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A Chronicle of Economic Botany

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A CHRONICLE OF ECONOMIC BOTANY

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The purpose of this compilation is to identify the dates of various critical discoveries, events, voyages, inventions, publications, etc. that relate to economically important plants. I begin by setting the stage, so to speak, with cosmological considerations -- the formation of the universe, solar system, and our planet. The next several entries relate to the appearance of life on the earth, beginning about 4 billion years ago. The evolution of our immediate ancestors began about 4 million years ago, with the first true human beings appearing in Africa approximately 1.5 million years ago. Our use of plants begins at about that point, with such discoveries as fire-making, the building of shelters, and the cosmetic use of dyes. About 150,000 years ago we began incorporating flowers into ritual burials; there is some evidence that 60,000 years ago we started using various herbs because of their medicinal properties. Farming of cultivated plants began about 16,000 years ago; the domestication of various plants and animals approximately 10,000 years ago. Most of our important crop plants were domesticated over the next few thousand years. Only a handful of plants have been domesticated in the last two millennia.

In about A. D. 800, Irish voyagers reached Iceland, beginning an age of exploration that would last for a thousand years. Among the many notable accomplishments of Marco Polo, Christopher Columbus, James Cook, and others was a dramatic increase in our knowledge of the natural history of our planet and the exchange of plants and plant products around the globe. As the sixteenth century came to a close, newly developed instruments and techniques in the fields of botany and chemistry formed the basis of our modern understanding of the plant kingdom. This was followed by the appearance of a series of inventions designed to extract various products from plants and to process them.

The nineteenth century saw the refinement of chemical extraction procedures that allowed us to isolate and purify a number of economically important materials, especially certain alkaloids with medicinal and psychoactive properties.

In the twentieth century, we have witnessed the growth of giant industries based upon the supplying of a long list of plant products to the consumer. It was a little over a hundred years ago that the field of genetics was founded with the investigations of Strasburger and von Beneden into the mechanisms of mitosis and meiosis. For the last several decades, we have developed the techniques needed to control the genetic heritage of many of our most important crops and to create entirely new ones in our laboratories. Our studies have also shown how dangerous plant products such as alcohol, tobacco, and the opiates can be; how destructive to the natural environment our conversion of land for the growing of crops can be; and how we have become increasingly dependent upon a relatively short list of genetically-impoverished plants.

DATE EVENT, DISCOVERY, PUBLICATION, ETC.

Years Ago:

- 13,800,000,000 The "Primordial Explosion" or "The Big Bang" 12,500,000,000 Galaxies form
- . . .
- 6,000,000,000 Sun forms
- 5,000,000,000 Solar system forms 4,500,000,000 Earth forms
- 4,000,000,000 Beginning of life on Earth (bluegreen algae)
- 3,700,000,000 Oldest microbial life (stromatolites in Greenland)
- 1,600,000,000 Multicellular plant life evolves
 - 425,000,000 Terrestrial plant life evolves
 - 395,000,000 Insects evolve
 - 380,000,000 Ferns evolve
 - 350,000,000 Gymnosperms (cone-bearing plants) evolve
 - 216,000,000 Mammals evolve
 - 200,000,000 Continental drift begins
 - 123,000,000 Flowering plants evolve
 - 69,000,000 Primates evolve
 - 67,000,000 Extinction of the dinosaurs
 - 60,000,000 Grasses evolve (oldest fossils)
 - 14,000,000 Ramapithecus, oldest human-like primate, evolves in Africa and India
 - 11,000,000 Grazing animals evolve
 - 7,000,000 Sahelanthropus tchadensis ("Toumai man"), oldest hominid species, evolves in Africa
 - 4,400,000 Ardipithecus ramidus ("ardi") evolves in Africa
 - 4,000,000 Australopithecus afarensis ("Lucy") evolves in Africa
 - 3,700,000 Modern horses evolve
 - 3,400,000 Early human diet now involves consuming grasses and sedges of the savannah
 - 3,200,000 Large ice sheets build up over northern continents
 - 2,400,000 Paleolithic (Old Stone Age) begins
 - 2,400,000 Hominids in Africa make first stone tools
 - 2,000,000 Australopithecus boisei and A. robustus evolve
 - 1,900,000 Homo habilis ("Handy Man") evolves in Africa; first hand axes
 - 1,800,000 First stone dwellings (Tanzania)
 - 1,760,000 More advanced stone tools in use in present day Kenya
 - 1,600,000 Apes and prehumans use red ochre as a cosmetic
 - 1,500,000 Homo erectus, first true human, emerges in Africa
 - 1,400,000 Discovery of fire (Kenya)
 - 1,000,000 Earliest evidence of campfires for cooking and socializing
 - 1,000,000 Homo erectus migrates through the Old World tropics
 - 900,000 First stone tool use in Europe (southeastern Spain)
 - 800,000 Homo erectus populates temperate zones; makes shelters from branches
 - 700,000 Humans in northern Europe, based on 32 black flint artifacts
 - 420,000 First huts (France); first fishermen (France)
 - 200,000 Homo sapiens ("Thinking Man") evolves
 - 200,000 Artistic hand axes appear
 - 150,000 Neanderthal Man emerges in Paleolithic Europe; ritual burials there and in Far East
 - 127,000 Last glaciation and associated warming period
 - 79,000 Oil-burning lamps made of stone in use
 - 72,000 Early humans use fire to heat rocks during tool making

- 60,000 Earliest evidence of herbal medicine
- 50,000 Humans first populate Australia
- 45,000 Music and oral literature developed (Asia)
- 40,800 Oldest cave paintings (El Castillo, Spain)
- 35,000 Oldest written records
- 35,000 Asian hunters cross Bering Strait
- 35,000 Cro-Magnons appear; Neanderthals decline
- 35,000 Flute, first known musical instrument, discovered in a cave in Germany
- 30,000 Earliest use of flour from tubers (perhaps potato) in Italy, Russia, and Czech Rep.
- 30,000 Human settlements in Mexico
- 27,000 Cave art (France); ceramics and sculpture (Czechoslovakia)
- 27,000 First humans colonize Japan
- 20,000 Barley milled, the oldest evidence of food processing (Israel)
- 21,000 Sewing needle invented
- 18,000 Bow and arrow invented (Europe)
- 18,000 Laurentide and Scandinavian ice sheets attain their greatest extent
- 16,000 Mesolithic begins
- 16,000 Farming of cultivated plants begins
- 15,000 Ropes invented (France)
- 13,000 Grinding stones for grain developed (Egypt)
- 11,000 Pottery developed (Japan)
- 11,000 Bottle gourd domesticated (Africa ?)
- 10,000 Dog domesticated (Iraq/Palestine)
- 10,000 World population reaches 4,000,000
- 9000 Neolithic (New Stone Age) begins
- 9000 Emmer wheat and barley domesticated (Palestine)
- 9000 Sheep domesticated (Iran/Afghanistan)
- 8500 First town built (Jericho, north of the Dead Sea)
- 8500 Lima bean domesticated (South America)
- 8000 Flax, the oldest textile fiber, first used
- 8000 Last Ice Age ends
- 8000 Bering Land Bridge severed
- 8000 Dog domesticated (North America)
- 8000 Goat domesticated (Iran and Iraq)
- 8000 Potato domesticated (Peru)
- 8000 Pumpkin domesticated (Mesoamerica)
- 8000 Sweet potato domesticated (Peru)
- 8000 Common bean domesticated (South America)
- 8000 Ulluco domesticated (South America)
- 8000 World population reaches 5 million
- 7500 Rice domesticated (Indochina)
- 7500 Water buffalo domesticated (Indochina)
- 7500 Pig domesticated (E. Asia)
- 7500 Rye domesticated (Syria)
- 7000 Agriculture begins to replace hunting-gathering
- 7000 Village life in the Near East
- 7000 Einkorn wheat domesticated (Syria)
- 7000 Durum wheat domesticated (Anatolia)
- 7000 Yams domesticated (Indonesia)
- 7000 Banana domesticated (Indonesia)
- 7000 Coconut domesticated (Indonesia)
- 7000 Cattle domesticated (Anatolia)
- 7000 First metalworking (Anatolia)
- 7000 Sugar cane domesticated (New Guinea)

- 6800 Lentils in cultivation (Israel)
- 6500 Beans and gourds domesticated (Mexico)
- 6500 Earliest domestication of plants in Andes
- 6500 Flax domesticated (Silesia)
- 6500 Weaving and printed textiles developed (Anatolia)
- 6300 Quinoa domesticated (South America)
- 6000 Copper Age begins
- 6000 Bread wheat domesticated (Southwest Asia)
- 6000 Citrus fruits domesticated (Indochina)
- 6000 Lentil domesticated (Southwest Asia)
- 6000 Squashes domesticated (Mexico)
- 6000 Brewing of malted beer begins
- 6000 Bulrush millet domesticated (Algeria)
- 6000 Finger millet domesticated (Ethiopia)
- 5500 Maize domesticated (Mesoamerica)
- 5500 Foxtail millet domesticated (Central China)
- 5500 Peach domesticated (Central China)
- 5000 Maize a major crop in Tehuacan Valley of Mexico
- 5000 Avocado domesticated (Mexico)
- 5000 Chicken domesticated (Southern Asia)
- 5000 Llama and alpaca domesticated (Peru)
- 5000 Horse domesticated (Kazakhstan)
- 4500 Date palm domesticated (India)
- 4500 Sorghum domesticated (Sudan)
- 4500 Hunting/gathering and fishing in Japan
- 4300 Cotton domesticated (Mexico)
- 4300 Tepary bean domesticated (Mexico)
- 4004 Year of Creation in the Christian calendar
- 4000 Bronze Age begins
- 4000 Grape domesticated (Turkestan); wine making begins
- 4000 Oil palm domesticated (Sudan)
- 4000 Silkworm domesticated (China)
- 3760 Year of Creation in the Hebrew calendar
- 3641 Year of Creation in the Mayan calendar (10 February)
- 3500 Wheel invented (Sumeria)
- 3500 First writing
- 3500 Olive domesticated (Crete)
- 3500 Zebu cattle domesticated (Thailand)
- 3300 Jack bean domesticated (South America)
- 3300 Coca domesticated (South America)
- 3000 Cities spread into Nile Valley
- 3000 Plow invented (Near East)
- 3000 Accurate stellar calendar invented (Egypt)
- 3000 Cotton domesticated (India)
- 3000 Peanut domesticated (Peru)
- 3000 Donkey domesticated (Palestine)
- 3000 Two-humped camel domesticated (Iran)
- 3000 Elephant domesticated (India)
- 3000 Mule domesticated (Palestine)
- 3000 Rice under cultivation in China
- 2800 Hemp rope invented (China)
- 2800 Major flood covers much of Mesopotamia
- 2800 Sickle invented (Sumeria)

- 2800 Emperor Shen Nung publishes "Pen Tsao," the first herbal
- 2700 Tea first used in China
- 2600 Pyramids built in Egypt; cities in the Indus Valley
- 2600 Egyptian bakers develop more than 50 varieties of bread
- 2600 Egyptian voyage to Byblos to gather cedar
- 2500 Cat domesticated (Egypt)
- 2500 Yak domesticated (Tibet)
- 2500 Egyptians use papyrus as writing material
- 2500 Pharaoh Sahure sends fleet to Punt for myrrh
- 2500 African yam domesticated (West Africa)
- 2000 Alfalfa domesticated (Iran)
- 2000 Tea and banana cultivated in India
- 2000 Apples cultivated in Indus Valley
- 2000 Figs cultivated in Arabia
- 2000 Guinea pig domesticated (Peru)
- 2000 Watermelon cultivated (Africa)
- 2000 World population reaches 50 million
- 1750 Code of Hammurabi regulates beer
- 1700 Rye cultivated in eastern Europe
- 1680 Egyptians develop leavened bread
- 1500 Soybean domesticated (Manchuria)
- 1500 Bronze sickles and scythes used in Europe
- 1500 African rice domesticated (West Africa)
- 1495 Queen Hatshepsut sends team to Land of Punt to collect spices
- 1450 Mesopotamians use seed drill
- 1400 First alphabet completed
- 1400 Glass invented
- 1400 Smelting and forging of iron (Anatolia)
- 1300 Manioc domesticated (South America)
- 1300 Sunflower domesticated (North America)
- 1200 Iron Age begins
- 1000 Oats domesticated (Central Europe)
- 1000 Phoenicians terrace hillsides to prevent erosion
- 1000 Maize with large ears domesticated (Mexico)
- 1000 Millets domesticated (Korea)
- 800 Oldest New World pyramids
- 800 Widespread flood appears to destroy much of Mesopotamia
- 700 Founding of Rome
- 700 Hoe invented (North America)
- 600 Rise of science in Greece, China, etc.
- 500 Tea domesticated (Tibet)
- 500 Cloves domesticated (Indonesia)
- 500 Selection and breeding of maize in South America
- 500 Currant domesticated
- 500 Reindeer domesticated (Central Asia)
- 500 Bronze sickles and scythes in use in Europe
- 484 Herodotus sees cotton in India
- 400 Tobacco domesticated (South America)
- 400 Hippocrates compiles list of uses for herbs and spices
- 399 Socrates commits suicide, presumably using poison hemlock (Conium maculatum)
- 350 Tobacco first used in North America
- 300 Turkey domesticated (Mexico)
- 300 Greek farmers rotate crops to main soil fertility
- 200 Pearl millet cultivated in sub-Saharan Africa
- 250 Cacao cultivated by Maya in Belize

- 100 Vertical and horizontal waterwheels in use
- 100 Chinese use dried chrysanthemum flowers as first insecticide
- 85 Seed-drill plough invented (China)
- 50 Herodotus publishes "Histories" of his Mediterranean journeys
- 40 Rotary winnowing machine invented (China)

Beginning of the Current or Christian Era:

- 65 Year's supply of cinnamon used at funeral of Poppaea Sabina, wife of Emperor Nero
- 70 Pliny the Elder publishes 37-volume "Natural History"
- 78 Dioscorides publishes "De Materia Medica"
- 100 Sieva bean domesticated (Mexico)
- 105 T'sai Lun invents first true paper from paper mulberry, hemp, and scrap fibers
- 190 Galen extracts juices from plants for medicinal uses
- 200 Potato domesticated (Peru and Bolivia)
- 290 Moche priest interred with gold and silver ornaments shaped like the peanut (Peru)
- 301 Theophrastus describes caprification of figs
- 327 Alexander the Great finds bananas growing in Indus Valley
- 350 First written Greek reference to wheat
- 350 First written account of tea processing
- 410 Alaric the Visigoth demands 3000 lbs. of pepper to ransom Rome
- 432 Earliest recorded use of tobacco (Mexico)
- 450 Whisky developed (attributed to St. Patrick)
- 500 Sweet potato domesticated (Polynesia)
- 590 Epidemic of ergot poisoning hits France
- 593 Tea introduced into Japan
- 600 Mayans establish earliest known cacao plantations in northern South America
- 620 Greeks pass law calling for death penalty for stealing fruits or molesting fruit trees
- 644 Windmill for grinding grain invented (Persia)
- 700 Mayan civilization reaches its zenith
- 700 Achira (Canna edulis) domesticated (Mexico)
- 746 Hops first added to beer (Bavaria)
- 748 First printed newspaper (Peking)
- 750 Polynesians begin long range ocean voyages
- 780 Lu Yu publishes "First Tea Classic"
- 800 Irish voyagers reach Iceland
- 812 Emperor Charlemagne orders imperial farms to grow flax and various spices
- 850 First reference to use of coffee (Kaffe Province of Ethiopia)
- 857 Ergot poisoning reported in Germany
- 900 First shipment of spices from East Indies arrives in England
- 985 Bjarni Herjulfsson lands in Nova Scotia or Newfoundland
- 941 Ergot fungus kills 40,000 in France
- 1000 Iroquois form village communities and cultivate maize and beans
- 1000 Colonization of Oceania complete
- 1002 Leif Eriksson lands in New World
- 1096 First Crusade begins
- 1099 Crusaders plant sugar cane in Holy Land

- 1148 Returning Crusaders bring sugar to Europe
- 1150 First European paper factory opens (Spain)
- 1191 Tea introduced in Japan from China
- 1212 Tofu introduced from China to Japan
- 1227 Oldest extant botanical garden founded (Vatican City)
- 1250 Roger Bacon invents magnifying glass
- 1253 Linen first made in England
- 1271 Marco Polo travels through Asia [to 1295]
- 1300 Arnau de Villanova discovers distillation of wine to brandy
- 1328 First sawmill constructed
- 1347 "Black Death" kills one-third of Europe
- 1350 Shogun of Japan prohibits drinking of tea
- 1391 First paper mill opens (Nuremberg, Germany)
- 1400 Coffee domesticated (Arabia)
- 1400 Sir John Maundiville publishes accounts of his travels and the plants he encountered
- 1420 Bottom-fermentation of beer invented in Germany
- 1470 "The Age of Herbals" begins [to 1670]
- 1476 Oca domesticated (South America)
- 1492 Columbus lands in New World, believing it to be India
- 1492 Jews forbidden to serve as spice dealers
- 1493 Columbus introduces European grape and sugar cane into New World
- 1493 Second voyage of Columbus to New World [to 1496]
- 1493 Columbus founds Isabella, the first European settlement in the New World
- 1493 Columbus observes Indians using tobacco as medicine
- 1497 Vasco de Gama sails around Cape of Good Hope (Africa)
- 1497 Romano Pane describes tobacco and its use by Indians
- 1498 Third voyage of Columbus [to 1500]
- 1498 John Cabot explores North America
- 1499 Amerigo Vespucci makes first written observation of coca use
- 1500 World population reaches 500 million
- 1502 Fourth voyage of Columbus to New World [to 1504]
- 1503 Refinement process for raw sugar developed
- 1509 Sugar cane first harvested in the New World (Hispaniola)
- 1510 First Black slaves arrive in the New World (Cuba)
- 1510 Spanish introduce sunflower to Europe as an oil crop
- 1511 Portuguese capture Malacca, center of East Indies spice trade
- 1511 Coffee houses in Mecca closed
- 1512 Portuguese discover nutmeg trees in Moluccas
- 1513 Ptolemy's "Geography" recognizes two continents in New World
- 1513 Juan Ponce de Leon introduces orange and lemon trees in Florida
- 1514 Pineapple introduced into Europe
- 1516 Indigo introduced into Europe
- 1516 Maize first planted in China
- 1516 Spanish introduce banana into the New World
- 1517 Coffee introduced into England
- 1519 Hernán Cortes lands in Mexico
- 1519 Ferdinand Magellan sails from Spain in search of Spice Islands
- 1519 Hernan Cortes records use of cacao in the court of Emperor Montezuma
- 1520 Ferdinand Magellan circumnavigates globe [to 1524]
- 1520 Spanish bring wheat to New World
- 1520 Hernan Cortes introduces chocolate into Europe
- 1521 Tenochtitlán, capital of the Aztec Empire, falls to Cortes

- 1523 Sugar first grown in Cuba
- 1523 Anthony Fitzherbert publishes "Book of Husbandry," first English agricultural manual
- 1525 Paracelsus develops laudanum (opium dissolved in alcohol)
- 1525 Portuguese introduce chili peppers to India
- 1529 Sweet orange introduced into Europe
- 1530 Spinning wheel in general use in Europe
- 1532 Inka Empire falls to Francisco Pizarro
- 1532 Sugar cane first grown in Brazil
- 1534 First written description of tomato published (Italy)
- 1536 Gonzalo de Oviedo publishes "Historia General y Natural de Las Indias"
- 1540 Francisco de Orellano explores South America
- 1540 Francisco Basquez de Coronado explores American Southwest and Great Plains
- 1540 Benzoni describes cacao preparation
- 1545 Spanish introduce hemp into New World
- 1551 William Turner publishes "New Herball"
- 1556 Tobacco cultivation begins in Europe
- 1556 Spain's Council of the Indies prohibits plant exploration by foreigners
- 1556 André Thevet introduces tobacco seeds into Europe
- 1558 Portuguese introduce cassava into Africa
- 1561 Jean Nicot sends tobacco to Catherine de' Medici
- 1562 Witchcraft made capital offense in England
- 1564 John Hawkins introduces sweet potato into England
- 1564 Jesuit priests introduce European grape vine into California
- 1565 Oranges introduced into Florida
- 1565 John Hawkins introduces tobacco from Florida into England
- 1566 First European seed drill patented
- 1568 Alexander Nowell, Dean of St. Paul's Cathedral in London, invents bottled beer
- 1569 Gerhardus Mercator prepares first comprehensive world map
- 1569 Bernardino de Sahagun publishes "Historia General de las Cosas de la Nueva Espana"
- 1569 Pope Pius V declares that chocolate is a beverage and could be consumed during fasting
- 1575 Sir Francis Drake begins circumnavigation of globe [to 1580]
- 1579 Sir Francis Drake reaches East Indies by sailing around South America
- 1580 Prospero Alpino establishes that flowering plants have two sexes
- 1582 Ergot cited as means for quickening childbirth
- 1583 Andre Caesalpino publishes "De Plantis"
- 1585 First shipment of cacao beans from Vera Cruz, Mexico arrives in Seville
- 1587 Thousands die from ergot poisoning in German states
- 1587 Eggplant introduced into England (now seen as a tragic event!)
- 1589 Elbert de Veer invents hemp mill
- 1590 Hans & Zacharias Janssen invent compound microscope
- 1590 Tomato introduced into England
- 1595 Dutch establish colonies in East Indies
- 1596 Li Shih-Chen publishes 52-volume "Catalogue of Medicinal Herbs"
- 1597 John Gerard publishes "Herbal or General Historie of Plantes"
- 1597 Ergotism found to be caused by infected rye
- 1600 England's East India Company founded
- 1600 Spanish make rum from molasses (Barbados)
- 1600 Seeds and unroasted coffee beans smuggled out of the Arabian port of Mocha
- 1601 The word "coffee" first appears in an English account of William Parry's Persian travels
- 1602 Oat introduced into the U. S.
- 1602 Dutch East India Company founded
- 1604 King James I publishes (anonymously) "Counterblaste to Tobacco"
- 1605 King James I authorizes London's Worshipful Company of Gardeners
- 1610 Tea introduced to Europe by Dutch East India Company
- 1612 John Rolfe plants Caribbean tobacco at the Jamestown Colony in Virginia
- 1615 Coin-operated vending machines for dispensing tobacco leaves appear in English taverns

- 1615 Chocolate paste from the New World introduced into Europe
- 1616 Coffee introduced into Europe
- 1616 Dutch smuggle a coffee tree from Aden to Holland
- 1616 Schouter and Lemaire discover new route from Europe to Pacific, around Cape Horn
- 1618 Wheat cultivated in Virginia
- 1618 David Ramsay and Thomas Wildgoose invent ploughing machine
- 1619 First Black slaves arrive in Virginia
- 1619 Burgandy bans the growing of potatoes because they cause leprosy
- 1620 Pilgrims arrive in Plymouth, Massachusetts
- 1621 Potato planted in Germany for first time
- 1621 Potato introduced into North America
- 1621 European grapes planted on east coast of U. S.
- 1621 Dutch cut down three-quarters of clove trees in the Moluccas
- 1621 Jamestown colonists build first American grist mill to process wheat
- 1623 Dutch establish first commercial brewery
- 1623 Gaspard Bauhin publishes "Pinax," a compilation of plant names from herbals and other sources
- 1624 Pope Urban VIII threatens snuff users with excommunication
- 1625 Francis Bacon publishes "Of Gardens," in which he describes the ideal garden
- 1629 John Parkinson publishes "Paradisi in Sole Paradisus Terrestris"
- 1630 Lemonade invented
- 1630 Kikkoman soy sauce invented
- 1632 Jesuits introduce quinine powder into Spain and Rome
- 1633 Bananas first sold in London
- 1635 Jesuits introduce grapes into California
- 1635 Louis XIII founds Jardin des Plantes in Paris
- 1635 French restrict tobacco sales to physician's prescription
- 1636 Tulipmania strikes in the Netherlands
- 1636 Dutch seize Ceylon and impose cinnamon quotas
- 1640 John Parkinson publishes "Theatrum Botanicum"
- 1641 Dutch sieze Spice Islands from Portuguese
- 1641 Czar Michael Romanov of Russia forbids sale and use of tobacco
- 1642 Pope Urban VIII bans tobacco, saying that it causes hallucinations and bad behavior
- 1642 Abel Tasman reaches New Zealand
- 1643 Abel Tasman reaches Fiji and New Guinea
- 1645 Richard Weston publishes first description of crop rotation
- 1647 Rice cultivation begins in the Carolinas
- 1650 First coffee house opens in Oxford, England
- 1651 Francisco Hernandez publishes "Rerum Medicarum Novae Hispaniae Thesaurus..."
- 1651 Frederich Wilhelm of Prussia orders cultivation of potatoes
- 1652 First coffee houses open in London
- 1652 British fell pine trees for ship masts in their American colonies
- 1653 Nicholas Culpeper publishes "The English Physician, or Herball"
- 1655 Robert Hook observes structure of cork; first use of "cell"
- 1656 William Coles publishes "Art of Simpling"
- 1657 First chocolate shop, called the Coffee Mill and Tobacco Roll, opens in London
- 1658 Dutch begin to grow coffee in Ceylon
- 1658 Dutch oust Portuguese from Ceylon, thereby gaining control over cinnamon
- 1658 Oliver Cromwell dies of malaria after having refused quinine bark treatment
- 1660 Samuel Pepys notes in his secret diary that he has drunk a "cup of tee...."
- 1661 Robert Boyle extracts methyl alcohol
- 1663 Robert Hooke reports microscopic structure of petrified wood
- 1670 Covent Garden, famous produce market, opens in London
- 1672 John Josselyn publishes "New England Rarities Discovered," a treatise on herbal cures
- 1674 Severe outbreak of ergotism in Gatinais, France
- 1674 "Women's Petition Against Coffee" published
- 1676 Antoni von Leeuwenhoek discovers microorganisms ("animacules")
- 1676 Nehemiah Grew determines that higher plants reproduce sexually

- 1676 British troops poisoned by jimson weed in Jamestown, Virginia
- 1676 Compaignie de Limonadiers (lemonade vendors) founded in Paris
- 1677 London Pharmacopoeia recognizes cinchona, jalap, and ipecacuanha
- 1682 Nehemiah Grew describes function of stamens and carpels in "Anatomy of Plants"
- 1683 Antoni von Leeuwenhoek discovers bacteria
- 1686 John Ray develops concept of plant species in "Historia Plantarum"
- 1688 Dom Pierre Perignon makes champagne
- 1690 Physick Garden founded in Edinburgh
- 1692 Witch trials in Salem, Massachusetts
- 1694 Rudolph Camerarius distinguishes male and female floral parts
- 1695 Rice introduced (accidentally through shipwreck) into U. S.
- 1696 Dutch plant coffee trees in Java
- 1697 Czar Peter of Russia permits open sale and use of tobacco
- 1701 Jethro Tull invents seed drill
- 1706 One coffee tree from Java reaches Amsterdam Botanic Garden
- 1710 British Parliament passes act preserving trees in American colonies for ship's masts
- 1712 Cotton Mather publishes 13 letters on natural history and biology
- 1716 Cotton Mather observes hybridization in maize
- 1717 Giovanni Lancisi suggests that malaria transmitted by mosquitos
- 1719 Rem de Reaumer suggests that paper can be made from wood fiber
- 1720 Coffee introduced into New World
- 1721 Ergot poisoning prevents Peter the Great's attack on the Ottoman Empire
- 1722 Philip Miller begins management of the Chelsea Physic Garden in England
- 1724 Paul Dudley describes cross-pollination in maize
- 1727 Stephen Hales discovers root pressure
- 1727 Coffee trees planted in Brazil
- 1728 Vitus Bering sails through Arctic strait, proving Asia and North America not joined
- 1728 Failure of oat crop in Ireland prompts Jonathan Swift's "A Modest Proposal..."
- 1729 China bans the importation of opium
- 1730 John Bartram founds first U. S. botanical garden (near Philadelphia)
- 1732 J. S. Bach composes the "Coffee Cantata"
- 1732 Dubuisson of France invents a table mill for grinading cacao beans
- 1733 John Kay invents flying shuttle that speeds the weaving process
- 1735 French Academy of Sciences sends expedition to South America
- 1737 Carolus Linnaeus publishes "Genera Plantarum"
- 1738 Charles Marie de la Condamine sees quinine trees in Ecuador
- 1739 John Bartram experiments with cross-breeding in flowers
- 1739 Potato crop fails in Ireland, resulting in about a half million deaths
- 1740 Oat crop fails in Ireland
- 1741 Elizabeth Pinckney begins indigo cultivation
- 1742 Pehr Kalm begins exploration and plant collecting in North America [to 1745]
- 1743 Charles Marie de la Condamine explores the Amazon
- 1743 Sir Joseph Banks born in London
- 1744 Frederich II distributes free potatoes to Prussian peasants
- 1747 Andreas Margraff discovers sugar in sugar beets
- 1750 Brussel sprouts appear as a "sport" (Belgium)
- 1752 Joseph Koelreuter publishes his studies on sex in plants
- 1753 Carolus Linnaeus publishes "Species Plantarum," the starting point for scientific names
- 1753 Sugar cane first grown in the U. S. (Louisiana)
- 1753 James Lind discovers that lemon juice cures scurvy
- 1755 Pierre Poivre smuggles pepper and cinnamon into Mauritius
- 1756 Joseph Black discovers carbon dioxide
- 1758 Jedidiah Strutt invents machine to knit hose
- 1759 Arthur Guinness opens a brewery in Dublin
- 1760 Royal Botanic Gardens at Kew (England) opens
- 1761 John Hill notes development of nasal "polypusses" after excessive use of snuff

- 1763 Josef Kohlreuter discovers pollination
- 1764 James Hargreaves invents spinning jenny
- 1765 Date introduced into California
- 1765 James Baker and John Harmon set up chocolate factory in Massachusetts
- 1765 Potato now Europe's most widely used food
- 1765 Lazzaro Spallanzani discovers that food can be preserved in air-tight bottles
- 1765 James Watt improves steam engine
- 1766 Louis Antoine de Bougainville begins round-the-world voyage [to 1769]
- 1767 George Washington plants potato at Mount Vernon
- 1768 Capt. James Cook begins his first voyage to the South Pacific [to 1771]
- 1768 Richard Arkwright invents machine to spin cotton
- 1768 Lazzaro Spallanzani disproves theory of spontaneous generation
- 1769 Father Junipero Serra plants grapes, olives, sweet oranges, and figs in California
- 1769 The water frame, for spinning yarn, invented
- 1769 Baron Alexander von Humboldt born in Berlin
- 1770 Dutch destory a year's supply of nutmeg and cloves to maintain their high price
- 1770 Apricot introduced into California
- 1770 Governor Pierre Poivre smuggles nutmegs from Dutch E. Indies and plants them on Mauritius
- 1770 Sir Joseph Banks discovers and names Botany Bay in Australia
- 1770 Joseph Priestly coins the term "rubber" for the Pará rubber latex
- 1771 Joseph Priestley discovers that plants release oxygen
- 1771 Arkwright opens first spinning factory in England
- 1771 Faculte de Paris declares potato not only safe to eat, but useful
- 1772 King George III appoints Joseph Banks as his scientific advisor for the royal gardens
- 1772 Second voyage of Capt. James Cook [to 1775]
- 1772 Daniel Rutherford discovers difference between oxygen and nitrogen
- 1772 Karl Scheele isolates oxygen
- 1772 Joseph Priestley ("Father of the soft drink") demonstrates carbonating apparatus
- 1773 Boston Tea Party
- 1773 East India Company obtains monopoly on production and sale of opium
- 1773 Richard Arkwright produces first cloth made entirely of cotton
- 1773 Tea Act passed by Parliament, allowing East India Co. to export tea to colonies
- 1774 Andreas Marggraf demonstrates that cane sugar and beet sugar are identical
- 1775 Frederick the Great prohibits importation of green coffee into Prussia
- 1775 British Navy replaces French brandy with West Indian rum as its daily grog
- 1776 Third voyage of Capt. James Cook [to 1779]
- 1778 Joseph Banks elected President of the Royal Society in England
- 1779 Jan Ingenhousz discovers that sunlight essential for oxygen production in leaves
- 1779 Samuel Crompton invents spinning mule
- 1780 John Hannon opens first chocolate factory in the U.S. (Dorchester, MA)
- 1780 James Watt develops steam-driven flour mill
- 1780 Abbe Felix Fontana demonstrates that curare poison acts on voluntary muscle, not the heart
- 1784 Andrew Meikle invents threshing machine
- 1784 Richard March invents rope-making machine
- 1784 Karl Scheele discovers citric acid
- 1785 Cartwright invents power loom
- 1785 Ransome invents cast iron plow
- 1785 William Withering publishes "An Account of the Foxglove and Some of Its Medical Uses..."
- 1785 Louis XVI promotes use of potato in France
- 1785 Oliver Evans invents automatic grist mill
- 1786 Sugar beet cultivated in France
- 1786 Rice riots in Edo (Tokyo)
- 1787 Lt. William Bligh sails to Tahiti on H. M. S. Bounty to collect breadfruit seedlings
- 1787 Calcutta Botanic Garden founded
- 1787 William Curtis begins publishing "Botanical Magazine," world's longest running journal
- 1788 Sir James Edward Smith founds Linnean Society (London)
- 1789 Johann W. von Goethe suggests that all plant parts are modified leaves

- 1789 First cotton factory powered by steam opens (Manchester, England)
- 1789 Elijah Craig, a Baptist minister, distills bourbon whisky (Kentucky)
- 1789 Antoine Laurent de Jussieu publishes "Genera Plantarum"
- 1789 Ninety percent of Americans engaged in farming and food production
- 1790 Pineapples introduced into Sandwich Islands (Hawai'i)
- 1790 Vatican opens its own tobacco factory
- 1790 Johann Wolfgang von Goethe publishes his theory of the similar nature of leaves and floral parts
- 1791 First cotton mill in U. S. (Rhode Island)
- 1791 Samuel Peel patents India rubber cloth
- 1792 William Bligh sets out on his second "breadfruit voyage" to Tahiti on H. M. S. Providence
- 1792 Robert Thomas publishes first "Famer's Almanack"
- 1793 Eli Whitney invents cotton gin
- 1793 Karl Sprengel establishes that some plants wind-pollinated
- 1793 Franz Achard extracts sugar from sugar beets
- 1793 Captain William Bligh arrives in St. Vincent with 722 breadfruit seedlings
- 1795 Hydraulic press invented
- 1795 F. A. Chalons-sur-Marne develops sterilization and bottling/canning of food
- 1795 British Navy eliminates scurvy by supplying sailors with lemon juice
- 1795 Joseph Fry of England uses steam engine to grind cacao beans, which leads to large scale production
- 1795 King of Spain grants Don Jose Maria Guadalupe de Cuervo license to produce mezcal wine
- 1796 J. Lowitz prepares pure ethyl alcohol
- 1796 Edict of Peking forbids importation of opium into China
- 1796 British take Ceylon from Dutch, thereby gaining control of cinnamon
- 1797 United States enters world spice trade by importing Sumatra pepper
- 1798 Nicholas Robert invents machine for making continuous lengths of paper
- 1798 Thomas Malthus publishes "An Essay on the Principle of Population..."
- 1799 Alexander von Humboldt and Aimée Bonpland explore South America [to 1804]
- 1799 John Ferriar suggests correlation between digitalis and heart disease
- 1799 Dutch East India Company fails
- 1800 Jute domesticated (India)
- 1800 Humboldt and Bonpland observe curare preparation on Orinoco
- 1800 Sugar beet introduced into U.S.
- 1800 Matthew Koops develops vegetable fiber paper
- 1801 Sugar beet domesticated (Silesia)
- 1802 Franz Achard designs first sugar beet factory
- 1802 Soybean introduced into United States
- 1803 Friedrich Sertürner isolates morphine from crude opium latex
- 1803 Andrew Duncan isolates cinchonine
- 1804 A. D. Thaer develops concept of crop rotation
- 1804 England's Royal Horticultural Society founded
- 1804 Meriwether Lewis and William Clark begin exploration of western U. S. [to 1806]
- 1804 World population reaches 1 billion
- 1805 Leschenault describes preparation of upas tieute, a Javanese dart poison
- 1805 J.-M. Jacquard invents draw power loom
- 1806 Benjamin Thompson invents coffee pot with metal sieve
- 1806 Partial failure of potato crop in Ireland
- 1806 Napoleon Bonaparte offers 100,000 franc prize for creating sugar from a native plant
- 1807 Baron von Humboldt publishes first of 30 volume treatise on travels in Spanish America
- 1808 Joseph-Louis Proust identifies glucose, fructose, and sucrose in plant juices
- 1808 John Stearns demonstrates efficacy of ergot extracts during child birth
- 1809 Louis Vaquelin isolates atropine
- 1809 J. B. Lamarck suggests that organs are improved with use and acquired traits are inherited
- 1809 Nicholas Appert develops heat-bottled foods
- 1809 Louis Vauquelin identifies nicotianine as active principle in tobacco
- 1810 J. L. Gay-Lussac discovers that sugar breaks down into alcohol and carbon dioxide
- 1810 Philippe de Girard invents hemp and flax spinning machine

- 1811 Napoleon decrees that sugar beets grown in France and that processing factories be built
- 1811 Louis Figuier develops bone charcoal filtering technique for sugar purification
- 1812 Austria passes law allowing for confiscation of contaminated rye
- 1812 James Mease publishes first recipe for tomato catchup
- 1812 Gottlieb Lorchoff demonstrates that starch breaks down to glucose
- 1813 Augustin de Candolle coins "taxonomy," for the science of classification of organisms
- 1813 John Clark invents air and water beds made of India rubber cloth
- 1813 Humphry Davy publishes "Elements of Agricultural Chemistry"
- 1814 John Lunan introduces term "grapefruit" in his "Hortus Jamaicensis"
- 1814 Donkin, Hall, & Gamble introduce first commercially available canned food
- 1815 J. B. Lamarck, French naturalist, introduces a modern species concept
- 1817 Robiquet isolates narcotine
- 1817 P.-J. Pelletier and Magendie isolate emetine
- 1818 Lane invents harvester/thresher
- 1818 P.-J. Pelletier and J. Caventou extract a green pigment and call it "chlorophyll"
- 1818 P.-J. Pelletier and J. Caventou isolate strychnine
- 1818 British plant tea in India
- 1818 Johann Siegert formulates Angostura bitters
- 1819 U. S. government instructs its foreign diplomats to send home seeds of useful plants
- 1819 François-Louis Cailler produces first commercially available chocolate for eating
- 1819 P.-J. Pelletier and J. Caventou isolate brucine
- 1819 Oersted isolates piperine
- 1819 François Louis Callier open first Swiss chocolate factory
- 1820 P.-J. Pelletier and J. Caventou isolate colchicine and quinine
- 1820 Col. Robert Johnson eats tomato before crowd of 2000 people and lives!
- 1820 Thomas Hancock opens England's first rubber factory
- 1821 Runge isolates caffeine from coffee
- 1820 U. S. Pharmacopaeia published
- 1820 Thomas Hancock invents rubber masticator
- 1820 P.-J. Pelletier and J. Caventou isolate cinchonine
- 1822 John Chapman (Johnny Appleseed) plants orchards
- 1823 Charles Macintosh discovers solubility of rubber in naphtha
- 1823 Royal Horticultural Society sends David Douglas to collect fruit trees in North America
- 1824 British Navy distributes Cocoa Issue (1 oz. chocolate block) to sailors
- 1825 David Douglas explores western United States
- 1825 Coffee cultivation begins in Hawai'i
- 1826 Otto Unverdorben develops distilled indigo dye (aniline)
- 1826 Michael Faraday establishes the empirical formula for Pará rubber
- 1827 Salicin isolated from willow bark
- 1827 Heinrich Merck begins commercial production of morphine
- 1828 Coenrad van Houten develops process for removing fat from cacao beans
- 1829 Sylvester Graham develops the Graham Cracker
- 1830 Robert Brown discovers cell nucleus while working on orchids
- 1831 Robiquet and Colin isolate alizarine red from madder
- 1832 Charles Darwin begins his voyage on H. M. S. Beagle [to 1835]
- 1832 Pierre Robiquet isolates codeine
- 1832 Aeneas Coffey invents the alcohol still
- 1832 Karl von Reichenbach discovers creosote in coal tar
- 1833 Avocado introduced into Florida
- 1833 Payen and Persoz isolate first enzyme
- 1834 Cyrus McCormick invents reaper
- 1834 John and Hiram Pitts invent an efficient thresher
- 1834 Anselme Payen extracts cellulose from wood and gives it its name
- 1835 Thiboumery isolates thebaine
- 1836 Asa Gray publishes "Elements of Botany," first American botany textbook
- 1836 Grain combine invented
- 1836 Theodor Schwann demonstrates sugar fermentation the result of yeast activity

- 1836 Charles Cagniard de la Tour observes yeast growth during fermentation
- 1837 John Deere invents the steel-bladed plow
- 1838 Schleiden and Schwann develop cell theory
- 1838 Captain Charles Wilkes leads U. S. Navy expedition to Pacific
- 1838 Viceroy in Canton orders destruction of almost 3 million pounds of British opium
- 1839 Charles Goodyear develops vulcanizied rubber
- 1839 Opium Wars in China begin [to 1842]
- 1839 Jan Purkinje coins the term "protoplasm"
- 1839 John Lawes develops artificial fertilizer
- 1839 U. S. Congress appropriates \$1000 to provide free seed to farmers
- 1839 Assam tea auctioned off in London
- 1840 Friedrich Keller makes first all-wood paper
- 1840 Justus von Liebig establishes that some minerals can limit growth in plants
- 1840 Jean-Baptise-Joseph Dieudonne shows that plants obtain nitrogen from soil nitrates
- 1840 J. Schweppes Co. develops tonic water
- 1840 Grapefruit trees from Spain introduced into Florida
- 1841 William Jackson Hooker becomes first official Director of Kew Botanic Gardens
- 1842 English develop first chemical fertilizers
- 1843 Franciscans introduce almond into California
- 1843 Smoking of opium banned in China
- 1843 Charles Goodyear patents process for vulcanization of rubber
- 1844 F. Keller invents wood-pulp paper
- 1844 John Mercer invents process that improves cotton's durability and sheen
- 1845 E. B. Bigelow invents power loom for carpet manufacture
- 1845 J. Heilman invents machine for combing cotton
- 1845 Late blight of potato causes famine in Ireland and Europe [to 1848]
- 1845 Stephen Perry invents rubber bands from vulcanized rubber
- 1846 Elias Howe invents sewing machine
- 1846 Christian Schonbein discovers solubility of cotton cellulose
- 1846 H. von Mohl describes protoplasm
- 1846 U. S. repeals Corn Laws, imposing import duties
- 1846 Figuier and Purmarède invent vegetable-based parchment paper
- 1846 Charles Hancock invents sponge rubber
- 1847 Sir William Hooker's Museum of Economic Botany opens to public at Kew Gardens
- 1847 Herbert reports that crossing of some plants yields fertile offspring, but others sterile
- 1847 Fry & Sons in England develop chocolate for eating
- 1848 Heinrich Merck isolates papaverine
- 1848 Explorer Richard Spruce trains in tropical botany at Kew [to 1849]
- 1849 David Livingstone begins exploration of Africa [to 1871]
- 1849 Magnus Huss coins the term "alcoholism"
- 1849 William Lobb collects plants of horticultural potential on the Pacific coast of North America
- 1850 Claude Bernard discovers that curare blocks nerve impulses to muscle tissue
- 1850 John Heath invents the grain binder
- 1850 Sorghum introduced into U. S. from Africa
- 1850 Marijuana listed in the U. S. Pharmacopeia
- 1850 Milo or Kaffir-corn introduced into U. S.
- 1850 Delicious red apple found in Iowa
- 1850 American Vegetarian Society founded
- 1850 Frist transatlantic cable, protected by gutta-percha, laid between Dover, England and Calais, France
- 1850 William Alcott, a cousin of Louisa May, opens America's first health food store (Boston)
- 1851 Robert Fortune brings 2000 tea plants and 17,000 seeds out of China
- 1852 Ephraim Bull develops Concord grape, a cross between European and catawba grapes
- 1852 Nelson Goodyear and Charles Macintosh develop vulcanite and ebonite (hard rubber)
- 1853 Alexander Wood and Charles Pravaz invent the hypodermic syringe
- 1853 Chef George Crum develops the potato chip
- 1853 Concord grape exhibited by Massachusetts Horticultural Society
- 1854 John Polson develops corn flour

- 1856 John Dauglish develops aerated bread
- 1856 Ghirardelli's California Chocolate Manufactory established
- 1856 Louis Pasteur discovers process now called pasteurization
- 1856 Second Opium War; Britain and France defeat Manchu armies [to 1860]
- 1856 N. Pringsheim observes entrance of sperm into ovum
- 1857 Louis Pasteur publishes "Mémoire sur la Fermentation Appelee Lactique"
- 1857 Count Agoston Harszthy de Moksa establishes California wine industry in the Valley of the Moon
- 1858 Remak and Virchow develop theory that cells arise from divisions of pre-existing cells
- 1858 Hyman Lipman invents the pencil with attached eraser
- 1858 Mace and nutmeg crops planted on Grenada
- 1858 J. Schweppes patents quinine tonic water
- 1858 Treaty of Tientsin legalizes importation of opium into China
- 1858 Charles Darwin reads paper on plant and animal domestication before Linnean Society
- 1859 Charles Darwin publishes "The Origin of Species by Means of Natural Selection..."
- 1859 Franz Knop and Julius von Sachs establish that plants can grow in nutrient solutions
- 1859 Karl von Scherzer isolates cocaine from coca leaves
- 1860 Richard Spruce and Robert Cross send cinchona seeds from S. America to England
- 1860 Louis Pasteur publishes "Mémoire sur la Fermentation Alcoolique"
- 1860 Frederich Walton invents linoleum
- 1860 Charles Baudelaire publishes "Les Paradis Artificiels..."
- 1860 Henry Shaw opens garden in St. Louis; it would become the Missouri Botanical Garden
- 1860 Richard Spruce ships plants and seeds of Cinchona from Ecuador to London
- 1861 Louis Pasteur publishes "Mémoire sur les Corpuscles Organisés Qui Existent dans l' Atmosphere"
- 1861 Robert Cross brings 637 cases of cinchona to London from Ecuador
- 1862 Julius von Sachs establishes that starch a product of photosynthesis
- 1862 Ebenezer Stevens invents the bread-making machine
- 1862 John Leighton invents the rubber stamp
- 1862 Charles Darwin publishes "On the Various Contrivances by which ... Orchids are Fertilized..."
- 1862 U. S. Congress passes Morrill Land-Grant Act
- 1862 U. S. Congress prohibits distillation of alcohol without a license
- 1862 U. S. Navy abolishes rum ration for its sailors
- 1862 United States Department of Agriculture established
- 1863 Root louse (Phylloxera vasatrix) attacks European vineyards
- 1863 Emperor Louis Napoleon asks Pasteur to study maladies of wine
- 1863 Pasteur discovers that heat kills bacteria
- 1863 Peter Smirnoff, a former Russian serf, open charcoal-process distillery in Moscow, Russia
- 1864 Pasteur shows that organism causing fermentation not spontaneously generated
- 1864 Jobst and Hesse isolate physostigmine from calabar bean (Physostigma venenosum)
- 1865 Gregor Mendel publishes "Experiments in Plant Hybridization"
- 1865 David Livingstone publishes "Narrative of an Expedition to the Zambesi..."
- 1865 Adolphus Busch and Eberhard Anheuser open a brewery in St. Louis, Missouri
- 1865 Charles Ledger of England smuggles cinchona out of Bolivia
- 1865 Sir Joseph Dalton Hooker, son of William Hooker, becomes second director of Kew Gardens
- 1866 Richard and George Cadbury sell pure cocoa in Britain
- 1866 Louis Pasteur publishes "Etudes sur le Vin"
- 1866 Jack Newton Daniel opens the distillery that bears his name in Tennessee
- 1866 Thomas Dickson opens a distillery in Essex, CT to manufacture witch hazel extract
- 1867 Atropine shown to block effects of vagal nerve stimulation
- 1867 Britain introduces tea into Ceylon
- 1868 Charles Darwin publishes "The Variation of Animals and Plants Under Domestication"
- 1868 James Arnold's estate finances the establishment of Harvard University's Arnold Arboretum
- 1868 John Cadbury mass-markets first boxes of chocolate candies
- 1869 Schneider discovers navel orange in Brazil
- 1869 Digitoxin isolated from foxglove plant
- 1869 Charles Fleishmann founds yeast-production industry in USA
- 1869 Thomas Welch pasteurizes Concord grape juice to make unfermented sacramental wine
- 1870 Thomas Adams develops chicle-based chewing gum

- 1870 Friederich Miescher discovers DNA
- 1870 MacIntosh apple propagated
- 1870 Ground wood paper pulp first made (Germany)
- 1870 Benjamin Franklin Goodrich opens rubber factory in Akron, Ohio
- 1872 Ebers Papyrus (1500 B. C.) discovered in Thebes
- 1872 Pará rubber (Hevea brasiliensis) domesticated (South America)
- 1872 Carl Ekman develops the sulphite processing of wood pulp
- 1872 Luther Burbank develops the Burbank potato
- 1873 Don Cenobia Sauza distillery exports first tequila to the U.S.
- 1873 Asa T. Soule of Rochester, NY invents hop bitters, the most successful patent medicine
- 1874 Mennonites introduce Turkey red wheat into the U. S.
- 1874 Othman Zeidler develops DDT
- 1875 Pilocarpine isolated from jaborandi leaf
- 1875 Eugen Langen invents the sugar cube
- 1875 Richard Joshua Reynolds founds tobacco company in Winston, North Carolina
- 1875 Luther Burbank establishes experimental garden in Santa Rosa, California
- 1875 Bing chery developed in Oregon
- 1875 Ferdinand Tiemann patents process for synthetic vanilla
- 1875 Machine invented that strips corn kernels from cobs
- 1875 Henry Wickham delivers Pará rubber seeds from Brazil to Royal Botanic Gardens at Kew
- 1875 First Agricultural Experiment Station established in the U. S. (Connecticut)
- 1876 Charles Darwin publishes "The effects of Cross and Self-fertilisation ... "
- 1876 Henry J. Heinz develops catsup
- 1876 Daniel Peter and Henri Nestlé create milk chocolate
- 1876 Henry Wickam smuggles seeds of Pará rubber out of Brazil
- 1876 John Henry Kellogg develops flake cereal, to curb sex drive
- 1876 Eduard Strasburger describes mitosis in plants
- 1876 Lydia Estes Pinkham patents "Mrs. Lydia E. Pinkham's Vegetable Compound"
- 1876 Charles E. Hires promotes "Hires Rootbeer Household Extract"
- 1876 Thomas Johnstone Lipton opens his first tea shop
- 1876 Phylloxera destroys more than 1 million acres of France's vineyards
- 1877 Wilhelm Pfeffer discovers osmosis
- 1877 John Harvey Kellogg develops a cereal he calls "Granula"
- 1878 Caleb Chase & James Sanborn form company specializing in coffee and tea
- 1879 John Appleby invents grain binder
- 1879 P.-M.-A. Millardet develops Bordeaux mixture to protect grapes against fungi
- 1879 Constantine Fahlberg and Ira Remsen invent saccharin
- 1879 Thomas Edison successfully tests carbonized bamboo filament in incandescent light bulb
- 1879 Rudolphe Lindt invents conching, a procedure for improving smoothness of chocolate
- 1876 Daniel Peter and Henri Nestlé form the Nestlé Company
- 1879 Daniel Peter develops first milk chocolate candy bar
- 1880 Sugar beets raised commercially for first time in U. S.
- 1880 Rodolfe Lindt invents conching machine used to process cacao beans
- 1880 Canned fruits become commercially available
- 1881 James Logan develops loganberry, a raspberry and blackberry hybrid
- 1881 John Boyd Dunlop invents hollow tire made of rubber latex and cloth
- 1882 A. P. De Candolle publishes "L'Origine des Plantes Cultivees"
- 1882 Albert King discovers that mosquitos transmit malaria
- 1883 Edouard J. L.-M. von Beneden discovers meiosis
- 1883 French develop rayon, first synthetic fiber
- 1883 James Buchanan Duke begins making machine-manufactured cigarettes
- 1884 William S. Halsted discovers anesthetic property of cocaine
- 1884 Carl Dahl invents sulfate (Kraft) pulp
- 1885 Karl Benz invents first gas-powered automobile
- 1885 John S. Pemberton markets Coca Cola
- 1886 R. S. Lazenby develops Dr. Pepper
- 1886 Hires Root Beer marketed

- 1887 Nagai Nagayoshi isolates ephedrine from mahuang (Ephedra sinica)
- 1887 U. S. Congress passes Hatch Act, providing funds for agricultural experiment stations
- 1888 John Boyd Dunlop invents pneumatic tire for bi- and tricycles
- 1888 Heinrich von Waldeyer-Hartz discovers chromosomes and coins term for them
- 1888 Angus Campbell invents cotton picker
- 1889 Gottlieb Wilhelm Daimler invents gasoline-powered automobile
- 1889 James Buchanan Duke founds American Tobacco Company
- 1889 United States Department of Agriculture founded
- 1899 United Fruit Company founded
- 1890 John H. Kellogg develops peanut butter for his toothless patients
- 1891 W. Rimpan describes spontaneous fertile wheat x rye hybrids
- 1892 Asa Chandler founds Coca-Cola Co.
- 1893 Henry Perky develops Shredded Wheat
- 1893 Charles Post develops Postum, a coffee substitute
- 1893 Thomas Lipton takes out a trademark on his tea
- 1893 O. Hesse develops heroin from morphine and acetic anhydride
- 1893 U. S. Supreme Court declares the tomato to be a vegetable, not a fruit
- 1893 Luther Burbank publishes "New Creations in Fruits and Flowers"
- 1894 W. A. Burpee introduces "iceberg" lettuce
- 1895 John Harshberger coins the term "ethnobotany"
- 1895 John and Will Kellogg develop wheat flake cereal
- 1896 Arthur Heffter isolates mescaline from peyote cactus
- 1896 Pineapple introduced into Hawai'i
- 1896 George Washington Carver begins his studies of products made from peanuts
- 1896 New York Botanical Garden founded
- 1897 Ronald Ross identifies protozoan as cause of malaria
- 1897 Felix Hoffmann of Bayer synthesizes stable form of acetysalicylic acid
- 1898 Richard Willstatter determines structure of atropine and cocaine
- 1898 M. W. Deijerinck discovers that tobacco mosaic disease caused by virus
- 1898 Bayer introduces heroin as a cough suppressant
- 1899 Hermann Dreser and Felix Hoffmann develop aspirin
- 1899 Mexican boll weevil, a beetle, enters U. S.
- 1900 United Fruit Company founded
- 1900 Spinal anesthetic using cocaine developed
- 1900 Beitter isolates alkaloids from khat
- 1900 Milton Hershey opens factory to produce chocolate bars
- 1900 H. de Vries, C. E. Correns, and E. Tschermak von Seysenegg rediscover Mendel's work
- 1900 David Barrows awarded first doctorate in ethnobotany
- 1900 David Wesson markets first edible cottonseed oil
- 1901 Hugo De Vries coins term "mutation"
- 1901 Gerrit Grijns discovers that berberi caused by nutrient-poor, polished rice
- 1901 James Dole establishes first pineapple plantation on Oahu, Hawai'i
- 1901 Ludwig Roselius develops 97% caffeine-free coffee
- 1901 Satori Kato develops soluble instant coffee
- 1902 Nagai Nagayoshi of Japan isolates rotenone from Derris elliptica
- 1902 U. S. bans use of coca leaf extracts in Coca Cola
- 1902 James Dole founds Hawaiian Pineapple Co.
- 1902 Caleb Bradham founds Pepsi Cola Co.
- 1903 Walter Sutton shows that chromosomes carry hereditary material
- 1903 Christian Gray and Thomas Sloper invent cross-ply rubber tire
- 1903 Ludwig Roselius introduces Sanka Coffee
- 1904 Postum Co. introduces "Elijah's Manna," later to be called "Post Toasties"
- 1905 A. E. Douglass develops technique of dating tree rings
- 1905 Heinrich Braun introduces novocaine into clinical use
- 1905 Vick's Magic Croup Salve introduced
- 1905 Ludwig Roselius develops decaffination process

- 1906 U. S. Congress passes Pure Food and Drug Act
- 1906 William Bateson coins "genetics" for new science
- 1906 Gerrit Grijns suggests beriberi caused by nutrient deficiency in rice
- 1906 William Keith Kellogg (brother of J. H. Kellogg) founds W. K. Kellogg
- 1907 American Spice Trade Association founded
- 1907 President Theodore Roosevelt declares Maxwell House coffee "good to the last drop"
- 1908 C. W. Post develops "Post Toasties"
- 1908 Melita Bentz invents once-through coffee brewing filter using linen towel
- 1908 MSG (monosodium glutamate) isolated from seaweed
- 1908 Jacques Brandeneberger, a Swiss chemist, invents cellophane
- 1908 Henry Wickham publishes "On the plantation, cultivation, and curing of Pará Indian rubber"
- 1909 U. S. prohibits importation of opium
- 1909 U. S. Bureau of Soils declares soil an indestructible
- 1909 Pictet and Gams synthesize papaverine
- 1909 Wilhelm Johannsen coins "gene," "genotype," and "phenotype"
- 1909 Aaron Levene discovers RNA
- 1909 Karl Hofmann makes synthetic rubber from butadiene
- 1909 Sir Thomas Lipton begins blending and packaging of tea leaves
- 1909 George Washington develops soluble coffee powder
- 1910 Thomas Hunt Morgan discovers specific genes occur on specific chromosomes
- 1910 U. S. D. A. establishes its Agricultural Research Center at Beltsville, MD
- 1910 William Cadbury urges companies not to purchase cacao beans from slave-based plantations
- 1910 Harvey Firestone invents non-skid tire
- 1911 A. H. Sturtevant produces first chromosome map
- 1911 U. S. Supreme Court dissolves American Tobacco Co.
- 1911 Procter Gamble introduce "Crisco," the first solid vegetable shortening
- 1911 Henry Ginaca invents the pineapple processing machine
- 1911 Polish chemist Casimir Funk discovers "vitamines," a rice hull extract, that cures berberi
- 1911 Kudzu is introduced from Japan for erosion control and forage
- 1912 J. Suzuki, T. Shimamura, and S. Ohdake extract anti-beriberi substance from rice hulls
- 1912 Casimir Funk coins the term "vitamin"
- 1913 Richard Willstatter determines structure of chlorophyll
- 1914 U. S. Congress passes Harrison Narcotic Act
- 1914 U. S. Congress passes Smith-Lever Act, establishing agricultural extension service
- 1914 Chaim Weizmann uses a bacterium to ferment sugars to yield acetone, butanol, and ethanol
- 1915 Absinthe with wormwood banned
- 1916 Quaker Oats develops instant oatmeal
- 1917 Donald Jones develops double-cross hybrid maize
- 1917 Clarence Birdseye develops freezing techniques for preserving foods
- 1918 Brazil bans export of Pará rubber seeds
- 1918 First use of airplane in crop dusting
- 1920 Alcohol use in U. S. prohibited by 18th Amendment to Constitution
- 1920 K. Spiro and A. Stoll extract ergotamine
- 1920 Joseph Krieger invents the tea bag
- 1920 Rudolf Boysen develops the boysenberry (blackberry x raspberry x loganberry)
- 1920 George Washington Carver testifies before U. S. Congress on uses for the peanut
- 1921 Thomas Hunt Morgan develops chromosome theory of heredity
- 1921 "Nobilized" form of sugar cane produced (Java)
- 1921 E. M. East and G. M. Shull produce hybrid maize
- 1922 First U. S. soybean refinery opens (Illinois)
- 1924 "Wheaties" introduced into U. S. market
- 1925 W. K. Kellogg develops Rice Crispies
- 1925 Robert Robinson synthesizes morphine
- 1925 Automatic potato-peeling machine invented
- 1926 N. I. Vavilov publishes "Centers of Origin of Cultivated Plants"
- 1926 Henry Wallace founds Pioneer Hi-bred International
- 1926 Maize hybrid seed becomes available

- 1926 H. J. Mueller discovers that X-rays induce genetic mutations
- 1926 I. G. Farben invents Buna S (synthetic rubber)
- 1926 Ergot poisoning in U. S. S. R.
- 1927 John and Mack Rust perfect the mechanical cotton picker
- 1927 World population reaches 2 billion
- 1927 Thomas Edison, Henry Ford, and Harvey Firestone found Edison Botanic Research Foundation
- 1928 Sir Alexander Fleming discovers that Penicillium spores kill certain bacteria
- 1928 Albert Szent-Györgyi isolates Vitamin C from paprika pepper
- 1928 Josef Stalin orders collectivization of Soviet farms
- 1928 Adolf Otto Reinhold Windaus reports chemical structure of digitoxin
- 1928 Henry Ford establishes Fordlandia, a 2.5 million acre rubber plantation in South America
- 1929 A. Harden and H. von Euler-Chelpin win Nobel Prize for work on sugar fermentation
- 1929 E. Murphy and W. Chapman invent foam rubber
- 1929 Wonder Bread (Continental Bakery) introduces sliced bread
- 1929 American Maize Products develops first genetically modified maize
- 1929 General Foods develops Minute Rice
- 1929 R. T. French develops instant mashed potatoes
- 1930 U. S. Congress passes Plant Patent Act
- 1930 Postum Co. markets frozen foods
- 1930 Castetter establishes masters program in ethnobotany at Univ. of New Mexico
- 1930 Sydney Smith isolates digoxin from Digitalis lanata
- 1930 Clarence Birdseye patents a process for the quick freezing of food
- 1930 Norman Haworth, English chemist, synthesizes Vitamin C
- 1931 Louis Lewin publishes "Phantastica...'
- 1931 Indian snakeroot reported as useful in treatment of certain mental disorders
- 1931 First plant hormone (indole acetic acid) discovered
- 1931 Wallace Carothers develops Du Prene (later called neoprene), first synthetic rubber
- 1932 Du Pont markets synthetic rubber
- 1932 Walter Haworth synthesizes Vitamin C
- 1932 Germans develop atabrine (quinachrine hydrochloride), a synthetic quinine
- 1932 Charles King isolates Vitamin C (ascorbic acid) from lemon juice
- 1933 Prohibition repealed by 20th Amendment to U. S. Constitution
- 1933 Golden Cross Bantam corn, first widely planted hybrid, introduced
- 1933 Ernest and Julio Gallo build winery in Modesto, California
- 1933 Soil Erosion Service established in U. S. Department of Interior
- 1933 Sanforization, a technique for reducing shrinkage in cotton fibers, developed by Sanford L. Cluett
- 1934 J. P. Lent isolates coumarin from spoiled clover
- 1934 Wallace Carothers invents nylon, an artificial fiber
- 1934 Philip White and Roger Gautheret get plant tissue culture to survive
- 1935 Ergonovine proven effective in obstetrics
- 1935 Trofim Lysenko's "scientific" views become official Soviet policy
- 1935 Alcoholics Anonymous founded
- 1935 Rudolph Hass patents his avocado cultivar
- 1936 Andrei Belozersky isolates pure DNA
- 1936 Tadeusz Reichstein isolates cortisone
- 1937 Pierre Givaudon discovers colchicine induces chromosome doubling
- 1937 U. S. Congress passes Marijuana Tax Act
- 1937 Michael Sveda and L. F. Audrieth invent the artificial sweetener "Cyclamate"
- 1937 Albert Szent-Györgyi awarded Nobel Prize (Chemistry) for discovery of vitamin C
- 1938 Arthur Stoll and Albert Hofman synthesize LSD (lysergic acid diethylamide)
- 1938 Nestlé Co. develops instant coffee (Switzerland)
- 1938 Richard Gill discovers that curare made from Chondrodendron tomentosum
- 1939 Paul Müller of Geigy Pharmaceuticals discovers insecticidal properties of DDT
- 1939 U. S. D. A. successfuly tests DDT against Colorado potato beetle
- 1939 F. H. Muller relates smoking and lung cancer
- 1939 Japanese beetles threaten U. S. crops
- 1940 Automatic hay baler invented

- 1940 T. D. Lysenko becomes Director of Institute of Genetics in Soviet Union
- 1940 N. I. Vavilov arrested by Soviet government for being British spy
- 1941 George Beadle and Edward Tatum develop "one-gene, one-enzyme" hypothesis
- 1941 Stem rust devastates Mexican wheat crop
- 1942 R. E. Marker synthesizes human sex hormones from Japanese yams
- 1942 U. S. Congress passes Opium Poppy Control Act
- 1942 President Franklin D. Roosevelt declares "modern war cannot be won without rubber"
- 1943 N. I. Vavilov dies in Soviet labor camp
- 1943 Albert Hofmann discovers LSD, a powerful hallucinogen
- 1943 DDT introduced to fight insects in U. S.
- 1943 Rockefeller Foundation and Mexican government found CIMYTT
- 1943 U. S. distilleries produce alcohol for synthetic rubber
- 1944 Robert Woodward and William Doering synthesize quinine
- 1944 Avery, McCarty, & McLeod identify DNA as molecular basis of heredity
- 1944 Chiquita banana introduced by United Fruit Co.
- 1945 2, 4-D introduced for general use
- 1945 Alton Ochsner relates smoking and lung cancer at Duke Univ. address
- 1945 Food and Agriculture Organization (FAO) of the United Nations founded in Rome
- 1945 Samuel Salmon discovers semi-dwarf wheat variety (NORIN 10)
- 1945 Univ. of California develops long-season strawberry
- 1946 Self-rising corn meal first marketed in U. S.
- 1946 Dutcher isolates d-tubocurarine
- 1947 Thor Heyerdahl's sails on the raft "Kon Tiki" from Peru to an island near Tahiti
- 1947 NORIN 10 gene introduced into North American wheat
- 1947 Herbicide 2,4-D introduced
- 1947 Karl Link develops Warfarin from an anticoagulant in sweet clover
- 1948 Cortisone found effective in treatment of rheumatoid arthritis
- 1948 Liberty Hyde Bailey coins the term "cultivar"
- 1948 Paul Müller receives Nobel Prize for his discovery of the toxic properties of DDT
- 1949 Robert Boyer patents vegetable protein fibers derived from soybeans
- 1950 Barbara McClintock publishes "The Origin and Behavior of Mutable Loci in Maize"
- 1950 Hoagland and Arnon develop balanced mixture of 11 nutritional salts
- 1950 Cyclamate introduced
- 1950 General Mills introduces "Minute Rice"
- 1950 Richard Doll, British physician, presents first statistical proof linking smoking and lung cancer
- 1950 National Science Foundation established
- 1951 Woodward synthesizes cortisone
- 1951 J. Watson, F. Crick, and M. Wilkins propose DNA structure
- 1952 Emil Schlitter isolates reserpine from Indian snakeroot
- 1953 James Watson and Francis Crick publish "Molecular Structure of Nucleic Acids"
- 1953 Evarts Graham and Ernest Wydner show that cigarette tars may cause cancer
- 1954 Woodward synthesizes strychnine
- 1954 Nathan Kline develops resperpine (anti-depressant)
- 1954 Wheat stem rust destroys 75% of Durum wheat crop
- 1954 Ernest Sears demonstrates that wheat chromosomes can be substituted
- 1955 Hurricane Janet destroys 75% of Grenada's nutmeg trees (about 40% of world crop)
- 1955 Severo Ochoa synthesizes RNA
- 1955 James Schlatter develops aspartame, an artificial sweetener
- 1956 Sorghum hybrid seed becomes commercially available
- 1956 Arthur Kornberg synthesizes DNA
- 1956 Pincus discovers that wild yams will stop ovulation in humans
- 1956 U. S. Congress passes Narcotic Drug Control Act
- 1957 Gibberellins (plant growth hormones) isolated
- 1957 Vinca alkaloids from periwinkle found effective against leukemia
- 1957 Eli Lilly releases "Darvon," a codeine alternative
- 1958 Kiwi fruit domesticated
- 1958 Robert Noble and Charles Beer isolate vinblastine, one of the vinca alkaloid, from the periwinkle

- 1958 U. S. Congress requires enrichment of rice
- 1958 Sweet 'n Low introduced
- 1958 Mass of cultured cells gives rise to complete plants
- 1958 George Beadle and Edward Tatum win Nobel Prize for one gene-one enzyme work
- 1959 National Seed Storage Laboratory founded at Fort Collins, CO
- 1959 Society for Economic Botany founded
- 1959 U. S. Dept. of Agriculture seizes 25% of cranberry crop, fearing weed-killer contamination
- 1960 Georges Morel clones cultured cells
- 1960 FDA approves Enovid for birth control
- 1960 World population reaches 3 billion
- 1961 J. A. Wilson and W. M. Ross develop stable cytoplasmic-male-sterile wheat
- 1961 Melvin Calvin wins Nobel Prize (Chemistry) for work on photosynthesis
- 1962 James Watson and Francis Crick win Nobel Prize (Medicine) for DNA work
- 1962 International Rice Research Institute (IRRI) opens in Philippines
- 1962 Coby Lorenzen, Jr. invents tomato harvester
- 1962 Rachel Carson publishes "Silent Spring"
- 1964 Edwin Mertz develops high-lysine maize
- 1964 World Health Organization warns of psychological dependence on khat
- 1964 Mutant opaque-2 gene increases lysine and tryptophan content of maize
- 1964 IRRI begins "Green Revolution" with new strains of high-yield rice
- 1964 Surgeon General Luther Terry links cigarette smoking and lung cancer
- 1965 T. D. Lysenko dismissed as Director of Soviet Institute of Genetics
- 1965 V. Vasil and A. G. Hildebrant regenerate complete tobacco plant from single cells
- 1965 Standard Malaysian Rubber grading system comes into use
- 1967 Raphael Mechoulam of Israel synthesizes tetrahydocannabinols
- 1965 U. S. Congress requires warning labels on cigarettes
- 1965 U. S. Congress passes Drug Abuse Control Amendment
- 1966 International Rice Research Institute releases IR8 "Miracle Rice"
- 1966 Michael Sporn and coworkers report highly toxic aflatoxins on peanuts
- 1966 General Mills introduces flavored protein that tastes like bacon
- 1967 U. S. D. A. begins tests of irradiating food to kill insects
- 1967 A. E. Porsild and Charles Arington germinate 10,000 year old lupine seeds
- 1967 Clinton Corn Processing Co. introduces high fructose corn syrup
- 1967 James Faria & Robert Wright patent Astroturf, an artificial grass
- 1968 W. Gaud, head of the U. S. Foreign Aid Program, coins the phrase "green revolution"
- 1970 Norman Borlaug receives Nobel Prize (Peace) for development of dwarf wheat
- 1970 Male sterile strains of maize hit by southern leaf blight
- 1970 Rust hits Brazilian coffee crops causing \$3 billion loss
- 1970 Barley hybrid seed becomes commercially available
- 1971 Centro Internacional de la Papa (CIP) founded
- 1971 Canadian Int. Development Agency investigates triticale as food for humans
- 1971 First Starbucks opens in Seattle's Pike Place Market
- 1972 Wild rice domesticated
- 1972 Black sigatoka fungus attacks Central American bananas
- 1972 Use of DDT banned in the U. S.
- 1973 High lysine strains of sorghum developed
- 1973 Herbert Boyer and Stanley Cohen create DNA with sticky ends
- 1973 Stanley Cohen and Herbert Boyer recombine and duplicate DNA from two species
- 1974 Wheat hybrid seed becomes commercially available
- 1975 Endorphins (naturally occurring morphine-like hormones) discovered
- 1975 Miller Brewing Company introduces "Lite" beer
- 1975 Soft drinks now more popular than coffee
- 1975 World population reaches 4 billion
- 1975 Schell & Van Montagu find crown gall genes occur in plasmids
- 1975 Seed Savers Exchange founded
- 1976 Soft drinks now more popular than milk
- 1976 HFCS (high fructose corn syrup) developed

- 1976 Herbert Boyer and Robert Swanson found Genentech, first genetic engineering company
- 1979 Raphael Guzman discovers perennial teosinte (Mexico)
- 1980 Coca Cola switches from sugar to high fructose corn sweeteners
- 1980 U. S. Supreme Court rules that genetically-engineered bacteria may be patented
- 1981 Liza Hohenschutz et al. isolate castanospermine, useful in HIV treatment, from Moreton Bay chestnut
- 1981 Whitely & Schnepf find gene in Bacillus thurgensensis that kills insects
- 1982 Horst Binding and Jonathan Gressel develop protoplast fusion
- 1983 Barbara McClintock receives Nobel Prize for discovery of "jumping genes"
- 1983 N. Murai inserts protein from bean plant into a sunflower
- 1983 NutraSweet, a synthetic sugar substitute, introduced
- 1983 Functioning bacterial plasmid transferred into plant cell
- 1983 Murray & Szostak construct first artificial chromosome
- 1985 T. Fujimara regenerates rice protoplasts
- 1985 U. S. Board of Patent Appeals rules that plants may be patented
- 1985 Coca Cola replaces its traditional recipe with a new, sweeter version
- 1986 Coca Cola pulls "New Coke" from market
- 1986 U. S. D. A. approves irradiation of fruits and vegetables
- 1986 U. S. D. A. approves field-testing of genetically altered, high-yield tobacco
- 1986 World population reaches 5 billion
- 1987 Genetically-engineered, frost-resistant potatoes field-tested in California
- 1987 Genetically modified tobacco with herbicide-tolerance, gene field-tested
- 1988 Carol Rhodes inserts foreign gene into maize
- 1988 U. S. carries out experiments using robots to pick fruits
- 1988 Monsanto Corporation field-tests Roundup-resistant tomato
- 1988 James Anderson discovers that oat bran lowers cholesterol levels
- 1989 Taxol, from the Pacific yew, found effective in treatment of human breast cancer
- 1991 U. S. Government declares second-hand smoke a health hazard
- 1991 Sale of salsa in the U. S. exceeds that of catsup
- 1992 One hundred ninety-two countries sign Convention on Biodiversity
- 1994 Food and Drug Administration approves sale of genetically-engineered "Flavr Savr" tomato
- 1994 First genetically-engineered food goes on sale in California and Illinois
- 1994 U. S. Congress passes Dietary Supplement Heath & Education Act
- 1995 Food and Drug Administration declares nicotine a drug
- 1995 Monsanto introduces Newleaf potato, genetically engineered to kill potato beetle
- 1995 Environmental Protection Agency approves marketing of genetically-engineered maize
- 1996 California passes Proposition 215, thereby legalizing medicinal use of marijuana
- 1997 John Pezzato discovers anti-cancer properties of resveratol in grapes and other fruits
- 1997 The Liggett Group admits that tobacco is addictive
- 1997 U. S. District judge rules F. D. A. can regulate tobacco as a drug
- 1998 Delta & Pine Land Co. & U. S. D. A. patent "terminator gene"
- 1999 Institute of Medicine calls for clinical trials of medical marijuana
- 1999 Dupont purchases Pioneer Hi-Bred, world's largest seed corn company
- 1999 Food and Drug Administration approves use of "Olestra" in processed foods
- 1999 World population reaches 6 billion
- 1999 John Losey finds Bt corn pollen toxic to butterflies
- 1999 Plum pox found for first time in North America
- 1999 Monsanto releases "terminator seeds"
- 2000 Human genome decoded
- 2000 Royal Botanic Garden, Kew establishes Millenium Seed Bank at Ardingly, England
- 2001 Aventis CropScience is ordered to pay millions in compensation for genetically altered corn
- 2001 Syngenta and Myriad Genetics decode rice genome
- 2001 U. S. Congress passes "Fruit, Vegetable, and Plant Smuggling Act"
- 2001 U. S. Supreme Court rules that use of medicinal marijuana violates federal law
- 2001 Environmental Protection Agency renews authorization for use of genetically modified corn
- 2002 California Supreme Court ruling protects medicinal use of marijuana
- 2003 U. S Congress renames the french fry as freedom fry

- 2003 Virgin Airlines cancels flight to Australia because of smell of durian fruit in passenger cabin
- 2004 Ninth Circuit Court rules D. E. A. lacks authority to ban foods derived from hemp
- 2004 FDA bans ephedra first ban of a dietary supplement
- 2005 Swiss government allows limited production of absinthe
- 2005 Complete genome sequence of rice mapped (37,544 genes)
- 2006 FDA declares no scientific support for medicinal use of marijuana
- 2007 Global Seed Vault established on the Norwegian Island of Spitsbergen
- 2007 FDA requires tests of ingredients in herbal supplements, but not their safety or effectiveness
- 2007 French and Italian researchers map the pinot noir grape genome (about 30,000 genes)
- 2007 The Netherlands bans sale of hallucinogenic mushrooms
- 2008 California bans use of khat
- 2008 Mars Candy Co. purchases William J. Wrigley, Jr. chewing gum
- 2009 American Med. Assoc. urges federal government to remove marijuana from Schedule 1 list
- 2009 U. S. Department of Energy publishes sorghum genome
- 2009 Air New Zealand conducts test of jet fuel made partially from jatropha oil
- 2009 Keerti Rathore of Texas A & M Univ. discovers how to inactivate gossypol gene in cotton
- 2010 Kraft purchases Cadbury Chocolate for \$19B
- 2010 USDA, IBM, and Mars Candy Co. complete preliminary cacao gene sequence
- 2010 Drought destroys 20% of Russian wheat crop
- 2010 Apple genome decoded; 57,000 genes identified
- 2010 U. S. Navy orders 150,000 gals. of fuel made from algae
- 2010 U. S. Supreme Court lifts ban on genetically engineered alfalfa
- 2010 California voters defeat Proposition 19, which would have legalized recreational use of marijuana
- 2010 Earliest evidence of wine making (6100 years ago) found in Armenian cave
- 2011 Potato genome decoded; 39,000 genes
- 2011 U. S. D. A. approves growing genetically engineered sugar beets
- 2011 U. S. D. A. approves Enogen, genetically engineered corn for use in ethanol production
- 2012 Tomato genome decoded; 31,760 genes
- 2013 U. S. Supreme Court rules that farmers must pay Monsanto for each use of its modified soybeans
- 2014 Human genome now estimated at 19,000 genes
- 2014 U. S. D. A. approves genetically engineered potato with less acrylamide, a suspected carcinogen.
- 2016 United Airlines begins use of a biofuel made from feed stocks, natural oils, and agricultural waste
- 2016 World population reaches 7.4 billion

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