

167 Jefferson - The greatest service which can be rendered any country is to add a useful plant to its culture

x i we are absolutely dependent on Plants Co-evolutionary with them

385 - Re "Little Pagans" mushrooms called in Russia

xii Plants Sugar, Cotton, (native) Tobacco responsible for Slavery/Racism

5 - Flatly says - "mutational changes in DNA is undirected - by chance"

? - is there opposing data? C-212

6 Metabolism/Genetics of Humans similar to alga, the orchid, the maple tree

All evolved from a common cell

x i For centuries people have lied, cheated, killed, to get a certain plant.

7 - 2.1 bil yrs ago free oxygen began to accumulate - photosynthesis ^{begin w/ blue green algae}

8 First Animals were when some algae lost their chloroplasts

10 Selective advantage of Flower - ...

of Fruit - protects nourish the new generation

of Seed - contains embryo will take parts of new plant

27 - Photosynthesis - The most efficient energy converting process on earth.

28 29 Detail

41 Memory aid - "See Hopkins Cafe Mighty good with a pinch of salt"

for MINERALS - inorganic - Needed by Plants - from rock or from dust fall

44 - All The Trace Minerals beyond "Hopkins Cafe"

45 Fertilizer Vital (only 10th of N in compost is available) to feed the results

of Enthusiastic Human over breeding.

49 - Forest - Distribution in the world

53 - Franklin Stove - reduced wood fuel requirements by 1/3

- Deforestation of Europe - result fore smelting.

South America 80% of wood harvest for fuel

65 - The Flower is, above all, a sexual symbol of great power and antiquity

68 - Air borne pollen - can travel 30 miles - can survive 10 mile Redies

69 Animal Pollination - adaptations so precise they boggle the mind

74 Sex - Koran - People are created out of a repulsive drop of seed, |? Wocw

Xian - Sex was sin - so necessary for theologians to insist Plants didn't have Sex

80 a Seed - a young plant in a box with its lunch.

84 "And you shall eat the plants of the field" Genesis 3/18

88/89 - Few of our plant foods are Native to North America

59 Reality is the Circle or Spiral Dance - Leaves - Each leaf or leaf pair is offset in a spiral pattern from the one above or below. (to get sun?)

91 - From T. Jefferson & Franklin on the US gathered plants from elsewhere

96 - Humans - Socially & Biologically - The most adaptable of living creatures

104 - Hemp SEED? No

Brain Damage - in Small Children - caused by inadequate protein

Supplier - not by inadequate caloric intake.

Body requires several amino acids (in these proteins?) Not synthesized by the body MOST plant proteins are low in these essential amino acids - Hemp seed perfect

108 New Wheat (Ries require 2-3 times the fertilizer / 3 times more pesticides)

Green Rev. needs irrigation, chemicals, & advanced machinery

109 No W Possible to create thousands of genetically identical plants from a single plant or even a single cell.

121 Now Grain Reserves Low, Needs Increasing, Pop. expands, land deteriorates

Must Move to - Local Production, reducing population.

121 - many plants require a cold period (as some need fire)

133 - Peasants feared the river or wind would not like being harnessed - and would seek revenge. Burned them down. TODAY - River never reaches the sea.

134 - long standing owned by many people for ~~to be~~ bread

135 - New Corn Removed - Oils would turn rancid in storage - Maybe wheat germ added later

179 - Sylvester for Graham first brought soy bean seeds to US from France

179 - Benjamin Franklin first brought wheat trade

117 Rome's wealth based on the wheat trade

POT 379 - sez marijuana is Portuguese word - via Mexico

No other hallucinogen? has a chem. structure resembling it.

392 Don't Confuse the issue of whether or not a person should use something with whether society should forbid it

397 No scientific books or herbal manuals written between 2006/1100 AD.

398 - The responsibility for preserving intellectual thought passed to the Saracens

149 - Brown Rice 12% protein - white Rice 7%

153 - corn - maize Māhiz - means "our mother" - Hopi Children ^{Great Prayer to Earth Mother for good corn}

154 - Cortez came to Mexico - 25m. people - by 1605 - 1 million

163 to 169 - Great Discussion of Essential Amino Acids

181 Wow - Family second to grasses in Econ. Importance are the Legumes

Soy beans - 45% protein & better balance of amino acids than do most plants

196 - What was done to the Irish - My God - Beggers in their own country -


211 2 fruit is a ripened ovary, seed et al. Vegetable - has no botanical definition.

228 Sugar meant Slavery - other Mass Labor migrations
 - Justified by Scripture.

236 Tea - He says caffeine is non addictive.

238 - Spirit of Japanese Tea Ceremony - goal - To have spirit of harmony with nature enhanced.

247 1550's Coffee prohibition - outlawed coffeehouses

251 Chocolate like very Entheogenic use in Aztecs
 only through partaking in ceremony could humans communicate with the gods.
 (A)  full of their needs.

258 - Food - defined - Humans have absolute requirements for proteins, fats, carbohydrates, minerals, and vitamins.

260 on Proteins - In adults, essential amino acids that are not made by the body. (A) The amount of protein synthesis will be limited if any one amino acid is in low availability.

271 - The Minerals - Make up 5% of Body weight
 30 mineral elements found 17 proven necessary so far.
 Calcium required in the highest amounts of all minerals.

Chapter 5 Plants in Religion - There it is - Quite mainstream American Univ of Vermont - Burlington Bible Translations (re plants) in accurate in accuracies perpetuated.

299 - The Fig - The Tree of Knowledge

301 - The Flower - Lily - Quoted Matthew 6:28-29 "Even Solomon in all his glory was not arrayed like this flower." Flower was probably iris.

304 - Cultures that could not have known of each other / Forming similar religious concepts about a plant.

306 Ecclesiastes 3:11 "The Lord created medicine from the earth. And a sensible man will not despise them. Verify."

308 - "Anti Evil" plants

310 - Hang Rose from ceiling where in room where secret surveillance was to be done
 Present Single Rose to woman

312 313 on TREES as sacred symbols + Tree of Life

315 VIKING Tree Legend Tree pierced into Heaven - So heroes enter Valhalla via the Rainbow Bridge

314 - central to Tree of Life concept is Center of the World Axis Mundi

318 - Possession of a branch of God's tree conferred extraordinary powers on mortals
 - Lots on Power/Magic Trees

320 - Originals worshipped **Earth Mother** Goddess worshipped in France

321 - **Mate in the Fields on Mayday**

330 - The ultimate entheo/evolutionary statement - Peyote - Toward Empathous

334 - Peyotism - Creates a very strong barrier in the way of christian religion (A) God
 James Mooney 1891 - reports on very fine reverent ceremonies - clean self aware emotionally stable.

335 - By 1925 Legal Harassment of Waco Am Ch. had nearly stopped (Mooney expelled & died)
 MOONEY - will be a saint of Evolutionary Church of Mother Earth

336 - Is Entheogenism inherently evolutionary/revolutionary
 intrinsically
 Quannah Parker - Another SAINT - American

342 Heroin Addicts - just cure themselves? As many Heroin addicts at the beginning of 20th Cent. about the end - but they were children treated for coughs.
 could be grown on 20 Square miles of suitable land.

345 - Enough Opium for all of USA
 (A) Addictioⁿ must be handled by means other than interdiction - #10 other means including alteration of the cultural and psychological stresses that society imposes on individuals.

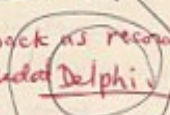
By 1815 China had a good share of Europe's Silver
 British made opium production mandatory in India - people reduced to new starvation

346 - Then British walkies
 Totally dominated China
 - by 1900 - estimated 10% of pop. of China used opium regularly.

347 - Look who big wealth started - Japanese policy to addict Chinese - \$ came from exploiting opium addiction in China - Sony, Toyota
 - BUT Opium caused more pain & saved more lives than any other plants

348 Cocaine 2000-8000 ft grown
 - increases cognitive ability.
 Freud & Thomas Edison - used Cocaine + president's opoes

350 Datura - Very toxic - Used ritually in India as far back as records go.

361 - Lots of Entheo Stuff on Datura - was the plant used Delphi
 (A)  who takes it is dependent from their reason for a long time.

362 - medicine not allowed to help women. Dr. called heretic who used datura/opium for difficult childbirths supposed to pain

369 Henbane - mix seeds with smoking material - to strengthen the smoke
 367 pain killer, antispasmodic - ear ache toothache stomach ache?

? For Tooth ache - Henbane - By - (wow) 3 Babylonians, Egyptians, Rig Veda
 Screams (shakes person) when picked. Must be picked by a dog...?
 Grow Datura, Henbane, mandrake, -Mandrake Analgesic, Soporific

373 Jesus / Resurrection - The sponge of "ginger" soaked in mandrake juice

396 - "As settlement developed priests of the Great Mother - learned of healing plants" - ?

385 - "Little Pagans" - mushrooms

384 - Flesh of the Gods in S. America Laughing Fungi of the orient

392 - Ledsin Commission Dont Confuse whether someone should use something - & whether we should Jail Them

443 - Vedic's - Egyptians know "indoor tanning" formula

BOOZE ENTHEO

468 - in all cases people believed beer was a heavenly gift.

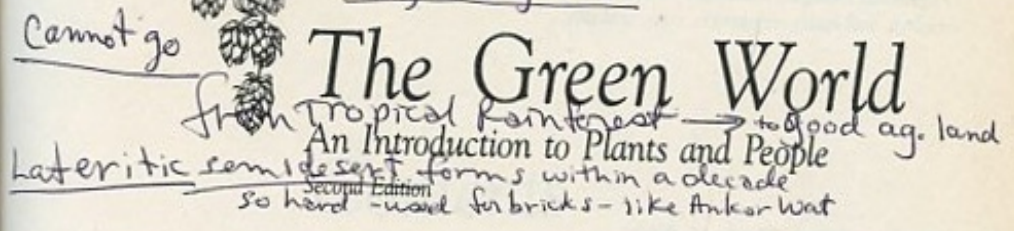
- 475 Temperance framed as a Moral Issue - Yes - But issue is individual freedom in a free society.
- 476 On Prohibition - not noble experiment was Unmitigated Disaster - Am. people got TIRED of violence etc, and the huge disregard of Civil Liberties.
No battle over a plant product has ever so polarized a people.
- 484 First Paper - Chinathon Arabs - Europe first in Zativa, Spain
- 488 PAPER disastrous Ecological Consequences ☆☆☆
Great Deal to Learn about corporate social responsibility.
- 493 - Cotton clothes 1150 brought by arabs. Europeans hadn't seen it.
3000 BE - cotton cloth in Mexico and Peru.
- 495 - England - supreme in wool cloth manufacture Outlawed cotton at first
- Impossible to underestimate importance of COTTON GIN.
- 503 Egyptian Linen very fine - 500 threads per in - A robe goes thru a ring
British Naval ships depended on F12 sails? - hemp ropes.
- 514 - It is always the Dutch who get a plant to grow & produce well under their control
Quinine, Rubber
- 512-13 - As if Sugar Rum Tea Opium Cotton etc stories weren't enough
Rubber - early 1900's Rape & Slavery/Killing in South America - Worse in Africa
- 518 Exact Analogy to Lora - Rubber industry from a plant - riches - Not Replace Plant
- 520 ENTHEO - with tobacco - Mayan - 6 Gods smoked Aztec deities
- 524 - Tobacco Smokers Behaved - Executed etc. as it spread
Molier - like Sartre - life without tobacco not worth living.
- 527 Thomas Jefferson - Sold his library as nucleus of Lib of Congress to pay his debts.
- 530 US Tobacco Cigarettes today rather weak - but still physiologically addictive
- 555 - "Deserts are on the march" 555-Method outlined
- 561 - IRRIGATION - Essential - Nearly 1/2 world's plant production (for humans) depends on it. few areas of world get Adequate Water
- 563 - only drip irrigation (Israel?) is fairly efficient.
30% 30% of Water on earth is Fresh (unfrozen??) Water
Remove Forest - get Desert - valley of Tigris & Euphrates - Now a "forbidding midland"
Desertification - Greatly Accelerate in 20th Century
- 571 - Not even a minimally satisfactory solution to this problem is at hand. Well so what now? - How does U.S. solution work on soils?
- 572 All Cultures have had a feeling of awe and reverence for TREES
- 573 - We are now seeing the decline and death of trees.
All major shade tree species in trouble

585 Brazil Tropical Forest Totally Govt Policy - tax supported
Natives wiped out

586 - Nearly 1/2 of tropical forests wiped out
Will be essentially gone in 50-75 years
A cattle ranch out of Tropical forest lasts only 5 or 7 years!
Tropical Biomass is a huge CO² sink - 30% has already been destroyed
1900 300 ppm 2000 350 ppm 2050 450

Loss of Plant Species - This simplification of the biosphere has no parallel in world history.
E.O. Wilson "The Folly our descendants are least likely to forgive us"

Cannot go from Tropical Rainforest to good ag. land
Lateritic soil desert forms within a decade
so hard - used for bricks - like Anker Wat



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