large ice treats</td>
<td>Yogurt on cage front 1 cup per group</td>
<td>FP chips rice crispy or cherios</td>
</tr>
<tr>
<td><strong>EXHIBIT</strong></td>
<td>Alfalfa</td>
<td>Crickets</td>
<td>Scatter dry mix</td>
<td>FP shavings &amp; pasta</td>
<td>Large ice treats</td>
<td>Yogurt on branches</td>
<td>Scatter rice crispy or cherios</td>
</tr>
<tr>
<td><strong>P.M. NON FOOD</strong></td>
<td><strong>Do in AM</strong></td>
<td>Clothes &amp; blankets</td>
<td>Boxes &amp; spices</td>
<td>Nuts and bolts toys Fan</td>
<td>Scents or fresh herbs</td>
<td>Heat lamp and space heaters</td>
<td>Water Pickle buckets</td>
</tr>
<tr>
<td><strong>P.M. FOOD</strong></td>
<td>Popcorn (extra for ASH) Worms</td>
<td>Peanut butter on walls outside cagefront (sticks)</td>
<td>Koolaid powder or ketchup in forage tubes onion sub</td>
<td>Honey on cagefront</td>
<td>Alfalfa Browse</td>
<td>Small ice treats</td>
<td>Dry Koolaid in socks</td>
</tr>
<tr>
<td><strong>STARCH</strong></td>
<td>Bread</td>
<td>Dry mix</td>
<td>Corn cob</td>
<td>Pasta</td>
<td>Cooked Rice</td>
<td>Corn</td>
<td>Sweet potato</td>
</tr>
<tr>
<td><strong>PREP WORK</strong></td>
<td>Locate sticks (in shrew) Leave cup and cricket note on log for a.m. Gather browse</td>
<td>Remove crib toys Make large ice treats</td>
<td>Sub 5ma4 chow for 5038 Make small ice treats- double dilute nectar</td>
<td>Cook Rice Locate socks</td>
<td>Make jello balls Sub apple hi-fiber for 5038</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CALENDAR</strong></td>
<td>Traps USDA 5</td>
<td>✔️ Hay ✔️ F.O. ✔️ Cooler Remember to order enough timothy for whole week on exhibit!</td>
<td>USDA 3 &amp; 4 Traps Straighten B.E. area</td>
<td>Food order Rinse cooler if dirty Defrost 1 bag of corn</td>
<td>USDA 1 Ck capture equip and bull horn</td>
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</tr>
</tbody>
</table>

### FOOD ORDER FOR WEEK 4
Order 1 bag of substrate for each substrate day unless bin is less than ½ full, then order 2 bags.
- Spices (week 4) 1 extra alfalfa bark chips (week 4) 2 extra yogurt (week 4)
- Shavings (week 4) bed o cobs (weeks 4) onion sub on Tuesday (reduce cucumber to 2.5 lbs, order 2 lbs onion)

Play time ideas – dancing, singing, spray koolaid in mouth, sweet talking, showing novel objects, bubbles
# Orangutan Enrichment Rotation Week 5

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<thead>
<tr>
<th></th>
<th>Sunday</th>
<th>Monday</th>
<th>Tues</th>
<th>Wed</th>
<th>Thurs</th>
<th>Friday</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.M FOOD</td>
<td>Jello balls</td>
<td>Bleach bottles on cagefront with dry koolaid</td>
<td>FP wood wool &amp; dry mix</td>
<td>Juicers with Kool-aid</td>
<td>FP chips rice</td>
<td>Small ice treats</td>
<td>FP shvngs rice crispy or cherios</td>
</tr>
<tr>
<td>EXHIBIT</td>
<td>Alfalfa</td>
<td>Juicer in hose hole</td>
<td>Forage ball with spices &amp; dry mix</td>
<td>Sheets/clothes</td>
<td>Scatter rice</td>
<td>Small ice treats</td>
<td>Scatter rice crispy or cherios</td>
</tr>
<tr>
<td>PM NON FOOD</td>
<td>TV/VCR</td>
<td>Crib toys</td>
<td>Clothes and blankets (tie sheets on cage furniture)</td>
<td>Water</td>
<td>Spices Nature CD, low lights, incense (over lunch)</td>
<td>Cups and containers</td>
<td>Fan dustpans= keeper choice</td>
</tr>
<tr>
<td>PM FOOD</td>
<td>Popcorn(make extra for ASH) Worms</td>
<td>Alfalfa</td>
<td>Forage tubes w/honey 2T each</td>
<td>Crickets</td>
<td>Double dilute nectar cubes</td>
<td>Bimples</td>
<td>Raisin phone books</td>
</tr>
<tr>
<td>STARCH</td>
<td>Bread</td>
<td>Dry mix</td>
<td>Corn cob</td>
<td>Sweet potato</td>
<td>Rice</td>
<td>Corn</td>
<td>Pasta</td>
</tr>
<tr>
<td>PREP WORK</td>
<td>Bring 1 juicer/koolaid to office for a.m. Remove pickle buckets</td>
<td>Remove nuts &amp; bolts toys</td>
<td>Get phone books Sub zupreem chow for 5038</td>
<td>Make double dilute nectar cubes and small ice treats</td>
<td>Remove crib toys</td>
<td>Sub 5ma4 chow for 5038</td>
<td>Locate sticks (in shrew) Leave cup and cricket note on log for a.m.</td>
</tr>
<tr>
<td>CALENDAR</td>
<td>Traps USDA 7</td>
<td>✓ Hay ✓ F.O. ✓ Cooler Remember to order enough timothy for whole week on exhibit!</td>
<td>Straighten B.E. area</td>
<td>Check safety of all rope and cage furniture.</td>
<td>Food order Rinse cooler if dirty Defrost 1 bag of corn</td>
<td>USDA 1</td>
<td></td>
</tr>
</tbody>
</table>

### FOOD ORDER FOR WEEK 5
Order 1 bag of substrate for each substrate day unless bin is less than ½ full, then order 2 bags.
8 bimples (week 5) 1 extra wood wool (week 5) shavings (week 5) bark chips (week 5) Bird paper (week 1)
Great Ape Enrichment
Denver Zoo

All toys are rotated daily.
Food enrichment is presented twice a day. Calorie rich items are restricted to twice a week for orangutans. We try to have a minimum of 2 days between items.

Dayroom and Yard
Alfalfa
Black kong-fillers (frozen jello, frozen bran, frozen chow, frozen jello and popcorn, frozen oatmeal)
Brown boomer ball
Browse
Bubble bath (children's)
Burlap smeared with applesauce, jello
Cube with holes – fill with diet items
Essential oils
Forage-cereal, pasta, wheat, rice, Zupreem (peanuts, primate o’s, monkey crunch), frozen peas, green beans, frozen corn
Frozen applesauce cups
Frozen bran cups
Frozen chow balls
Frozen jello
Frozen juice
Frozen koolade
Frozen pudding cups
Frozen smoothie cups
Green or brown spool
Grey PVC pipes stuffed with frozen popcorn and jello
Hanging popsicles
Koolade jugs
Large marble boomer ball
Large marble jug
Large open disc
Marble barrel
Marble forage barrel
Marble pill
Marble spinner with holes-fill with diet items
Mirror
Natural logs with filler (same as kongs)
Novel food
Perfume
Small marble jug
Small open disc
Treat boards with filler (applesauce, jello, oatmeal)
Yogurt

Contact information: Orangutan keepers- rpietsch@denverzoo.org, cgunther@denverzoo.org
Great Ape Enrichment Holding Area
Denver Zoo

For further information, please contact rpietsch@denverzoo.org or cgunther@denverzoo.org.

Alfalfa
Apple jungle
Applesauce
Barrels
Boomer balls
Broom
Browse
Brush
Bubble bath
Bubbles
Bungee cord
Burlap
Burlap bags
Cardboard
Cargo nets
Cereal
Chalk
Clothing
Coconuts
Combs
Computer
Corn jungle
Crayons
Decaf teas
Deep rock bottles
Edible nylabones
Fabric
Feed tubs
Fishing pipes
Frozen bran cups
Frozen chow balls
Frozen jello & popcorn
Frozen juice
Frozen koolade
Fruit juice
Grass hay
Herbs
Honey
Hose water
Jam/jelly sugar free
Jello
Kiddy pool
Kongs
Koolade
Magazines
Milk crates
Minnows
Mirror
Mixed nuts
Mulch
Musical instruments
Non toxic paint
Nuts
Oatmeal
Onion bags
Operant conditioning
Paper products
Pasta
Peanuts
Phone books
Piñata
Pine cones
Plastic containers
Plastic toys
Playback vocalizations
Popcorn
Pumpkins
PVC pipes
PVC puzzle feeders
Radio
Rice
Rice cakes
Ropes
Sand
Scratch
Seasonal food
Shoes
Snow
Spices
Spools
Sports balls
Straw
Stuffed toys
Sugar free candy
Sugar free syrup
Tires
Trash cans
Treat boards
TV and VCR
Whole grains
Wood utensils
Wood wool
Yogurt
Zupreem monkey crunch
Zupreem peanuts
Zupreem primate o’s
ENRICHMENT at Durrell Wildlife Conservation Trust (Jersey)

Six Sumatran orang-utans are housed at Durrell in Jersey. They have daily access to each other and some have access to a pair of Lar Gibbons. Individuals are given access to either one or both of the large outside islands on an alternating basis. The list below represents examples of the environmental enrichment features and the activities that are rotated regularly.

**Non naturalistic enrichment**

- Ropes – natural fibre in various sizes/rubber ropes and nylon webbing
- Fixed metal nest hammocks
- Mobile trawler netting hammocks
- Old clothes
- Strong cardboard boxes
- Coffee sacks
- Paper sacks
- Cardboard carpet tubes
- Non toxic crayons and paper for drawing
- Ponds - filled with water in summer/wood shavings etc in winter
- Access to running water via a hose connected to a fixed scaffold pole
- Swings made from plastic barrels attached to rubber rope/chain
- Phone books filled with raisins
- Bubbles
- Mirror
- Sponges and water – as some individuals like to clean their enclosure whilst the keepers are cleaning
- Old brushes - as some individuals like to clean their enclosure whilst the keepers are cleaning
- Positive reinforcement training
- Kong toys
Naturalistic enrichment

- 1:1 Lar Gibbons
- Straw, hay, woodwool, shredded paper
- Deep litter of straw in winter
- Wood shaving forage piles
- Piles of leaves
- Seasonal whole food items such as coconuts - others whole plants collected daily from the organic farm e.g. Maize plants, peas, sunflowers, pumpkin/squash, edible flowers
- Fresh browse including among others – willows, hazel, Lyme, Holm oak, pseudo acacia, bamboos, ash, alder, apple, banana, elm, lemongrass, elephant grass
- Seasonal herbs including lavender, lemon thyme, mint etc
- Dry scatter mix comprising All Bran, maize flakes, porridge oats, whole grains, sunflower seed, pine nuts, pumpkin seeds
- Wet scatter mix comprising soaked soup broth mix, chickpeas, sprouted mung beans
- Fish in the moat surrounding the islands including roach, rudd, perch and grass carp
- Red eared sliders in the moat surrounding the islands
- Vertical logs drilled with holes in and filled with honey
- Termite mounds for yoghurt/porridge fishing
- Fixed tube feeders requiring tool use
- Rotating peanut puzzle feeder requiring manipulation and tool use
- Rotting/decomposing tree trunks/logs
Good Enrichment Items

- Paper anything (no staples), magazines, newspaper, wrapping paper, paper bags (any size).
- Cardboard boxes (no staples)
- Old clothes (no buttons or zippers)
- Washed panty hose
- Cleaned plastic bottles
- Phone books and regular books
- Tupperware container
- Sheets and blankets
- Stuffed animals (without eyes or beans)
- Used paper towel rolls
- Burlap bags
- PVC feeders and pipes

Bad Enrichment Items

- Used toilet tissue rolls
- Styrofoam (peanuts)
- Rusty wire
- Egg cartons
- Chemical bottles
- Glass anything
- Paper clips
- Dirty milk or juice containers
- Moldy anything
- Metal objects
- Silica dehumidifier packets
- Foil cutter edges
- Pet hair on anything
- Anything with staples
- Packaging tape (with strings in it)
- Aluminum, tin cans, and coffee cans
- Strings or anything frayed

We love enrichment that is clean and on the approved enrichment list! Please make sure to check all donated items to see that they are washed, and do not contain any other unsafe materials inside them! Thank you!
What is **Enrichment**?

**Encourage Natural Response In Captive Habitat**

Enrichment means encouraging natural behaviors by providing incentives for animals to make choices, be active and explore. This can be accomplished in many ways.

Why **Enrichment**?

- Stimulate Social Behavior
- Stimulate Intelligent Behavior
- Stimulate Foraging and Food Processing Behavior
- Stimulate Arboreal Behavior
- Stimulate Object-Oriented Behavior
- Stimulate Curiosity Behavior

How **Enrichment** is provided?

- **Exhibit design**: provides a variety of substrates, levels, and complexities.

- **Training**: interaction with the keeper and proper training allows an animal to choose to participate. This is also useful in gaining the animal’s trust and allows the keeper close, visual observations.

- **Olfactory**: a keeper can introduce natural predator or prey scents, in addition to novel smells or pheromone scents.

- **Auditory**: taped sounds or vocalizations can stimulate things that an animal may hear in the wild.

- **Food related**: this is the most widely used form of enrichment. Keepers can present food in a variety of ways such is in a simple puzzle feeder, hidden throughout the enclosure, scattered about the enclosure, or buried in a substrate. To get the food, the animals must use natural foraging behaviors and/or mentally solve the puzzle.

- **Novel objects**: various items placed in an animal’s enclosure allow the animal to mimic behaviors exhibited in the wild or could challenge them. These items could include burlap bags, sheets, boomer balls, chew toys, or hammocks.
Orangutan Enrichment Q&A:

How many orangutans do you have? Are they Bornean or Sumatran?

- We have 7 orangutans: 3 Borneans, 2 Sumatrans, and 2 hybrids.

-Are these animals kept solitary or in groups? What age groups are they?

- We use flexible social housing for our animals, and by that I mean we change things up according to the needs of the collection. Right now, we have 3 groups: 2.1 Borneans (adult male-21 years old, adult female-26 years old, and 3 year old infant) who are together outside on exhibit, but when inside, the male is separated from the baby and dam. The next group is our 1.2 group: an adult female hybrid-34 years old, who is a surrogate mother to the 1.1 young Sumatrans (2 and 5 years old), and they are together all the time. However, while inside, the youngsters have access to an extra cage that they can get into via a creep door, so that they have a separate space from the adoptive mom. And, the third “group” is our adult male hybrid-28 years old, who is solitary (with visual/auditory/offactory access to all the others) most of the time, due to the presence of the youngsters in the other groups. He is occasionally allowed together with the adult female hybrid when we can separate her from the two adopted kids.

-What does the enclosure look like?

- The outdoor exhibit is a fairly large, naturalistic, grassy enclosure, with rock walls, a moated area, and a viewing window. It has two large rock structures as well as a large wooden platform with several levels, and there are numerous climbing ropes that allow arboreal access. There is a small, shallow pool that provides fresh running water. They share the exhibit with two Mandarin ducks, many turtles, and koi in the moat. The indoor enclosure is a “C” shaped area with 6 connected rooms with polyurethane benches, PVC horizontal props, mesh walls, concrete floors, skylights and hydraulic doors. There are two doors leading to the outside exhibit, so that animals can be shifted in and out through either door. This allows us to rotate the groups through the rooms, out to the exhibit, and back inside into different rooms in a circular fashion, which is part of their enrichment activity throughout the day.

-What kinds of materials or toys do you offer to keep them occupied?

- I have attached a list of enrichment items that we use and we are always trying to expand our repertoire of items. I will group these items into general categories:

  - **Substrates**: pine bark, wood shavings, Beta chips, sand and any other material that can be put on the ground or surface area. These are great to scatter forage foods through (like rice, peas, cereals, seeds, oats, etc.) and this will encourage micro-manipulation of the substrate to get at the forage foods. The youngsters also play vigorously in these substrates by rolling in them or throwing them around.

  - **Browse**: is provided daily and the orangutans manipulate it, eat it, strip it, wear it, and hang off ropes with it.
- **Fabric**: sheets, pillowcases and blankets are used in many different ways: they get under the material and play with each other (wrestling, rolling), they use lightweight fabrics as sunshade, they dip it in water and wear it to cool off in the summer, they get under blankets to keep warm in cooler weather, they rip it and manipulate it in innumerable ways. We are careful to avoid/discard frayed fabric and do not give fabric to babies under 2 years old for safety reasons.

- **Paper and cardboard**: From shredded paper, newspaper and boxes to crepe paper, wax paper and butcher paper, we use a wide variety of paper items that are safe, easy to collect (volunteer donors provide a lot of this stuff for us) and provides a lot of fun for the orangutans. They nest in it, rip it, get into boxes, roll around and play in it various ways...it's versatile and easy to use. Toilet tissue, paper towels, etc. all make inexpensive and fun enrichment items.

- **Plastic items**: We get empty juice and soda bottles, kitty litter containers, and all sorts of buckets, trays, big barrels and plastic toys of various sorts and these are excellent, reusable enrichment items. They are easily disinfected and provide a wide variety of colorful and interesting items for all ages.

- **Scents**: We provide various scents to them in many forms: dog and cat "perfumes" like apple, vanilla and berry (all non-toxic) and also use spices like cinnamon, and fresh and dried herbs like basil, parsley or dill weed.

- **Activity based enrichment**: We give the animals chalk, finger paint and other non-toxic paints to use. They will paint with their fingers, lips, tongue and we have even modified some paint brushes for them to use safely. They will also paint with browse stems. This has grown into a very large program in which we frame the paintings and sell them to use the funding for conservation to help orangutans in the wild. If you would like more information about this program, called "Pongos Helping Pongos", we would be delighted to give you further details about it.

*NOTE: Hay is given daily for nesting material and is not considered to be part of their enrichment; it is a necessity for them. Very occasionally, an equivalent amount of either wood wool/excelsior or shredded paper or even fabric is substituted for hay. We provide about 1 flake of coastal hay per adult for bedding each day. We also give large rubber tubs which they frequently make their night nest inside (at least the females...the males are too big to fit into the tubs!)

### Why do you use these materials or toys?

- We have discovered through trial and practice over the years that orangutans are so intelligent that they may safely have items given to them (like fabric and plastic) that other primates would ingest or use inappropriately. We try to engage all of their senses and allow them to behave in a species-typical manner. We also encourage play behavior, as well as asking them to work for their food by scattering or hiding forage food, biscuits and even produce. Our main motivation for all of the enrichment we give all of our primate collection is: to provide **choice**, give the animals **control** over their environment, and provide **change** in their lives.

### How long are these materials/toys kept in the enclosure?

- We change out enrichment items daily and keep a monthly chart on what is used, so as not to repeat items too often. The plastic items like barrels, crates and bottles are washed and re-used as long as they stay in good shape.
-Do you use different materials/toys for different age groups?

- We use basically the very same enrichment for all age groups with the exception of fabric: we do not give very young babies fabric/pantyhose or anything that might pose a strangulation or entanglement risk.

We also have recently put into use some wonderful latex rubber tubing, available from McMaster.com in sections. It's fairly expensive but it is one of the most useful and durable enrichment items we've used.
PRIMATE ENRICHMENT ITEM LIST

The following items can be used safely to enrich all of our primates:

- Burlap bags (apes only)
- Sheets (apes only)
- Pillowcases (apes only)
- Blankets (apes only)
- Boomer balls
- Horse balls
- Cardboard boxes (no staples)
- Paper bags (no staples)
- Laundered clothes (no buttons-apes only)
- Newspaper
- Magazines
- Shredded paper (no staples)
- Wood wool, or excelsior
- Rolls of paper towels
- Paper towel tubes
- Butcher paper
- Phone books
- Bubble wrap (for selected apes only)
- Milk crates/bread crates
- Heavy plastic baskets/bins
- Balls of various sizes (tennis balls, basketballs, soccer balls)
- Parking cones
- Substrates: sand, woodshavings, pine bark mulch, Beta chips, hay
- Firehose hammocks
- Differing social groupings

Bad enrichment items include: used toilet tissue rolls, Styrofoam, metal or glass items, egg cartons, paper clips, dirty milk or juice containers, moldy anything, silica dehumidifier packets, pet hair on anything, or anything unclean at all. If you collect enrichment for primates, it should be clean!

THANK YOU SO MUCH FOR THINKING OF THE PRIMATE SECTION!
# Orangutans

## Items Approved for Enrichment

### April 1, 2004

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<th>Enrichment Item</th>
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<tr>
<td>Bubbles</td>
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</tr>
<tr>
<td>Feathers</td>
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</tr>
<tr>
<td>Fur</td>
<td>X</td>
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<td>Snake Sheds</td>
<td>X</td>
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<td>NO</td>
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<tr>
<td>Ice</td>
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</tr>
<tr>
<td>Icicles</td>
<td>X</td>
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</tr>
<tr>
<td>Popsicles</td>
<td>X</td>
<td></td>
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</tr>
<tr>
<td>Frozen Bamboo Sticks</td>
<td>X</td>
<td></td>
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<tr>
<td>Frozen Gourds</td>
<td>X</td>
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<td>Frozen Pumpkins</td>
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<td>Frozen Watermelons</td>
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</tr>
<tr>
<td>Crickets</td>
<td>X</td>
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</tr>
<tr>
<td>Mealworms</td>
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<td>Christmas Trees</td>
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<tr>
<td>Tub Gardens</td>
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<tr>
<td>Enrichment Garden Plants</td>
<td>X</td>
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_X - Item is approved to use with keeper discretion._
## Orangutans
Approved Enrichment Treat Items for 4 Orangutans

<table>
<thead>
<tr>
<th>Enrichment Item</th>
<th>grams</th>
<th>Tbsp</th>
<th>Cup</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Shredded Wheat *</td>
<td>50 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Puffed Rice</td>
<td>16 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Puffed Wheat</td>
<td>16 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Puffed Corn</td>
<td>16 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Puffed Millet</td>
<td>16 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Puffed Kashi</td>
<td>16 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Popcorn</td>
<td>6 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Dried Hibiscus Flowers</td>
<td></td>
<td></td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Dehydrated Veggies</td>
<td>5 g</td>
<td>3</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Bird Seeds</td>
<td></td>
<td></td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Wheat, Rye Grains</td>
<td></td>
<td></td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Enrich Bits</td>
<td></td>
<td></td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>Granola Low-Fat</td>
<td>5 g</td>
<td>1</td>
<td></td>
<td>No added sugar.</td>
</tr>
<tr>
<td>Snack Trail Mix *</td>
<td>9 g</td>
<td>1</td>
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<td></td>
</tr>
<tr>
<td>Pasta *</td>
<td>7 g</td>
<td>1</td>
<td></td>
<td>Dried or cooked. Not for diabetics.</td>
</tr>
<tr>
<td>Raisins</td>
<td>10 g</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quick Oats</td>
<td>5 g</td>
<td>1</td>
<td></td>
<td>OK. Dry measurement</td>
</tr>
<tr>
<td>Mustard</td>
<td>15 g</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed Garlic</td>
<td>15 g</td>
<td>1</td>
<td>OK</td>
<td></td>
</tr>
<tr>
<td>1 Mashed Potato *</td>
<td>200 g</td>
<td></td>
<td></td>
<td>Not packaged. Fresh. Not for diabetics.</td>
</tr>
<tr>
<td>Peanut Butter *</td>
<td>32 g</td>
<td>1</td>
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</tr>
<tr>
<td>Almond Butter *</td>
<td>32 g</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cashew/Macadamia Butter *</td>
<td>32 g</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fruit Spread *</td>
<td>20 g</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apple Sauce *</td>
<td>17 g</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sugar Free Juice</td>
<td>8 g</td>
<td>1</td>
<td></td>
<td>Diluted 50/50.</td>
</tr>
<tr>
<td>Coconuts - Whole</td>
<td>380 g</td>
<td></td>
<td></td>
<td>OK. Measurement for 1 coconut.</td>
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</tbody>
</table>

* Use these items very sparingly as they are high in fat and/or carbs.
Orangutans
Approved Enrichment Treats for 4 Orangutans

All the Orangutans are on strict diets in order to keep their weights and sugar levels at optimum levels. Although we do not presently have any orangs with diabetes, we must offer sweet treats very sparingly to avoid future complications.

Minyak has different dietary needs that are controlled strictly by the keepers. Please check with keepers prior to preparing any items for Minyak.

The amounts approved are as follows: Each orang (Minyak excluded) can have 50 g of enrichment treats daily. That’s 200 g between all of them. Enrichment treat items will be delivered on a month to month basis. Please follow these weight guidelines for the health of our orangs.

“dry” stuff  shredded wheat*, puffed cereals, popcorn, dried hibiscus flowers, dehydrated veggies, seeds, enrichbits, pasta*, granola, trailmix*, raisins

“sticky” stuff  mustard, quick oats, crushed garlic, garlic mashed potatoes*, fruit spread*, apple sauce*, peanut butter*, almond butter*, cashew/macadamia butter*

“liquid” stuff  50/50 diluted tomato juice, 50/50 diluted sugar free juice

Quick Reference Weights

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>4 cups shredded wheat</td>
<td>200 g</td>
</tr>
<tr>
<td>12 cups puffed cereal</td>
<td>192 g</td>
</tr>
<tr>
<td>33 cups popcorn</td>
<td>198 g</td>
</tr>
<tr>
<td>2 1/3 cups granola</td>
<td>199 g</td>
</tr>
<tr>
<td>1 1/3 cups trailmix</td>
<td>197 g</td>
</tr>
<tr>
<td>1 2/3 cups pasta</td>
<td>187 g</td>
</tr>
<tr>
<td>1 cups raisins</td>
<td>170 g</td>
</tr>
<tr>
<td>2 cups quick oats</td>
<td>170 g</td>
</tr>
<tr>
<td>1/3 cup mustard</td>
<td>165 g</td>
</tr>
<tr>
<td>1/3 cup crushed garlic</td>
<td>165 g</td>
</tr>
<tr>
<td>6 tbsp peanut butter</td>
<td>192 g</td>
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<tr>
<td>9 tbsp fruit spread</td>
<td>192 g</td>
</tr>
<tr>
<td>1/2 cup applesauce</td>
<td>170 g</td>
</tr>
<tr>
<td>1 1/2 cups diluted juice</td>
<td>168 g</td>
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Sample menus

<table>
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<tr>
<th>Item</th>
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<tbody>
<tr>
<td>2 cups puffed cereal</td>
<td>32 g</td>
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<tr>
<td>4 cups popcorn</td>
<td>24 g</td>
</tr>
<tr>
<td>4 Tbsp granola</td>
<td>20 g</td>
</tr>
<tr>
<td>2 Tbsp raisins</td>
<td>20 g</td>
</tr>
<tr>
<td>2 Tbsp mustard</td>
<td>30 g</td>
</tr>
<tr>
<td>1 Tbsp peanut butter</td>
<td>32 g</td>
</tr>
<tr>
<td>4 Tbsp diluted juice</td>
<td>30 g = 188 g</td>
</tr>
<tr>
<td>1 cup shredded wheat</td>
<td>50 g</td>
</tr>
<tr>
<td>2 cup puffed cereal</td>
<td>32 g</td>
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<tr>
<td>3 cups popcorn</td>
<td>18 g</td>
</tr>
<tr>
<td>6 tbsp dehydrated veggies</td>
<td>10 g</td>
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<tr>
<td>2 tbsp pasta</td>
<td>14 g</td>
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<tr>
<td>2 tbsp fruit spread</td>
<td>40 g</td>
</tr>
<tr>
<td>2 tbsp applesauce</td>
<td>34 g = 198 g</td>
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## Orangutan Enrichment Worksheet

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<tr>
<th>Enrichment Item</th>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Comments / Reaction/ Problems</th>
</tr>
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<tbody>
<tr>
<td>Browse</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Boomer Balls</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Ice treats</td>
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<td>Boxes</td>
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<td>Missile feeders</td>
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<td>Feed sacks</td>
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<td>Butcher paper</td>
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<tr>
<td>Heavy plastic bottles</td>
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<tr>
<td>Donut toys</td>
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<td></td>
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<td>Magazines</td>
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</tr>
<tr>
<td>Food in hanging Barrel (outside)</td>
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<tr>
<td>Sheets</td>
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</tr>
<tr>
<td>Lg Kong toy w/treats</td>
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</table>
Primate Enrichment Proposal

Date of Enrichment: ________________

Species: ____________________________

Enrichment Item/Activity: ____________________________________________

Type of Enrichment (i.e. forage, olfactory, browse, etc.) _________________

Intended for indoor/outdoor display: ____________________________

Intended use of Enrichment Item/Activity: ______________________________

_______________________________________________________________________

_______________________________________________________________________

Materials used: _______________________________________________________

_______________________________________________________________________

_______________________________________________________________________

Materials supplied by volunteer: _______________________________________

_______________________________________________________________________

Materials supplied by zoo: _____________________________________________

Notes/ Comments: _____________________________________________________

_______________________________________________________________________

_______________________________________________________________________

_______________________________________________________________________

_______________________________________________________________________

_______________________________________________________________________

Approved by Zookeeper
**Special Note:** Not all items can be used with some species. Seek approval prior to use.

**FURNITURE**
- New ropes
- Branches
- Crates
- Nest boxes
- Mister
- Swings
- Boards
- Bamboo poles
- Bark chips
- Stock tank
- Logs
- Hanging buckets
- Pools
- Barrels (inside exhibit unless attached outside)
- PVC
- Black rubber tubs
- Benches
- Artificial vines/plants
- Tires
- Cargo nets
- Steel tire rings
- Trapeze
- Ladder
- Spools
- Hanging water jugs

**TOYS**
- Cardboard boxes
- Pools w/ various items: brushes, buckets, sponges & baby soap (orangutans)
- Boomer balls
- Hard hats
- Various balls
- Tires
- Hula hoops
- Stuffed animals
- Back packs
- Buckets
- Strainer
- Shovels
- Measuring cups

**DIET PRESENTATION** = novel items; differing form/consistency
- Blend; mash; steam; dice
- Whole fruits/veggies
- Frozen diet
- Treats: juice, fruit roll-ups...
- Nuts
- Dried fruit
- Bread
- Yogurt
- Dyed monkey chow
- Insect popsicles
- Sweet / sour
- Jello
- Frozen juice/jello
- Dye monkey chow colors w/ food coloring
- Food in melons/squash
- Live food: meal worms, crickets
- Corn stalks
- Pumpkins
- Special recipes from primate cookbook

**TACTILE**
- Misters
- Bark chips
- Excelsior
- Shredded paper
- Water in tubs/pools
- Clothing
- Sheets/blankets
- Different fabric textures
- Door mats/rugs
- Stuffed animals
- Brushes
- Ice / snow
**Special Note:** Not all items can be used with some species. Seek approval prior to use.

**FORAGE = search out food!**
- Hiding diet in browse
- Burlap bags
- Hanging in containers/baskets/bags/crates
- Hide within other foods Ex. Corn husks, leaves, hollow melons/pumpkins
- Pine cone treats
- Paper mache shapes hung on vines
- Hanging fabric with the pockets
- Log feeders
- Hide diet in back packs/bags
- Grapevine/grapevine balls
- Milk jugs
- Wiffle Balls
- Wooden board feeders
- Woven baskets
- Grapevine shapes
- Pill containers
- Plastic pumpkins
- Sandwich boards
- Hanging plastic sandwich dish
- Treats in substrate
- Gum Arabic
- Browse
- Treat smears
- Seeds/nuts
- Edible flowers
- Insects
- Cereal scatter

**OCCUPATIONAL = work for treats!**
- Kongs
- Puzzle feeders
- Boomer balls
- “Pill” Boomer
- Keg Boomer
- Gourd Boomer
- The “Log” Boomer

**continued…**
- Knot fabric/rope (orangutans)
- “Treat table” on keeper side
- Weave rope over crates/5 gallon buckets
- Ball of fire hose
- Plastic containers with lids closed
- Film containers with lids closed
- Wiffle balls
- Closed pill containers
- Suet feeders
- Diet kabobs
- Treat tubes
- PVC feeders
- Treats on opposite side of mesh
- Misc hanging feeders

**VISUAL**
- Disco ball
- Decoys
- Laser pointer
- Mirror
- Videos

**AUDITORY**
- Terri’s instruments
- Nature sounds
- Play recordings of other animals/primates
- Show videos
- Play species-specific sounds
- Radio
**Special Note:** Not all items can be used with some species. Seek approval prior to use.

**OLFACTORY**
Different scents sprayed on clothes/sheets
Scents placed in plastic containers with holes in container
Scents sprayed on artificial vines/leaves
Various animal scents: objects from another animal area
Oils/perfumes
Hunting scents
Spices/extracts

**BROWSE**
Elm
Grapevine
Mulberry
Bamboo
Herbs
Wheatgrass
Edible flowers
Banana leaves
Newly approved items…..

**BEHAVIORAL**
Predator avoidance (decoys, carnivore vocals)
Keeper play sessions
Informal training session
Add new training activity
Painting w/Amanda
Change up shifting
Any species-specific behaviors
**St. Paul's Como Zoo**  
**Enrichment Documentation Form**  
**Year_______**

Species: ____________________________________  Individuals: _______________________________________

<table>
<thead>
<tr>
<th>Date</th>
<th>Type of Enrichment</th>
<th>Activities</th>
<th>Location</th>
<th>Initial</th>
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<tbody>
<tr>
<td>01 Sept.</td>
<td>Auditory</td>
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<tr>
<td>02 Sept.</td>
<td>Forage</td>
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</tr>
<tr>
<td>03 Sept.</td>
<td>Browse</td>
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</tr>
<tr>
<td>04 Sept.</td>
<td>Occupational</td>
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<tr>
<td>05 Sept.</td>
<td>Toys</td>
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<tr>
<td>06 Sept.</td>
<td>Volunteer Team</td>
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<tr>
<td>07 Sept.</td>
<td>Diet Presentation</td>
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<td>08 Sept.</td>
<td>Tactile</td>
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<tr>
<td>09 Sept.</td>
<td>Behavioral</td>
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<td></td>
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</tr>
<tr>
<td>10 Sept.</td>
<td>Furniture</td>
<td></td>
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</tr>
<tr>
<td>11 Sept.</td>
<td>Forage</td>
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<td>12 Sept.</td>
<td>Browse</td>
<td></td>
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</tr>
<tr>
<td>13 Sept.</td>
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</tr>
<tr>
<td>14 Sept.</td>
<td>Olfactory</td>
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<tr>
<td>15 Sept.</td>
<td>Visual</td>
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<tr>
<td>17 Sept.</td>
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<tr>
<td>18 Sept.</td>
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<tr>
<td>19 Sept.</td>
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<tr>
<td>20 Sept.</td>
<td>Volunteer Team</td>
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<tr>
<td>21 Sept.</td>
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<tr>
<td>22 Sept.</td>
<td>Auditory</td>
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<td>23 Sept.</td>
<td>Visual</td>
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<td>24 Sept.</td>
<td>Diet Presentation</td>
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<td>25 Sept.</td>
<td>Tactile</td>
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<td>26 Sept.</td>
<td>Browse</td>
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<td>27 Sept.</td>
<td>Volunteer Team</td>
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<td>28 Sept.</td>
<td>Occupational</td>
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<td>29 Sept.</td>
<td>Olfactory</td>
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<td>30 Sept.</td>
<td>Toys</td>
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Como Zoo and Conservatory Primate Enrichment
Observation Form

Date:___________ Species:_____________________ Observer:___________________

Time of Observation: Start:________ End:___________

Enrichment Item(s)/Activity:_______________________________________________

Circle type of enrichment: forage, olfactory, auditory, other-describe_____________

Comments:________________________________________________________________

________________________________________________________________________

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Time spent with Item/Activity: _______________________ minutes

-Did animal(s) go right to the enrichment? Yes No Comments:

-Were all animals in the exhibit interested in the enrichment? Yes No Comments:
   If no, which animals were not interested?____________________________________

________________________________________________________________________

-Did any animals respond negatively to the enrichment? Yes No Comments:
   If yes, please explain _____________________________________________________

________________________________________________________________________

-Were visitors present? Yes No If yes, did interpretation take place? Yes No

-Weather: Temp:_______ Precip: none rainy snow Sky: clear partly cloudy overcast
   Wind: none light strong
UTAH’S HOGLE ZOO
APPROVED ORANGUTAN ENRICHMENT

Sensory: Auditory, Visual, Tactile, Olfactory

5 gal bucket noise maker (lid w/ no rubber seal)
Antlers
Audio recordings
Body sprays
Bubble bath
Bubble machine
Bubbles
Camel hair
Chalk
Crayons-non toxic
Deer & Elk hides (see hide protocol)
Diluted extracts
Disco ball (outside of exhibit)
Essential oils
Feathers
Feces (check approved list)
Game caller
Goldfish in bowl (outside exhibit)

Hand held or box fan (outside of exhibit)
Lava lamp (outside of exhibit, downstairs only)
Looky Lou Mirror (Otto Environmental)
Lotions
Mirror mobile (outside of exhibit)
Mirror-outside exhibit
Noise Maker
Non-toxic paint
Perfume tester pages
Pinwheels (outside of exhibit)
Plexiglass shield
PVC Clacker (Leather Elves): Must be mounted in a way to limit destruction
Rainmaker Stick (outside of exhibit)
Scent sacs
Snake shed
Snow
Spices-sage, cinnamon, oregano
Sprinkle scents on clothes/substrates
Squirrel call
Straw from Gorillas
Sun catcher (presented outside of enclosure)
TV
Urine
Videos
Wiggly Giggly sound stick
Window treatments (on outside of glass; paper, paint, stickers, etc.)

**Foods and Feeding**
4 " PVC Treat Tube (Leather Elves): Must be mounted in a way to limit destruction
Amazing Graze
Barrels
Black tub on post
Boomers
Burlap treat bag
Cardboard boxes
Cardboard tubes
Crates (chained together or hung outside exhibit)
Donut w/ holes
Edible flowers (in some type of device)
Fishing Stations
Frozen plastic bottles of water
Frozen PVC tubes
Fruit/Vegetable fiber from juicer (in some type of device)
Gourd Feeder
Grasshoppers
Healthy edible (all natural dog chews)
Honey dipper (4 in PVC pipe suspended on door with food oatmeal, peanut butter, rice)
Humus (in some type of device)

Ice blocks
Jell-O (in some type of device)
Jello sticks
Kegs (Kracor)
Kool aid ice cubes
Kool aid liquid (in some type of device)

Lemur balls (in some type of device)
Log Feeder by Otto Environmental
Mealworm barbell (mounted)
Natural juice ice cubes
Oatmeal (in some type of device)

Paper mache pockets
Paper plates with food smeared on it
Pills
Pillowcases
Pinecone treat feeders
Plain ice cubes
PVC Cap Puzzle
PVC Feeder
PVC Square Feeder
Raisin bran (in some type of device)
Sandbox feeder (1/4 barrel outside exhibit)
Spool w/ holes
Sunflowers
Tubs of water
Water cooler jug puzzle feeder
Wooden post w/ rubber tub

**Manipulative Items/Toys**
12x12 cube (from Sanctuary Supplies)
70 or 100 gallon utility tank for fishing, etc.
Black plastic corrugated drain pipe
Black tubs
Bobbins
Books
Boomer balls
Boxes wrapped in newspaper
Burlap
Cardboard boxes/tube
Chalk
Clothing items (no uniforms, restrictive areas opened, zippers, buttons, tags, bands, etc. removed OFF EXHIBIT ONLY)
Cups/plastic bottles
Fire hose pieces
Floating items in water
Garbage cans/lids
Gloves (OFF EXHIBIT ONLY!)
Gourd (from Kracor)
Hula hoop (cut in ½) straws (AKA Reach toys)
Kiddy pool
Magazines
Milk crate/crates

Newspaper
Nyla Frisbees
Paper bags
Paper mache' piñatas
Paper towels
Pill (from Kracor)
Pillow case
Pink plastic squares
Plastic automotive funnels (in neutral colors)
Plastic Keg from Kracor or Desert Plastics
Puzzle barrels-50 gallon hard plastic syrup containers
Rock barrel-made from 50-gallon hard plastic syrup barrel cut in half
Rubber auto tire
Sand box
Sheets
Shredded paper
Telephone books
Toilet paper
Towels
White barrel
Wooden logs

**Physical Environment: visual barrier, climbing structure, substrates, rest/sleep areas**
Access to holding
Cover windows with Paper (peek-a-boo)
Dirt
Excelsior
Fire hose hammock
Hula skirt visual barrier (glass fronted exhibit)

Mister
Mud
Rope Ladder
Sand
Sod
Spagnum moss
Swings
Toilet paper exhibit
Varied substrates (small amount)
Visual barrier

**Behavioral/Social**
Animal pinwheels (outside of enclosure)
Approved Training Programs
Artificial snake (presented outside of enclosure)
DAF animals
Decoys (outside of enclosure)
Keeper games
Mineral Oil treatments (approved keepers only)
Peek-a-boo
Pink flamingos (presented outside of enclosure)
Predator decoy
Puppet
Remote control toy
Stuffed animals (presented outside of enclosure)
Tail wagger
Tug-o-war (between keeper/animal or animal/animal)
Water from hose
Weasel ball
Window walker

“Acara” ORANGUTAN (baby)

See as posted for adults above w/ these exceptions:
- No burlap or pillowcases
- All chains tightly sleeved- no gaps
- Crates tied w/ fleece only
- No plastic bottles