



Making a Difference for Wildlife and Wild Places

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What's the big deal
about palm oil?

Palm Oil 101



Sumatra and Borneo are the only places on earth where critically endangered orangutans live (and many other species) and is also where 93% of palm oil is produced

Palm Oil 101

Palm oil is a commonly used vegetable oil:

- Found in about 50% of manufactured products at the store---from food items, to cosmetics to cleaning products
- Palm oil become very popular when hydrogenated oils were “banned”
- More palm oil is produced and consumed every year than any other vegetable oil
- It is a fruit / plant that is native to West Africa and grows well in tropical climates
- 93% of all palm oil is produced in:
Indonesia (51%) and Malaysia (42%)



Palm Oil 101



What are the Conservation Issues?

- Forests are being destroyed due to **non-sustainable** palm oil production
- Orangutans and other endangered species are being negatively impacted by the extreme loss of habitat
- Massive amounts of carbon are released into the atmosphere through deforestation, fires and draining of peat swamps

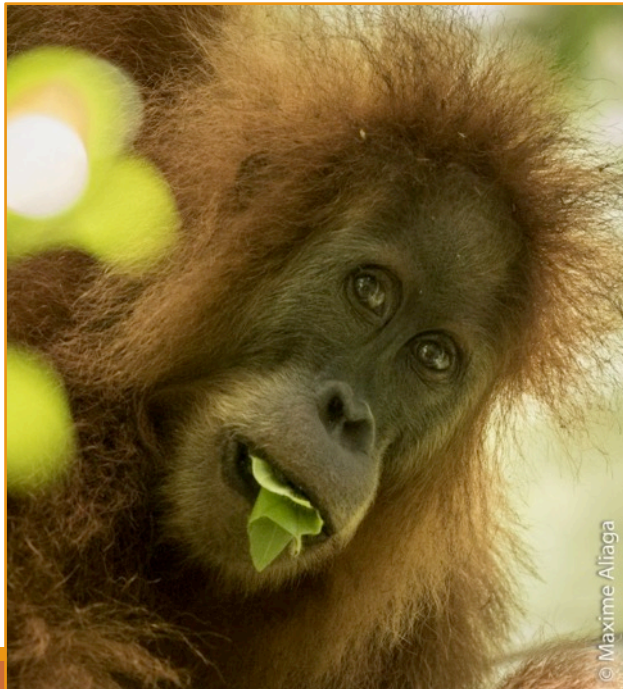
Critically Endangered Species

Why We Care!

- Tapanuli Orangutan
- Just discovered in 2017
- Estimated 800 exist
- Most endangered great ape



- Bornean Orangutan
- Estimated 100,000+ exist



**Orangutans have
96.4% of the same
DNA as humans!**



- Sumatran Orangutan
- Estimated 14,000 exist

Why We Care!



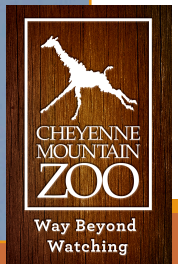
Why We Care!



Why We Care!



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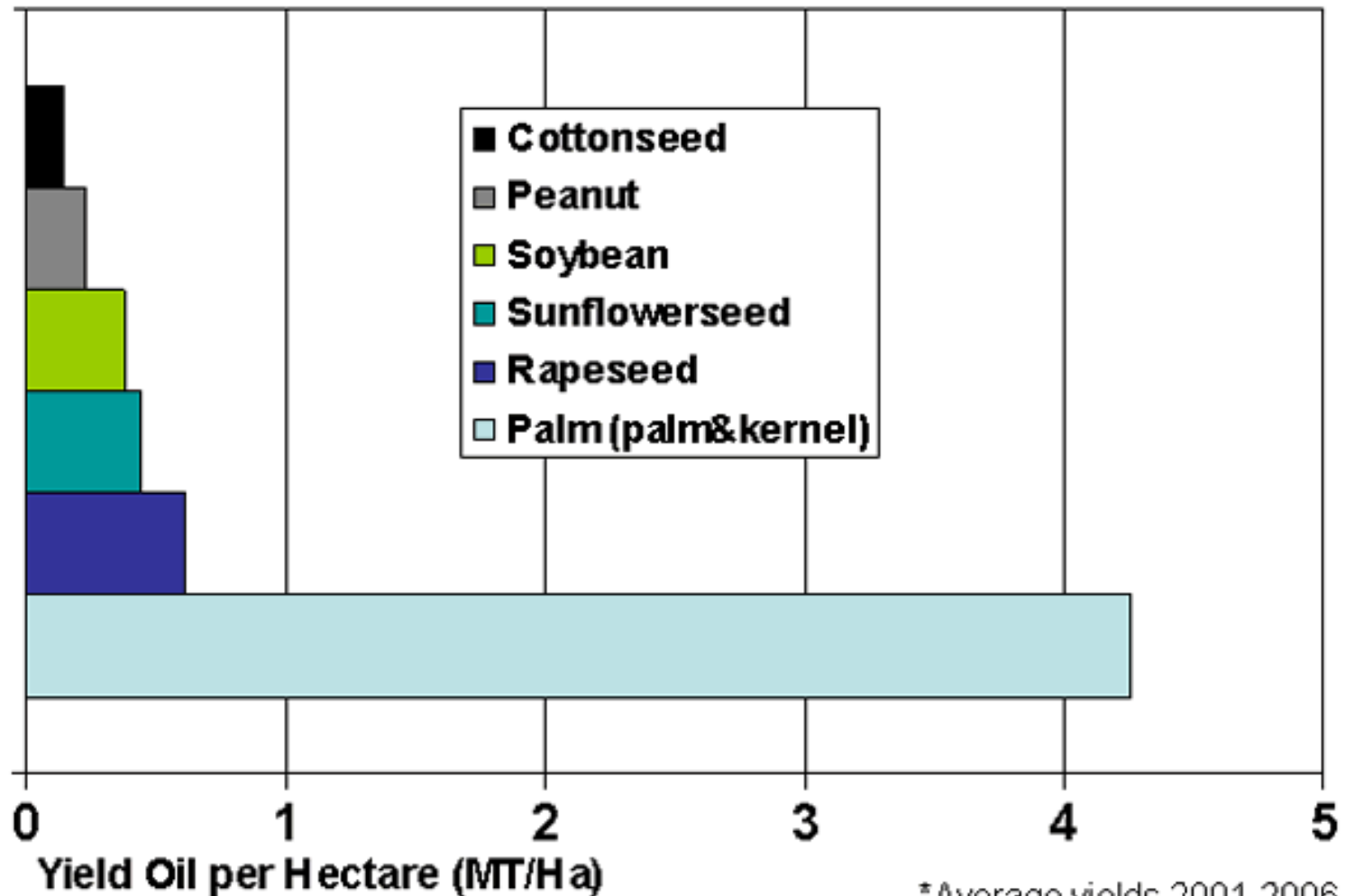
Why Not Avoid/Boycott?

Avoiding/Boycotting is not the Answer

- Oil palms produce 4-10 times more oil per hectare than any other oil crop
- If palm oil went away, it would be replaced with another crop that could cause worse environmental problems
- Indonesia and Malaysia struggle with poverty...developing countries need ways to drive their economies
- There are over 50 names for derivatives of palm oil—even if you think you are palm oil-free, you most likely are not



Comparison Yields of Major World Oilseeds *



*Average yields 2001-2006

Palm Oil Names & Derivatives

1. arachamide mea
2. capric triglyceride
3. caprylic triglyceride
4. caprylyl glycol
5. cetyl alcohol
6. cocoa butter equivalent (CBE)
7. cocoa butter substitute (CBE)
8. elaeis guineensis
9. emulsifier (some can be palm oil derived)
10. epoxidized palm oil (UV cured coatings)
11. ethylene glycol monostearate
12. ethylhexyl palmitate
13. fatty alcohol sulphates
14. glyceryl stearate
15. Isopropyl
16. isopropyl palmitate
17. mono-glycerides of fatty acids
18. myristoyl
19. octyl palmitate
20. oleyl betaine
21. palm kernel oil
22. palm oil
23. palm olein
24. palm stearine
25. palmitate
26. palmitoyl oxostearamide
27. palmitoyl tetrapeptide-3
28. peg-100 stearate
29. peptide complex
30. saponified elaeis guineensis
31. sls
32. sodium lauryl
33. sodium lauryl sulphate
34. sodium lauryl sulfate
35. sodium lauryl sulfoacetate
36. sodium palm kernelate
37. sodium palmate
38. sodium stearate
39. sodium laureth sulfate
40. sodium laureth sulphate
41. sodium lauroyl lactylate
42. stearamidopropyl dimethylamine
43. steareth-2
44. steareth-20
45. steareth-21
46. stearic acid
47. vegetable oil
48. vitamin A palmitate

Roundtable on Sustainable Palm Oil

RSPO:

- Developed in 2004
- Voluntary certification
- Currently certifies 19% of all palm oil
- 4080 Members
- Members in 92 countries

RSPO

Roundtable on Sustainable Palm Oil



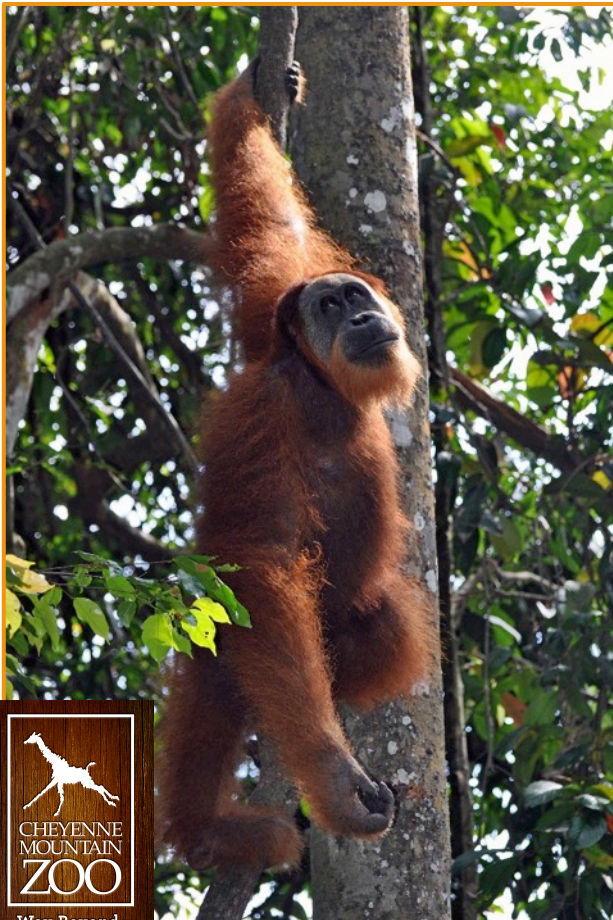
Why support the RSPO?

We know the RSPO is not perfect, but we feel it is the most constructive way to continue to move the industry forward:

- Only multi-stake holder organization working toward sustainable palm oil
- Several well-respected NGO's (WWF, Conservation International, Wetlands International) were early members (and still are) and facilitators of the RSPO
- RSPO members are required to have time-bound plans and submit reports yearly, making it possible to see their progress
- RSPO has made huge strides over the last few years
- The new Principles and Criteria passed in 2018 will go a long way in making the RSPO a very credible organization



RSPO *New* Principles & Criteria



Ratified in November 2018

- **Protecting peat:**
 - No planting on peat regardless of depth
 - Peat soils documented and reported to RSPO and management of existing plantings on peat
- **No deforestation**
 - Combines High Conservation Values and High Carbon Stock approaches
 - Adoption of the High Carbon Stock Approach toolkit
 - Fire prohibited as method of land preparation
- **Pesticides:**
 - Justification of use and only use in exceptional circumstances
- **Greater smallholder inclusion:**
 - Fair and transparent pricing, negotiations, contracts, and support / training

RSPO

Roundtable on Sustainable Palm Oil



CHEYENNE
MOUNTAIN
ZOO

Way Beyond
Watching

What makes palm oil sustainable?

- No HCV land was cleared (recently)
 - HCV assessments prior to clearing land
 - Endangered species
 - Land of cultural value to indigenous people
- Land is reused; dead plants replaced right away
- Fertilizer is used properly –getting high yields means less land needed
- Pesticides/herbicides are used responsibly
- Better treatment of workers & families
- Conflicts with animals are handled appropriately
- GHG (green house gas) monitoring



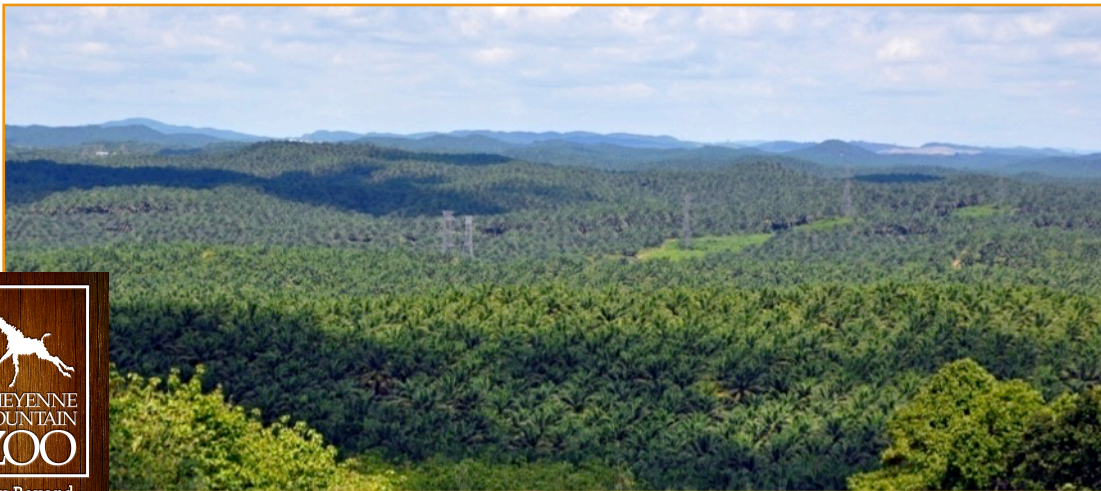
Indonesia/Malaysia 2010 Trip

The Journey Begins...



2010 Trip Overview

- Had 17 official meetings in 22 days
- Toured 2 certified sustainable palm oil plantations & mills
- Visited ecotourism sites
- Visited reforestation project in Malaysia
- Met with several NGO's



Kinabatangan Orangutan Conservation Program (KOCP) -Hutan

- Orangutan and elephant research
- Reforestation
- Ecotourism (Red Ape Encounters) in Sukau
- Building corridors
- Famous fire hose bridges
- Did not support a boycott



Yayasan Palung

Main programs are educational.

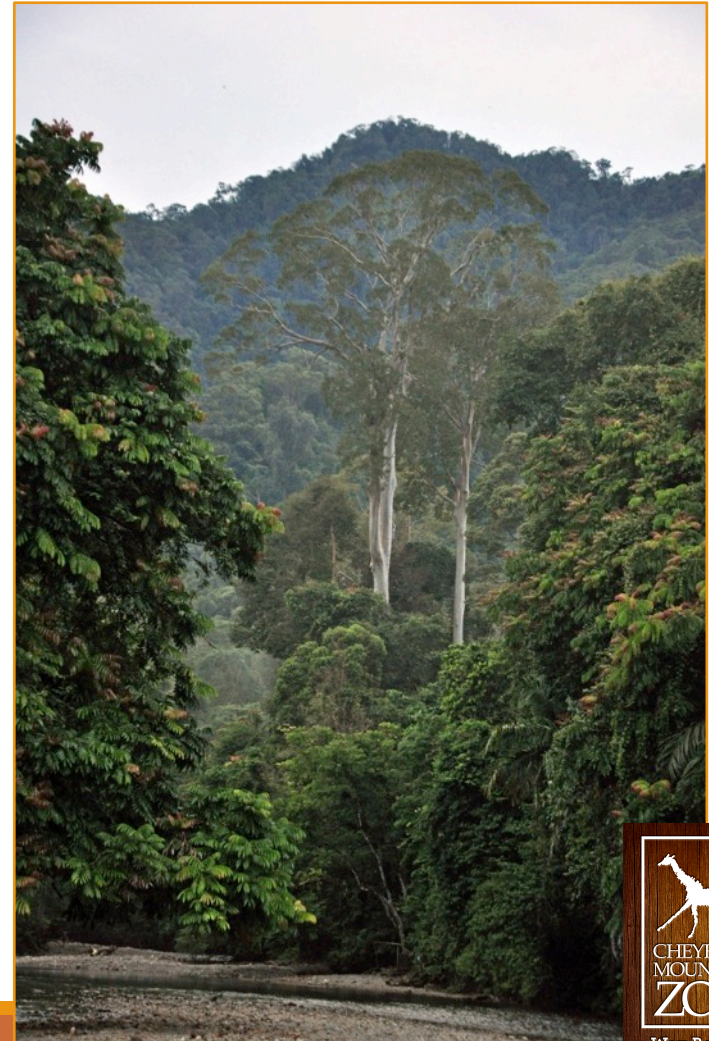
- They do tours to the national parks and teach school groups about conservation

Challenges- Lots of non-RSPO plantations nearby. Lack of law enforcement is a big problem as well.



The Nature Conservancy Jakarta, Indonesia

- Meet with TNC representative
- Learn about their thoughts on Palm Oil



Bornean Rhino Alliance (BORA)



- Did not recommend a boycott on palm oil
- Pressure specific companies
- Did support joining the RSPO

Musim Mas

- Office in Sumatra
- Third largest palm oil producer in the world
- First Indonesian palm oil producer to join RSPO
- By the end of 2012 all plantations will be certified
- Methane capture
- Stopped using Paraquat



Jakarta, Indonesia

Met with RSPO representative
at RSPO office in Jakarta



Gemawan

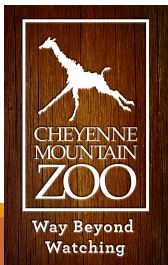
Works with people to give them legal help in land disputes.

Works with 15 different villages in that area.



OIC -Orangutan Information Center

- Located in Sumatra
- Education
- Reforestation
- Working with local people to mitigate conflicts with wildlife



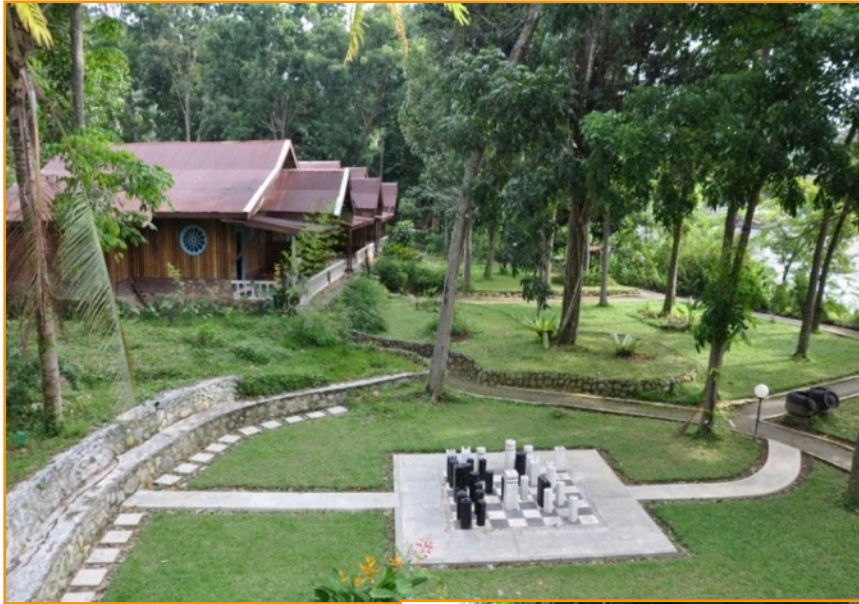
Borneo, Indonesia

FFI (Fauna and Flora International)

- HCV (High Conservation Value) assessments



Bukit Lawang Ecolodge

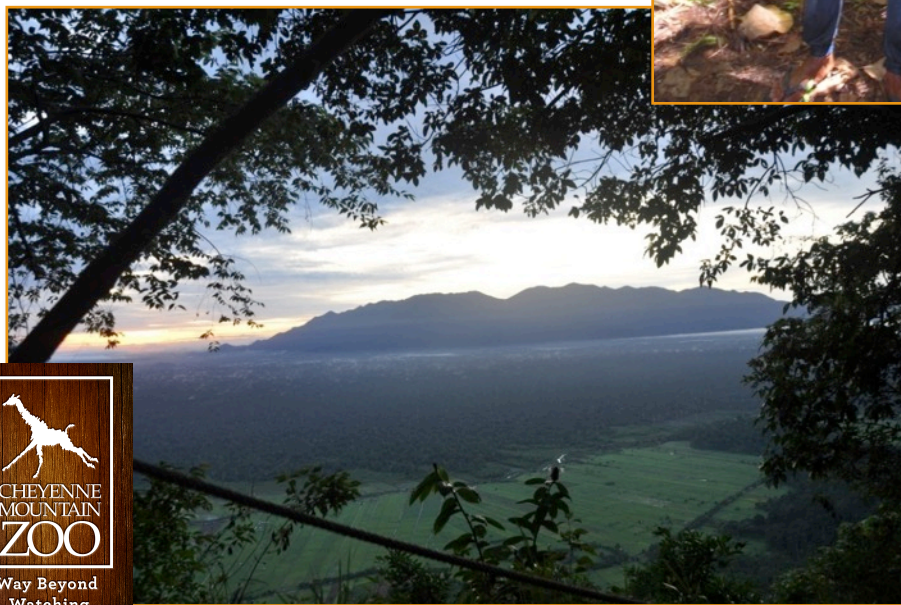


Gunung Leuser National Park

- Reintroduced orangutans (Habituated)
- Other wildlife and plants

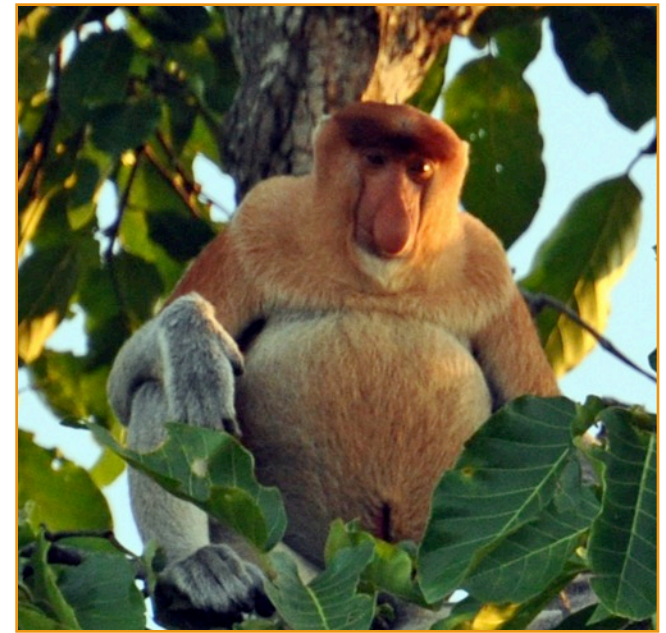


Gunung Palung National Park (W. Borneo)



Homestays





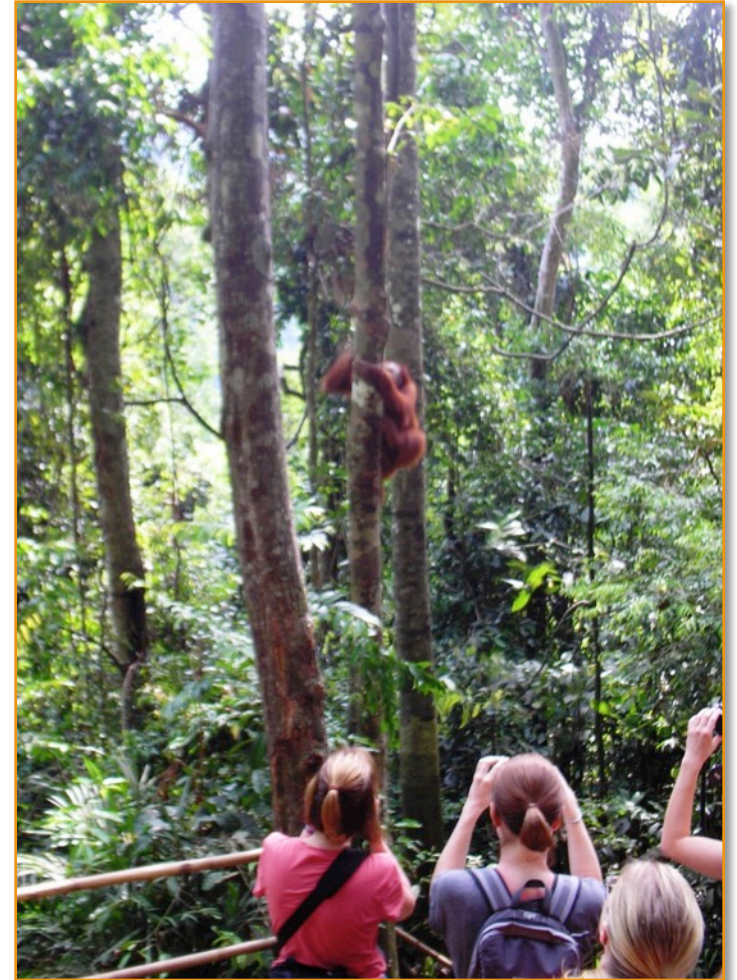
Malaysia - Boat Tours with Red Ape Encounters



We Support *Responsible* Ecotourism to Indonesia and Malaysia

Malaysian forests near Sukau in Sabah are regenerating, animals are thriving, and the local people are making a living due to responsible ecotourism.

Indonesia needs more & better ecotourism programs.



What are the biggest challenges?

- The uptake of Certified sustainable palm oil (CSPO)
 - Credibility of the RSPO
 - Smallholders becoming certified
 - Awareness---who knows about palm oil?
 - Boycotts (lack of knowledge)
 - Certification of ALL palm oil (getting companies committed to only CSPO)



“Tujoh”
Bornean
Orangutan

What is Cheyenne Mountain Zoo Doing?

- Began our work on palm oil in 2008
- First Zoo to join the RSPO (Joined in 2010)
- Leader of sustainable palm oil awareness in US Zoos
- Created a Sustainable Palm Oil Toolkit for other Zoos/NGO's
- Participate yearly in a US Zoo tradeshow promoting sustainable palm oil
- Created a sustainable palm oil shopping app
- Send out a survey every year to see how US Zoos are improving
- Have traveled to Indonesia/Malaysia 6 times in the last 10 years
- Financially support NGO's in country that are working to save orangutans
- Working on the World Association of Zoos and Aquariums (WAZA) Sustainable Palm Oil sub-committee
- Connecting our zoo guests daily to orangutans and sharing the crisis



Cheyenne Mountain Zoo's Tool Kit

Sharing tools with zoos and aquariums and other NGO's

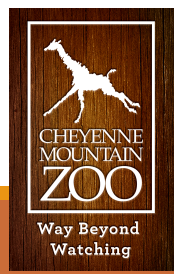
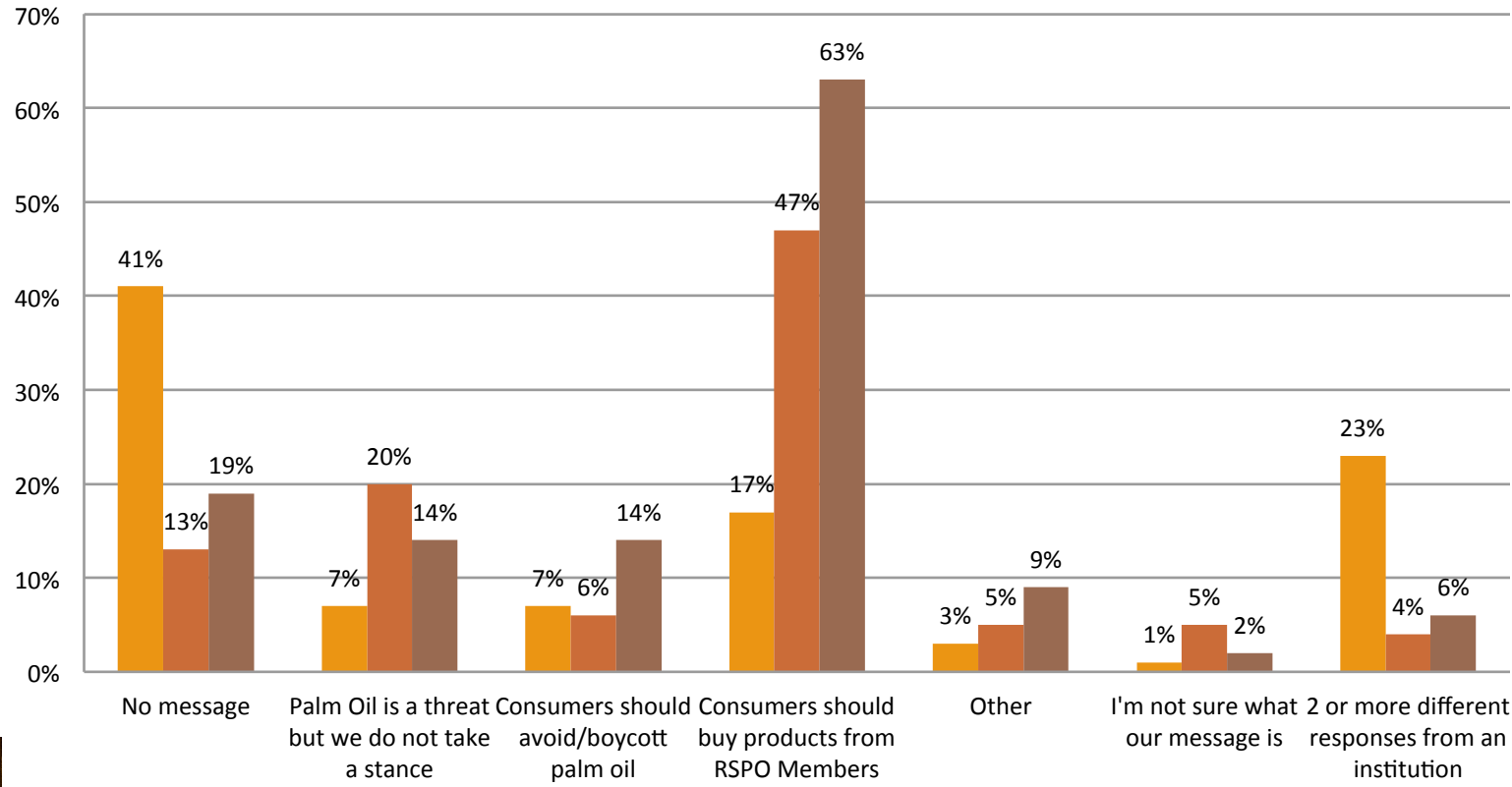
Tool kit includes:

- Sample Letters
- Educational hand-outs
- Graphics
- Kids Activities
- Photo Library
- Video Library
- Messaging/chats



Progress in Consistent Messaging in the US

Palm Oil Messaging in N. America Zoos 2011, 2014, 2018



Consistent Messaging is Key



What's the message?

Purchase products from companies that are members of the RSPO and working toward using only certified sustainable palm oil (CSPO) It's easy--download CMZOO's free app!

What's NOT the message:

Avoid palm oil or use sustainable palm oil
Remember reading labels does not work.

Association of Zoos and Aquariums member institutions have over 180 million guests each year (Power in numbers!)

How YOU Can help



“Hadiah”, Bornean Orangutan

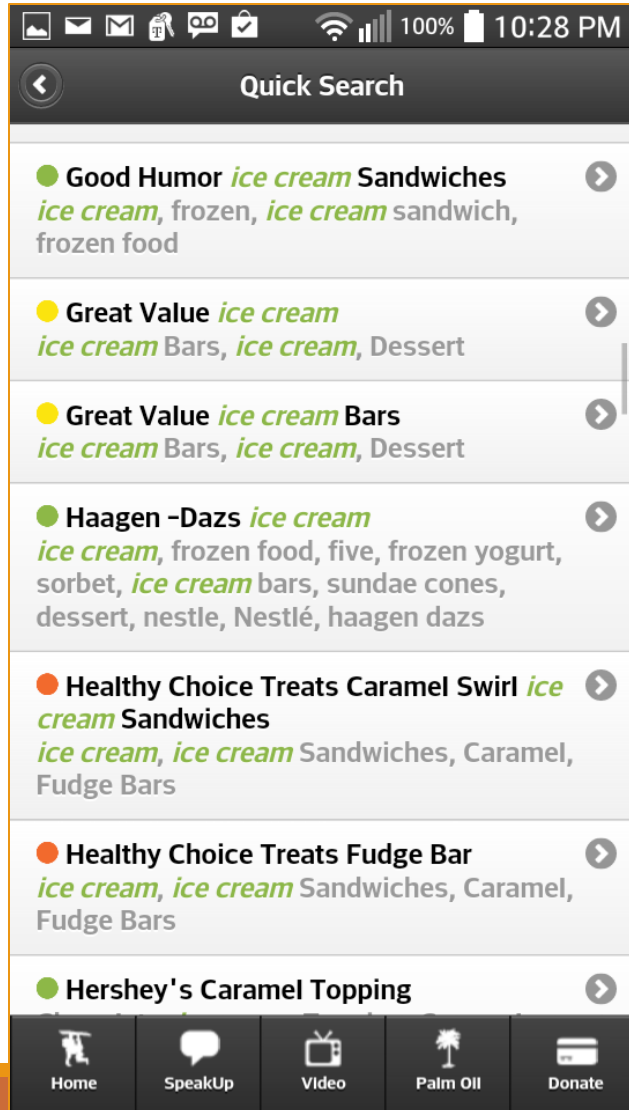
CMZ's Sustainable Palm Oil App



- Phone app over 90,000 downloads
- Share with your friends and family



CMZ's Sustainable Palm Oil App



- **Green = Excellent**
- **Yellow = Good**
- **Orange = Needs Improvement**

ALL green, yellow and orange choices are manufactured by RSPO member companies



Guests Taking Action You Can Too!

Last Year:

- Over 13,000 signatures on petition letters sent to companies
- Over 16,000 coloring sheets sent to companies
- Targeted companies:
 - U.S. Foods
 - Kroger (King Soopers)
 - Walgreens
- This year we are also focusing on Amazon



Palm Oil Newsletter

August 20, 2017
Issue 7

Palm Oil Roundup

HSBC Triggers Investigation into P.O Company

HSBC has triggered an investigation into Noble Plantations following allegations the company was preparing to clear thousands of hectares of rainforest in Papua for oil palm cultivation.

In a decision hailed as a first by a major bank, HSBC has asked the RSPO to investigate.

The move follows pressure from Environmental Investigation Agency (EIA) and Greenpeace, which last month wrote to four banks linked to a new \$750m (£580m) bond issued by commodities giant Noble Group.

The NGOs asked HSBC, ABN Amro, ING and Rabobank to take action on allegations that Noble Group's subsidiary, Noble Plantations, was gearing up to clear 18,000 hectares of pristine rainforest in Papua.

None of the banks made a formal complaint, but HSBC did pass the documents on to the RSPO, which instigated the probe into Noble Plantations. [Click here](#) to read more.

New U.S. RSPO Members
June and July 2017:

- Benjamin Foods
- Bimbo Bakeries USA, Inc
- Brothers Baking Company
- Calico Cottage, Inc.
- Dawn Foods, Inc.
- Double B Foods
- Gilco Products, Inc.
- Gold Standard Baking
- Hormel Foods Corporation
- Kenny's Candy Company, Inc.
- MJAY's Specialty Baked Foods
- Mrs. Redd's Pie Co., Inc.
- Sanders Candy Factory
- Savor Street Foods, Inc.
- Signature Breads, Inc
- Terri Lynn, Inc.
- Waffle Waffle LLC

NEW RESOURCES!

Picnic & Barbecue Guide! Enjoy eating outdoors with products made by RSPO member companies. [Get it here!](#)

Awareness Video! An updated resource about the palm oil crisis. [Watch it here!](#)

P.O. in the News

Meet the S. Korean Companies Destroying Indonesia's Virgin Rainforest ([read more...](#))

PepsiCo Reports Continued Progress Towards Goal of 100 Percent Sustainable Palm Oil ([read more...](#))

Check out all the free resources available to use in our toolkit!
[CMZ's Palm Oil Toolkit](#)



Get the Sustainable Palm Oil Shopping Guide App  

Visit cmzoo.org/palmoil to access this newsletter & more!



CHEYENNE MOUNTAIN ZOO
Way Beyond Watching

Keep up-to-date with the sustainable palm oil industry:

Sign-up to receive our monthly newsletter at palmoil@cmzoo.org



Samboja Lodge



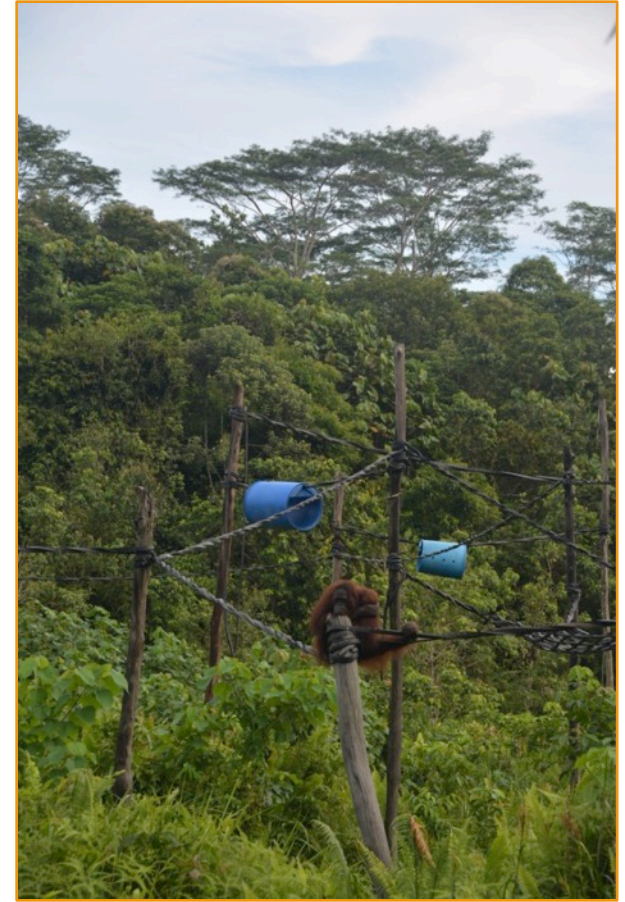
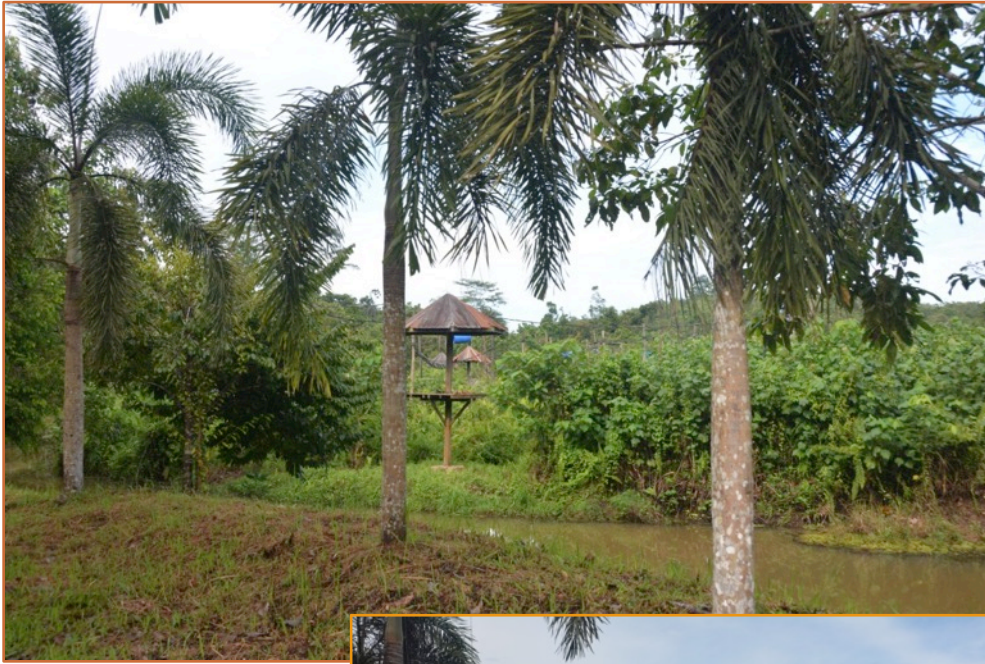
Balikpapan, Indonesia



THE BORNEO
ORANGUTAN
SURVIVAL
FOUNDATION



Orangutan Islands



THE BORNEO
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Papa's Story



THE BORNEO
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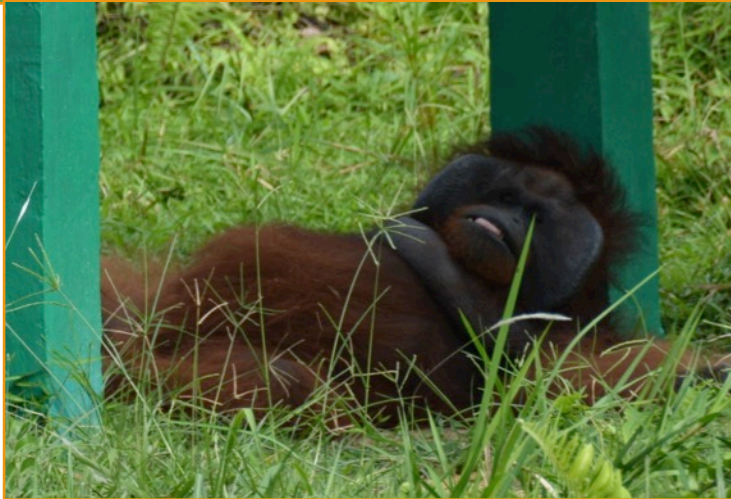
Papa's Story



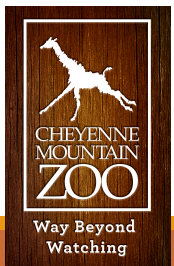
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Papa's Story



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Let's make a difference together!



YOUR CHOICES
CAN CHANGE THE
WORLD

PALM OIL AWARENESS



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Contact us at: palmoil@cmzoo.org