

Case Studies

Banned Persistent Air Pollutants (POP) Leakage

Ex: DDT

blitzes bugs!



PESTROY DDT

TRADE MARK REG. U. S. PAT. OFF.



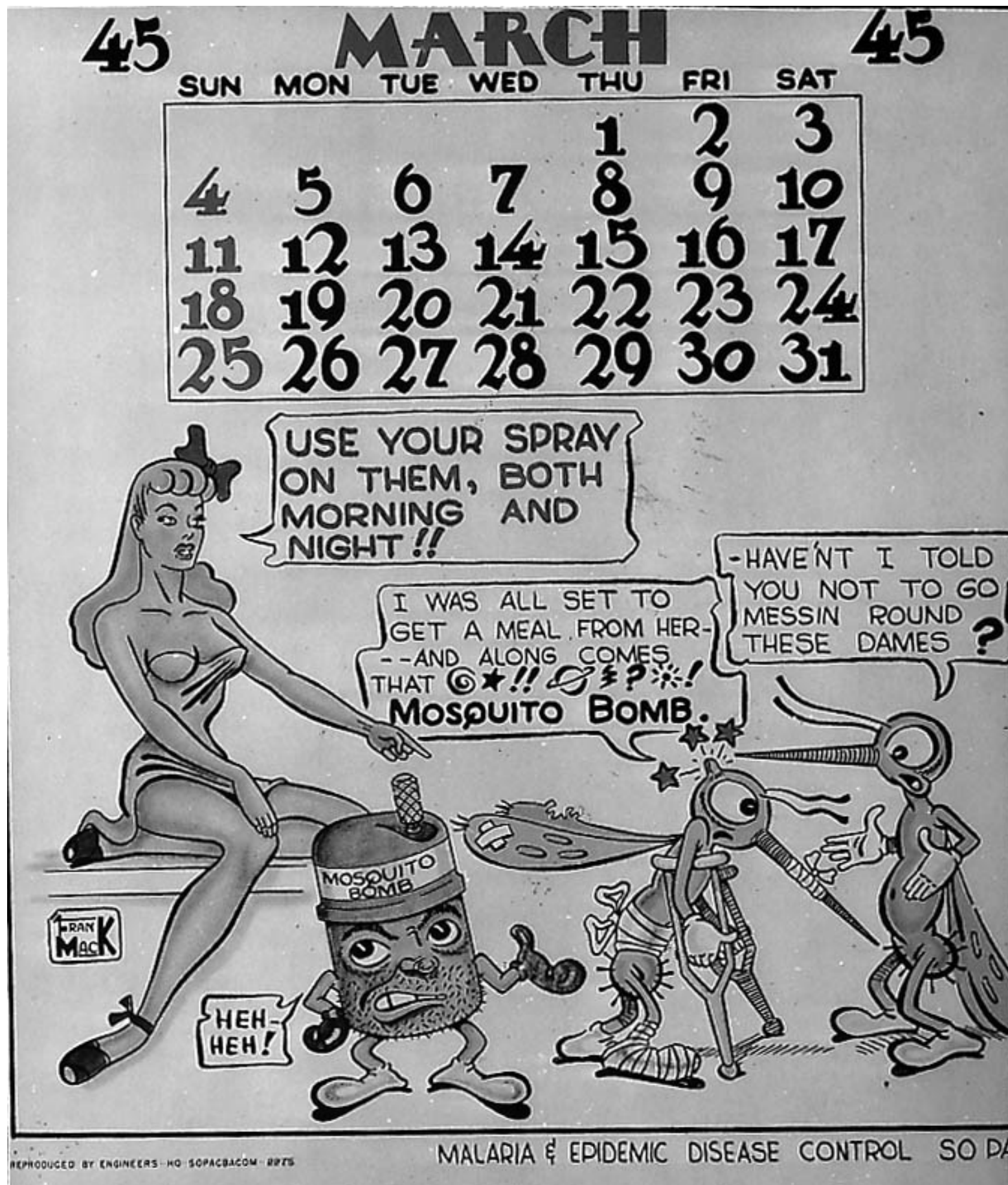
KILLS: ROACHES, BEDBUGS, MOTHS, FLEAS, LICE, SILVERFISH, GNATS, TICKS, WASPS, CRICKETS, ANTS, MANY OTHER INSECTS.

LASTS FOR MONTHS!

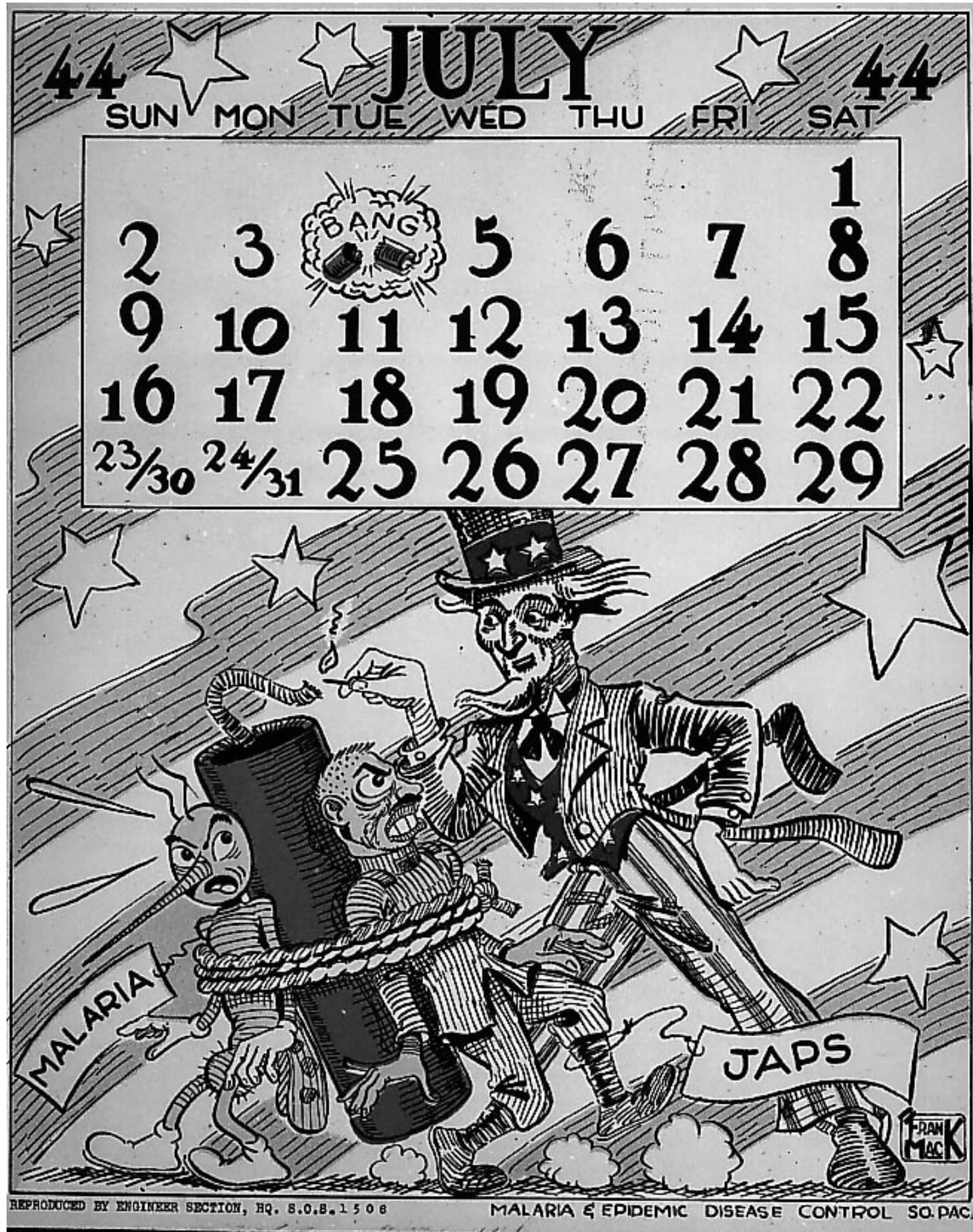
69¢ PINT **39¢ 3 OZ.** **SAFE! SURE!**

PRODUCTS OF *SHERWIN-WILLIAMS RESEARCH*

<https://youtu.be/gtcXXbuR244>



Calendar page for March 1945 (Reeve 88266-25), National Museum of Health and Medicine



Calendar page for July 1944 (Reeve 88266-18), National Museum of Health and Medicine

#value

military
cultural
medical

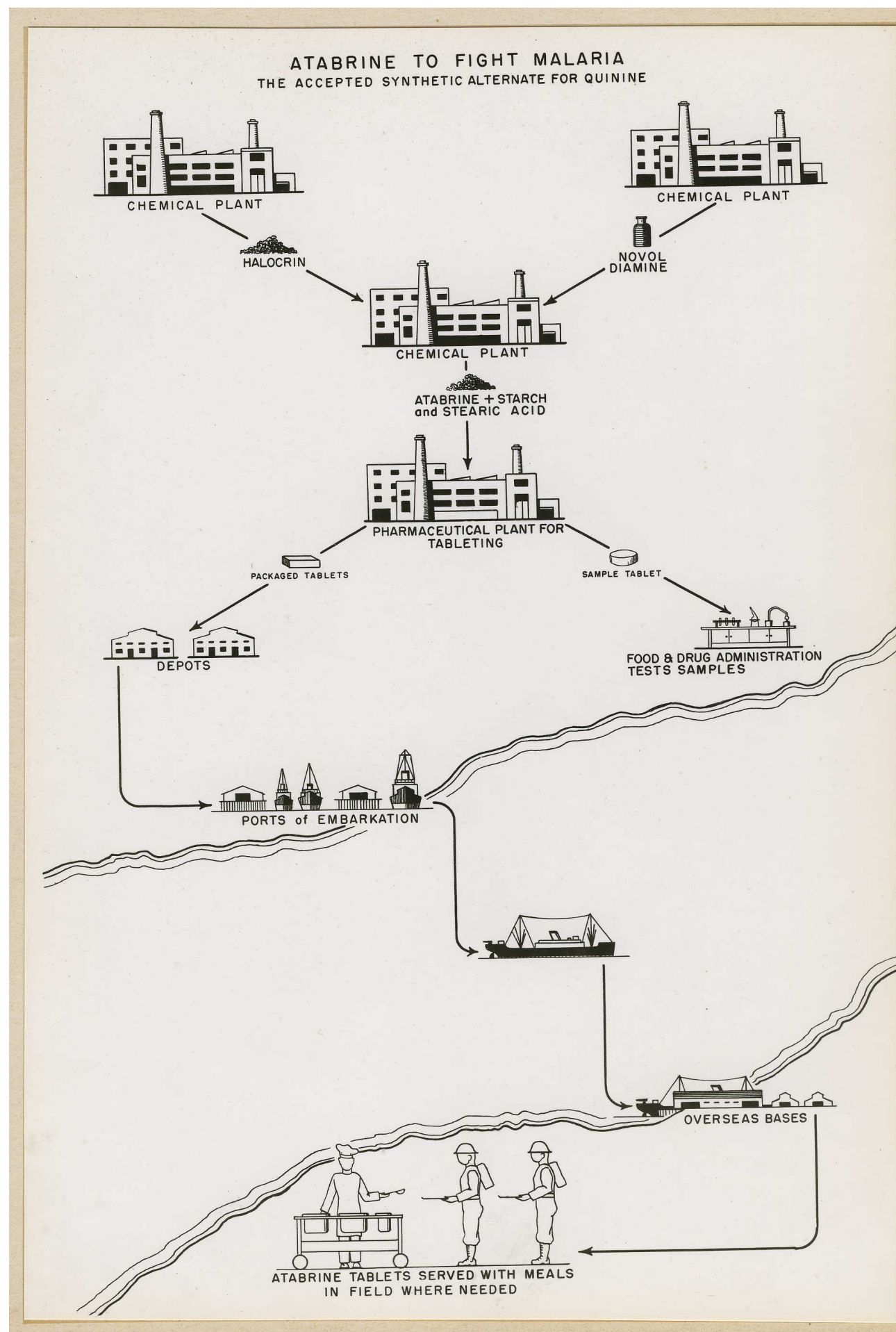
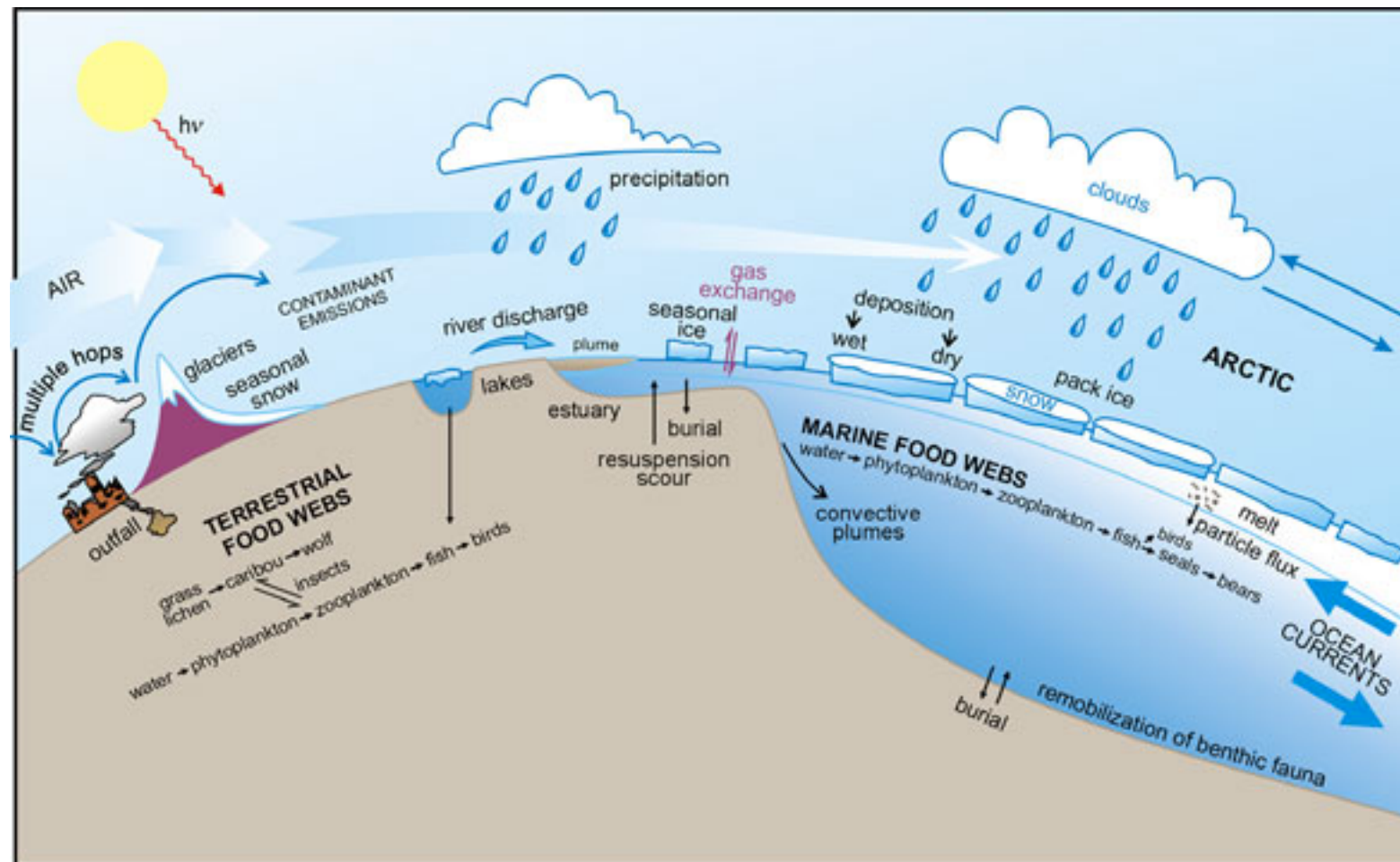


Diagram of Atabrine manufacture and distribution (Reeve 75846), National Museum of Health and Medicine



#circulation



#storage

Links:

General information on DDT:

History and Impacts of the Pesticide DDT: <https://www.thespruce.com/what-is-ddt-history-impacts-1708897>

Shoot to Kill: Control and Controversy in the History of DDT Science: <https://web.stanford.edu/group/sjph/cgi-bin/sjphsite/shoot-to-kill-control-and-controversy-in-the-history-of-ddt-science/>

DDT: <http://www.popstoolkit.com/about/chemical/ddt.aspx>

Stockholm Convention on POP: <http://chm.pops.int/Implementation/PublicAwareness/PressReleases/AmendmentsentryintoforceGeneva,26August2010/tabid/809/Default.aspx>

Lecture slides on arctic haze and POP (Lakehead University): https://www.lakeheadu.ca/sites/default/files/uploads/53/outlines/2015-16/GEOG3331/3331_Lecture15_ArcticPollution_W16%20%281%29.pdf

Silent Spring by Rachel Carson (1962)

Counter-arguments (fake news?): The Truth About DDT and Silent Spring <https://www.thenewatlantis.com/publications/the-truth-about-ddt-and-silent-spring> & <http://industrialprogress.com/the-story-of-ddt/>

Scientific Papers:

* Climate change and global cycling of persistent organic pollutants: A critical review [pdf]

* Atmospheric concentrations and loadings of organochlorine pesticides and polychlorinated biphenyls in the Canadian Great Lakes Basin (GLB): Spatial and temporal analysis (1992e2012) [pdf]

* Atmospheric transport of persistent organic pollutants (POPs) to Bjørnøya (Bear island): <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.513.1164&rep=rep1&type=pdf>

* Effects of age, sex, and persistent organic pollutants on DNA methylation in children: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4410811/>

* Temporal trends of Persistent Organic Pollutants (POPs) in arctic air: 20 years of monitoring under the Arctic Monitoring and Assessment Programme (AMAP) [pdf]

<https://youtu.be/aJXJRNb-5kk>

High-yielding varieties (HYVs) Leakage



Ex: IR8 - the 'miracle' rice



“During the last half of the year, more than 2,350 Filipino farmers came to IRRI and received 2 kg of IR8 free of charge. This distribution had a major impact on its spread—farmers who saw its superior performance on neighbors’ fields asked for some seed to try on their own land.” -<http://irri.org/ir8>

“Poorer farmers, however, often have not been able to provide the required growing conditions and therefore have obtained even lower yields with “improved” grains than they had gotten with the older strains that were better adapted to local conditions and that had some resistance to pests and diseases. Where chemicals are used, concern has been voiced about their cost—since they generally must be imported—and about their potentially harmful effects on the environment.”

-<https://www.britannica.com/topic/agriculture/New-strains-genetics#ref311960>

“In the 1950s and 1960s development agencies overwhelmingly focused their efforts on the rural areas of the Global South. The countryside, where the vast majority of the world’s poorest lived, seemed the most likely source of communist insurgency. Indeed, in 1949 the Chinese Communist Party had risen to power on a tide of peasant support. These rural areas appeared to embody a pre-capitalist social and economic order. Many development projects aimed to erase this order, eliminate the grievances that might lead to rebellion, and integrate the postcolonial nations and their peasant populations into the global capitalist economy.”

[-http://etheses.lse.ac.uk/3267/1/Toner_Counter-Revolutionary_Path.pdf](http://etheses.lse.ac.uk/3267/1/Toner_Counter-Revolutionary_Path.pdf) (p101)



Links:

History and Impacts:

- * <https://www.britannica.com/topic/agriculture/New-strains-genetics#ref311960>
- * <https://www.moma.org/interactives/exhibitions/2013/designandviolence/miracle-rice-international-rice-research-institute/>
- * <https://www.grain.org/article/entries/240-irri-s-15-tonne-super-rice>
- * Hungry World: <http://www.hup.harvard.edu/catalog.php?isbn=9780674725812>
- * Geopolitics and the Green Revolution: Wheat, Genes, and the Cold War, J. Perkins (1997)
- * First the Seed: The Political Economy of Plant Biotechnology, 1492-2000, J. R. Kloppenburg (1988)

Glowing reviews about the 'green revolution':

- * The new green revolution: <https://www.economist.com/news/briefing/21601815-another-green-revolution-stirring-worlds-paddy-fields-bigger-rice-bowl>
- * Miracle Rice: https://livinghistoryfarm.org/farminginthe50s/crops_17.html

Scientific Papers:

- * Genealogy of the "Green Revolution" gene in rice: https://www.jstage.jst.go.jp/article/ggs/80/5/80_5_351/article

Project mapping rice genealogy:

Rice Child text: <http://elainegan.com/files/ganElaine-riceChild-wom.pdf>

Project documentation: <http://elainegan.com/riceDarc.html>

Map: <http://elainegan.com/riceDarc/index.html>

Phosphate Leakage



Arial view, phosphate trail from mine to port (photo: <http://www.conveyorbeltguide.com/examples-of-use.html>)

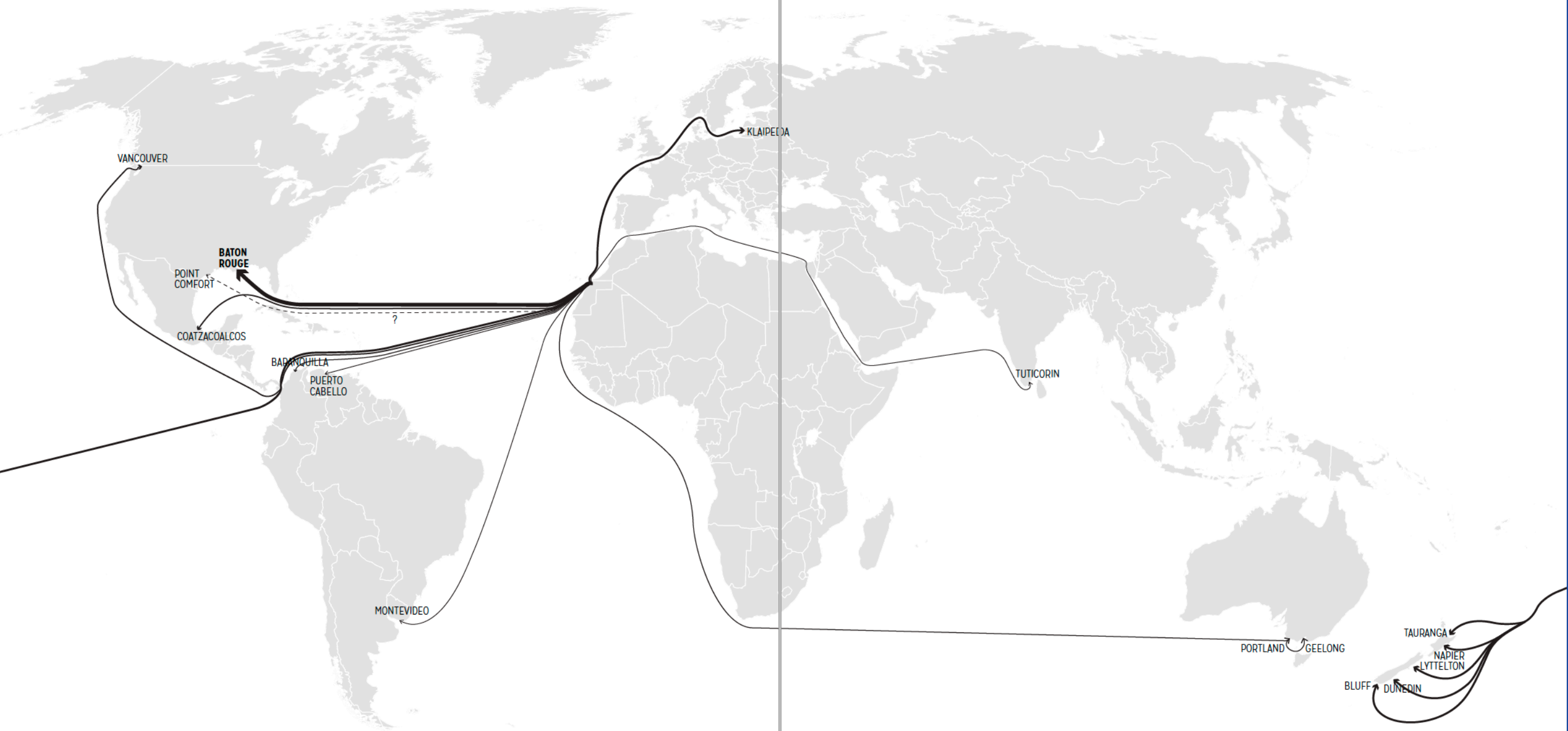


Bou Craa conveyor belt from the phospahe mine, 2013 © jbdodane.com (<https://www.flickr.com/photos/jbdodane/8549951181>)



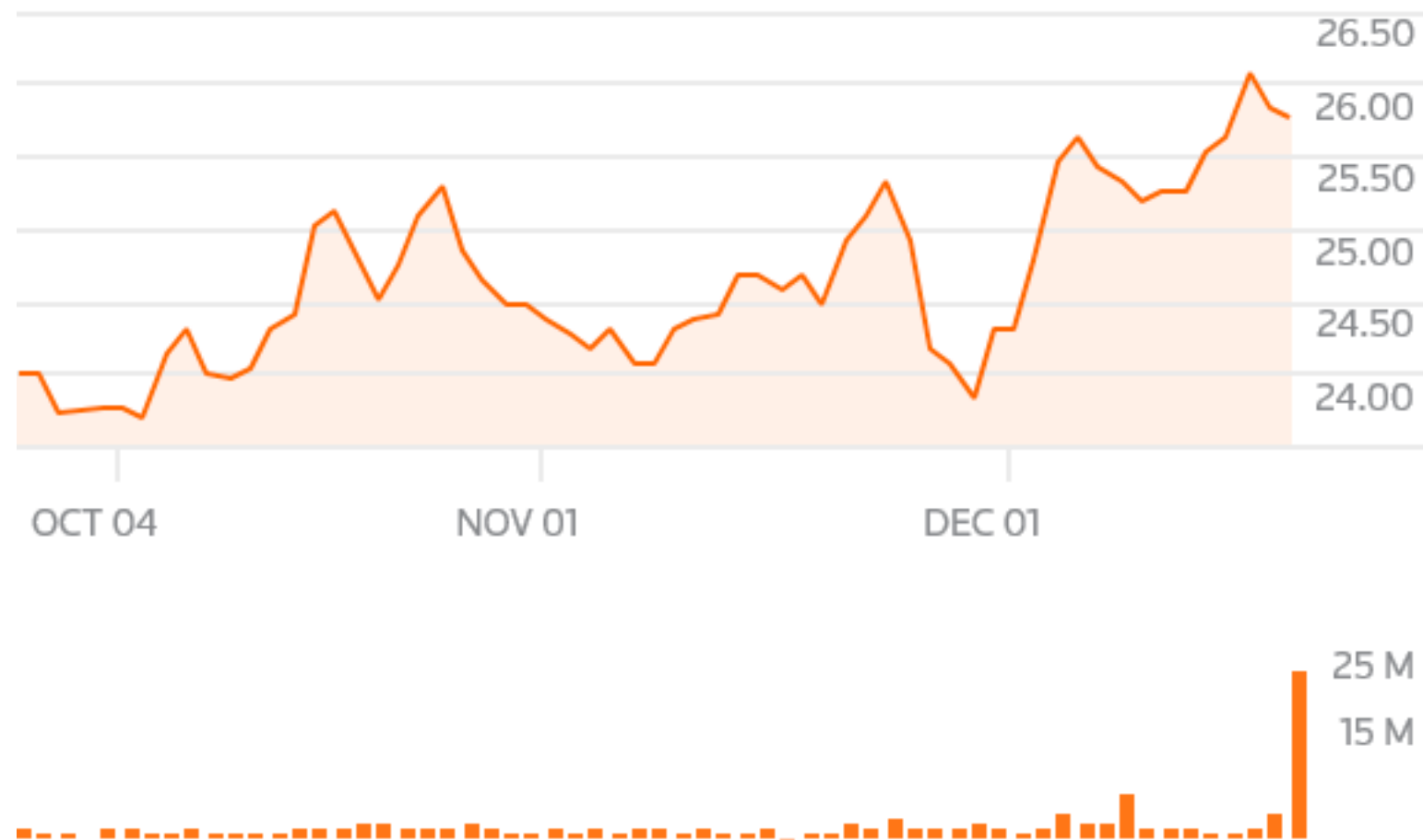


THE SHIPMENTS



In 2013, 2.2 million tonnes of phosphate rock was transported out of Western Sahara. WSRW has traced its route.

Potash Corporation of Saskatchewan Inc (POT.TO)



#storage?

Links:

History and Impacts:

Farmageddon: <http://www.eco-action.org/dod/no7/40-53.html#b16>

https://afrika.dk/sites/afrika.dk/files/p_for_plunder_2014_web.pdf

<https://the-sieve.com/2013/12/19/the-worlds-longest-conveyor-belt/>

https://en.wikipedia.org/wiki/2007%E2%80%9308_world_food_price_crisis

https://en.wikipedia.org/wiki/Bou_Craa

https://en.wikipedia.org/wiki/Moroccan_Western_Sahara_Wall

https://en.wikipedia.org/wiki/Madrid_Accords

<http://www.wsrw.org>

<http://www.water-research.net/index.php/phosphate-in-water>

'War & Refugees: The Western Sahara Conflict', ed. R. Lawless & L. Monahan, Pinter Publishers, London 1987

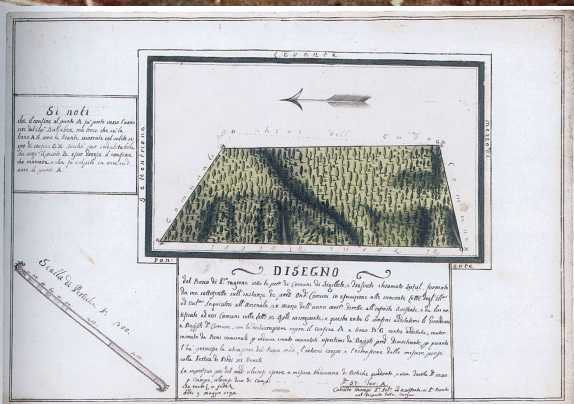
Phosphate commodity trading:

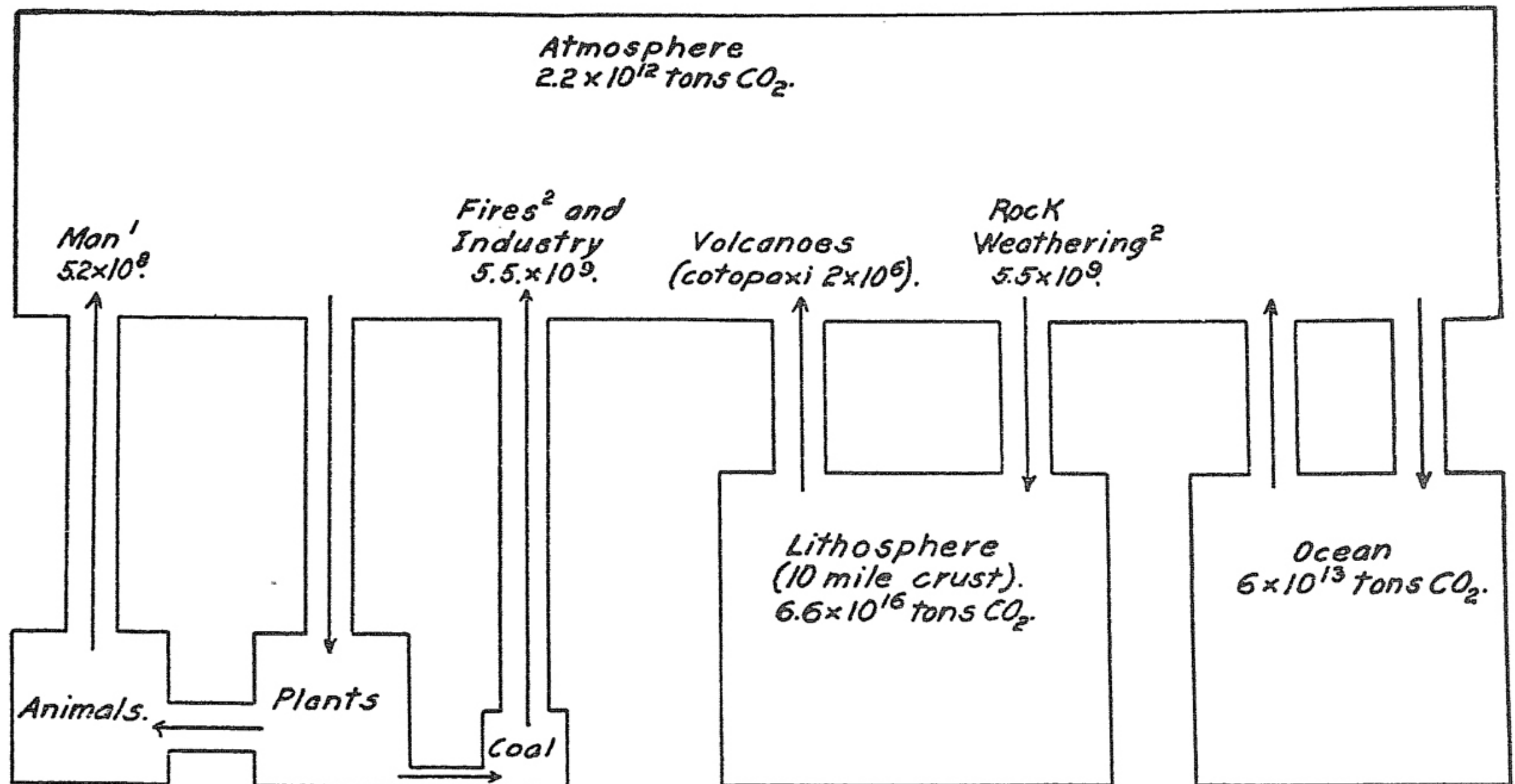
<http://phosphorusfutures.net/>

<http://www.reuters.com/article/fertilizer-phosphate-idAFN2223379920100922>

See additional Green Revolution links from HYVs case.

Carbon Leakage





1. Pfeffer Physiologie quoted by Yost Pflanzenphysiologie 1913, pg. 151.

2. F. W. Clarke, Data of Geochemistry 1920, pg. 49.

Figures without denomination are metric tons CO_2 per annum.

Figures with denomination are metric tons CO_2 actually present.

FIG. 47. CIRCULATION OF THE ELEMENTS IN NATURE. THE CARBON CYCLE

Carbon Emissions Futures - Dec 17 (CFI2Z7)

ICE

Add to Portfolio

Create Alert

↓ **6.98** -0.30 (-4.12%)

26/09 - Delayed Data. Currency in EUR (Disclaimer)

Type: Commodity
Group: Energy
Unit: 1 Tonne

Prev. Close: 7.28 | Open: 7.30 | Day's Range: 6.88 - 7.36

Start Trading

your capital is at risk

General Chart News & Analysis Technical Forum

Overview | Historical Data | Contracts

Carbon Emissions Futures Overview





Bio-diesel buses launches at KSRTC bus depot at Shanthinagar, in Bengaluru | NAGARAJA GADEKAL

Links:

History and Impacts:

- * Climate change and carbon markets: a panoramic history [http://eprints.lse.ac.uk/37397/1/Climate_change_and_carbon_markets_a_panoramic_history\(author\).pdf](http://eprints.lse.ac.uk/37397/1/Climate_change_and_carbon_markets_a_panoramic_history(author).pdf)
- * A short history of carbon trading - The Corner House <http://www.thecornerhouse.org.uk/sites/thecornerhouse.org.uk/files/carbonDDch2.pdf>
- * 1st Pongamia example: <http://www.downtoearth.org.in/coverage/pongamia-power-enables-adilabad-villagers-to-export-carbon-credits-to-germany-13165>
- * Production of Bio-fuel from Pongamia and its Performance on Ci-engine: https://www.ripublication.com/ijeem_spl/ijeemv4n6_12.pdf
- * The politics of carbon markets: an introduction: <http://www.tandfonline.com/doi/full/10.1080/09644016.2012.688353>
- * Carbon Pricing a Critical Perspective: <https://drive.google.com/file/d/18bfpaO4f8l4e9CmJPRL99FstaYqKthxV/view>
- * <https://globalcanopy.org/sites/default/files/documents/resources/LittleBookofLegalFrameworksforREDD+.pdf>
- * <http://geographical.co.uk/places/forests/item/2173-archive-redd-or-dead>
- * <https://www.giz.de/expertise/downloads/giz2011-en-making-redd-work.pdf>
- * <https://www.tni.org/en/article/to-reject-redd-and-extractive-industries-to-confront-capitalism-and-defend-life-and>

Carbon trading:

- * <http://carbonmarketwatch.org/>
- * <http://valuing-nature.net/research>
- * <http://www.worldbank.org/en/topic/climatefinance>

FRAUD

LCC Leakage Workshop 2018

i: @la_fraud | fraud.la | t: @FRAUD_la