A Potato Chronology

By Richard E. Tucker 17 September 2013

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Introduction

A Potato Chronology is an attempt at a history of potatoes in what is perhaps a new way to do history. It is a simple listing of facts and factoids about potatoes arranged in the manner of an historical timeline limited to one line per entry. Information is constantly being gleaned from primary and secondary sources, including web-based sources. Citations are included for all entries so that those interested can conduct further research on their own.

In the beginning this work started with a narrow focus on the potato industry in New York State and, even more specifically, its northern Adirondack Mountain region where Green Mountain seed potatoes were once grown for distribution throughout the Northeast and Mid-Atlantic states. But it quickly became apparent that such a parochial view was limiting and that to truly understand the potato industry and its history, a much broader perspective was needed. So, our focus was widened, and herein one will find facts, statistics, incidents, discoveries, and developments from far-flung places affecting the world of the potato. Each entry represents some small incremental change or fact pertinent to the potato industry. Hopefully, the summation of these entries will give one a cursory understanding of the interconnectedness of world, national, and local influences that have reverberated throughout the potato world over the years. At the same time, we admit our prejudice to promote the New York State potato industry above others, and so we ask forbearance if we seem to do so in an inordinate manner.

A truly complete chronology may not be possible due to time constraints and lack of sources of information. Still, one can make an attempt. This concept was prompted by the author's on-going work on *An Adirondack Chronology* and a work-in-progress on the history of skiing in the Adirondacks. While not related to potatoes, those projects made clear the value of a chronology or timeline for keeping track of events over time. The former made it clear that if one could add enough entries, even those which at first seem to have only tenuous connections to the subject, cause and effect will eventually appear. For that reason an attempt has been made to include not only the history of potatoes and of farming in general, but also of agricultural chemicals, plant pathology, potato breeding, genetics and taxonomy, crop science, potato equipment, ecology, and governmental regulation, as well as the changes in society and living that influenced changes in the potato industry. Together, it is hoped that these varied entries at the least will provide a sense of context for any given period of time.

For example, in 1976, a severe drought struck Europe. The potato crop failed and many countries shipped potatoes to Europe to help stave off hunger and starvation. No one realized then that these acts, done for both humanitarian and business reasons, precipitated a side-effect that would not become clear until years later when a virulent late blight took hold in Europe and quickly spread throughout the potato world. Another example, perhaps more clearly exemplifying the concept, is the development of agricultural chemicals during mid-nineteenth century to combat insects, fungi and other pests. From the time of the initial discovery of the efficacy of certain chemicals to control insect and fungal pathogens, several years, even decades, passed before specialized production facilities were built and specialized tools and machinery were invented so that these chemicals could be produced and applied to crops economically. Even then, and perhaps more fundamentally, farmers had to recognize those benefits and make adjustments in their cash flow situations to afford these new technologies. Only after justifying these added costs and buying the required equipment and chemicals could farmers take advantage of the new technology and reap the benefits of increased production (actually reduced losses). As time went on it became clear that despite the benefits, there were drawbacks. Noticeable changes in the local ecology and even human health appeared. These represented liabilities to farmers and consumers alike, prompting demands for improved chemicals, more efficient application methods, and ultimately, to non-chemical means to combat insects and fungus. Cause and effect are a never-ending force driving better farming methods.

Sometimes it is difficult to connect cause and effect. We delude ourselves in thinking that progress is planned, and perhaps it truly is on some incremental level, but more often than not, it is a series of unrelated events. The contemporaneous invention of the cast iron kitchen stove and the advent of inexpensive cooking oil in the mid-to-late nineteenth century led to widening popularity of potato chips and French fries. Before that time, deep-frying had been

out of the question except in only the wealthiest of households. Certainly, at that time, no one ever set out purposefully to create a market for potato chips or fries.

Potato growers in Franklin County, New York were among the earliest in the U.S. to promote seed certification (behind Wisconsin) to enhance the quality of seed potatoes, hence the sales of such. In 1913, over three quarters of all of Franklin County, NY, seed potatoes were rejected due to infection by mosaic (PVY), but these growers persisted, despite these dire findings. With the help of Dr. E.V. Hardenburg (Cornell University) starting around 1919 who under the Cooperative Extention Program, taught them what to look for, they rogued their fields assiduously ridding them of all mosaic (PVY) and all other recognized potato diseases. They even crossed their Green Mountains with their Green Mountains attempting to find a more productive variety.

In the early 1920s USDA, NYS. Seed certification. Cooperatives.

Similarly, "fast-food" frozen French fries appeared shortly after WWII. But how many know it took the sequential combination of the development of large-scale land irrigation systems in the potato growing regions of the American West, Ray Dunlap's discovery of a process for freezing potatoes (further developed by Ken Strong and Edwin Traisman at McDonald's and finally perfected at commercial scale by Ray Kueneman of JR Simplot (a 22-year process)), before the McDonald brothers' fast-food restaurant scheme could be fully exploited by the entrepreneurship of J.R. Simplot and Ray Kroc for frozen French fries to spread around the world. We all now know the result: frozen French fries dominate the U.S. potato world.

Suburban sprawl is usually blamed for the loss of the once-famous potato farms on Long Island, but one might wonder how long it could have been delayed if the Golden nematode had not found its way to Nassau County in the early 1930s. This long-lasting pest subsequently rendered much prime potato land unfit for growing potatoes; it is not surprising that developers made unrefusable offers to those former potato farmers. Please know that despite the state and federal quarantine implemented on Long Island, the Golden nematode has subsequently spread from Long Island to New York's Steuben and Cayuga Counties, and more recently, to Quebec, Canada. Almost immediately upon its discovery on Long Island, potato breeders at Cornell University and USDA ARS began developing potato varieties resistant to Golden nematode. This remains one of the strongest facets of potato breeding at Cornell University.

More recently, American potato growers reacted to the triple whammy of the following: the North American Free Trade Agreement and the amendment to the Plant Variety Protection Act in 1994, and then the Central American Free Trade Agreement (signed in the summer of 2005). Upon the latter, European seed suppliers quickly moved into U.S. markets with PVP seed potatoes quite to the surprise of American growers and breeders who had assumed all along that new potato varieties were 'public' property. The U.S. potato industry is still adjusting to these new realities.

Consumers old enough to remember will recall the sudden decline of the recent low-carbohydrate diet fad (potato growers had little sympathy when Atkins Nutritionals filed bankruptcy in 2005), the on-going move to eliminate trans-fats (partially-hydrogenated fats) and saturated fats from the American diet (probably a good thing), and the national campaign to promote the benefits of potato nutrition. We will not mention the more recent misguided application of glycemic index developed as a guide for Type 2 diabetes sufferers to avoid spikes in their blood sugar levels as an indicator of food to avoid for weight control.

Additionally, potato growers are constantly dealing with the on-going rising cost of fuel, fertilizer, pesticides and transportation against a relatively flat price received for their potatoes.

We must also mention the incipient grass-roots effort to promote 'Buy Local' programs which may or may not benefit the potato industry. It all depends on what one's market is. While 'Buy Local' can affect one's local market; it cannot affect the wider world, unless all 'local markets' are affected.

The reality is that most commercial potato growers have no incentive to affect their local markets. Few potato growers sell in their local markets. In NYS, most growers sell to processors: chips or French fries or otherwise whose markets are far from the growers. Tablestock growers usually sell to markets far from their farms. Those tablestock growers who sell to what qualifies as a 'local market' would seem to be in the minority. No one can predict how these will come together to change the potato world. Nature holds most of the strong cards, but the people and the marketplace ultimately drive the overall process.

Users of this chronology may find it useful to use the 'find' mode to locate items of interest or to locate entries pertaining to a common thread. An attempt has been made to use consistent terms and phrases to facilitate this. This work is not a detailed history of the potato industry, but only a starting point. The author's intent is to provoke thought,

to stimulate further research on the part of the reader, and to have a little fun. Additional information may be found in the source documents.

While the author has attempted to make this chronology as accurate and complete as possible, he is sure that errors and conflicts have crept in. Please email the author at rtuckerr@aol.com with all corrections and new entries. Of particular interest is information on the invention and development of potato equipment since the 1920s. It seems, at least to this author, that this is poorly documented. Any information on this will be gratefully received.

Lines highlighted in red are awaiting more research to confirm the facts or a citation of the source.

Abbreviations

a. = acre

AAA = The Agricultural Adjustment Act (of 1933 and subsequent enactments)

AG = Attorney General

APHIS = Animal and Plant Health Inspection Service (USDA)

APA = Adirondack Park Agency

APS = American Phytopathological Society

ARS = Agricultural Research Service (USDA)

AWG = Associated Wholesale Grocers (a co-op based in Kansas)

avg. = average, statistical mean

BRR = Bacterial ring rot

Bt = Bacillus thuringiensis

Btt = *Bacillus thuringiensis* var. *tenebrionis*

bu. = bushel

CAFTA = Central American Free Trade Agreement

CCE = Cornell Cooperative Extension

CDN = dollars, Canadian currency

CEEM = Cornell-Eastern Europe-Mexico International Collaborative Project

CFIA = Canadian Food Inspection Agency (Canada)

CIP = The International Potato Center (Centro Internacional de la Papa) Peru (South America)

CPB = Colorado potato beetle

CSA = Community Supported Agriculture Program

CSPI = Center for Science in the Public Interest

CSX = railroad company standing for "Chessie, Seaboard and many times more"

Ct. = Court

cwt. = hundredweight

DAM = Department of Agriculture and Markets (New York State)

DDT = Dichloro-diphenyl-trichloroethane; also 1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane

DNA = Deoxyribonucleic acid

EC = European Commission

EPA = Environmental Protection Agency (USA)

ERS = Economic Research Service (USDA)

ESNY = Eat Smart New York

FCSPGA = Franklin County (NY) Seed Potato Growers' Association

FMNP = Farmers' Market Nutrition Program

GILB = Global Initiative on Late Blight

GM = genetically modified

HS = high school

ICBN = International Code of Botanical Nomenclature

ICNCP = International Code of Nomenclature of Cultivated Plants

IFGAC = Idaho Fruit and Vegetable Advertising Commission

IGA = Independent Grocers Alliance

IPM = Integrated Pest Management

IR-1 = Inter-Regional Potato Introduction Project

LIHRL = Long Island Horticultural Research Laboratory, Riverhead, NY
LIHREC = Long Island Horticultural Research and Extention Center, Riverhead, NY
LIVRF = Long Island Vegetable Research Farm, Riverhead, NY

MM = million

MPVd = Mexican papita viroid

MSU = Michigan State University

NAFTA = North American Free Trade Agreement

NASA = National Aeronautical and Space Administration

NASS = National Agriculture Statistics Service (USDA)

NCCC = North Country Community College (Saranac Lake, NY)

NIAB = National Institute of Agricultural Botany (UK)

NGI = Netherlands Genomics Initiative

NPC = National Potato Council

NPPB = National Potato Promotion Board

NPRM = Notice of Proposed Rulemaking (USDOL Wage and Hour Divison)

NRCS = National Resources Conservation Service

NRSP-6 = National Research Support Program-6

NSF = National Science Foundation

NYS = New York State

NYSIC = New York Seed Improvement Cooperative, Inc.

NYSIP = New York Seed Improvement Project (Cornell's College of Ag. & Life Sciences)

OPEC = Organization of the Petroleum Exporting Countries

OEHHA = Office of Environmental Health Hazard Assessment

PAA = Potato Association of America

PACA = Perishable Agricultural Commodities Act

P&G = Proctor & Gamble

PCII = Potato Chip Institute International

PCN = Potato cyst nematode

PEI = Prince Edward Island, Canada

PGSC = Potato Genome Sequencing Consortium

PLA = Poly(lactic acid), or Polylactide

PLRV = Potato leaf roll virus

PMANA = Potato Marketing Association of North America

PMTV = Potato mop top virus

POW = prisoner of war

PSTVd = Potato spindle tuber viroid

PTIS = Potato Introduction Station Herbarium

PTW = Potato tuberworm

pub. = publishes

PVPA = Plant Variety Protection Act of 1970 (amended 1994)

PVX = Potato virus X

PVY = Potato virus Y

QSR = quick service restaurant

REDCA = Regional Economic Development Council Award (New York State)

SAR = Systemic Acquired Resistance

SC&DAA = The Soil Conservation and Domestic Allotment Act

SFA = Snack Food Association

SNHP = State National Harmonization Program

spp =

SPAAM = Society for the Promotion of Agriculture, Arts, and Manufactures

syn. = synonym

TIGR = The Institute for Genomic Research

TILB = Toluca International Late Blight Project U.S. United States TMV = Tobacco mosaic virus TOSCA = Toxic Substances Control Act UK = United Kingdom UNITED = United Potato Growers of America UPGA = United Potato Growers of America UPGI = United Potato Growers of Idaho (separate from UPGA) U.S. = United StatesUS = United States USDA = United States Department of Agriculture USPB = United States Potato Board USSC = United States Supreme Court VAT = value-added taxVIR = N.I. Vavilov Research Institute of Plant Industry, Russia WIC = Women, Infants and Children WSPC = Washington State Potato Commission WPVGA = Wisconsin Potato & Vegetable Growers Association WUR = Wageningen University and Research Centre, Netherlands yro = age, years old

A Potato Chronology

Cultivation of crops begins in Nanchoc Valley of northern Peru ¹	8000 BP
Aymará Indians of Peru and Bolivia harvest early forms of potato tubers ²	8000 BP
Aymará Indians of the Titicaca Plateau, Peru and Bolivia, cultivate 200 varieties of potato ³	2500 BC
Sumerians use sulfur compounds to control insects and mites ⁴	2500 BC
Botanical insecticides used for seed treatments and fungicides in China ⁵	1200 BC
Iroquois of southern Ontario and northern/central New York begin growing maize (corn) ⁶	1000 BC
The Roman, Cato the Censor, advocates the use of oil sprays for pest control ⁷	200 BC
Ko Hung, an alchemist, advocates root application of white arsenic for transplanting rice ⁸	400 AD
Phytophthora infestans and P. mirabilis diverge from unknown common ancestor in Toluca Valley, Mexico ⁹	c. 694 AD
Arabian farmers practice weed control with removal by hoe, crop rotation, and cultivation ¹⁰	1300
Iroquois devise systems for growing maize (corn), beans, squash (including pumpkins) i.e. 'the three sisters'	c. 1300
The word spudde, later spudd and spud, refers to a small, inexpensive knife or dagger ¹²	c. 1440
Berne, Switz., cutworms are taken to court, declared guilty, excommunicated, then banished ¹³	1476
High Vicar of Valence gives caterpillars defense council, then condemns them to leave the area ¹⁴	1485
Types I & II mtDNA haplotypes of P. infestans diverge, coincident with contact of Spanish with Mexicans 15	early
1500s	
Spaniard Francisco Pizzaro and his men may have seen potatoes at Cajamarca in northern Peru ¹⁶	1533
Juan de Castellanos records sighting of potatoes while looting a village in Valle de la Grita, Columbia ¹⁷	1537

The houses (of the Indians) were all stocked with maize, beans and truffles (= potatoes), spherical roots which are sown and produce a stem with its branches and leaves, and some flowers, although few, of a soft purple colour; and to the roots of this same plant, which is about 3 palms high (= 60 cm), they are attached under the earth, and are the size of an egg more or less, some round and some elongated; they are white and purple and yellow, floury roots of good flavour, a delicacy to the Indians and a dainty dish even for the Spaniards.

Juan de Castellanos Elegias de varones ilustres de Indias Part 4 in *Historia del Nuevo Reino de Granada*, Madrid, Antonio Paz y Melia, 1886 (from manuscript completed 1 May 1601). Translated by J.G. Hawkes, 1967

Spanish explorers returning from S. America introduce the potato to sub-Saharan Africa ¹⁸	1538
Francisco Lopez de Gomara publishes an account of the potato in <i>Historia General de las Indias</i> ¹⁹	1553
Notary's register at Tenerife, Canary Isl., lists shipment of locally produced potatoes to Antwerp, Belgium ²⁰	1565
The presence of potatoes are recorded on the Canary Islands Archipelago (Spanish Canary Islands) ²¹	1567
	c. 1570
Spanish sailors who ate potatoes on long voyages did not suffer from scurvy, officers initially refused them ²²	c. 1570
Potatoes are bought for consumption at La Sangre Hospital, Seville, Spain ²⁴	1573
Prospero Alpini, Italian physician/botanist, notes plants come in two sexes (farmers already knew this) ²⁵	c. 1580
Potatoes from Spain are grown in Europe, but still a short-day plant of the tropics, they perform poorly ²⁶	1570s-80s
The potato is brought into Germany from Italy ²⁷	1585
Potatoes are already known in Italy ²⁸	1587
Philip De Sivry, Prefect of Mons, Belgium, makes a colored illustration of a potato plant ²⁹	1588
The potato is introduced into England ³⁰	1590
John Gerard, herbalist and gardener, mentions the potato in the <i>Catalogue</i> ³¹	1596
Gaspard (Kaspar) Bauhin gives the potato its botanical name <i>Solanum tuberosum</i> in his book <i>Phytopinax</i> ³²	1596
John Gerard, herbalist and gardener, publishes an entire chapter w/ illustrations on potato in <i>The Herball</i> (De	$(ec)^{33}$ 1597

They are sometimes boiled and sopped in wine, by others boiled with prunes, and likewise others dress them (after roasting them in the ashes) in oil, vinegar and salt, every man according to his own taste. However they be dressed, they comfort, nourish and strengthen the body.

Gerard's description of potato salad in *The Herball* (as described by Arnold Shircliffe in his *Edgewater Beach Hotel Salad Book* (Hotel Monthly Press: Evanston, IL), 1928, p. 231

Only two varieties of potato are cultivated in Europe ³⁴	1600s
The British send potatoes to colonists in Bermuda ³⁵	1613
Potatoes are planted in Germany ³⁶	1621
Nathaniel Butler, Governor of Bermuda, ships potatoes to colonists in Virginia ³⁷	1622
Potatoes are planted in Port Royal, Nova Scotia ³⁸	1623
Decades of selection and breeding in botanists' gardens begin yielding large tubers for luxury use ³⁹	mid-1600s

It is now generally agreed that *S. tuberosum* originated in the Andes of Peru and Bolivia. These potatoes are short-day types and constitute the subspecies *andigenum*. Man subsequently introduced them to Chile and after many generations of selection, long day types evolved which are now classified as subspecies *tuberosum*. The early introductions to Europe were most likely subspecies *andigenum* and as in Chile, seedlings more adapted to the long day conditions of Europe were selected.

Harris, Graham and Niha, Poai Pakeha, August 1999. "Nga - Riwai Maori — Maori Potatoes," The Open Polytechnic of New Zealand, Working Paper. Retrieved 18 May '03, from: http://www.topnz.ac.nz/research/wp/res_wp299harrisg.pdf

Slave-trader John Hawkins introduces the potato into Ireland, but its culture is soon abandoned 40	1635
Potatoes contribute to the spread of the agrarian revolution in Europe ⁴¹	c. 1648
Potatoes are established as a field crop in Ireland ⁴²	c. 1663
Up to this time, in Spain, potatoes are eaten mostly by the poor and soldiers ⁴³	1650
Historian Bernabé Cobo describes how Spanish women grind chuno into potato flour for baking ⁴⁴	1653
John Forster publishes <i>England's Happiness Increased</i> devoted entirely to potatoes ⁴⁵	1664
The word spudd, also spud, evolves to mean a digging tool ⁴⁶	1667
Francesco Redi disproves the spontaneous generation of maggots ⁴⁷	1668
Belgian 'frites' originate when the Meuse freezes; potatoes are frozen, fried, and eaten in lieu of fish ⁴⁸	1680
Anton van Leeuwenhoek observes bacteria, but does not understand their significance ⁴⁹	1683
Jethro Tull invents the seed drill to cut furrows, sow, and cover seeds greatly increasing productivity ⁵⁰	1701

William Salmon calls <i>Solanum tuberosum</i> the 'Irish Potato' in his <i>Herbal</i> ⁵¹	1710
Tithe on potato crop at Isle of Mann is set, but clergy does not enforce as potatoes were poor people's food ⁵²	1712
As a food crop in Europe the potato is considered less important than the radish ⁵³	1716
Huge influx of Scots-Irish in Derry, NH establish potato as staple crop in N. America ⁵⁴	1719
Philip Miller, in his <i>Gardener's Dictionary</i> , mentions but two varieties, a red and a white ⁵⁵	1724
Potatoes are cultivated in Switzerland ⁵⁶	1729
A blue-skinned potato variety called The Block is widely grown in Ireland ⁵⁷	1730
George Rye describes 3 popular potato varieties, a white early, a yellow-fleshed keeper, and the Black ⁵⁸	1730
Farmers begin to grow crops in rows to facilitate weed removal ⁵⁹	1732

The potato: "heretofore reckon'd a food fit only for Irishmen, and clowns."

Stephen Switzer

Writer and garden designer at Castle Howard and Blenheim, England 1733

Ireland is stuck by a major famine, the 'first potato crisis'; 500,000 people die 60	1740
Charles Bonnet recognizes that aphids reproduce parthenogenetically ⁶¹	1740
Frederick II of Prussia forces peasants to plant potatoes ⁶²	1743
T.B. Hoppe describes potatoes afflicted with the 'Curl' in Germany ⁶³	1747
John Needham promotes the idea of spontaneous generation of microorganisms ⁶⁴	1748
Peter Kalm, while visiting Albany, NY, observed that potatoes were planted there "by almost everyone" 65	1748
A.A. Parmentier is POW 5 times during Seven Years War; each time is fed potatoes three times per day ⁶⁶	1756-63
Spanish plant breeders begin improving the potato ⁶⁷	1760
English potato growers compete to develop new varieties to get marketable tubers earlier in season ⁶⁸	1760s
Two potato varieties are introduced in Great Britain: The Howard (from the U.S.) and White Kidney ⁶⁹	1765
A dry, mealy potato good for boiling, called The Apple, syn. The Irish Apple, is introduced in Ireland ⁷⁰	1768
Lazzaro Spallanzani disproves the idea of spontaneous generation of microorganisms ⁷¹	1768
Named potato varieties are common, but local names given to common varieties leads to marketplace confi	fusion ⁷² 1770
Captain Cook introduces potatoes to Australia ⁷³	1770
The Yam variety with red skin and a reddish streak in the flesh is introduced in Great Britain ⁷⁴	c. 1771
Joseph Priestly shows the life-supporting ability of plants ⁷⁵	1771
The Red Nosed Kidney variety, syn. Wicklow Bangers (in Dublin), is introduced in Great Britain 76	c. 1775
The 'Curl' begins to seriously diminish potato yields in Gr. Britain; search begins for new varieties 77	c. 1775
British continue act expanding Irish & American imports to include potatoes and 'all kinds of pulse' 78	1775
The Manly variety is introduced in Great Britain ⁷⁹	c. 1776
American agriculture experiences the Revolutionary War boom ⁸⁰	1776-83
American agriculture experiences post-war depression and deflation; maritime commerce prospers	1784-88
Soldiers forage Bavarian potato fields, War of the Bavarian Succession, a.k.a. 'potato war' (Kartoffelkrieg	
Jan Ingenhousz discovers that plants absorb oxygen at night and carbon dioxide during day ⁸²	1779
Peter Pond grows potatoes near Lake Athabaska, Saskatchewan, Canada ⁸³	1779
Antoine-Augustin Parmentier plants two hectares potatoes in France and posts guards around the fields ⁸⁴	1785
A.A. Parmentier and Louis XVI create feast of only potato dishes; B. Franklin reputedly is in attendance ⁸⁵	
Two potato varieties are introduced in Great Britain: Early Champion and Ox Noble ⁸⁶	c. 1787
William Marshall describes breeding and selection methods used for raising new varieties ⁸⁷	1788
Thomas Jefferson introduces <i>pommes-frites</i> , 'French-fries' to America ⁸⁸ (see 1840s)	1789
Antoine L. de Jussieu publishes method for the classification of plants ⁸⁹	1789
Society for the Promotion of Agriculture, Arts, and Manufactures (SPAAM) is formed at Albany, NY ⁹⁰	1791
A discussion on "a method of distilling ardent spirits from potatoes" is held at a SPAAM meeting ⁹¹	1792
U.S. experiences national recession, "Panic of 1792"; Wall Street securities lose 25% of value in 2 weeks ⁹	
Christian Konrad Sprengel explains the role of insects and wind in plant fertilization ⁹³	1793
A Mr. Yeald develops a plough-type potato lift in Herefordshire, England ⁹⁴	c. 1795

7

"Of all the improving and ameliorating crops, none, in my opinion, is equal to potatoes." George Washington In letter to Thomas Jefferson, 1795

Frenchman Nicholas Appert invents canning for the indefinite preservation of perishable foods ⁹⁶	1795
Potato scoop for removing the eyes for planting comes into common usage ⁹⁷	early 1800s
Hand-powered, rotary, wooden cage spun in a water trough is used for washing potatoes ⁹⁸	early 1800s
An unknown metapopulation of <i>P. infestans</i> disperses outside of Mexico, probably in North America ⁹⁹	early 1800s
The potato, in New York state, is a garden vegetable, viewed as 'garden sauce' 100	1800
John Gilkey, Mercer Co, PA, plants potato seedballs from his garden, selects the best over next three yrs 101	c. 1800-1805

In the fall of the year 1800 or 1801, John Gilkey collected the balls or apples from his potatoes, which were of the varieties of red, blue and white. In the spring he planted the balls or apples in a bed in his garden. The seeds produced small potatoes, some of them not larger than peas, and of different colours. On being cultivated the second and third year, the potatoe (sic) arrived at its full size. How John Gilkey selected from the first production, Mr. James Gilkey does not know. Mr. Bevan Pearson first cultivated this potatoe in the vicinity of Philadelphia, from seed obtained in Mercer county, and thence named it after the county, where it was first produced. Mr. John Gilkey named it Neshanoc, after a creek from which the settlement was named.

E. Whittlesey

"History of the Neshanoc, or Mercer Potatoe (sic)," *The Farmers' Cabinet and American Herd-Book*, Vol. VIII, 1843-44, p. 240.

102	
ocal crop failures in Ireland cause general famine; typhus epidemic strikes 102	1800-01
aron Von Humboldt finds Indians of Peru using dried bird dung (guano) as fertilizer on their crops 103	1801-03
ohn Biddes is granted U.S. patent for making starch from potatoes 104	1802
homas Moore insulates a 'box-within-a box' for preserving food and calls it a 'refrigerator' 105	1803
icholas Theodore de Saussure shows that plants need carbon dioxide from air and nitrogen from soil 100	1804
lbrecht D. Thaer begins studies of crop rotation and building of soil fertility at Möglin, Prussia 107	1804
ohn and James Gilkey begin giving their Neshanoc (future Mercer) potatoes to neighboring farmers to	try ¹⁰⁸ 1805
red-skinned potato variety called The Cup is developed and becomes widely grown in Ireland 109	1808
watery, bland-tasting, but heavy yielding potato variety, the Lumper, is introduced to Ireland 110	1808
olish pamphlet The Perfect Distiller and Brewer advises distilling of vodka from potato yields poorest	result ¹¹¹ 1809
nglishman Peter Durand invents the tin can greatly improving the canning process ¹¹²	1810
homas Nuttal discovers the Colorado potato beetle on the high plains east of Rocky Mtns ¹¹³	1811
hilean potato varieties are already grown in Europe and begin to supplant Andean varieties ¹¹⁴	1811
hree consecutive bad crops lead to 'Luddite' potato riots at Bristol, Stockport, Nottingham, England 115	1812
treet vendors, "the baked 'tato men'" sell hot baked potatoes in London; some are used as handwarmer	rs ¹¹⁶ 1813
ohn Jethro Woods of Poplar Ridge, NY, creates a plough with a replaceable cast-iron tip 117	1814
Britain passes Corn Laws to protect corn growers by restricting imports and keeping prices high 118	1815
Villiam Kirby writes chapter "Diseases on Insects" in An Introduction to Entomology 119	1815
lkanah Watson organizes an agricultural society at Albany, NY ¹²⁰	1816
ish potato crop fails; typhus epidemic strikes ¹²¹	1816-17
inancial panic begins end of 'Era of Good Feeling'; economic depression lasts two more years 122	1819
ew York State legislature establishes the New York State Board of Agriculture 123	1819
otatoes are planted in Hawaii ¹²⁴	1820
treet vendors, "the baked 'tato men," are still selling hot baked potatoes in London 125	1820
ish potato crop fails ¹²⁶	1821-22
lias Fries, Swedish mycologist, writes standard references on fungi ¹²⁷	1821-32
r. Kitchiner pub. 4th ed., The Cook's Oracle; Containing Receipts for Plain Cookery w/ 'potato chi	p' recipe ¹²⁸
	1822
hamplain Canal opens from Lake Champlain to Waterford, NY ¹²⁹	1822

Thomas Say describes the Colorado potato beetle from specimens collected from the Rocky Mountains ¹³⁰

1824

Anglican bishop at Isle of Mann raises potato crop tithe to 2 times English (4 times Irish) rates ¹³¹

1825

Isle of Mann potato crop fails; church seizes potatoes; angry mobs riot setting church's potatoes afire ¹³²

William Prout, English physician/chemist, classifies foodstuffs into carbohydrates, proteins, and fats ¹³³

1827

Dr. Wm. Kitchiner pub. 7th ed. of *The Cook's Oracle; Containing Receipts*... with 'potato chip' recipe ¹³⁴

1829

English entrepreneurs ship Chilean nitrate of soda to England for fertilizer, but farmers refuse to use it ¹³⁵

1830

John Carter, Savoy, Berkshire Co., MA, plants potato seed balls and selects best results for next several years ¹³⁶

c. 1830

About thirty years ago, more or less, John Carter, a resident of Savoy, in the county of Berkshire, experimented for the purpose of the improvement of potatoes by planting potato balls, and at harvesting the firest year he found that he had advanced one step towards bringing out a new potato. He, therefore, the next year planted the seed raised the first (year), and so onfor several years, till he produced the potato now distinguished as the Carter. Mr. Carther died soon after, and therefore did not enjoy the full glory of his discovery.

"Origin of the Carter potato,"

New England Farmer, Feb 1859, 11(2): 64

Genotypes HERB-I and US-I of <i>Phytophthora infestans</i> diverge from an unknown metapopulation ¹⁴⁰ 1830s Titus Bronson, near Kalamazoo, brings Mercer, a.k.a. Neshanoc, Neshannock, to Michigan potato growers ¹⁴¹ 1830s Guano, in small amounts, is imported to the U.S. from South America as crop fertilizer ¹⁴² 1832 Boston housekeeper (N.K.M. Lee) pub. <i>The Cook's Own Book</i> with Dr. Kitchiner's potato chip recipe ¹⁴³ 1831-38 Potato processing in the U.S. is initiated with the erection of a potato starch plant ¹⁴⁵ 1831-38 Potato processing in the U.S. is initiated with the erection of a potato starch plant ¹⁴⁵ 1832 Blackleg is identified as a disease of potato ¹⁴⁷ 1832 Blackleg is identified as a disease of potato ¹⁴⁷ 1835 Charles Darwin describes a variety of potato he saw on the archipelago of Chiloé off S. coast of Chile ¹⁴⁸ 1835 Selling of baked potatoes by the "baked 'tato men" on the streets of London takes off ¹⁴⁹ 1835 Harmon Spalding establishes a 15-acre plot of potatoes near Lapwai in northern Idaho ¹⁵⁰ 1836 Financial panic plunges U.S. into economic depression lasting six years (May) ¹⁵¹ 1837 Poor Law Commissioners (UK) report over 3 million Irish are living exclusively on Lumper potatoes ¹⁵² 1838 John Deere begins manufacturing self-scouring, highly-polished steel plows ¹⁵⁴ 1839 Friedrich Gustav Jakob Henle suggests that disease is caused by microorganisms ¹⁵⁶ 1840 New York farmers produce 30,000,000 bu. of potatoes, more than half the U.S. production ¹⁵⁷ 1840 Guano is given experimental field trials as fertilizer in England and Germany ¹⁵⁹ 1840 New Census of Agriculture is conducted under the U.S. Dept. of Commerce ¹⁵⁸ 1840 Guano is given experimental field trials as fertilizer in England and Germany ¹⁵⁹ 1840 French fried' potatoes (pomme frites) appear in Paris, France and begin to achieve popularity ¹⁶¹ 1840 French fried' potatoes (pomme frites) appear in Paris, France and begin to achieve popularity ¹⁶¹ 1840 French fried' potatoes (pomme frites) appear in Paris, France and begi	Potato crops are increasingly affected by dry rot (<i>Fusarium</i>) ¹³⁷ Household iceboxes using harvested ice appear and gradually come into common usage ¹³⁸ Deep fried potatoes become increasingly popular in France and Belgium ¹³⁹	1830s 1830s 1830s
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'Potato rot' (late blight) affects potato crops near Utica, Sandlake and Darien, NY ¹⁷³	1844
James Teschemacher of Boston proposes that a fungus is responsible for 'potato rot' (late blight) (Oct) 174	1844
Edward Hitchcock, Amherst College, suggests 'potato rot' (late blight) is caused by atmospheric influences 175	1844
William King builds a mill for making starch from potatoes at Malone in Franklin County, NY ¹⁷⁶	1844
Hiram Pierce builds a mill for making starch from potatoes at Colton in St. Lawrence Co., NY ¹⁷⁷	1844
A shipload of seed potatoes from New York arrives at Ostende, Belgium, afflicted with mysterious rot 178	1844
J.C. Morrison imports 100 t. of Peruvian and African guano for sale to Essex Co., NY farmers (31 May) ¹⁷⁹	1845
T. of Colton, St. Law. Co., NY, in order of qty: potatoes, corn, turnips, wheat, barley, flax, peas, beans	¹⁸⁰ 1845
The word spud evolves from a digging tool to mean a potato tuber ¹⁸¹	c. 1845
Late blight appears in Belgium (Jun) ¹⁸²	1845
Late blight spreads to northwestern Europe and southern England (Aug) ¹⁸³	1845

A fatal malady has broken out amongst the potato crop. On all sides we hear of the destruction. In Belgium the fields are said to have been totally desolated.

John Lindley Gardener's Chronicle and Agricultural Gazette 23 August 1845

Late blight, <i>Phytophthora infestans</i> , destroys 40% of the potato crop in Ireland (Sep) ¹⁸⁴	1845
Late blight affects potato crops in Vermont, but not in New York 185	1845
NYS Agri. Soc. gives \$20 prize to Andrew Bush for paper on atmospheric influences and 'potato rot' 186	1845
'Potato rot' (late blight), <i>Phytophthora infestans</i> , destroys potato crop in Ireland ¹⁸⁷	1846
Dr. John Lindley, Prof. of Botany at Univ. College, London, suggests that weather causes late blight ¹⁸⁸	1846
The Reverend Dr. Miles J. Berkeley suggests that a fungus causes 'potato rot' (late blight) in potatoes 189	1846
Late blight affects potato crops near Utica, NY; The Rev. C.E. Goodrich records results in his garden ¹⁹⁰	1846
The Cultivator features potato washer used in England to wash potatoes and roots intended as fodder (Mar) ¹⁹¹	1846
William Watts modifies a double-mould plough for 'lifting' potatoes in Canada ¹⁹²	1846
Potatoes are planted in Aroostook County, Maine ¹⁹³	1846
'Potato rot' (late blight) appears in Oswego County and nearly destroys the crop 194	1847

We hear of the progress of the 'potato rot' (late blight) in Canada, new Jersey, Vermont, and western New York, in addition to portions of the country which have before been mentioned. The *Rochester American* states that the effluvia arising from so many fields is absolutely sickening.

Scientific American 6 Nov '47, 3(7): 46

Potato production in Seneca County is 100 bushels/acre, down 60% from 1845, due to late blight 195	1847
Two thirds of the potato crop in Yates County, NY is destroyed by late blight 196	1847
Late blight infects potatoes in Rockland, Otsego and northern Clinton Counties, NY ¹⁹⁷	1847

All varieties have suffered very much from the rot. About one third of all the potatoes raised have been lost, and there seems to be no general cause for the disease, nor any sure preventive, except very early planting in light, dry soils. Lime has been tried without success.

J.M. Dederer, President

Rockland County Agricultural Society

Transactions of the New-York State Agricultural Society for 1847 with an Abstract of the Proceedings of the

County Agricultural Societies, Vol. VII, C. Van Benthuysen, Albany, NY, 1848, p. 738.

No spectacular development took place in variety raising until after the crisis caused by the pandemic Blight (*Phytophthora infestans*) of 1845 and 1846. The failure of any of the existing varieties to exhibit the least resistance to this new and devastating disease gave both stimulus and directive force to a new era of plant-breeding.

Dr. Redcliffe Salaman

The History and Social Influence of the Potato Cambridge Univ. Press, 1989 (1st pub. 1949), p. 165

J.W. Bailey pub. late blight trials w/ Moore, 'Chenango' & White Kidney varieties, Clinton Co., NY ¹⁹⁸ 1847	7
D. Newcomb, Pittstown, NY, wins NYS Agr. Society premium growing 405 bu. potatoes on one acre 199 1847	7
The Rev. Goodrich runs late blight trials on Kidney, Early Pinkeye, Black, Merino & Mercer varieties ²⁰⁰ 1847	7
The Rev. C.E. Goodrich, Utica, NY, pub. observations that weather causes late blight in potatoes ²⁰¹ 1847	1
The Rev. C.E. Goodrich proposes reinvigorating potato hardiness with new varieties from S. America ²⁰² 1847	7
Miles Berkeley pubs. <i>Observations, Botanical and Physiological, on the Potato Murrain</i> ²⁰³ 1848	3
Late blight, <i>Phytophthora infestans</i> , destroys potato crop in Ireland ²⁰⁴	}
John Deere and partners move plow business to Moline, Illinois ²⁰⁵	3
The Rev. Goodrich plants potatoes from Bogota, Columbia, SA, but maturity is too late, they fail utterly ²⁰⁶ 1848	3
Luther Burbank is born ²⁰⁷)
Late blight severely affects potato crop in Maine affecting markets in Boston and NYC ²⁰⁸ 1849	9-51
A. Killam runs potato trials on English Red, Pinkeye, Dark Purple, Blue, Lady Finger varieties ²⁰⁹ 1849)
Charles E. Clarke wins Jefferson County premium for growing potatoes ²¹⁰ 1849)

Mr. Clarke has also exhibited fourteen other varieties of potatoes, raised from the seed this year; many of which are good sized, edible potatoes, weighing five ounces each. The size of these potatoes, is so uncommonly large, that we inquired of Mr. Clarke his mode of raising them.

"Report on seedling potatoes"

Transactions of the New-York State Agricultural Society for 1849 with an Abstract of the Proceedings of the

County Agricultural Societies, Vol. IX, Weed, Parsons & Co., Albany, NY, 1850, p. 505.

W. Newcomb runs potato trials on Long John, Fox-eye, Carter, English White varieties ²¹¹	1849
Severe drought causes 'falling off' of potato crop by two-thirds in Tioga and Oswego Counties ²¹²	1849
Late blight strikes potato crop in Seneca, Sullivan and Montgomery Counties., NY ²¹³	1849

This season the disease was very little perceived (except in low or wet places) until late digging, after a heavy fall of rain. They are rapidly rotting in the cellars, but those taken out (dug) early and before the rains, do not show hardly any rot, at least it is so in my neighborhood. We then have about one-third or one-half a crop.

James MacIntyre, President

Montgomery County Agricultural Society

Transactions of the New-York State Agricultural Society for 1849 with an Abstract of the Proceedings of the County Agricultural Societies, Vol. IX, NY, 1850, p. 518.

Essex Co. farmers ship potatoes to markets in Boston and New York City by railroad ²¹⁴	1849-52
Clinton Co. farmers ship \$500,000 of Peachblow potatoes to markets in Boston and NYC by railroad ²¹⁵	1849-52
Search for new potato varieties begins; extant varieties have lost vigor, are prone to 'rot' & lowering yields ²¹⁶	1850s
Commercial crop fertilization begins in U.S. with guano imported from islands near Peru ²¹⁷	1850s
Potato prices in Europe are 50 to 100% higher than earlier in the decade ²¹⁸	1850s
Irish immigrants working in salt industry near Syracuse, NY introduce 'salt potatoes' to central New York ²¹⁹	1850s
Rev. Goodrich plants potatoes from Bogota, Columbia, SA, but maturity is too late, they fail utterly again ²²⁰	1850
Essex county farmers harvest 307,549 bu. potatoes; North Elba is noted as fine potato country ²²¹	1850

For a long period after the potato was introduced into North America, little effort was made to improve it or to introduce new kinds. Thus, the period of 1719 to 1850 was characterized by no marked or lasting improvement in the crop. Improvement of potatoes near the end of this period became imperative because the available cultivars "ran out" to the extent that yields decreased to low levels and production was uneconomical. "Running out" was caused largely by high levels of tuber-transmitted virus diseases in existing stocks and lack of proper seed maintenance methods.

David Spooner

in *Commercial Potato Production in North America* 3rd ed. by W.H. Bohl and S.B. Johnson, 2010, p. 7

The Rev. Goodrich, Utica, NY imports eight varieties from Panama, all supposedly from Chile ²²²	1851
One of Goodrich's potatoes imported from Panama grows to maturity; he calls it Rough Purple Chili ²²³	1851
Col. Christopher A. Stone and Capt. Wm. A. Tupper erect a potato starch factory west of Brushton ²²⁴	1851
British patent awarded for scooping out seed potato eyes and dusting with charcoal for germ control ²²⁵	1851
Over 300 "baked 'tato men'" in London sell 10 tons of hot baked potatoes a day, some as hand warmers ²²⁶	1851
J. Hanson of Doagh County, Ireland invents a machine for digging potatoes out of 'drills' 227	1852
John Deere, Moline, Illinois, buys out his partners and continues plow business under various names ²²⁸	1852
Calvin Everest, Peru, NY, wins Clinton Co. premium for 567 bu. of Peachblow potatoes off one acre ²²⁹	1852
The Rev. C.E. Goodrich grows 4,210 potato plants, most from South America, nearly all of them failed ²³⁰	1852
H.H. Eastman, Oneida Co., NY, runs fertilizer trials on 'Irish Lunker' variety, 117 to 271 bu/a. 231	1852
Potato growers in Washington County, NY raise an enormous crop of potatoes ²³²	1852

A few of the most esteemed and cultivated potato varieties grown in Washington Co., NY, viz: Merino (syn. Long Red, Long John or Hog Potato), Mercer (syn. Meshanoch or Philadelphia), White Mercer, Carter, Fox-eye, Cowhorn, Lady-finger, Early June Kidney, Flour (syn. Bread Potato), French Pinkeye, Early Pinkeye, Peruvian Pinkeye, Leopard, White French Roan, Shepard Red, Black Warwick, Western Red (syn. Peach Blossom), English White.

Rev. Ephraim H. Newton,

Washington County Agricultural Society

Transactions of the N. Y. State Agricultural Society for 1852 with an Abstract of the Proceedings of the County Agricultural Societies, Vol. XII, 1853, pp. 614-616.

Messrs. Page, Thomas & Taylor erect starch factory at Keeseville, NY to use 30,000 bu./yr. potatoes ²³³	1852
The Rev. Goodrich is given 3 potato varieties from west coast of S. America by returning neighbor (Dec) ²³⁴	1852
Katie S. Wicks, G. Crum's sister-in-law, creates potato chip at Moon's Lake House, Saratoga Springs, NY ²³⁵	1853
Potato chips, known locally as Saratoga chips, increase in popularity and spread quickly from Saratoga ²³⁶	1853
The Rev. C.E. Goodrich 'releases' a new red-skinned variety Garnet Chili from Rough Purple Chili ²³⁷	1853
None of the three S. American varieties given The Rev. Goodrich in Dec '52 grew to maturity ²³⁸	1853
NYS legislature passes law chartering a New York State Agricultural College ²³⁹	1853
R.S. Webster and C.H. Dow erect a starch factory at Ellenburgh Corners, Clinton Co., NY ²⁴⁰	1853
H. Partridge exhibits 6 types of potato hook at the State Agricultural Society Annual Fair, Saratoga ²⁴¹	1853

They (Partridge's potato hooks) can not be surpassed, in excellence of material, beauty of workmanship, or convenience of form.

"Potato hooks."

Transactions of the N. Y. State Agricultural Society for 1853 with an Abstract of the Proceedings of the County Agricultural Societies, Vol. XIII, p. 102.

H.H. Eastman runs fertilizer trials on 'Irish Lunker', Mercer, English White and Carter varieties ²⁴²	1853
Messrs. Melick and Quick establish Trenton Agricultural Works at Trenton, NJ ²⁴³	1853

244	1070
V. Burgess, Chatham, Columbia Co., NY runs fertilizer trials using Mountain June variety ²⁴⁴	1853
N. Culver, Arcadia, Wayne Co., NY, runs fertilizer trials using Peachblow and Mercer varieties 245	1853
J.B. Morse, Cazenovia, NY, runs fertilizer trials with Dooryard, Mountain June varieties ²⁴⁶	1853
Maine recovers from several years of late blight and resumes shipments to Boston and NYC ²⁴⁷	1853
Essex/Clinton Co. farmers over-plant potatoes, demand in Boston/NYC disappears, prices plummet ²⁴⁸	1853
Late blight returns to Ontario Co., NY where potatoes, once lucrative, are precarious and unprofitable ²⁴⁹	1853
Solon Robinson pub. Guano: a treatise of practical information for farmers: containing plain directions ²⁵⁰	1853
NYS legislature appoints Asa Fitch, Salem, NY, entomologist of NYS Agric. Society to study insects ²⁵¹	1854
U.S. imports 50,000 tons of guano from South America (islands off Peru) as crop fertilizer ²⁵²	1856
J.C. Nesbit (London) pub. On Agricultural Chemistry, and the nature and properties of Peruvian Guano ²⁵³	1856
Arthur Briggs Farquhar joins Dingee & Co., York, PA ²⁵⁴	1856
A. Fitch pub. First and Second Report on the Noxious, Beneficial and Other Insects of the State of New York	²⁵⁵ 1856
A horse-drawn, rotary-cup, drop-type potato planter is patented in the U.S. 256	1857
End of Crimean War reduces demand for US farm products in Europe; prices plummet ²⁵⁷	1857
Failure of NY branch of Ohio Life Insurance and Trust Co. leads to US financial panic (24 Aug) ²⁵⁸	1857
Jean-François Millet paints the oil-on-canvas <i>The Angelus</i> ²⁵⁹	1857-59
Julius Kühn describes <i>Rhizoctonia solani</i> on potatoes in Germany ²⁶⁰	1858
Forty-eight years after the invention of the tin can, Ezra Warner invents the can opener ²⁶¹	1858
John L. Mason invents a glass jar with a screw-on top ²⁶²	1858
Colorado potato beetles destroy potato crops 100 miles west of Omaha, Nebraska ²⁶³	1859
Cheap cottonseed oil appears on the market ²⁶⁴	1860s
According to U.S. Census New York state is the largest potato producer in U.S. 265	1860
Potato crop throughout the Bermudas fails; warm weather is blamed (Apr) ²⁶⁶	1860
The bucket spray pump comes on the market ²⁶⁷	1860
George Crum leaves Moon's Lake House to start his own restaurant on Malta Ave, Saratoga Springs ²⁶⁸	1860
A Wisconsin farmer uses Paris green and flour to kill Colorado potato beetles ²⁶⁹	1860
Heinrich Anton deBary proves <i>Phytophthora infestans</i> causes late blight in potatoes ²⁷⁰	1861
Louis Pasteur disproves the theory of spontaneous generation of microorganisms ²⁷¹	1861
L. Augustus Aspinwall, Albany, NY, age 19, begins development of a single-row automatic potato planter ²⁷²	1861
G.W. and J.J. Kersey of Beartown, NJ patent a drill type potato planter ²⁷³	1861
John Rawdon of Freehold, NJ is awarded patent for an improved potato digger ²⁷⁴	1861

The perfect simplicity and efficiency of this implement seems to place it beyond the reach of improvement, unless some one can invent an attachment which will pick up the potatoes and deposit them in a basket.

"Improved potato-digger" Scientific American, 1 Sep 1860, 3(10): 152

Albert Bresee of Hubbardton, Vermont, originates Early Rose variety from seedling of Garnet Chili ²⁷⁵	1861
Albert Bresee originates Brown Beauty variety from seedling of Garnet Chili ²⁷⁶	1861
Albert Bresee develops Bresee's Prolific variety from a seedball of Garnet Chili ²⁷⁷	1861
Mercer (Neshannock) potatoes become favorite 'Irish potato' among both Union and Confederate soldiers ²⁷⁸	1861-65
Albert Bresee originates the Peerless variety from a seedling of Garnet Chili ²⁷⁹	1862
Albert Bresee originates King of the Earlies variety from a seedling of Garnet Chili ²⁸⁰	1862
W.B. Ryan, East Pembrooke, NY invents shaker for up-and-down percussive motion to dig potatoes ²⁸¹	1862
Pres. A. Lincoln establishes the U.S. Department of Agriculture (15 May) ²⁸²	1862
Pres. A. Lincoln signs the Morrill Land Grant College Act into law (2 Jul) ²⁸³	1862
Lewis A. Aspinwall is granted US Patent No. 36,634 for an automatic potato planter (14 Oct) ²⁸⁴	1862

Aspinwall's planter was the first to open the furrow, drop the seed pieces a set distance apart, then close the furrow, all in one operation.

> Sam Moore Farm Collector Magazine, Jul 2000

Karl Remigius Fresenius uses a potato slice as a solid medium for the culture of micro-organisms ²⁸⁵	1863
The Rev. C.E. Goodrich pub. "The potato—its diseases—with incidental remarks	1863
J. Lawton, S. Hibbert, and J. Rhodes of Manchester, Eng. patent potato washer with rotating brushes ²⁸⁷	1863
The Town of Hebron is the leading potato producer in Washington County, NY ²⁸⁸	1864
NYS Agricultural Society awards The Rev. C.E. Goodrich \$530 for his potato experiments (Feb) ²⁸⁹	1864
Cornell University is established (27 Apr) ²⁹⁰	1865
Federal appropriation for agricultural land grant college under Morrill Act goes to Cornell University ²⁹¹	1865
Gregory Mendel publishes his experiments in plant hybridization, the basis of genetics; it is ignored ²⁹²	1865
Louis Pasteur advances theory that germs are the cause of disease ²⁹³	1866
Joseph J. Hill, Xenia, OH, receives patent for potato harvester (15 May) ²⁹⁴	1866
USDA begins gathering potato production statistics ²⁹⁵	1866
Charles Valentine Riley names the Colorado potato beetle ²⁹⁶	1867
Paris green, an arsenical, comes into common usage against the Colorado potato beetle ²⁹⁷	1867
Proposals abound among northeast farmers and scientists of insect cause for the 'potato rot' (late blight) ²⁹⁸	1867
Cornell University opens with 30 students enrolled in agriculture ²⁹⁹	1868
W.T. Wylie, Bellefonte, PA, offers \$100 prize for best essay on cultivation of potatoes	1868
New York farmers produce 25,340,000 bu. potatoes on 269,574 acres for most in U.S. ³⁰¹	1868
Pennsylvania farmers produce 11,852,000 bu. potatoes on 134,681 acres ³⁰²	1868
Maine farmers produce 5,500,000 bu. potatoes on 42,307 acres ³⁰³	1868
John Deere is incorporated as Deere & Company ³⁰⁴	1868
Seedsman J.J.H. Gregory introduces Albert Bresee's King of the Earlies variety at a cost of \$50 per tuber ³⁰⁵	1869
L. Augustus Aspinwall, Albany, NY, receives US patent 97,339 for a potato planter (30 Nov) ³⁰⁶	1869
Bennington Gill et al. acquire and incorporate Trenton Agricultural Works from previous owners (9 Mar) ³⁰⁷	1869
R.L. Allen & Co. of NYC markets a plow-type potato lift with revolving times ³⁰⁸	1869

The potato hook, which is a kind of hoe with four to six strong steel prongs, is a more convenient implement for digging than the common hoe; and, whence the land is free from stones and other obstructions, the potato digger, in some of its recently improved forms, which leaves the potatoes behind it on the surface of the ground, or picks them up in a box, as may be preferred, is employed by many farmers with success, and found to be a great labor-saving machine.

"The Potato," in *Report of the Commissioner of Agriculture for the Year 1868*, Washington: GPO, 1869, p. 236.

Elias S. Brownell, Essex, VT, originates variety Beauty of Vermont from seedling of Early Rose ³⁰⁹	1870
E.S. Brownell originates variety Brownell's Beauty from seedling of Early Rose x White Peachblow ³¹⁰	1870
Early Rose variety becomes the best known potato cultivar in the English-speaking world ³¹¹	1870s
Cheap cast iron kitchen stoves appear on the market ³¹²	1870s
Mechanical potato peelers such as the 'Wonder Potato peeler' come on the market ³¹³	1870s
D.A. Compton writes essay "Potato Culture" for <i>American Agriculturist</i> contest; wins \$100 ³¹⁴	1870
U.S. potato production is 2.9 million metric tons; per-capita consumption is 63 kilos ³¹⁵	1870
Pres. U.S. Grant authorizes Secretary of War to est. a weather service in the Army Signal Service ³¹⁶	1870
L.A. Aspinwall's corn husking machine shucks the corn and leaves stalks in best shape for re-shocking ³¹⁷	1870
L.A. Aspinwall sells patent rights for his potato planter to eleven assignees for \$12,000 (15 Jan) ³¹⁸	1870

I, L. Augustus Aspinwall, do hereby set, sell, and convey over to said parties my entire right and title in said patent for the following territory, viz., the United States of America, without reserve, for the sum of twelve thousand dollars, the receipt of which is hereby acknowledged, *together with all improvements I may hereafter make*, without further cost.

Patent No. 97,339 in Matter of Aspinwall Mfg. Co. v. Gill and another, 18 Jul 1887, 32 Fed. Rep. 697-702.

After removal of 20 millions tons, guano from islands off Peru runs out ³¹⁹	c. 1870
Fertilizer trade shifts to Chilean desert where nitrate-rich deposits of caliche are shipped north ³²⁰	c. 1870
A horse-drawn, rotary-fork, drop-type potato planter is developed ³²¹	c. 1870
NYS Agri. Soc. decides to award no medals for potato digging machinery at its Utica field trials (12 Sep) ³²²	1870
Luther Burbank plants high yielding hybrid of Early Rose in garden, later called Burbank ³²³	1871
CPB causes immense damage to potato crop in Michigan and is "on the rampage" in Genesee County, NY 324	1871
Alfred Reece of Vermont originates Early Ohio variety from naturally fertilized seedball of Early Rose ³²⁵	1871
John McLaurin publishes <i>The Modern Potato</i> ³²⁶	1872
Colorado potato beetle reaches western New York potato fields; Paris green is used against them ³²⁷	1872
Ferdinand Cohn publishes a three volume treatise classifying bacteria into genera and species ³²⁸	1872
Financial panic begins plunging U.S. into economic depression of six years (17 Sept.)	1873
Cyrus G. Pringle, Charlotte, VT, breeds variety Snowflake by crossing Early Rose x Excelsior ³²⁹	1873
Capt. James H. Pierce & P.H. Shields build starch factory at Vermontville, T. of Franklin, NY; it lasts 3-4 ye	
Knapsack sprayers appear on the American market ³³¹	1874
Colorado potato beetle is found in Clinton County, NY ³³²	1874
Colorado potato beetle spreads to Atlantic coast ³³³	1874
International Potato Show is inaugurated at the Alexandra Palace, London ³³⁴	1874
E.L. Coy, Hebron, Wash. Co., NY, obtains Early Beauty of Hebron from a seedball of Garnet Chili ³³⁵	1874
L. Augustus Aspinwall patents 'an improved potato planter' in Great Britain (28 Oct) ³³⁶	1874
A severe frost destroys the potato crop at Ladbergen, Germany ³³⁷	1874
Whale oil, soap, and kerosene is advocated as insecticidal spray for numerous insect pests ³³⁸	1875
Albert Rand, Shelburne, VT, breeds variety Silver Skin, a seedling of Early Rose x White Peachblow ³³⁹	1875
Farmers begin growing potatoes in the San Luis valley of Colorado ³⁴⁰	c. 1875
Europe/Gr. Brit. enact regulations for import of American potatoes to stop Colorado potato beetle ³⁴¹	c. 1875
An Irish cobbler finds sport of Early Rose in his garden, Marblehead, MA; it is later called Irish Cobbler ³⁴²	c. 1876
Potatoes in isolated gardens of the English Midlands are infected with Wart Disease ³⁴³	1876
Sydney Ringer develops a solution to maintain healthy tissues in vitro ³⁴⁴	1876
Colorado potato beetle begins ravaging potato crops in Ticonderoga area of Essex County, NY (23 Jun) ³⁴⁵	1876
Late blight strikes potatoes at Daly City, CA; Garnet Chili variety proves impervious ³⁴⁶	1877
E.S. Carman buys <i>Moore's Rural New Yorker</i> and renames it <i>The Rural New Yorker</i>	1877
Colorado potato beetle is discovered in Germany, but is subsequently eradicated ³⁴⁷	1877
Prof. Lintner of NYS 'geological hall' is surprised to find CPB at 4400 feet elev. on Mount Marcy (Aug) ³⁴⁸	1877
CPB is "everywhere" in Clinton Co.: in house, in barn, along highway, even at church on Sabbath (Sep) ³⁴⁹	1877
"Millions of potato bugs have appeared on Staten Island, NY, and the farmers are disheartened" 350	1877
Disastrous potato crop in New York state yields record low production rate of 30 cwt./acre ³⁵¹	1877
Robert Koch develops staining techniques for identification of bacteria ³⁵²	1877
London purple (calcium arsenite) is introduced for control of Colorado potato beetle ³⁵³	1878
Orson H. Alexander, Charlotte, VT, develops Green Mountain variety from Dunmore x Excelsior ³⁵⁴	1878
B.K. Bliss develops the Triumph (Red Bliss) variety from Peerless x Early Rose ³⁵⁵	1878
USDA 'introduces' Washington Co., NY, E.L. Coy's variety, Beauty of Hebron, a seedling of Garnet Chili ³⁵	⁶ 1878
Millardet & Planchon notice powdery mildew (<i>Plasmopara viticola</i>) on grapes in France ³⁵⁷	1878
Alexander Speer & Sons, Pittsburgh, exhibits a lift-type potato plow at the Paris Exposition ³⁵⁸	1878
L. Augustus Aspinwall receives second UK patent for 'improvements to a potato planter' 159	1878
Ralph W. Emerson suggests that weeds are plants "whose virtues have not yet been discovered" 360	1878
Prof. George Caldwell organizes the agricultural experiment station at Cornell ³⁶¹	1879
J. Reinke and G. Berthold describe verticillium wilt (<i>Verticillium albo-atrum</i>) in potatoes in Germany ³⁶²	1879
Cornell University Agricultural Experiment Station is organized under the College of Agriculture ³⁶³	1879
International Potato Exhibition opens at Crystal Palace, Hyde Park, London (17 Sep) ³⁶⁴	1879
Beauty of Hebron begins to rival the Early Rose and Early Goodrich varieties in popularity ³⁶⁵	1879
Irvin and Elijah Saltsman of Avoca, NY, develop a spinner type potato digger ³⁶⁶	1880
I. A. Aspinwall receives US Patent No. 235 401 for his two UK patents of 1874 and 1878 (14 Dec.) ³⁶⁷	1880

The barrel spray pump appears on the American market ³⁶⁸	1880
Alva Mitchell of Maine breeds the Harmony Beauty variety ³⁶⁹	1880
Charles Valentine Riley is appointed first head of USDA Division of Entomology ³⁷⁰	1881
The red-skinned variety, Adirondack, syn. Satisfaction, is bred from Peachblow x Peachblow ³⁷¹	1881
Robert Koch uses potato slices to grow bacteria for research ³⁷²	1881
Julius Kuhn, Germany, observes cyst-forming nematode attacking potato roots, but notes it as a curiosity ³⁷³	1881
Julius Kuhn mis-identifies cyst-forming nematode as <i>Heteroda schachtii</i> ³⁷⁴	1881
East Yorkshire Wagon Co., Gr. Brit., develops mechanical potato sizer machine ³⁷⁵	1882
Aspinwall contracts with B. Gill & Son to make 100 potato planters and diggers for \$12,000 (1 Jan) ³⁷⁶	1882
Aspinwall oversees making of potato planters and diggers at B. Gill & Son, Trenton, NJ (Jan-Aug) ³⁷⁷	1882
After a 'difficulty', Aspinwall leaves B. Gill & Son works and forbids further manufacturing (Aug) ³⁷⁸	1882
B. Gill & Son continues making Aspinwall equipment as originally contracted ³⁷⁹	1882
Aspinwall's 1870 deed of assignment for Patent No. 97339 is recorded at US Patent Office (8 Nov) ³⁸⁰	1882
Four of the parties named in the above assignment transfer their rights to George Schanck (8 Nov) ³⁸¹	1882
George Schanck <i>et al.</i> assign all rights to Patent No. 97339 to B. Gill (13 Dec) ³⁸²	1882
T.B. McCormick of Indiana develops the McCormick potato variety ³⁸³	1882
NYS takes title for land on which the NYS Agricultural Experiment Station at Geneva, NY is built ³⁸⁴	1882
Spread of powdery mildew (<i>Plasmopara viticola</i>) is disastrous to French vineyards ³⁸⁵	1882
C.J. Cummings of Tully, NY, begins developing a potato digging machine ³⁸⁶	1883
L.A. Aspinwall receives US patent 276994 for improvements to his potato planter of 1880 (8 May) ³⁸⁷	1883
Tariff is placed on imported potatoes ³⁸⁸	1883
Joseph Durham of Hebron, NY, grows a Beauty of Hebron potato weighing 3 lbs. 12 oz. 389	1883
Pierre Millardet, France, discovers Bordeaux mixture as fungicide for <i>Plasmopara viticola</i> on grapes ³⁹⁰	1883
Severe drought impacts the Adirondack region ³⁹¹	1883
Orson H. Alexander of Charlotte, Vermont breeds the Dakota Red (Jersey Red Skin) variety ³⁹²	1883
C.W. Brega, Chicago industrialist, backs L.A. Aspinwall to build potato equipment factory in Michigan ³⁹³	1884
NYS Dairy Commission is organized ³⁹⁴	1884
Household refrigerators (ice boxes) are "as common as stoves or sewing machines", 395	1884

Mr. Samuel Cosgrove tells us that last spring he planted one fair-sized potato, of the variety called "Beauty of Hebron" (a very popular variety in Washington County (NY)), cut in two pieces and planted a few inches apart, and dug out of the one hill this fall 64 potatoes of which 58 were of good size for the table. We consider this a remarkable yield. "Local and miscellaneous,"

Post and Gazette (Elizabethtown, NY), 6 Nov 1884, p. 2.

NYS regulates fertilizer manufacture; NYS Agr. Experiment Station at Geneva oversees enforcement ³⁹⁶	1884
Railway speculation causes crisis in the financial markets of New York City ³⁹⁷	1884
L.A. Aspinwall opens a factory at Three Rivers, MI, to make potato planters; fifty are sold ³⁹⁸	1884-85
Pierre Millardet finds Bordeaux mixture (copper sulphate and lime) controls late blight on potatoes ³⁹⁹	1885
Green Mountain variety is released ⁴⁰⁰	1885
Vincent van Gogh paints <i>The Potato Eaters</i> , what some consider his first great work ⁴⁰¹	1885
Aspinwall sues assignees for patent infringement and to recover profits and damages (19 Sep) ⁴⁰²	1885
Isaac Hoover, Avery, OH, gets patent for a mechanical potato digger and starts making them for neighbors 403	1885
Noah Keeler invents the 'Boss' potato digger; Rawson & Thatcher, Corning, NY, manufacture it 404	1885

The 'Boss' lifted the potatoes with a blade and then dropped them on a horizontal-revolving fingered wheel. The potatoes were flung aside like the spinner on a highway sanding truck.

It was a walk-behind machine, which was one of its problems, because it could fling potatoes and stones ten or twelve feet in any direction. This would damage the potatoes, but also the operator. The first thing the farmer did when the new digger arrived, was to build a wooden shield which hung down from the handles and protected his legs from a barrage of potatoes and stones. If a stone became lodged between the blade and the reel 'things happened fast.' Potatoes

were not the only thing that were bruised. If the soil was dry, the digger created its own dust storm which enveloped the operator.

"The Le Roy Plow Company," *Farm Collector*, Jan/Feb 2000

http://gasengine.farmcollector.com/Farm-Life/The-Le-Roy-Plow-Company.aspx?page=3#ixzz1vz5aYzsU

405	
F. Lamson Scribner, USDA, introduces Bordeaux mixture to U.S. grape producers for insect control 405	1885
Clarence Birdseye is born in Brooklyn, NY ⁴⁰⁶	1886
Cornell professors organize a 3-day Farmers' Institute at Cornell University (Feb) ⁴⁰⁷	1886
Isaac Hoover sells 10 potato diggers & forms Hoover & Prout Co. to manufacture and promote his digger 408	1886
Anna Good establishes Original Good's Potato Chips, making and selling potato chips from her kitchen 409	1886
Tobacco-soapsuds mixture is advocated for aphid control ⁴¹⁰	1886
Cornell University conducts Farmers' Institutes inaugurating organized extension efforts ⁴¹¹	1886
John Watson Co. is established at Houlton, ME ⁴¹²	1886
Hermann Hellriegel discovers that bacteria fix atmospheric nitrogen on nodules of leguminous plants ⁴¹³	1886
Starch factory at Colton, NY, processes 800 bu. of potatoes daily into starch ⁴¹⁴	1887
NJ Dist. Court Judge dismisses Aspinwall's suit against B. Gill & Son (18 Jul) ⁴¹⁵	1887
Bordeaux mixture is used in U.S. for insect control ⁴¹⁶	1887
Orson H. Alexander of Charlotte, Vermont breeds the Charles Downing variety ⁴¹⁷	1887
Isaac Hodge, Nicholville, NY, swallows potato bug, then takes a dose of Paris green; doctor saves his life ⁴¹⁸	1887
US potato crop yields only two thirds of normal production; Gr. Britain and Germany begin exporting 419	1887
Hatch Act grants federal funds to establish agricultural experiment stations (2 Mar) ⁴²⁰	1888
Potatoes are the leading agricultural product of Washington, Saratoga & Rensselaer Counties, NY ⁴²¹	1888
US imports 8,259,538 bushels of potatoes ⁴²²	1888
Cheap potatoes from Gr. Brit. and Germany undercut domestic prices, farmers & dealers lose money ⁴²³	1888
College of Agriculture is organized at Cornell University ⁴²⁴	1888
Farmers' Institute meeting is held at Canton, NY (7-8 Feb) ⁴²⁵	1888
	c. 1888
Elbert S. Carman, publisher of <i>Rural New Yorker</i> , proposes agricultural experiment station on Long Island ⁴²⁷	1888
E.S. Carman, <i>Rural New Yorker</i> , offers Women's National Potato Contest, for potato growing 428	1888
Selinda E. Jones, Chautauqua Co., NY, wins contest with 53 bu., White Elephant variety from 1/20 acre ⁴²⁹	1888
	1889
Hoover Manufacturing, Avery, OH, offers a hand-powered potato sorter and sprouter ⁴³⁰ Elbert S. Carman challenges his readers to potato growing contest to raise 700 bu. per acre; he loses \$50 ⁴³¹	
	1889
Farmers' Institute meeting is held at Malone, NY (20 Mar) ⁴³²	1889
Entomological Society of America is founded ⁴³³	1889
Arthur B. Farquhar incorporates Pennsylvania Agricultural Works as A.B. Farquhar Co. Ltd. 434	1889
NYS potato growers average of 56 bushes per acre for this year's crop ⁴³⁵	1889
E.S. Carman offers challenge to grow 700 bu./a. of potatoes; there are no takers; he would have lost \$200 ⁴³⁶	1890
Baring crisis in Great Britain contracts U.S. and world financial markets (Aug) ⁴³⁷	1890
Pres. B. Harrison authorizes U.S. Weather Bureau within the USDA ⁴³⁸	1890
Roland Thaxter discovers the cause of common scab in potato ⁴³⁹	1890
Cooperative Weather Observer Program is established within the U.S. Weather Bureau ⁴⁴⁰	1890
The extent of 'potato rot' (late blight) in Washington County is "appalling"; many fields abandoned (Oct) ⁴⁴¹	1890
Aspinwall Mfgr. Co. contracts with Robert Johnson, Cadillac, MI, to sell potato planters (15 Nov) ⁴⁴²	1890
US imports 3,415,578 bu. of potatoes; 1,248,129 bu. from Canada, most of the rest from Scotland 443	1890
Powdery scab (Spongospora subterranea) is found in potatoes in South America 444	1891
Charles G. Rowley joins Aspinwall Manufacturing to work in the office ⁴⁴⁵	1891
Robert Johnson returns Aspinwall potato planter to factory, there being no sales in his area (30 Jul) ⁴⁴⁶	1891
Elbert S. Carman publishes <i>The New Potato Culture</i> 447	1891
The Mills bill to end tariff on imported potatoes is defeated ⁴⁴⁸	1891
The McKinley tariff bill is passed raising duty on potatoes from 15 cents/bu. to 25 cent/bu. 449	1891

Dmitri Ivanovsky isolates a virus, but believes it to be a bacterium ⁴⁵⁰	1892
U.S. imports 186,871 bu. of potatoes (fiscal year ending 30 Jun '92) 451	1892
Aspinwall Manufacturing Co. relocates from Three Rivers to Jackson, MI ⁴⁵²	1892
Charles G. Rowley becomes a shareholder in Aspinwall Manufacturing Co. 453	1892
Financial panic plunges U.S. into economic depression lasting more than four years ⁴⁵⁴	1893
Isaac Hoover exhibits his potato digger at the Chicago World's Fair (Columbian Exposition) ⁴⁵⁵	1893
Dusting machines are used for applying insecticides ⁴⁵⁶	1893
Aspinwall Mfgr. Co. wins suit against R. Johnson, Cadillac, MI, for non-payment for planter (17 Nov) ⁴⁵⁷	1893
Rachel Chapman, Hebron, NY, claims finding American Giant (White Rose) variety from Jackson seedball ⁴⁵⁸	1893
Foliar phase of early blight (<i>Alternaria solani</i>) is reported in potatoes ⁴⁵⁹	1893
NYS Dairy Commission is reorganized as the NYS Department of Agriculture ⁴⁶⁰	1893
	1893-94
US imports 4,317,021 bushels of potatoes following a poor domestic crop 462	1893
Vermont Station (agric. research) recommends spraying Bordeaux mixture to control early and late blight 463	1894
Steam powered spraying machine is invented ⁴⁶⁴	1894
Bureau of Applied Botany is founded at St. Petersburh, Russia ⁴⁶⁵	1894
Gasoline powered spray pump is invented ⁴⁶⁶	1894
The Division of Agricultural Soils is established in the USDA ⁴⁶⁷	1894
Davenport & Prince, Downer's Grove, IL, sells 'automatic potato cutter & planter machine' 468	1895
Oakfield Agricultural Works, Oakfield, NY, offers lift-type plow for digging potatoes ⁴⁶⁹	1895
U.S. Weather Bureau publishes daily weather maps ⁴⁷⁰	1895
Arsenite of copper is used as an insecticide ⁴⁷¹	1895
Wm. C. Tappenden builds potato chip factory in Cleveland when his kitchen gets too small ⁴⁷²	1895
Potato chips are shipped in barrels, displayed in glass cases, sold in paper bags ⁴⁷³	1895
New York potato crop is enormous; prices are unsatisfactory ⁴⁷⁴	1895
Iron sulphate is used to kill broad leaf weeds ⁴⁷⁵	1896
E. Roze pub. "Les deux premières variétés de la pomme de terre" on the Peruvian origin of the potato ⁴⁷⁶	1896

A valuable digest made of bulletins reported from 86 stations where experiments conducted with Irish potatos have been conducted, and published by *Home and Farm*, affords much information of general interest. Wisconsin, Michigan, Ohio, Indiana, Illinois, Kentucky and Missouri stations, after testing varieties for two to six years, find the most prolific to be Alexander's Prolific, Beauty of Hebron, Burbank, Charter Oak, Dakota Red, Pearl of Savoy and Rural New Yorker No. 2.

"The potato crop," *The Essex County Republican* (Keeseville and Port Henry, NY), 16 Apr 1896, p. 2.

Schibersky identifies the fungus <i>Synchytrium endobioticum</i> as cause of Potato Wart Disease in Hungary ⁴⁷⁷	1896
New York potato crop is enormous; prices are unsatisfactory ⁴⁷⁸	1896
Franklin Co. NY potato starch industry ceases to be profitable due to competition from corn starch ⁴⁷⁹	c. 1896
Deere & Co., Moline, IL, introduces a potato planter ⁴⁸⁰	1896
O. Knoerzer forms Champion Potato Machinery Co., Hammond, IN, to make potato diggers ⁴⁸¹	1897
Cornell Univ. runs potato trials with varieties Carman #3, Rural New Yorker #2 and Rose of Sharon 482	1897
E.S. Carman of New York obtains Sir Walter Raleigh variety from seedling of Rural New Yorker No. 2 ⁴⁸³	c. 1897
Cornell Univ. publishes "Bulletin No. 130: Potato culture" 484	1897
Late blight strikes New York potato crop; some localities lose 50 to 75% of crop; prices high ⁴⁸⁵	1897
Martinus Willem Beijerinck, Dutch soil microbiologist, discovers the tobacco mosaic virus (TMV) ⁴⁸⁶	1898
Hoover & Prout Co. receives gold medal for its potato digger at Trans-Mississippi & International Expo ⁴⁸⁷	1898
The potato crop in the Town of Brushton, Franklin Co, NY, is quite nearly a total failure (Oct) ⁴⁸⁸	1898
Cornell Univ. publishes "Bulletin No. 140: Second Report on Potato culture", 489	1899
New York state potato growers produce 38,000,000 bushels of potatoes on 396,000 acres ⁴⁹⁰	1899
The world's largest starch factory is located at Oswego, NY ⁴⁹¹	1899

Dowden Manufacturing Co., Parry City, IA, begins making open-chain potato diggers ⁴⁹²	1890s
Dowden Manufacturing Co., Farry City, IA, begins making open-chain potato diggers Dowden Manufacturing Co., begins selling manual potato cutters ⁴⁹³	1890s 1890s
Bacterial ring rot is identified as potato disease in Germany ⁴⁹⁴	late 1800s
Haplotype 1B of <i>P. infestans</i> (US-1) migrates across the world from North America ⁴⁹⁵	early 1900s
Northeast and the Midwest farmers produce 81% of the U.S. potato crop ⁴⁹⁶	1900s 1900
Pacific Northwest farmers produce 3.4% of the U.S. potato crop	1900
Dutch botanist, Hugo de Vries, and two others rediscover G. Mendel's genetic principles ⁴⁹⁸	1900
Aspinwall Manufacturing Co. begins marketing a commercial potato sorter 499	1900
Aspinwall Manufacturing Co. has the most complete line of potato machinery in the world 500	1900
Potato farmers in Maine produce 272,000 metric tons of potatoes ⁵⁰¹	1900
Colorado potato beetle is found at Tilbury, UK, but is exterminated 502	1901
Shigetane Ishiwatari isolates <i>Bacillus thuringiensis</i> (Bt) as cause of sotto disease in silkworms in Japan ⁵⁰³	1901
USDA Bureau of Plant Industry forms the Potato Investigations Lab ⁵⁰⁴	c. 1901
Potato Wart Disease is discovered in England ⁵⁰⁵	c. 1902
Dr. H.T. Güssow discovers Potato Wart Disease in Newfoundland ⁵⁰⁶	c. 1902
Cornell Univ. begins potato spraying experiments using lime and soda Bordeaux and Paris green ⁵⁰⁷	1902
Cornell Univ. begins 'Farmers' Business Experiments' with spraying under normal farm conditions 508	1903
Severe spring drought strikes the Adirondacks; sparks from trains start forest fires; 600,000 acres burn ⁵⁰⁹	1903
Champion Potato Mach. Co. offers a potato planter & two-horse, open-chain potato digger ⁵¹⁰	1903
The process for hydrogenation of fats (trans-fats) is patented ⁵¹¹	1903
British establish residue tolerance for arsenical insecticides ⁵¹²	1903
L.R. Jones, seeking resistance to Late Blight, imports 100 European varieties to U.S. as breeding material ⁵¹	³ 1904
Cornell College of Agriculture becomes NYS College of Agriculture ⁵¹⁴	1904
Late blight, <i>Phytophthora infestans</i> , causes 'enormous losses' in western, central NY and on Long Island ⁵¹	1904
New York potato farmers harvest record crop of 435,000 acres of potatoes ⁵¹⁶	1904
New York potato farmers average 88 bushes of potatoes per acre ⁵¹⁷	1900-04
Ashley Miller of Westport, Essex Co., raises four potatoes totaling 10 lbs.; the largest weighs 2 lb 14 oz. 518	1904
Silas Moore of Reber, Essex Co. raises single potato weighing 3 lb 5 oz. 519	1904
Hiram E. Lord, Clayton, MI, received patent for gasoline-powered potato digger (19 Jul) ⁵²⁰	1904
E.F. Smith and D.B. Swingle identify dry rot of potatoes due to Fusarium oxysporum ⁵²¹	1904
Auguste and Louis Lumière patent process using dyed potato starch grains for filtering light into colors 522	1904
Samuel Fraser publishes <i>The Potato: A Practical Treatise on the Potato.</i> ⁵²³	1905
Cornell potato trials at Geneva use Rural New Yorker #2 and at Riverhead use Green Mountain ⁵²⁴	1905
Farmers run Cornell potato trials under actual farm conditions as Farmers' Business Experiments ⁵²⁵	1905
*	

Varieties used in Farmers' Business Experiments include Rural New Yorker #2, Sir Walter Raleigh, Green Mountain, Carman #3, Carman #1, White Giant, World's Superior, Norcross, Sulphic Beauty, Enormous #9, Ironclad, World's Fair.

"Potato-spraying experiments in 1905," in Twenty-fifth Annual Report of the Board of Control of the New York Agr. Exp. Station at Geneva, NY for 1906

Late blight causes heavy losses in New York potato crop, mostly mid and late season varieties ⁵²⁶	1905
While probably extant earlier, leaf-roll disease comes to public notice in Wesphalia, Germany ⁵²⁷	1905
At donation party, John D. Rockefeller gives basket of new potatoes, each concealing a \$5 gold piece (Jul) ⁵²⁸	1905
Solanum tuberosum and S. demissum crosses bred in U.S. show resistance to late blight in Germany ⁵²⁹	1905
Roland Biffen shows that the ability of wheat to resist infection with a fungus is genetically inherited ⁵³⁰	1905
Bateman Mfg. Co., Grenloch, NJ, introduces two models of Iron Age potato diggers ⁵³¹	1906
Dr. R.N. Salaman notices resistance to late blight in <i>Solanum endinense</i> ⁵³²	1906
U.S. business shrinks under financial panic; need for central banking authority shown ⁵³³	1907
Louis Lumière markets autochrome process using microscopic grains of dyed potato starch on glass plates ⁵³⁴	1907
Buyers for NYC potato markets complain potatoes, esp. Maine, have a great amount of rot (Nov) ⁵³⁵	1907

Wart Disease causes large crop losses in Great Britain; Destruction of Insects and Pests Act is passed ⁵³⁶	1907
George C. Gough discovers that some potato varieties in the U.K. are immune to Wart Disease 537	1908
Robert Pugh forms Pugh Manufacturing Co. to make potato machinery ⁵³⁸	1908
Leominster Potato Chip Company is formed in Leominster, MA ⁵³⁹	1908
Deere & Co. sells a lift-type plow for harvesting potatoes ⁵⁴⁰	1908
Potato Wart Disease is discovered in Westphalia, Germany ⁵⁴¹	1908
Late blight is reported in cultivated potatoes in Mexico ⁵⁴²	1908
Laboratory of Plant Breeding is established at Cornell with 13 graduate students and \$600 ⁵⁴³	1908
The American Phytopathological Society is founded with 130 members ⁵⁴⁴	1908
Summer drought causes short potato crop in Franklin Co., NY; Aroostook Co., Maine takes up the slack ⁵⁴⁵	1908
Northern New York affected by two-month drought; precipitation 3.79 inches below normal (Nov-Dec) ⁵⁴⁶	1908
John Richard (J.R.) Simplot is born at Dubuque, IA (4 Jan) ⁵⁴⁷	1909
Potato census by USDA counts several thousand domestic varieties in eleven categories ⁵⁴⁸	1909
Dr. R.N. Salaman notices resistance to late blight in Scottish hybrid of <i>S. tuberosum</i> x <i>S. demissum</i> ⁵⁴⁹	1909
Charles G. Rowley becomes vice-president and manager of Aspinwall Manufacturing Co. (Aug) ⁵⁵⁰	1909
Potato acreage in Franklin and Clinton Counties, NY is 15,946 acres ⁵⁵¹	1909
New York potato farmers produce record harvest of 29,077,000 cwt. of potatoes on 394,000 acres ⁵⁵²	1909
New York potato farmers average 96 bushes of potatoes per acre ⁵⁵³	1905-09
U.S. potato production is 9.3 million metric tons; per-capita consumption is 90 kilos ⁵⁵⁴	1910
Growers in northern New York begin shipping potatoes to NYC by train ⁵⁵⁵	1910
USDA begins potato breeding program to seek resistance to late blight ⁵⁵⁶	1910
Daniel Mikesell starts D. W. Mike-sell & Co., later Mike-sells Potato Chip Co., in Dayton, OH ⁵⁵⁷	1910
A.J. Platt, Sterling, IL, introduces a horse-drawn, hand-drop potato planter ⁵⁵⁸	1910
Albert Prout leaves Hoover & Prout Co.; the company renames itself Hoover Mfg. Co. 559	1910
USDA's Federal Insecticide Act becomes effective 560	1910
USDA establishes the Insecticide and Fungicide Board ⁵⁶¹	1910
University of Idaho establishes agricultural research station at Aberdeen ⁵⁶²	1911
Drought impacts Adirondacks; forest fires burn 27,757 acres ⁵⁶³	1911
W.A. Orton (USDA) visits Europe where he learns to identify potato diseases that had been confused in U.S.	
Potato crop in northern New York and Canada is very light ⁵⁶⁵	1911
Ernst Berliner rediscovers (and names) bacterium <i>Bacillus thuringiensis</i> in Germany ⁵⁶⁶	1911
Ernest C. Gleason, Malone, NY averages 200 bu. per acre despite the dry weather 567	1911
New York State Vegetable Growers Association is founded by Paul A. Work of Cornell University ⁵⁶⁸	1911
New York Farm Bureau is formed 569	1911
R.N. Salaman develops a blight-resistant potato ⁵⁷⁰	1911
Farmers begin using formulations of <i>Bacillus thuringiensis</i> (Bt) as insecticide ⁵⁷¹	1911
G.H. Pethybridge describes pink rot (water rot) of potatoes in Ireland ⁵⁷²	1911
Clarence Birdseye observes Inuit in Labrador flash freezing fish in very cold air ⁵⁷³	1911
E.H. Grubb & W.S. Guilford pub. <i>The Potato: A Compendium of Information from Every Available Source</i> ⁵⁵	
Aspinwall Manufacturing Co. introduces a two-row potato planter ⁵⁷⁵	c. 1912
Aspinwan Manufacturing Co. mitroduces a two-tow potato planter	0. 1712

By using this machine there is a saving of time and labor, one man and team doing double the work of the single row. The two rows are absolutely equal in distance apart, which is of great advantage when using a two-row cultivator, as it permits of very close cultivation. The draft of the machine is but slightly more than the single row. The large wheels and narrow furrow openers reduce the draft and compensate for the increased size of the machine. Center draft. The hopper capacity enables planting one half mile without refilling. Distance of planting between the rows is adjustable to suit requirements. The furrow openers are very narrow, which insures planting in straight lines. The disk coverers are set inside of the furrowers and close the earth into the individual furrows with a single disk.

Eugene H. Grubb and W.S. Guilford *The Potato*, 1912, pp. 124-125.

Stearns Mfg. & Foundry Co., Decatur, IL, offers side-delivery, lift-plow potato digger⁵⁷⁶

1912

USDA Plant Quarantine Act is passed; Federal Horticultural Board is established to enforce it 577	1912
USDA Potato Wart quarantine stops imports from UK, Germany, Austria-Hungary, Newfoundland 578	1912
Silver scurf disease on potatoes caused by the fungus <i>Helminthosporium solani</i> is reported in the U.S. 579	1912
Potato tuber moth is identified in Washington state ⁵⁸⁰	1912
Adhesives are used as 'stickers' in pesticide sprays ⁵⁸¹	1912
Department of Vegetable Gardening is established under Paul Work at Cornell University ⁵⁸²	1913
William Allen Orton initiates study of viruses affecting potatoes in the U.S. ⁵⁸³	1913
W.A. Orton (USDA) classifies three types of 'degeneration' in potato: Leaf Roll ('Curl'), Mosaic, and Streak ⁵⁸	³⁴ 1913
W.A. Orton (USDA) proposes a U.S. system of seed potato certification similar to the German system ⁵⁸⁵	1913
Univ. Wisconsin Department of Plant Pathology establishes potato seed certification program ⁵⁸⁶	1913
Cornell Univ. and NYS Dept. of Farms and Markets begin voluntary seed potato certification program ⁵⁸⁷	1913
Over three-fourths of inspected fields in Franklin County are rejected for certification due to mosaic ⁵⁸⁸	1913
Hoover Mfg. Co., Avery, OH, begins mounting gasoline engines on potato diggers to reduce load on horse 589	1913
Morse and Shapovalo report the discovery of Rhizoctonia disease of potato (black scurf) in Maine 590	1913
Powdery scab (Spongospora subterranean) is found in potatoes of eastern Canada and Maine ⁵⁹¹	1913
PCN thought to be <i>Heteroda schachtii</i> (sugarbeet cyst nematode) is found in Scotland ⁵⁹²	1913
PCN, a potato cyst nematode, is properly identified in Germany as <i>Heterodera rostochiensis</i> ⁵⁹³	1913
Masse and Zimmerman properly identify H. Rostochiensis as the potato cyst nematode (PCN) ⁵⁹⁴	1913
Intense summer drought strikes Adirondacks; forest fires burn 50,389 acres ⁵⁹⁵	1913
Potato Association of America is formed to collect and disseminate technical potato information ⁵⁹⁶	1913
Inspections of potatoes imported from Canada, Netherlands and Belgium are found to have powdery scab ⁵⁹⁷	1913
USDA quarantine stops potato imports from Canada and all countries of Europe due to powdery scab ⁵⁹⁸	1913
Mercer Co. Potato Growers' Assoc. (NJ) reps visit Franklin Co., NY to investigate quality of seed potatoes ⁵⁹⁹	1913
Survey of 1290 New York state potato growers reveals 76 varieties of potatoes being grown ⁶⁰⁰	1913-14
New York potato farmers average 108 bushes of potatoes per acre ⁶⁰¹	1910-14
Colorado potato beetle infestation is found in U.S. army encampment at Bordeaux, France ⁶⁰²	1914-18
Lou D. Sweet, a Colorado grower, selects a russeted mutation of Burbank and calls it Russet Burbank ⁶⁰³	1914
C.B. Tilson of Clinton County suggests formation of a seed potato growers' association 604	1914
Dr. W.A. McCubbin launches Seed Potato Certification Scheme for Canada in Ontario ⁶⁰⁵	1914
PAA adopts constitution and bylaws at first annual meeting at Cornell University (10-11 Feb) ⁶⁰⁶	1914
PAA est. "Varietal Nomenclature and Testing" committee to resolve the synonymity problem (10-11 Feb) ⁶⁰⁷	1914
W.A. Orton brings German potato expert, Dr. Otto Appel, to U.S. to survey potato growing states, esp. NYS ⁶⁰⁸	1914
Dr. Appel notes Green Mountains in northern NY exhibited mosaic while Rural types in western NY do not 609	1914
Dr. O. Appel suggests NYS adopt German system of potato inspection and certification for disease control	1914
Smith-Lever Act (fed.) est. Cooperative Extension Service, a partnership of land-grant colleges & USDA ⁶¹¹	1914
John Hinerwadel, Sr. founds Hinerwadel's Grove at N. Syracuse for clambakes and salt potatoes ⁶¹²	1914
Hoover Mfg. Co., Avery, OH, produces 5,000 potato diggers per year, shipped world-wide ⁶¹³	1914
C.L. Fitch of Iowa State College tests and organizes important potato varieties into seven groups ⁶¹⁴	1914
The spray gun is developed for applying pesticides ⁶¹⁵	1914
Colorado potato beetle is found at Stade on the Elbe, Germany, but is exterminated ⁶¹⁶	1914

The history of potato pathology is a story of the gradual recognition and differentiation of previously confused diseases and the introduction of control measures that brought with them more progressive cultural practices.

W.A. Orton

"Potato wilt, leaf-roll, and related diseases," U.S. Department of Agriculture Bulletin No. 64

USDA enacts a quarantine of Maine potatoes to control powdery scab (1 Aug) ⁶¹⁷	1914
Franklin Co. growers are notified that powdery scab has been found near Franklin/Clinton border (28 Oct) ⁶¹⁸	1914
Inspectors from Maine organize powdery scab inspection forces in Franklin and Clinton Counties (16 Nov) ⁶¹⁹	1914
Franklin & Clinton Co. potatoes are quarantined; all shipments require inspection and certification (Nov) ⁶²⁰	1914
Annual potato production in Michigan, Wisconsin & Minnesota matches New York's 33,000,000 bu. 621	1914

New York potato farmers average 95 bushes of potatoes per acre ⁶²²	1915-19
California red scale develops immunity to insecticide ⁶²³	1915
New York State Potato Association is formed for potato certification ⁶²⁴	1915
Franklin County growers exhibit potatoes at the NYS Potato Growers' Association, Ithaca (Feb) ⁶²⁵	1915

.... it is safe to say that it was the best exhibit of potatoes ever shown at Ithaca. This is a fine compliment of our county (Franklin), which is no doubt the best potato producing county in the state.

Mr. Ross, Farm Bureau Agent Franklin County *The Malone Farmer*, 24 Feb 1915

NYS issues new regulations dealing with powdery scab quarantine in Franklin and Clinton Cos. (16 Apr)⁶²⁶ 1915

Following the action of the United States government, the State of New York has decided to dispense with the certification of potatoes bearing the statement that they are free from powdery scab or have not been in contact with anything infected with or contaminated by this disease. Henceforth all potatoes go as tablestock, and any qualified statements as to the condition of them must be made by the shipper, for which statements the state will be in no way responsible.

The Malone Farmer 7 April 1915

Every large grower of potatoes requires a horse-planter. From six to eight acres will warrant the use of such a machine, and it may be made to pay for itself itself in a short time by hiring it out—preferably with a man to work it. Some planters require one man, others two men, to work them; the latter generally do the best work, although good work is done by the former.

Samuel Fraser *The Potato: A Practical Treatise...*, 1915 ed., p. 101

Hoover Mfgr. Co. introduces a 1-row automatic potato planter ⁶²⁷	1915
NYS Agricultural Experiment Station begins studies of the 'running-out' of potatoes on Long Island ⁶²⁸	1915
M.F. Burrus, NYS College of Agriculture, begins inspecting a number of potato fields 'for practice' 629	1915
Powdery scab quarantine in Clinton/Franklin Counties is raised for intra-state shipments (30 Jul) ⁶³⁰	1915
John Snell proposes that Wart Disease can be controlled only if variety name confusion is sorted out ⁶³¹	1915
Early potatoes are shipped in 3-bu. barrels covered with canvas or in 1-bu. boxes ⁶³²	1915
Late potatoes are shipped in 2-bu. burlap sacks or in flour barrels ⁶³³	1915
Seed potatoes are frequently shipped in double-headed barrels of 165 lbs capacity ⁶³⁴	1915
Franklin County (NY) Seed Potato Growers' Assoc. is formed with Wm. J. Wheeler as president (4 Sep) ⁶³⁵	1915
E.G.S. Gagnier <i>et al.</i> form Churubusco Seed Potato Growers' Association in Clinton Co. (Oct) ⁶³⁶	1915
William Stuart of USDA tests and organizes important potato varieties into eleven groups ⁶³⁷	1915
Wm. Stuart pub. "Group Classification and Varietal Descriptions of Some American Potatoes" 638	1915
Excessive rains in July and August cause NYS crop shortages, especially hay and potatoes ⁶³⁹	1915
Franklin, Clinton and Erie Counties are only sections of NYS not severely affected by late blight (Nov) ⁶⁴⁰	1915
Quarantine of Maine potatoes is discontinued ⁶⁴¹	1915
New York State Potato Association begins to encourage grading of potatoes to quality standards ⁶⁴²	1916

Grading potatoes in New York has had little impetus until recently and very few are put on the market as graded stock. It is highly probable that more income could be realized from the crop if only standard tubers. . . were put on the market and the remainder fed at home. . . . This would provide for the elimination of a large amount of diseased and mechanically injured tubers, which now find their way onto most markets, and would result in a more uniform product.

E.V. Hardenburg, "Potato Growing in New York," 1916

Growers in Town of Waverly (Franklin Co., NY) are awarded two prizes at the Cornell potato show of	1916
C. Wills & W. Silver, Franklin Co., take top prizes for Carmen & National varieties at state potato show, Ithaca	a ⁶⁴⁴ 1916
Piggly Wiggly stores open, Memphis, TN, ushering in modern supermarket chain concept ⁶⁴⁵	1916
George Hyslop initiates seed potato certification program in Oregon ⁶⁴⁶	1916
Clarence Birdseye begins experiments with freezing of foods ⁶⁴⁷	1916
About half of the 350,000 acres of potatoes in New York state are planted by machine ⁶⁴⁸	1916
M.J. Burrus arranges with E.V. Hardenburg, NYS College of Agriculture, to conduct seed potato inspections ⁶⁴⁵	1916
New York State Potato Association begins certification program for New York seed potatoes ⁶⁵⁰	1916
Of 35 NY seed growers with 342 acres of potatoes, 156 acres belonging to 29 growers pass NYS certification 65	1916
Royal Horticultural Society (UK) begins testing extant potato varieties for synonymity ⁶⁵²	1916
U.S. railroad network peaks at 254,000 miles ⁶⁵³	1916
Prof. R.J. Haskell, NYS College of Agriculture, completes 1 st field inspections for FCSPGA members (Aug) ⁶⁵⁴	1916
Atlantic coast potato exchanges' representatives visit Franklin Co. seed growers to inspect offerings (Sep) 655	1916
Lou D. Sweet of Colorado is elected president of the Potato Association of America ⁶⁵⁶	1916
Northern NY potato crop is very short; prices during harvest are already very high: \$0.90 per bu. (Sep) ⁶⁵⁷	1916
Seventy-five per cent of the varieties grown in New York are of either Green Mountain or Rural families 658	1916
Green Mountain variety is grown almost exclusively on Long Island and Franklin and Clinton Counties ⁶⁵⁹	1916
Western and southern New York growers predominately use the Rural family of potatoes ⁶⁶⁰	1916

The frequent appearance of new names for old varieties is as much the fault of the grower as it is of the seedsman. There is a strong demand for new things. The seedsman attempts to meet this, but most of our seedsmen are professedly not originators of new varieties, and the supply of strictly new varieties must, of necessity, be very limited, hence the demand is met by changing the name of some old variety and giving extensive advertising under its new name. The gullible grower accepts the dose, pays the price for the supposedly new article and is satisfied until he learns that it is nothing new and then he turns around and repeats the process again.

Arthur W. Gilbert, *The Potato*, 1917, p. 24.

Potatoes have been classified into eleven groups, or families, as based mainly on color of sprouts, color of blossoms, shape, size, depth and frequency of eyes, and texture of skin. These groups are Cobbler, Triumph, Early Michigan, Rose, Early Ohio, Hebron, Burbank, Green Mountain, Rural, Pearl and Peachblow. It is generally impossible to distinguish definitely between varieties within the same group, but growers should as far as possible be able to identify one group from another. This would eliminate a large amount of the present mixture of varieties.

One of the most important steps toward bettering the potato industry is the elimination of many of the existing so-called named varieties and the standardization of a few worthy sorts.

E.V. Hardenburg "Potato Growing in New York," Cornell Reading Courses, Vol. V, No. 112, NYS College of Agriculture at Cornell University, Ithaca, NY, 1916

Late blight strikes potato crop in Germany; 700,000 citizens starve to death during winter ⁶⁶¹	1916-17
Dutch potato riots erupt in Amsterdam when potatoes are to be exported despite that they are rationed 662	1917
NYS Potato Association begins using Wm. Stuart's varietal classification groups for seed certification 663	1917
Large number of synonyms make it difficult to certify seed potatoes under NYS Potato Association plan ⁶⁶⁴	1917
Of 78 NY seed growers with 428 acres of potatoes, 337 acres pass NYS certification ⁶⁶⁵	1917
FCSPGA farmers grow 129.5 a. of certified seed potatoes, over half of NYS's; 119.5 a. are Green Mountains ⁶⁰	⁶⁶ 1917
USDA issues U.S. grade standards for potatoes ⁶⁶⁷	1917
NYS Department of Agriculture is reorganized as Department of Farms and Markets ⁶⁶⁸	1917
Hoover Mfgr. Co. introduces a two-row potato planter ⁶⁶⁹	1917
Associated Manufacturers of Waterloo, IA, introduce a gasoline powered potato sorter ⁶⁷⁰	1917
Lou D. Sweet of Colorado is re-elected president of the Potato Association of America (9-10 Nov) ⁶⁷¹	1917
PAA urges steps to identify and reliably name all potato varieties for certified seed potato stocks (9-10 Nov) ⁶⁷²	² 1917

In the United States the average yield of potatoes from one plant is about one-half pound. Some plants of Early Ohio have been known to yield thirteen tubers weighing 2½ pounds, and others of the same variety to produce three tubers weighing ½ an ounce. The former yield is 80 times the latter. Some English experiments have produced twenty pounds of tubers to a plant, as many as 150 tubers being set on one plant.

Arthur W. Gilbert, *The Potato*, 1917, p. 13.

A horse-drawn insecticide duster is developed ⁶⁷⁴	1918
Deere & Co. purchases Waterloo Gasoline Traction Engine Company ⁶⁷⁵	1918
Demands of WWI force farmers to begin mechanizing their operations 676	1918
Kelvinator produces a practical home refrigerator ⁶⁷⁷	1918
Lou D. Sweet of Colorado is re-elected president of the Potato Association of America ⁶⁷⁸	1918
Idaho Candy Company begins manufacturing its Idaho Spud Bar ⁶⁷⁹	1918
An airplane is used to spread insecticidal dusts ⁶⁸⁰	1918
Despite federal quarantine Potato Wart is found in isolated valleys of Pennsylvannia ⁶⁸¹	1918
Cornell U. plant breeders use 'cooperator' farms to test new varieties in various environmental settings ⁶⁸²	1918
More than half of the certified seed potatoes grown in NYS come from Franklin County growers ⁶⁸³	1918
Of 111 acres of seed potatoes certified in Franklin County, 101 acres are Green Mountains ⁶⁸⁴	1918
Franklin County potato production is well below average due to frost damage ⁶⁸⁵	1918
Wm. J. Wheeler of FCSPGA promotes high quality seed potatoes to New Jersey potato growers (Jan) ⁶⁸⁶	1919
Nat. Inst. of Agric. Botany (UK) creates Potato Synonym Committee to sort and test potato varieties ⁶⁸⁷	1919
A full 75% of all varieties submitted to the Potato Synonym Committee (UK) for testing were synonyms ⁶⁸⁸	1919
Ernest C. Gleason of Malone, NY, is known as "King of Potato Growers" with 50 acres 689	1919
Ernest C. Gleason boards St. Regis Mohawk workers from Akwesasne Reservation for potato harvest ⁶⁹⁰	1919
Thirty members re-elect Wm. J. Wheeler president of Franklin County Seed Potato Growers' Association ⁶⁹¹	1919
Franklin County Seed Potato Growers' Association focuses on eradication of mosaic in Green Mountains ⁶⁹²	1919
Emerson-Brantingham Co., Rockford, IL, sells a potato planter with fertilizer attachment ⁶⁹³	1919
Emerson-Brantingham Co. offers a gasoline powered potato digger ⁶⁹⁴	1919
Aspinwall Manufacturing Co. introduces a gasoline-powered potato digger ⁶⁹⁵	1919
Bordeaux mixture is used to control the potato leafhopper ⁶⁹⁶	1919
NYS farmers supply 33% of all potatoes sold in NYC where potatoes from Idaho are practically unknown ⁶⁹⁷	1919
Potato acreage in Franklin and Clinton Counties, NY is 15,225 acres ⁶⁹⁸	1919
Frank Hobart builds 10,000 bu. underground potato storage at Gabriels, NY ⁶⁹⁹	1920-21
Eban D. Dahlman begins making potato pickers, diggers and baggers at his farm, Grandy, MN ⁷⁰⁰ 1920s	early
Colorado potato beetle spreads across France, Belgium, and Germany ⁷⁰¹	1920s
Potato Synonym Committee (UK) identifies over 200 aliases for the Up-to-Date variety ⁷⁰²	1920s
Potato Synonym Committee identifies 70 aliases each for Abundance and British Queen varieties 703	1920s
International Harvester Co., Chicago, IL, enters the potato machinery business ⁷⁰⁴	1920s
Potato chips are hand-produced in batches from rectangular kettles at 40 to 120 lb/hr ⁷⁰⁵	1920s
Grandma Edna and Edward Snyder II begin hand-kettle cooking of Snyder's Potato Chips at Hanover, PA ⁷⁰⁶	
New York potato farmers average 119 bushes of potatoes per acre ⁷⁰⁷	1920-24
L.A. Aspinwall receives US Patent 1,341,454 for a potato digger (25 May) ⁷⁰⁸	1920
L. Augustus Aspinwall receives US Patent 1,341,454 for a potato digger with dirt shakers (25 May) ⁷⁰⁹	1920
Aspinwall Mfgr. Co. merges with Drew Carrier Co., Waterloo, Iowa to form Aspinwall-Drew Company ⁷¹⁰	1920
Quanjer and Botjes, Netherlands, show Leaf Roll is infectious and spread by the green-fly, or aphis 711	1920
Aspinwall Mfgr. Co. merges with Drew Carrier Co., Waterloo, Iowa to form Aspinwall-Drew Company ⁷¹²	1920
Dr. Redcliffe N. Salaman is appointed chairman of NIAB's Potato Synonym Committee ⁷¹³	1920
Post war inflation leads to year-long financial crisis in U.S. and Br. Britain ⁷¹⁴	1920
USDA begins regional testing of its new varieties and seedlings and of the best strains of certified seed ⁷¹⁵	1920

Cornell's Farmers' Institute holds three-day potato school at Gabriels, NY (Franklin County) (Oct)⁷¹⁶ 1920 FCSPGA finds it impossible to set price of certified seed potatoes above ridiculous low price of 65¢ per bu. 717 1920

It seems as though something were wrong when the price of a commodity cannot be set from the cost of its production. From this, one would infer that a farmer should know what his potatoes cost and should be able to fix a price based o these figures. This is probably true. But there many farmers who do not keep accounts and do not know what their time is wroth and consequently do not know what their products are worth.

After two potato shipments are sold at 65¢ per bu "Marketing potatoes," *The Franklin County Farm Bureau News*, Oct 1920

NYS Potato Growers' Assoc. proposes separate organization for marketing certified seed potatoes (Dec)⁷¹⁸ 1920 K. Smith, Cambridge Univ., shows that mosaic is due to Virus X and spread by contact of leaves⁷¹ c. 1920-24 K. Smith, Cambridge Univ., shows some types of streak are due to Virus Y and spread by aphis⁷²⁰ c. 1920-24 Murphy and McKay of Dublin show that the aphis carries the Virus A, responsible for Leaf Roll⁷²¹ c. 1920-24 Murphy and McKay of Dublin show Virus A in combination with X is responsible for 'Crinkle', 722 c. 1920-24 Aspinwall Manufacturing Co. (Aspinwall-Drew Company) goes out of business⁷²³ c. 1921 McKenzie Manufacturing Co., LaCrosse, Wis., buys Aspinwall's potato machinery line 724 c. 1921 A New York Potato Exchange is proposed to standardize tablestock potato grades and shipments⁷²⁵ 1921 New York State demonstrates the United States standard grades for potatoes and begins educating growers 726 1921 Earl Wise, Sr. of the Wise Delicatessen Company founds Wise Potato Chips, Berwick, PA⁷²⁷ 1921 NYS Agricultural Experiment Station continues studies of the 'running-out' of potatoes on Long Island⁷²⁸ 1921 Dr. E.V. Hardenburg, Cornell University, is elected president of Potato Association of America⁷²⁹ 1921 Empire State Potato Growers Cooperative Association, Inc. is formed for sales & marketing of NYS potatoes 730 1921 New York State Potato Association is reorganized as New York Cooperative Seed Potato Association, Inc. 731

This association, in addition to certifying the seed was to act as an advertising and marketing agency and hire a manager. Since some of the certifying growers had their own sales organization, they objected to being forced to subsidize their competitors and asked to be allowed to certify their own potatoes on the basis of college inspections. During 1921 there were two certifying agencies and in 1922, ten, all receiving inspection service from the College. One additional organization obtained inspection from Syracuse University and certified their own seed. This multiplication of agencies was recognized as undesirable. . . .

K.H. Fernow

"Seed potato inspection and certification in New York," *Am. Potato Journal*, Dec. 1955, 32(12): 469.

NYS seed growers offer 1,270 acres for certification, 766 acres pass with a yield of 190,000 bu. 732	1921
Bill and Salie Utz found Utz Quality Foods, Hanover, PA to sell Hanover Home Brand Potato Chips ⁷³³	1921
Philo T. Farnsworth, while harrowing a potato field, gets idea for electronic, rastor image for television ⁷³⁴	1921
Magic City Food Co. (later Golden Flake Snack Foods) opens in Birmingham, AL ⁷³⁵	1921
Acreage of potatoes in U.S. peaks at 3.9 million acres harvested ⁷³⁶	1922
Capper-Volstead Act enables farmers to collectively produce, handle, process, and market their products ⁷³⁷	1922
New York Seed Improvement Cooperative Association, Inc. is est. to certify all NY potatoes & other crops 738	1922

This agency would take over all certification for potatoes as well as for other crop seeds but would do no selling or advertising beyond publishing lists of certified seed fields. After 1922 the College (NYS College of Agriculture) gave no inspection service except to members of that association.

K.H. Fernow

"Seed potato inspection and certification in New York," *Am. Potato Journal*, Dec. 1955, 32(12): 469.

Franklin County Seed Potato Growers' Association is incorporated; L.L. Foote is elected president (Jun)⁷³⁹ 1922

Northern NY Independent Seed Potato Growers' Assoc. is formed; E.G.S. Gagnier is elected president ⁷⁴⁰	1922
E.G.S. Gagnier, Churubusco, NY, ships 8,000 bu. of seed potatoes to a Long Island dealer (Oct) ⁷⁴¹	1922
Flooding in northern Franklin County and southern Quebec destroys many crops; potatoes turn black (Jun-Jul)	⁷⁴² 1922
Long Island Vegetable Research Farm is established at Riverhead ⁷⁴³	1922
Martin reports potato spindle tuber disease to NJ Potato Growers Association ⁷⁴⁴	1922
NYS Agricultural Experiment Station at Geneva is placed under the administration of Cornell Univ. 745	1923
J.R. 'Jack' Simplot quits school and goes into business (raising hogs) at Declo, ID ⁷⁴⁶	. 1923
Maine, New York and New Jersey potato growers propose federation to control eastern U.S. potato market ⁷⁴⁷	1923
Franklin County growers are anxious to control Rhizoctonia and 'scab' losses after two years of low prices ⁷⁴⁸	1923
Potato Association of America begins monthly publication: <i>The Potato News Bulletin</i> ⁷⁴⁹	1923
Intense summer drought impacts the Adirondacks ⁷⁵⁰	1923
USDA breeders select potato seedling number 42667 (later to become Katahdin) for further study ⁷⁵¹	1923
William Stuart publishes The Potato: Its Culture, Uses, History and Classification 752	1923

The leading commercial varieties of potatoes are rather few in number compared with the long list of varieties or varietal names catalogued by the seedsmen of this country. The following list is believed to include all the varieties of strictly commercial importance.

Early varieties: Irish Cobbler, Triumph Early Ohio, Spaulding No. 4. Medium or late maturing varieties: Burbank, Russet Burbank, Russet Rural, Green Mountain, Peerless (syn. Pearl), McCormick, Perfect Peachblow (syn. Red McClure), Prolific (syn. Brown Beauty), Wisconsin Pride (syn. American Giant), Charles Downing (syn. Idaho Rural).

William Stuart, Senior Horticulturist, USDA

The Potato: Its Culture, Uses, History and Classification, 1923, p. 46.

Northern NY Independent Seed Potato Growers' Assoc. vote not to dissolve and unite w/ state assoc. (Mar) ⁷⁵³	1924
Clarence Birdseye founds Birdseye Seafoods, Inc. to produce 'flash-frozen' fish ⁷⁵⁴	1924
American Seeding Machine Co. of Springfield, OH, markets a horse-drawn potato planter ⁷⁵⁵	1924
McCormick-Deering introduces its Model No. 3 one-row, one-horse potato planter ⁷⁵⁶	1924
NYS farmers supply 29% of all potatoes sold in NYC; 18% are from Long Island farms ⁷⁵⁷	1924
Nearly all New York State potatoes are drawn by horse team to local carlot dealers and shipped by railroad ⁷⁵⁸	1924
	c. 1924
Y. Voronov takes Russian potato collecting expedition to Central & S. Amer.; S.M. Bukasov is taxonomist ⁷⁶⁰	1925-26
New York potato farmers average 108 bushes of potatoes per acre ⁷⁶¹	1925-29
R.N. Salaman, Gr. Britain, begins work to obtain nuclear stocks of virus-free seed potatoes ⁷⁶²	1925
Northern NY Independent Seed Potato Growers' Assoc. vote to join with state seed improvement assoc. (Feb)	⁷⁶³ 1925
Many NYS seed growers send voluntary samples of certified seed potatoes to Florida for 'winter testing' 764	1925
L.A. Aspinwall, 83 yro, joins McKenzie Manufacturing Co., La-Crosse, WI, to design potato machinery ⁷⁶⁵	1925
A.B. Farquhar, agricultural equipment manufacturer, dies at York, PA ⁷⁶⁶	1925
Field equipment for applying liquid pesticides comes into the market ⁷⁶⁷	1925
Franklin Co. growers estimate harvest at 60% of normal; losses due to drought, potato lice & leaf hoppers ⁷⁶⁸	1925
Tuber decay phase of early blight is reported in potatoes ⁷⁶⁹	1925
C.F. Clark, USDA, notes 171 American potato varieties trace their parentage back to Rough Purple Chili ⁷⁷⁰	1925
S. Juzepczuk, taxonomist, leads 2 nd Russian potato collecting expedition to South America ⁷⁷¹	1926-28
Laura Scudder invents wax paper-sealed potato chip bag which greatly popularize sales of potato chips ⁷⁷²	1926
More than 75,000 home ice delivery contracts are cancelled as electric refrigerators are bought 773	1926
NYS Department of Farms and Markets is reorganized as Department of Agriculture and Markets (DAM) ⁷⁷⁴	1926
Seed potatoes cost \$4 per bushel in Franklin County, NY (May) ⁷⁷⁵	1926
Redcliffe N. Salaman publishes <i>Potato Varieties</i> ⁷⁷⁶	1926
PAA changes name of <i>The Potato News Bulletin</i> to <i>The American Potato Journal</i> ⁷⁷⁷	1923
Microbes producing toxic substances in the field are suspected to suppress common scab in potatoes ⁷⁷⁸	1926
J. Frank Grimes forms the Independent Grocers Alliance (IGA) with 60 New York stores ⁷⁷⁹	1926
R. Hastings, Malone, shows best Russet Rural, Early Ohio & Green Mtn at State Fair and Rochester expo ⁷⁸⁰	1926

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Deere & Co. buys Hoover Manufacturing Co. to increase market share in potato machinery business ⁷⁸¹	1926
USDA fixes tolerances for chemical residue on market fruits and vegetables ⁷⁸²	1926
Montana state seed potato program begins ⁷⁸³	1926
Fatalities from toxic gas leaks cause some owners to remove refrigerators to the backyard ⁷⁸⁴	c. 1926
T.P. McIntosh publishes <i>The Potato: Its History, Varieties, Culture and Diseases</i> ⁷⁸⁵	1927
General Electric Co. stuns its competition when it introduces the monitor-top refrigerator 786	1927
McCormick-Deering introduces its Model No. 4 two-row potato planter ⁷⁸⁷	1924
Louis Armstrong and his Hot Seven band records Potato Head Blues (10 May) ⁷⁸⁸	1927
Leonard Japp, Sr. and friend purchase delivery truck and enter snack food business delivering pretzels ⁷⁸⁹	1927
H. Harrison McCain is born at Florenceville, New Brunswick (3Nov) ⁷⁹⁰	1927
Albany buyers complain to potato inspector that Franklin Co. potatoes suffer from lack of grading ⁷⁹¹	1927
S.M. Bukasov collects wild potato species for VIR in Central and South America ⁷⁹²	1927-28
Hobart Corporation introduces a commercially successful potato peeler 793	1928
Jack Simplot and Lindsay Maggart buy electric potato sorter, a 'remarkable machine' to sort their tubers 794	1928
J.R. Simplot buys potato sorter from Maggart, sets up Simplot Produce Co., and stops growing potatoes ⁷⁹⁵	1928
Simplot Produce Co. begins buying and selling, sorting and shipping potatoes and onions ⁷⁹⁶	1928
Idaho places "Famous Potatoes" on its automobile license plates ⁷⁹⁷	1928
Empire State Potato Club (NY) is organized (Feb) ⁷⁹⁸	1928
USDA Federal Insecticide Board is reorganized as the Food, Drug and Insecticide Board ⁷⁹⁹	1928
Juzepczuk & Bukasov, VIR, describe taxonomic diversity of cultivated potatoes in Central & S. Amer. 800	1929
VA Rybin, VIR, describes polyploid series in wild and cultivated potatoes of Central & S. Amer. 801	1929
Freeman McBeth of J.D. Ferry Co. invents continuous potato chip cooker (fryer) ⁸⁰²	1929
Freeman McBeth gives continuous potato chip cooker (fryer) to the Ross Potato Chip Co., Richland, PA ⁸⁰³	1929
Continuous fryer dramatically affects economies of scale for potato chip production 804	1929
Clarence Birdseye sells his company to Postum Company (for \$22 million) 805	1929
Postum changes its name to General Foods Company ⁸⁰⁶	1929
USDA organizes potato breeding into national project incl. state experiment stations & land grant universitie	es^{807} 1929
Oliver Farm Equipment Co. buys McKenzie Manufacturing Co. of LaCrosse, Wis. (25 Jul) 808	1929
Dry weather during July and August results in light potato crop in New York state ⁸⁰⁹	1929
U.S. stock market crashes (29 Oct)	1929
NYS farmers supply 19% of all potatoes sold in NYC; 18% comes from Long Island farms ⁸¹⁰	1929
Idaho ships 384 carloads of potatoes to NYC for about 1% of the NYC market ⁸¹¹	1929
. 010	early 1930s
	early 1930s
	nid-1930s
John Child of Malone, NY, a Cornell 'cooperator', develops a high-yielding strain of Green Mountain ⁸¹⁵	1930s
Plant breeders describe cross-protection in plants when inoculating them with mild strains of virus ⁸¹⁶	1930s
N. Vavilov, taxonomist, leads 3 rd Russian potato collecting expedition to Mexico, Central Amer. & USA ⁸¹⁷	1930-33
Nikolai Vavilov explores and collects potato species in Mexico, Guatemala and Honduras ⁸¹⁸	1930
A. Leavitt, Gabriels, NY, hitches a potato picker behind his digger to harvest potatoes directly into sacks ⁸¹⁹	1930
NYS potato growers engaged in production of certified seed potatoes peaks at 248 ⁸²⁰	1930
Bateman Mfg. Co. is bought out by A.B. Farquhar Co. of York, PA ⁸²¹	1930
Plant Patent Act amends patent law to protect new varieties of asexually reproduced plants (potatoes) ⁸²²	1930
Franklin County Green Mountain potatoes take the first four places at state potato show 823	1930
Luther Burbank is posthumously awarded sixteen patents for new plant varieties ⁸²⁴	1930
Edition Burbank is postnamously awarded stateon patents for new plant varieties	1930
The Perishable Agricultural Commodities $\Delta ct (PACA)$ is passed to ensure prompt payments to sellers 825	1930
The Perishable Agricultural Commodities Act (PACA) is passed to ensure prompt payments to sellers LA Agricultural founder of Agricultural Mfgr. Co. age 88 yrs. dies (5 Nov) 826	1930
L.A. Aspinwall, founder of Aspinwall Mfgr. Co., age 88 yrs, dies (5 Nov) ⁸²⁶	1730
L.A. Aspinwall, founder of Aspinwall Mfgr. Co., age 88 yrs, dies (5 Nov) ⁸²⁶ Irwin Baur (Germany) collects samples of landrace potatoes in Latin America for breeding research ⁸²⁷	1020
L.A. Aspinwall, founder of Aspinwall Mfgr. Co., age 88 yrs, dies (5 Nov) ⁸²⁶ Irwin Baur (Germany) collects samples of landrace potatoes in Latin America for breeding research ⁸²⁷ Plant breeders note plants infected with a virus are saved from infection by a more virulent strain ⁸²⁸	1930 9 1030
L.A. Aspinwall, founder of Aspinwall Mfgr. Co., age 88 yrs, dies (5 Nov) ⁸²⁶ Irwin Baur (Germany) collects samples of landrace potatoes in Latin America for breeding research ⁸²⁷ Plant breeders note plants infected with a virus are saved from infection by a more virulent strain ⁸²⁸ Specialists in central Mexico discover distinct species of wild potato with immunity to late blight and frost ⁸²	9 1930
L.A. Aspinwall, founder of Aspinwall Mfgr. Co., age 88 yrs, dies (5 Nov) ⁸²⁶ Irwin Baur (Germany) collects samples of landrace potatoes in Latin America for breeding research ⁸²⁷ Plant breeders note plants infected with a virus are saved from infection by a more virulent strain ⁸²⁸	

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The introduction of the Katahdin variety in 1932 represents a landmark in modern breeding, for it is the result of the first systematic effort by scientists in the United States to select both parents and seedling in the development of a variety.

Ora Smith *et al.*, *Potatoes: Production, Storing, Processing*, The AVI Publishing Company, Inc., Westport, CT, 1958, p. 150.

Russian geneticists use wild species from South America to breed late blight resistant potato variety ⁸⁴⁹	1932
Herman W. Lay begins distributing potato chips (made in Atlanta, GA) in Nashville, Tennessee ⁸⁵⁰	1932
Of 569 potato farms in western New York about 70% harvested less than 15 acres of potatoes ⁸⁵¹	1932
Realized net farm income is less than one-third of what it had been in 1929 ⁸⁵²	1932
All (98.5%) of western New York potatoes are hauled to local shipping stations by motor truck ⁸⁵³	1932-33
Nikolai Vavilov explores and collects potato species in Mexico, Ecuador, Peru, Bolivia and Chile ⁸⁵⁴	1932-33
VA Rybin, VIR, pub. cytological studies of S. Amer. potatoes; ploidy becomes important in breeding ⁸⁵⁵	1933
Frank Hobart of Gabriels wins grand champion of show for Green Mountain exhibit at NYS potato show 856	1933
NYS enacts legal definition of 'certified' as applied to seed potatoes ⁸⁵⁷	1933
Agricultural Insecticide and Fungicide Association is formed ⁸⁵⁸	1933
Dixie Wax Paper Co. introduces 'pre-print' waxed glassine bag for potato chips ⁸⁵⁹	1933
Agricultural Adjustment Act is approved to restore farm purchasing power to 1909-14 levels, i.e. parity ⁸⁶⁰	1933
S.M. Bukasov identifies two centers of origin for the potato: Peru-Bolivia and Chile ⁸⁶¹	1933
C.F. Clark and F.J. Stevenson of USDA release the Chippewa variety ⁸⁶²	1933
USDA releases the Norkota variety, from Rural New Yorker #2 x Katahdin ⁸⁶³	1933
Colorado potato beetle is found at Tilbury, UK, but is exterminated ⁸⁶⁴	1933
Soil Erosion Service is established in the U.S. Dept. of Interior ⁸⁶⁵	1933
Drought affects northern New York; precipitation is down 3.16 inches (Oct-Dec) 866	1933
Frank Hobart of Gabriels, NY wins grand champion of NYS potato show for his Green Mountain exhibit 867	1934
Empire State Potato Club recognizes ten NYS 'Premier Potato Growers'; three are from Franklin Co. (Feb) ⁸⁶	⁶⁸ 1934
Potato farmer near Hicksville, NY (Long Island) notices crop losses; appeals to county agent for help 869	1934
Varietal mixtures are found in 70% of potato fields on 176 farms in seven western New York counties ⁸⁷⁰	1934
Late season drought impacts northern New York; precipitation is down 4 inches by September (Aug-Dec) 871	
Potato acreage in Franklin and Clinton Counties, NY is 9,875 acres ⁸⁷²	1934
NYS growers supply 23% of potatoes sold in NYC; all come from Long Island farms; none from upstate 873	1934
Idaho ships 466 carloads of potatoes to NYC for about 2% of the NYC market ⁸⁷⁴	1934
New York potato farmers average 135 bushes of potatoes per acre ⁸⁷⁵	1930-34

Potato traders in major eastern U.S. markets report that customers prefer bright-skinned potatoes over dark-skinned. . . . customers do not want potatoes which turn dark when cooked. . . . customers want potatoes well graded and free of defects and insect injury. . . . customers object to a mixture of varieties because such potatoes do not cook or bake evenly. . . .

H.C. Thompson *et al.*, "The Potato Situation and the Status of Potato Research in New York," Cornell Extension Bulletin #352, June 1936, pp. 13-14

Potato production in U.S. is 3,469,000 acres resulting in 227,337,000 cwt. for avg. of 66 cwt./acre ⁸⁷⁶	1935
Frederick McKinley Jones produces an automatic refrigeration system for long-haul trucks ⁸⁷⁷	1935
Winter testing (in Florida) of all NYS certified seed plots is now required ⁸⁷⁸	1935
T.J. Lockwood, Kimball, Nebraska, begins making potato graders ⁸⁷⁹	1935
L.C. Warren's Potato Act of 1935 amends AAA adding potatoes to the list of basic commodities (24 Aug) ⁸⁸⁰	1935
Essex County field trials "not made on good potato land" found Katahdin very promising 881	1935
Soil Conservation Service is established in the USDA ⁸⁸²	1935
Utz Quality Foods, Hanover, PA, installs automatic potato chip cooker with capacity of 300 lbs/hr ⁸⁸³	1936
E.G.S. Gagnier and Sons run field trials on USDA varieties Katahdin and Warba at Churubusco, NY ⁸⁸⁴	1936
Empire State Potato Club holds state-wide field day at E.G.S. Gagnier Farm in Churubusco ⁸⁸⁵	1936
Potato Act of 1935 is repealed after US Supreme Court declares AAA unconstitutional (10 Feb) ⁸⁸⁶	1936
SC&DAA is passed for soil conservation and to put farm income at fair levels, i.e. income parity (29 Feb) ⁸⁸⁷	1936
Maine and Long Island potatoes supply NYC markets cutting out potatoes from upstate NY ⁸⁸⁸	1936
Idaho state legislature creates The Idaho Fruit and Vegetable Advertising Commission (IFGAC) ⁸⁸⁹	1937
Dick and Mac McDonald open a small carhop drive-in hotdog stand near Pasadena, CA ⁸⁹⁰	1937
Harvey Noss takes Ohio Chip Association national by reorganizing as the National Potato Chip Institute ⁸⁹¹	1937
Herman Lay buys potato chip company in Atlanta, GA and renames it H.W. Lay & Company 892	1938
Moore & Wheeler at USDA & Univ. Mich. release Pontiac variety, from Triumph x Katahdin ⁸⁹³	1938
USDA releases Sebago variety with resistance to Late Blight, <i>Phytophthora infestans</i> ⁸⁹⁴	1938
F.J. Stevenson & C.F. Clark, USDA, release late blight-resistant Sebago variety ⁸⁹⁵	1938
Fred Jones & Joe Numero found Thermo King Corp. to make refrigeration units for long-haul trucks ⁸⁹⁶	1938
Dan Dee Pretzel and Potato Chip Co. builds a plant in the midst of Ohio's potato growing region ⁸⁹⁷	1938
USDA passes new Agricultural Adjustment Act combining soil conservation with income parity ⁸⁹⁸	1938
New AAA includes approval for four regional research labs to find new uses for agricultural commodities 899	1938
Great Hurricane of 1938, a.k.a. the Long Island Express, destroys Long Island potato crop (21 Sep) ⁹⁰⁰	1938
R. Bonde reports pink rot (water rot) of potatoes (<i>Phytophthora erythroseptica</i>) in Maine ⁹⁰¹	1938
J.G. Hawkes, Empire Potato Expedition (UK), collects wild and cultivated potato species in South America ⁹⁰²	1938-39
Paul H. Muller of Switzerland invents DDT and recognizes its insecticide properties ⁹⁰³	1939
The IFGAC is changed to the Idaho Advertising Commission 904	1939
T.J. Lockwood moves to Gering, Nebraska, to expand his potato grader manufacturing operation ⁹⁰⁵	1939
Oliver Farm Equip. Co. offers a two-row, PTO-operated, rubber-tired potato digger ⁹⁰⁶	1939
Pre-packaging of potatoes in 15-lb paper bags begins, except NYC where loose spuds and 5-lb bags rule 907	1940s
William V. Snyder begins selling Snyder's Potato Chips in aluminum foil bags ⁹⁰⁸	1940s
	y 1940s
	y 1940s
Dr. Henry M. Darling initiates the Wisconsin State Seed Farm at Three Lakes, WI ⁹¹¹	1940
Henry and Mildred Uihlein buy Heaven Hill and Tableland Farms and move to Lake Placid, T. of North Elba ⁹	
USDA founds Wyndmoor labs, known officially as Eastern Regional Research Center, at Wyndmoor, PA ⁹¹³	1940
Idaho Crop Improvement Association is established ⁹¹⁴	1940
Dick and Mac McDonald open a larger carhop drive-in hotdog stand in San Bernardino, CA ⁹¹⁵	1940
Eben Dahlman moves Dahlman Manufacturing Co. from his farm into its own building 916	1940
Clifford Wetzel, MI, makes a potato seed cutter capable of automatically sizing and cutting 100 lb/min ⁹¹⁷	1940
chirora weezer, wir, makes a potato seed cutter capable of automatically sizing and cutting 100 to/min	エノサリ

U.S. Weather Bureau is transferred to the Department of Commerce ⁹¹⁸	1940
Bacterial ring rot is found throughout the U.S. 919	1940
Ernest Charles Large publishes <i>The Advance of the Fungi</i> , the history of plant pathology ⁹²⁰	1940
Desperate British sailors use experimental 'contraption' to shoot potatoes at German warships 921	c. 1941
2,4-D is synthesized by plant physiologists at the Univ. of Chicago and USDA (Beltsville, MD) ⁹²²	1941
Isaac Hoover, Hoover Mfgr. Co., dies, age 96 (4 Mar) ⁹²³	1941
Liquefied gas propelled insecticide aerosol is invented ⁹²⁴	1941
Steagall Amendment provides price supports for nonbasic commodities, incl. potatoes, at 85% of parity 925	1941
Golden nematode (<i>Heterodera rostochiensis</i>) is identified on Hicksville, L. Island, potato farm (Jul) ⁹²⁶	1941
J.R. Simplot begins onion dehydration operations in Caldwell, ID as Simplot Dehydrating Co. (Oct) ⁹²⁷	1941
Empire State Potato Club (New York) is incorporated (22 Dec) ⁹²⁸	1941
Harvey Noss convinces U.S. government to declare potato chips an 'essential food' for war effort ⁹²⁹	1942
Emergency Price Control Act raises Steagall nonbasic commodities support to 90% of parity (2 Oct) ⁹³⁰	1942
Emergency Price Control Act is required to be in effect for two years after cessation of hostilities (2 Oct) ⁹³¹	1942
H.W. Lay & Co. begins manufacturing chips on a continuous potato chip machine 932	1942
T.J. Lockwood is now called Lockwood Grader Co. 933	1942
Because of negative connotations, Leonard Japp, Sr. renames Mrs. Japp's Potato Chips, Jays Foods ⁹³⁴	1942
Colorado potato beetle enters Great Britain, most likely by airplane, and stays ⁹³⁵	1942
Insecticidal properties of gamma-benzene hexachloride are rediscovered 936	1942
J.R. Simplot furnishes over 50 million pounds of dehydrated potatoes to the U.S. Army ⁹³⁷	1942-45
J.R. Simplot chemist, Ray Dunlap, begins experiments with freezing of potatoes for French frying ⁹³⁸	c. 1942-45
Germans study potential offensive uses of Colorado potato beetle against Great Britain ⁹³⁹	1943
Scientists discover nematocidal properties of dichloropropene-dichloropropane inciting soil fumigation ⁹⁴⁰	1943
H.W. Lay Co. debuts its cartoon spokesman Oscar, the Happy Potato, on television commercials 941	1944
DDT is used for control of potato psyllid, potato leafhopper, and other agricultural pests ⁹⁴²	1944
NYS DAM quarantines parts of Nassau & Suffolk Counties, L.I. to stop spread of Golden nematode 943	1944

Unbeknown to APHIS, a Long Island potato grower sold his farm to a real-estate developer and moved to Steuben County in upstate New York before the quarantine was imposed in 1944. He brought with him his tractors, trucks, and all his farm equipment. The golden nematode was subsequently found on his Steuben County farm in 1967. That farm was immediately quarantined, and later purchased by the USDA/ARS and established as a golden nematode research farm under rigid security. The farm was surrounded by a chain link fence with carefully controlled access. Ditches were constructed to manage the surface water run-off.

The grower had not grown seed potatoes, so APHIS officials were not concerned about spread of the nematode to other upstate potato farms. However, it was later discovered that the grower had shared equipment and machinery with neighboring farmers who did grow seed potatoes and who did sell their seed potatoes to out-of-state growers as well as other NYS potato growers. (You can well imagine the rest of this story.)

"Regulatory Control: Golden Nematode"
Integraed Pest Managenment—Golden Nematode.
http://courses.cit.cornell.edu/ipm444/new%20material/Golden_nematode.html

NYS DAM prohibits any L.I. potatoes from being sold as seed potatoes 944	1944
	-
W.G. Templeman and others develop 2,4-D as herbicide ⁹⁴⁵	1944
Frederick W. Jones founds the Jones Potato Chip Company in Mansfield, OH ⁹⁴⁶	1945
The Frito Company issues franchise to H.W. Lay & Co. to make and distribute corn chips 947	1945
Snyder's Potato Chips moves to Berlin, PA ⁹⁴⁸	1945
About 26 percent of all U.S. certified seed sold consists of cultivars released since 1932 ⁹⁴⁹	1945
Levitt & Sons begin buying Golden nematode infested potato farms for low cost housing on L. Island ⁹⁵⁰	1945
J.R. Simplot Co. establishes a phosphate mine on lands of the Fort Hall Indian Reservation ⁹⁵¹	1944
C. Ellenby, Gr. Brit., discovers S. vernei and S. tuberosum andigenum are resistant to Golden nematode 952	1945
D. Reddick and L.C. Peterson release Empire variety with late blight resistance obtained from <i>S. demissum</i> ⁹⁵³	1945
DDT is found to control Colorado potato beetles and aphid vectors of leafroll virus ⁹⁵⁴	1945
J.W. Weston develops the Red Pontiac, a clonal selection of Pontiac 955	1945

J.R. Simplot hires Ray Kueneman as director of research and development (Dec) 956 Dorthea Fagnano of Yonkers, NY is crowned National Potato Chip Queen 957 F.M. Blodgett & F. J. Stevenson of USDA & NY release Ontario variety (Richter Jubel x USDA S44537) 958 C.F. Clark and P.M. Lombard pub. Description and Key to American Potato Varieties, USDA Cir. # 741 959 A.E. Kehr et al. pub. Commercial Potato Production in North America, USDA Handbook No. 267 (Jul) 960 U.S. Standards for Grades of Potatoes are issued under Agricultural Marketing Act of 1946 961 Northern Plains Potato Growers Association is organized in the Red River Valley of North Dakota 962 Grain shortage prompts U.S. distillers to use 29 million bu. potatoes to supplement their production of alcohology.	1945 1946 1946 1946 1946 1946 1946
Clifford Wetzel partners with Leon Diltz, his brother-in-law, forming Diltz-Wetzel Mfgr. Co. 964	1946
Carroll Haines, age 14 yrs, starts Haines Equipment Inc. at Avoca, NY ⁹⁶⁵	1946
Carroll Haines buys Norris Manufacturing Co. at Avoca, NY ⁹⁶⁶	c. 1946
Lockwood Grader Co. expands manufacturing to ten states ⁹⁶⁷	c. 1946
Adirondack Potato Growers' Cooperative Association, a.k.a. Adk Potato Growers' Association, is formed (Ja	an) ⁹⁶⁸ 1946
J.R. Simplot begins production of frozen French fries ⁹⁶⁹	1946
Long Island potato production peaks at 62,000 acres planted ⁹⁷⁰	1946
2,4-D is introduced to the market as a selective herbicide ⁹⁷¹	1946
Pres. H. Truman declares official cessation of WWII hostilities (31 Dec) ⁹⁷²	1946
In Sweden, resistance to DDT and other 'new' insecticides is observed in houseflies ⁹⁷³	1947
John S. Niederhauser is hired by Rockefeller Foundation to help Mexican farmers improve crops 974	1947
Potato Association of America establishes a facility to import, classify and evaluate potato germplasm ⁹⁷⁵	1947
Eben D. Dahlman is granted US patent of a potato digger and picker (10 Jun) ⁹⁷⁶	1947
Daniel E. Woodman et al. form the Woodman Company, Decatur, GA to make packaging equipment 977	1947
Woodman Co. installs machine to fill, weigh and seal bags for potato chips at H.W. Lay & Co. 978	1947
USDA spends \$40M to support potato prices, urges farmers to limit potato production ⁹⁷⁹	1947
Under federal price support laws, 22M bu. of potatoes rot, while consumers complain of high prices 980	1947
13.3 percent of alcohol produced in the U.S. comes from potatoes (compared to 16.5 percent from grain) ⁹⁸¹	1947
Federal Insecticide, Fungicide, & Rodenticide Act replaces Federal Insecticide Act of 1910 ⁹⁸²	1947
Winter drought impacts northern New York; precipitation is down 3.55 inches for 1947 (Oct-Feb) 983	1947-48
McDonald brothers shut down restaurant for three months to reconfigure it to produce 'fast food' (Sep) ⁹⁸⁴	1948
McDonald brothers reopen hamburger drive-in using new 'Speedy Service System' for 'fast food' 985	1948
R.V. Akeley, F.J. Stevenson & Shultz of the USDA and Univ. Maine release the Kennebec variety	1948
Wisconsin Potato & Vegetable Growers Association begin publishing <i>The Badger Common' Tater</i> 987	1948
Idaho puts 'World Famous Potatoes' on its license plates 988	1948
National Agricultural Chemical Association emerges from the Agri. Insect. & Fung. Assoc. 989	1948
Congress passes Golden Nematode Act for quarantine of potatoes and related articles from Long Island 990	1948
Adirondack Potato Growers' Association hosts field day at Uihlein's Heaven Hill Farm, T. of N. Elba (19 Au	
Figure skater Yvonne Claire Sherman is elected Potato Queen of Adk Potato Growers' Assoc. (19 Aug) ⁹⁹²	1948
New AAA is passed updating basic and nonbasic price supports; potatoes are supported at 90% of parity 993	1948
Federal potato and potato starch price supports cost U.S. government \$200M since 1943 ⁹⁹⁴ USDA proposes lower price supports and smaller production goal for the 1040 potato group (Sap) ⁹⁹⁵	1948 1948
USDA proposes lower price supports and smaller production goal for the 1949 potato crop (Sep) ⁹⁹⁵ W.G. Burton publishes <i>The Potato: A Survey of its History and of Factors Influencing its Yield.</i> ⁹⁹⁶	1948
NPC is formed to promote potatoes & to unify growers across U.S. into one voice for national legislation ⁹⁹⁷	1948 1948
Clarence Birdseye perfects anhydrous freezing process for frozen foods ⁹⁹⁸	1948 1949
Redcliffe N. Salaman publishes <i>The History and Social Influence of the Potato</i> 999	1949 1949
Redefine IV. Salaman publishes The History and Social Influence of the Foldio	1949

From the early years of the twentieth century onwards, the public has grown increasingly inclined to expect an oval or kidney-shaped tuber, white in the skin, and with a smooth surface. The old round, deep-eyed bulgy types, of which 'Epicure' is almost the only survivor, were looked on askance and have been discarded, with the result that we have lost some of the best cookers and most palatable sorts ever known.

Dr. Redcliffe Salaman *The History and Social Influence of the Potato*Cambridge Univ. Press, 1989 (1st pub. 1949), p. 170

Resistance to DDT and other 'new' insecticides is discovered in mosquitoes 1000	1949
DDT is detected in milk of cows sprayed with DDT ¹⁰⁰¹	1949
McDonald brothers add milk shakes and French fries at their San Bernadino hamburger stand to grow sales 1002	1949
New AAA is passed revising 1948 supports; potatoes are supported at 60 to 90% of parity (31 Oct) ¹⁰⁰³	1949
Franklin County farmers plant 2,078 acres of potatoes 1004	1949
Utz Quality Foods relocates to larger facility on ten acres at Hanover, PA ¹⁰⁰⁵	1949
E.V. Hardenburg of NYS College of Agriculture at Cornell University, publishes <i>Potato Production</i> 1006	1949
F.J. Stevenson & J.R. Livermore at Cornell/USDA release the Saranac variety, from President x Katahdin ¹⁰⁰⁷	1949
Parathion goes into commercial production 1008	1949
George Lerner (Mr. Potato Head) invents plastic noses, ears, eyes & mouth parts to make vegetables into toys 10	
Russet Burbank gradually overtakes Green Mountain variety as the most popular baking potato ¹⁰¹⁰	1950s
C.R. Devereux, Sr. & Bruce Austin of Castine, ME, invent an air-process potato harvester ¹⁰¹¹	1950s
	1950
	1950
Acreage planted to potatoes in the Pacific Northwest is 245,000 acres 1014	1950
Approximately 500 potato harvesters are in use across the US ¹⁰¹⁵	1950
U.S. annual per-capita potato consumption reaches low point of 45 kilos ¹⁰¹⁶	1950
USDA renames PAA germplasm program the Inter-Regional Potato Introduction Project (IR-1) ¹⁰¹⁷	1950
Lockwood introduces a successful PTO driven, pull-type potato harvester 1018	1950
A A A is a grounded, for denote the suppose for mototogoe is discontinued with the 1050 even (21 Man) 1019	
AAA is amended; federal price support for potatoes is discontinued with the 1950 crop (31 Mar) ¹⁰¹⁹ Japan imposes ban on importation of U.S. potatoes to avoid Potato wart fungus and Golden nematode ¹⁰²⁰	1950
Fact Company appears U.S. of acettering Coloredo notate hardes even its notate areas (15 Jun) ¹⁰²¹	1950 1950
East Germany accuses U.S. of scattering Colorado potato beetles over its potato crops (15 Jun) ¹⁰²¹	
Water from the Grand Coulee Dam allows growers in eastern Washington state to grow potatoes 1022	1950
F. Gilbert 'Gib' Lamb buys/renovates old co-op plant, Weston, OR, to est Lamb Weston Inc. to process peas 102	
Malathion insecticide and Maneb fungicide are introduced to the marketplace 1024	1950
DDT is found to be accumulating in orchard soils 1025	1950
Walter Sirois of Caribou, ME, picks 235 U.S. barrels of potatoes in a 9 ½ hr day (30 Sep) ¹⁰²⁶	1950
Dr. Earle V. Hardenburg, Cornell Univ., is elected Honorary Life Member of PAA (2 Dec) ¹⁰²⁷	1950
Gas masks and respirators are designed and manufactured for application of parathion 1028	1950
Low-pressure, low-gallonage sprayers come into vogue for control of certain insects 1029	1951
Spray distributing equipment for use on helicopters is developed 1030	1951
Adirondack Potato Growers' Association initiates Rondak brand and Empire State trademark (Nov) 1031	1951
Mixtures of parathion, sulfur, and DDT are found particularly effective on potato leafroll 1032	1951
	1952
Experimental potato storage units are added at Long Island Vegetable Research Farm, Riverhead 1034	1952
Factor Nilsson develops a potato harvester in Sweden 1035	1952
Mayo Delisle forms Mayo Manufacturing and brings his son Duane into the business a year later 1036	1952
P.C. Marth reports successful use of chlorpropham (CIPC) as potato sprout inhibitor 1037	1952
George Lerner and Hasbro, Inc. bring Mr. Potato Head to market and use television to advertise 1038	1952
American Restaurant Magazine features McDonald brothers' concept of 'fast food' (Jul) 1039	1952
McDonald brothers begin licensing their 'Speedy Service System' to franchisees 1040	1952
Neil Fox signs contract to become a licensed franchisee of McDonald's in Phoenix, AZ ¹⁰⁴¹	1952
McDonald brothers hire Stanley Meston to design Neil Fox's new store as model for all future franchisees 1042	1952
Dick McDonald conceives the idea of 'golden arches' as the symbol of McDonald's restaurants 1043	1952
Marilyn Monroe wears burlap potato sack for 'You'd look good even in a potato sack' photo shoot 1044	1952
Adirondack Potato Growers' Assoc. receives federal consent to use 300 Canadian laborers for harvest (Aug) 104	
A.B. Farquhar Co. Ltd. becomes a division of Oliver Corporation 1046	1952
Wm. E. Berelson & F. Nephi Griggs organize Ore-Ida Potato Products, Inc. for making frozen French fries 1047	1952
CPB exhibits resistance to DDT ¹⁰⁴⁸	1952
Golden and Nephi Grigg of Ore-Ida Potato Products, Inc. invent 'Tater Tots' to use left-over potato shreds	1953
International Code of Nomenclature for Cultivated Plants (ICNCP) is issued to codify naming of cultivars 1050	1953

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Usual varieties grown in New York State are Chippewa, Irish Cobbler, Green Mountain, Katahdin, Kennebec, Ontario, Pontiac, Smooth Rural, Russet Rural and Sebago. Newer varieties being recommended on a small scale are Canoga, Cherokee, Essex and Houma.

Green Mountain, despite its excellent baking quality, is decreasing in acreage primarily because of a marked tendency to produce ill shaped, knobby tubers under adverse conditions. Yields of marketable tubers are high under good growing conditions.

Katahdin is by far the most important variety in New York, accounting for approximately one-half the acreage. The variety is not particularly outstanding in yielding ability, disease resistance, or cooking quality. Its popularity can be attributed to dependability in producing a fair crop under very adverse growing conditions. Tubers are very attractive and for that reason preferred by retailers, wholesalers, and consumers.

"Potato Production in New York State," *Cornell Extension Bulletin 890*, pp. 16-17.

McDonald brothers own eight Los Angeles fast-food restaurants using their 'Speedy Service System' 1064	1954
Ray Kroc seeks Dick & Mac McDonald to find out why they are buying so many shake mixers (summer) 1065	1954
Dick and Mac McDonald hire Ray Kroc as their franchising agent 1066	1954
R. Kroc forms McDonald's Systems Inc. using McDonald brothers' 'Speedy Service System' for fast-food 1067	1955
Ray Kroc opens McDonald's franchise in Des Plaines, IL and calls it "McDonald's #1" 1068	1955
McDonald's franchises use Russet Burbank potatoes exclusively for its French fries 1069	1955
Ray Dunlap leaves Simplot Company 1070	1955

The ten top-ranking American potato varieties in the 1955 certified seed crop are as follows: Katahdin, 13,876,943 bu.; Russet Burbank, 7,998,714 bu.; Red Pontiac, 4,293,091 bu.; Irish Cobbler, 3,720,267 bu.; White Rose, 2,617,029 bu.; Kennebec, 1,751,502 bu.; Chippewa, 1,013,045 bu.; Cherokee, 1,010,723 bu.; Triumph, 873,002 bu.; Sebago, 753,696 bu. These ten varieties account for 91 percent of the 1955 crop of certified seed potatoes.

R.W. Hougas and R.W. Ross

"The use of foreign introductions in breeding American potato varieties," *Am. Potato Jour.* Nov 1956, 33(11): 335.

Home microwave ovens are manufactured 1071	1955
Vic Mills and Ken Hawley at P&G launch effort to produce an engineered 'potato chip', i.e. Pringles®1072	mid-1950s
Miles Willard and James Cording, Jr. invent instant potato flakes at USDA ARS ¹⁰⁷³	1956
H. Harrison McCain and his brothers, Andrew, Wallace and Robert, form McCain Foods Ltd. (24 May) ¹⁰⁷⁴	1956
LIVRF acquires 20 a.; plant pathology is moved to Riverhead; staff begins conducting research on potatoes 10	⁰⁷⁵ 1956
Nematology journal <i>Nematologica</i> is launched 1076	1956
Direct bulk potato harvester is used for seed potatoes at Leavitt Farm in Gabriels, NY ¹⁰⁷⁷	1956

Wanted: Four good potato pickers. Can make \$10 or \$12 per day.

McCain Foods Ltd. opens frozen French fry plant in Florenceville, NB, Canada (27 Feb) ¹⁰⁷⁸	1957
The Idaho Advertising Commission is changed to the Idaho Potato and Onion Commission 1079	1957
Potato mop top virus (PMTV) is identified in Ireland 1080	1957
Louis Martino convinces Ray Kroc to fund McDonald's lab to turn French fries making into a science 1081	1957
Johansen, Sandar, Hoyman & Lana of North Dakota release the Norland variety, ND 626 x Redkote 1082	1957
Miles Willard establishes commercial potato flake processing plant at Idaho Falls, ID ¹⁰⁸³	1957
Carl and Leo Hobbs establish Spudnik Equipment Co. to make potato scoopers at Blackfoot, ID ¹⁰⁸⁴	1958
Dr. Edward D. Jones comes to Cornell U. as plant pathologist and takes extension responsibility for potatoes 100	⁸⁵ 1958
Spudnik Equipment Co. designs and manufactures a bin piler at Blackfoot, ID ¹⁰⁸⁶	1958
The Delaney Clause is included in Food Additives Amendment to Federal Food, Drug and Cosmetic Act 1087	1958
Frito-Lay, Inc. introduces Ruffles [™] , a ridged potato chip, to the market ¹⁰⁸⁸	1958
National Potato Chip Institute becomes Potato Chip Institute International (PCII) ¹⁰⁸⁹	1959
T.S. Skarbilovich erects subgenus <i>Globodera</i> to accommodate PCN and related species having round cysts 1090	
Eskel Peterson founds Better Built Manufacturing Inc. in Firth, ID, to make potato seed cutters (Jun) ¹⁰⁹¹	1959
Potato tuber moth is identified near Boise, ID ¹⁰⁹²	1959
P. Karlson and M. Loscher coin the term 'pheromone', 1093	1959
Albert Seymour, Malone, NY, of NYS Certified Seed Growers Cooperative advocates for a state seed farm 1094	
Henry M. Darling publishes "North American potato varieties" in 1959 Potato Handbook for PAA ¹⁰⁹⁵	1959
1006	1960-61
Hinerwadel's, Inc. of North Syracuse begins selling packaged salt potatoes 1097	1960s
Mayo Manufacturing begins making potato handling equipment 1098	1960s
F. Gilbert 'Gib' Lamb invents (and patents?) a water gun knife to slice French fries automatically 1099	1960
Dr. Edward D. Jones is made head of NYS certified seed potato program and research on potato diseases 1100	1960
Dr. Edward D. Jones <i>et al.</i> approach Mr. & Mrs. Henry Uihlein II to rent or buy land for NYS seed farm ¹¹⁰¹	1960
Cartoon character, Deputy Dawg, promotes Lay's [™] brand potato chips for Frito-Lay, Inc. ¹¹⁰²	1960
Morton Berzoa, USDA chemist, reports his idea of using sex pheromones to disrupt insect mating 1103	1960
Pro-Fac Cooperative is formed at Rochester, NY ¹¹⁰⁴	1960
U.S. per capital consumption of fresh potatoes is 81 pounds (farm weight) ¹¹⁰⁵	1960
Ray Kroc's McDonald's Systems Inc. is renamed McDonald's Corporation 1106	1960
The Frito Company and H.W. Lay & Company merge to become Frito-Lay, Inc. 1107	1961
Lamb Weston establishes frozen potato processing plant at American Falls, ID ¹¹⁰⁸	1961
Cornell Univ. rents 4 a. of Tableland Farm from Henry & Mildred Uihlein to begin seed farm operations 1109	1961
Dr. Robert F. Lucey convinces NYS legislature to fund Cornell's agric. research station at Canton, NY ¹¹¹⁰	1961
Merthin Miles, Scott Brown & Owen Ward found Milestone Seed Cutter to make seed potato cutters ¹¹¹¹	1961
Milestone Equipment begins manufacturing seed potato cutters at Blackfoot, ID ¹¹¹²	
John S. Niederhauser establishes the Inter-American Potato Program in Mexico ¹¹¹³	1961 1961
Dradagesson of Northern NV Agricultural Day Program is greated to aid Cornell Coop Extension agents 1114	
Predecessor of Northern NY Agricultural Dev. Program is created to aid Cornell Coop. Extension agents 1114 Pay Know have out the McDonald brothers for \$2.7 million; they know their original rectaurant 1115	1961
Ray Kroc buys out the McDonald brothers for \$2.7 million; they keep their original restaurant Colin C. Butler identifies the phenomena of the honey health?	1961
Colin G. Butler identifies the pheromone of the honey bee ¹¹¹⁶	1961
A.B. Farquhar Co. ceases to exist when Oliver Corporaton is acquired by White Farm Equipment Co. 1117	1961
Gustav H. Rieman, U. of Wisconsin, releases Superior variety, from MN59.44 x USDA X96-56 ¹¹¹⁸	1961
Production value of potatoes tops all other crops in Idaho ¹¹¹⁹	1961
Henry & Mildred Uihlein donate 317 a. Tableland Farm to Cornell Univ. for NYS seed potato farm (Dec) ¹¹²⁰	1961
Dr. Edward Anton Asselbergs, Canada, invents dehydrated potato flakes for instant mashed potatoes 1221 Dr. Behart L. Plainted, Cornell Univ. in elected president of the Potate Association of America 1222	1962
Dr. Robert L. Plaisted, Cornell Univ., is elected president of the Potato Association of America ¹¹²²	1962
Edwin Traisman of McDonald's patents method of preparing frozen French fried potatoes 1123	1962
Cornell-Uihlein Seed Farm grows 43 varieties: 13 commercial types, 7 for breeding & disease tests, 23 seedling	
	1962

Miller, Fontenot & Young of Louisiana release the La Rouge variety "(La Soda x Progress) Self" 1125	1962
Dan Crawford founds <i>Spudman</i> magazine (1 Jan) ¹¹²⁶	1962
Ray Kroc opens McDonald's near McDonald brothers original restaurant and drives it out of business ¹¹²⁷	1962-64
G.W. Simpson & R.V. Akeley of USDA and Maine release Penobscot, first with resistance to PLRV ¹¹²⁸	1963
Cornell-Uihlein Seed Farm, T. of North Elba, initiates a breeder-grower test program for New York 1129	1963
Frito-Lay, Inc. launches "Betcha can't eat just one" slogan for Lay's brand potato chips 1130	1963
Bored men make 'cannon' tube of beer cans and launch tennis balls, later potatoes, with gasoline fuel 1131	c. 1963
Borden buys Wise Potato Chips ¹¹³²	1964
Cornell-Uihlein Seed Farm, T. of North Elba, sells Chippewa foundation seed to NY seed growers 1133	1964
Cornell-Uihlein Seed Farm, T. of North Elba builds concrete potato storage warehouse, 12,600 cwt capacity	¹¹³⁴ 1964
F.J. Stevenson, R.V. Akeley, Newton & Isleib of USDA and Frito-Lay release the Monona variety 1135	1964
Empire State Potato Club renames its field days to the Potato Field Day and Farm Materials Exhibition 1136	1964
Mr. Potato Head is sold with a plastic body to replace the need for a real potato 1137	1964
Robert Johansen of North Dakota releases the Norgold Russet variety ¹¹³⁸	1964
Drought impacts northern New York; precipitation is down by 4.18 inches by July (Oct-July) ¹¹³⁹	1964-65
Frito-Lay, Inc. and the Pepsi-Cola Company merge to form PepsiCo, Inc. 1140	1965
Frito-Lay, Inc. buys regional potato chip brands and converts them to one uniform brand: Lay's 141	1961-65
Frito-Lay's regular brand of Lay's [™] potato chips are sold nationwide ¹¹⁴²	1965
P&G begins test marketing of Pringles [®] , an engineered, 'prefabricated' potato chip ¹¹⁴³	1965
McCain Foods, Inc. enters the United Kingdon market ¹¹⁴⁴	1965
H.J. Heinz Company purchases Ore-Ida Potato Products, Inc. 1145	1965
Plant breeders in Nebraska release Red Norland variety, a clonal selection of Norland ¹¹⁴⁶	1965
Temik, a soil applied systemic insecticide-nematicide appears on the marketplace 1147	1965
Potato mop top virus (PMTV) is reported in Great Britain 1148	1966
McDonald's begins switching to frozen French fries ¹¹⁴⁹	1966
U.S. potato production is 300,000,000 cwt. on 1.5 million acres using 70 varieties ¹¹⁵⁰	1966

The most popular variety is the Russet Burbank which is long established and produced mainly in Idaho, followed by Washington, Oregon, Maine, and at least three Midwestern states. It is closely rivaled by the Katahdin grown mostly in Maine, the New England states, New York, and along the eastern coast. Kennebec is next, being grown more or less generally in most all of the late fall and in a few of the winter and early spring states. Varieties such as Red Pontiac, Norland, and Red La Soda are concentrated mainly in the Midwest as early fall varieties or for storage, or as a winter and early spring crop in some southern states. Norgold Russet is grown in several Midwestern states and to some extent in the Far West, mainly Washington. (Irish) Cobbler is a second established variety grown mostly in Maine, Minnesota, and North Dakota. Superior is relatively new, grown in the Midwest, and, to a limited extent, in the South and East as an early crop. White Rose is a third established variety and is grown mostly in California. These ten varieties probably account for more than 75% of all the potatoes grown in the United States today, and about 90% of the acreage grown for certified seed.

Smith, Ora, et al., 1968. Potatoes: Production, Storing, Processing, The AVI Publishing Company, Inc., Westport, CT, p. 148

R. Plaisted & L.C. Peterson (Cornell) release Golden nematode resistant Peconic, LNA-106 x Katahdin¹¹⁵¹
USDOL creates 'parental exemption' rule for child-labor in agriculture¹¹⁵²
1966

The parental exemption allows children of any age who are employed by their parent, or a person standing in the place of a parent, to perform any job on a farm owned or operated by their parent or such person standing in the place of a parent.

John S. Niederhauser establishes the International Potato Program in Mexico ¹¹⁵³	1966
J.R. Simplot agrees to provide fresh Russet Burbank potatoes to McDonald's year round 1154	1966
J.R. Simplot loses 300 carloads of Russet Burbanks and \$400K due to foul ups in cold storages 1155	1966

Sealtest tests Chipnics [™] , an engineered, 'prefabricated' potato chip, in Roanoke, VA market, but it fails ¹¹⁵⁶	1966
The Idaho Potato and Onion Commission is changed to the Idaho Potato Commission 1157	1967
J.R. Simplot & Ray Kroc, with handshake, agree Simplot will supply <u>frozen</u> French fries to McDonald's 1158	1967
J.R. Simplot builds \$3.5M production facility to implement McDonald's process for frozen French fries 1159	1967
J.R. Simplot's Ray Kueneman perfects commercial scale process for making frozen French fries ¹¹⁶⁰	1967
R.F. Smith & R. van den Bosch introduce Integrated Pest Management (IPM) techniques 1161	1967
Phytoplasmas (non-helical, wall-less prokaryotes) are discovered and described 1162	1967
U.S. Weather Bureau renamed National Weather Service ¹¹⁶³	1967
Empire State Potato Club changes name of its field days exhibition to Empire Farm Days ¹¹⁶⁴	1967
R. Plaisted and L.C. Peterson release Bake-King variety, a cross of Merrimack and Green Mountain 1165	1967
C.E. Cunningham, R.V. Akeley <i>et al.</i> release Wauseon variety with resistance to Golden nematode 1166	1967
Akeley, Mills, Cunningham & Watts of USDA and Pennsylvania release Lenape variety (15 Nov) ¹¹⁶⁷	1967
Golden nematode is identified on potato farm near Prattsburg, Steuben County (2 Dec) 1168	1967
General Mills successfully launches its engineered 'prefabricated' potato chip, Chipos ^{®1169}	1967
R. Johansen, Shultz & Huguelet of North Dakota release the Norchip variety 1170	1968
Muriel O'Brien and Bill Raymer find potato spindle tuber disease is caused by new infective agent ¹¹⁷¹	1968
J. Gellings and F. Thompson together form GPOD of Idaho ¹¹⁷²	1968
Lamb Weston establishes potato processing plant at Connell, WA ¹¹⁷³	1968
McCain Foods Great Britian is established 1174	1968
McCain Foods, Inc. enters Australian market ¹¹⁷⁵	1968
Cornell School of Hotel Admin. runs blind evaluation of culinary characteristics of Bake-King in hotel 1176	1968

Eighteen cwt. Of Bake-Kings (a white-skinned baking variety with high solids) were given to Cornell's Statler Hotel for blind evaluation by their customers, who until that time had been served Russet Burbank baked potatoes exclusively. When the Bake-Kings were depleted, the Statler switched back to Russet Burbanks and immediately received unsolicited inquiries from their regular customers who wanted to know, "What happened to the 'good' baking potato?"

Dr. Edward Jones in *The Uihlein Farm of Cornell University* and *Development of Potato Seed Stocks by Tissue Culture*, 2002, pp. 40-41.

USDA-ARS issues <i>The Golden Nematode Handbook</i> (Sep) ¹¹⁷⁷	1968
Ken Strong of McDonald's patents enhanced method of preparing frozen French fried potatoes 1178	1968
Proctor & Gamble researchers synthesize a fat substitute called sucrose polyester, later called olestra 1179	1968
Proctor & Gamble introduces Pringles® to the market ¹¹⁸⁰	1969
U.S. gov't quarantines portions of Nassau, Suffolk and Steuben Counties to contain Golden nematode 1181	1969
Carlos Ochoa 'rediscovers' the 'Darwin potato' on the archipelago of Chiloé ¹¹⁸²	1969
A moratorium on the use of DDT in agriculture is established in Arizona ¹¹⁸³	1969
McCain Foods Ltd. enters U.S. markets ¹¹⁸⁴	1969
Weaver Potato Chip Co. & PCII sue General Mills for describing 'prefabricated' chips as potato chips 1185	c. 1969
Cornell-Uihlein Seed Farm, T. of N. Elba completes parallel terracing of its fields to control soil erosion 1186	1969-71
Potato chip manufacturers (PCII) bring suit against Proctor & Gamble for describing Pringles® as 'chips' 1187	1970s
U.S. per-capita fresh potato consumption is 23 kilos ¹¹⁸⁸	1970s
Long Island Vegetable Research Farm expands applied research programs on potatoes ¹¹⁸⁹	1970s
Farmers begin to use pheromones for monitoring insect pests in order to reduce insecticide use ¹¹⁹⁰	1970s
	rly 1970s
Dr. Ed Jones (Cornell Univ) et al. develop national standards for grades of seed potatoes 1192	1970-72
U.S. Plant Variety Protection Act (PVPA) is passed, but it excludes potatoes 1193	1970
Scotland begins requiring all seed lots entered for certification be derived from virus-tested stem cuttings ¹¹⁹⁴	1970
Sec. 4 is added to NYS Constitution Art. XIV to protect farmland for production of food & agric. products 119	⁵ 1970
Potato chip sales (U.S.) top \$1 billion ¹¹⁹⁶	1970
Name of potato variety Lenape is withdrawn (Mar) ¹¹⁹⁷	1970

®1100	
Proctor & Gamble organic chemist, Frederic J. Baur, patents tube-shaped container for Pringles [®] 1198	1970
National Potato Promotion Board (NPPB) is established to promote the benefits of eating potatoes ¹¹⁹⁹	1971
Potato Grower magazine is founded 1200	1971
Theodor O. Diener, USDA ARS, announces discovery of the potato spindle tuber viroid (PSTVd) ¹²⁰¹	1971
USDA separates Animal & Plant Health Services (APHS) from ARS [202]	1971
Maurice "Mac" McDonald, co-founder of McDonald's, dies at 69 yro. (11 Dec) ¹²⁰³	1971
NYS Agriculture & Markets Law is amended to include Agricultural Districts to reduce farm tax liability 1204	1971
U.S. per capita consumption of processed potato products surpasses that of fresh potatoes 1205	1971
Frito-Lay introduces Munchos brand potato crisps 1206	1971
The International Potato Center (CIP) is created in Lima, Peru ¹²⁰⁷	1972
Cornell University develops Integrated Pest Management Program to optimize pesticide use ¹²⁰⁸	1972
USDA issues U.S. Standards for Grades of Seed Potato ¹²⁰⁹	1972
USDA est. Animal and Plant Health Inspection Service (APHIS) to consolidate many USDA functions ¹²¹⁰	1972
Dr. Robert Atkins introduces his high-protein, high-fat, low-carbohydrate diet program ¹²¹¹	1972
Lamb Weston begins construction of new potato processing plants at Quincy, WA, and Hermiston, OR ¹²¹²	1972
Curtise-Burns acquires Snyder's of Berlin (Jun) ¹²¹³	1972
US Court of Appeals, 8 th Circuit, decides General Mills' 'prefabricated' Chipos [®] are potato chips (16 Jun) ¹²¹⁴	1972
	1972
Potato Grower magazine is founded in Idaho ¹²¹⁶	1972
All McDonald's restaurants serve frozen French fries made from the Traisman-Strong method year-round 1217	1972
WIC (Women, Infants and Children) nutrition program at USDA is created (26 Sep) ¹²¹⁸	1972
J.R. Simplot becomes the largest potato processor in the U.S.	1972
J.R. Simplot becomes the largest potato processor in the C.S. J.R. Simplot becomes the largest potato processor in the C.S. J.R. Simplot becomes the largest potato processor in the C.S.	1972
Potato tuber moth is identified in Oregon ¹²²⁰	1972
Currency crisis results when OPEC oil embargo leads to 'energy crisis' in U.S. 1221	1972
Gasoline shortage causes potato chip plant closures; bad growing season raises potato prices ¹²²²	1973
Cornell Univ. initiates research to develop meristem and tissue culture production of potato seed stocks 1223	1973
USDA rescinds release of the Lenape variety due to high concentration of glycoalkaloid 1224	1973
A.R. Stone describes <i>Heterodera pallida</i> , a new species of PCN ¹²²⁵	1973
	1973
Tom and Tony Osowski form Minto Machine Shop in Minto, ND ¹²²⁶	1973
Resistance to benzimidazole fungicides by fungus <i>Fusarium sambucinum</i> is found in Europe ¹²²⁷	
J.R. "Jack" Simplot 'retires' as president of J.R. Simplot Co., but remains involved with its activities 1228	1973
U.S. EPA bans all use of DDT ¹²²⁹	1973
Frito-Lay opens potato chip plant at Kirkwood, NY ¹²³⁰	1974
Mr. Potato Head parts are doubled in size to meet U.S. federal child safety regulations 1231	1974
U.S. farms had \$80 billion in sales 1232	1974
Census of Agriculture reports 51,500 potato producing farms in U.S. 1233	1974
Acreage planted to potatoes in Pacific Northwest is 490,000 acres 1234	1975
P&G's Pringles® acquire 15% of U.S. potato chip market 1235	1975
FDA requires that P&G disclose that Pringles® are made from dehydrated potatoes 1236	1975
David H. Young, seed grower, Gabriels, NY, receives "I dig spuds" badge from US Potato Board (6 May) ¹²³⁷	1975
McCain Foods Ltd. acquires French fry plant in Washburn, ME ¹²³⁸	1975
James W. Davis pub. 2 nd ed. of Aristocrat in Burlap: A History of the Potato in Idaho ¹²³⁹	1975
T. Hughes & 5 th grade students create 'The Potato Museum' exhibit at Int'l School of Brussels (Belgium) 1240	1975
E. Behrens elevates subgenus <i>Globodera</i> to genus level to properly describe two species of PCN ¹²⁴¹	1975
McDonald's emulates Wendy's by opening drive-thru restaurants ¹²⁴²	1975
Long Island Vegetable Research Farm is retitled Long Island Horticultural Research Laboratory (LIHRL) ¹²⁴³	1975
A severe drought occurs in northwestern Europe, especially France and England (Jan-Sep) ¹²⁴⁴	1976
R.E. Webb, et al., USDA, release Atlantic variety, from Wauseon x USDA B5141-6 ¹²⁴⁵	1976
Cornell Univ. procedures for meristem and tissue culture production of potato seed stocks are finalized 1246	1976
New York seed growers plant nineteen varieties of certified/foundation seed comprising 2199 acres 1247	1976
Don Bass informs Arthur Godfrey of his error in stating that potatoes are fattening during his radio show 1248	1976

McCain Foods Ltd. acquires French fry plant at Easton, ME ¹²⁴⁹	1976
Cartoonist Robert Armstrong coins the phrase 'couch-potato' 1250	1976
Under U.S. EPA, the Toxic Substances Control Act (TOSCA) is passed (11 Oct) ¹²⁵¹	1976
Potato Chip Institute International (PCII) becomes Potato Chip/Snack Food Association 1252	1976
Hurricane Belle destroys potato crop in Aroostook County, ME (10 Aug) ¹²⁵³	1976
Cornell Univ. potato breeders successfully remove virus from potato using meristem tissue culture techniques ¹	
Utz Quality Foods builds third plant to boost potato chip production to 7000 pounds per hour 1255	1976
J. Twomey, <i>et al.</i> , USDA & Colorado release the Centennial Russet, from Nooksack x W12-3 ¹²⁵⁶	1976
	1976 1976-77
Tubers from virus-free meristem-derived plantlets are field planted at Cornell-Uihlein Seed Farm	1970-77
USDA AMS issues new "US Standards for Grades of Potatoes for Chipping (1 Jan) ¹²⁵⁸	1977
U.S. EPA requires certification training for all applicators of restricted-use pesticides 1259	1978
Kettle Foods, Salem, OR, is founded to make great-tasting, all-natural snacks ¹²⁶⁰	1978
Nucleotide sequence of potato spindle tuber viroid (PSTVd) (eukaryotic organism) is completed ¹²⁶¹	1978
S.M. Bukasov, VIR, organizes cultivated potatoes into three 'superspecies complexes' 1262	1978
Peter Dowdeswell of England eats 3 pounds of potatoes in 1 minute 22 seconds 1263	1978
Terrell's Potato Chip Company is founded at Syracuse, NY ¹²⁶⁴	1979
Walter Wallmüller, Saatzuchtwirtschaft, releases variety Carola (Weima x sport) (K 2244) in Germany ¹²⁶⁵	1979
Henry Uihlein II Laboratory and adjoining greenhouse is dedicated at Cornell-Uihlein Seed Farm ¹²⁶⁶	1979
P&G's John Smale declares that unless Pringles [®] achieves profitable growth it will be discontinued ¹²⁶⁷	1979
J.S. Niederhauser launches the Regional Cooperative Potato Program to promote potato productivity 1268	1979
Microwave ovens are found in 10 percent of U.S. households ¹²⁶⁹	1980
J.R. Simplot invests \$4 million in two-year old Micron Technology, Inc. 1270	1980
Steve & Lynn Bernard start Potato Chip Co. in Hyannis, MA to hand-make kettle potato chips (4 Jul) ¹²⁷¹	1980
Potato production in U.S. is 1,148,000 acres resulting in 303,905,000 cwt. for avg. of 265 cwt./acre ¹²⁷²	1980
Johnston & Rowberry, Ag. Canada/Univ. of Guelph, release Yukon Gold variety, W5279 x Norgleam 1273	1980
R.E. Thornton and J.B. Sieczka pub. <i>Commerical Potato Production in North America</i> for the PAA (Jan) ¹²⁷⁴	1980
Young, Tarn & Davies of Ag. Canada, N.B. release the Shepody variety, from Bake-King x F58050 ¹²⁷⁵	1980
Tarn & Young of Ag. Canada, N.B. release the Shepody variety, from Bake-King x Pososo Tarn & Young of Ag. Canada, N.B. release Acadia Russet variety, from Bake-King x Norgold Russet 1276	1980
J.S. Niederhauser boosts Mexican potato production sixfold and per capita usage threefold since 1950 ¹²⁷⁷	1980
In Europe, <i>Phytophthora infestans</i> shows resistance to the therapeutic fungicide, metalaxyl ¹²⁷⁸	1980
Crop losses due to <i>Phytophthora infestans</i> in Europe increase dramatically ¹²⁷⁹	1980s
Anheuser-Busch starts paying for supermarket shelf space (slotting) to get its Eagle potato chips in stores 1280	1980s 1980s
USDA/Cornell stop chemical measures against <i>G. rostochiensis</i> when chemicals are found in L.I. groundwater	
J.J. Pavek, <i>et al.</i> , USDA release Lemhi Russet variety, from Pioneer x A63126-8 ¹²⁸²	1981
J. Mills, M. McDonald, P. Jennings, E. Dardiner & V. McNulty peel 587.5 lbs. of potatoes in 45 minutes 1283	1981
McCain Foods opens facility to produce French fries in Harnes, France ¹²⁸⁴	1981
W.J. Hooker, APS, pub. Compendium of Potato Diseases ¹²⁸⁵	1981
Wayland Potato Festival is inaugurated at Wayland, NY (Steuben County) ¹²⁸⁶	1981
U.S. annual per-capita consumption of potatoes is 52 kilos ¹²⁸⁷	1982
J.S. Niederhauser begins consulting with potato growers in Poland for productivity improvements ¹²⁸⁸	1982
Twomey, Pavek, Holm <i>et al.</i> , USDA & Colorado, release Sangre variety, from Viking x A6356-9 ¹²⁸⁹	1982
Kettle Foods, Salem, OR, introduces its natural, hand-cooked potato chips to the western US ¹²⁹⁰	1982
Minto Machine Shop changes its name to Harriston Industries and begins making potato equipment 1291	1982
J. Busby grows a single potato weighing 7 pounds, 1 oz. in England 1292	1982
Borden and Frito-Lay introduce thicker, ridged potato chips to the market 1293	1983
Jack Mingo and Robert Armstrong publish <i>The Official Couch Potato Handbook</i> 1294	1983
USDA AMS issues new "US Standards for Grades of Potatoes for Processing" (14 Apr) ¹²⁹⁵	1983
Northern New York Agricultural Development Program is formally defined and organized 1296	1983
Utz Quality Foods finishes modernization of its manufacturing facilities, including 'hand-cooked' chips ¹²⁹⁷	1983
Mr. Potato Head inspires the Los Angelos Dodgers baseball team to victory in the pennant race 1298	1983
Wendy's introduces topped baked potatoes (chili, cheese, broccoli) at 2,500 restaurants (Oct) 1299	1983
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O'Grady introduces kettle-cooked potato chips ¹³⁰⁰	
Lamb Weston develops Automatic Defect Removal System for high-speed production lines ¹³⁰¹	1983
Lamb Weston introduces the 'Twister Fry TM '	1705
Nell Mondy, Cornell U., is elected Honorary Life Member of the Potato Association of America ¹³⁰²	1983
Henry Uihlein II, Lake Placid, is elected Honorary Life Member of the Potato Association of America ¹³⁰³	1983
R. Plaisted (Cornell U.) & B. Brodie (ARS) expand research to include exotic races of Golden nematode 1304	1984
Virulent outbreaks of late blight in Europe prompt resumption of research on <i>Phytophthora infestans</i> ¹³⁰⁵	1984
Dick McDonald cooks & serves the 50 billionth McDonald's hamburger, having also made #1 (30 May) 1306	1984
Dr. Edward D. Jones, Cornell U., is elected president of the Potato Association of America 1307	1984
Dr. Robert L. Plaisted, Cornell U., is elected Honorary Life Member of the Potato Association of America 1308	1984
Meredith Hughes writes <i>The Great Potato Book</i> for MacMillan Publishing ¹³⁰⁹	1984
McCain Foods Ltd. purchases Tater Meal Inc., a potato-based animal food plant, Presque Isle, ME ¹³¹⁰	1984
Second mating type A2 of late blight (<i>Phytophthora infestans</i>) is identified in Switzerland ¹³¹¹	1984
Jack Mingo and Robert Armstrong publish <i>The Couch Potato Guide to Life</i> 1312	1984
Robert Plaisted et al. at Cornell release the Hampton variety, NY48 x NY51 ¹³¹³	1985
McDonald's approves use of Shepody potatoes for its French fries ¹³¹⁴	1985
Cape Cod Potato Chip Company is purchased by Eagle Snacks, a division of Anheuser-Busch ¹³¹⁵	1985
Tom Hughes exhibits his collection 'The Potato Museum' at Washington, DC ¹³¹⁶	1985
J.G. Hawkes updates and corrects Salaman's <i>The History and Social Influence of the Potato</i> 1317	1985
LIHRL adds Colorado potato beetle management specialist to its staff ¹³¹⁸	1985
Mr. Potato Head receives four write-in votes for mayor of Boise, ID ¹³¹⁹	1985
Second mating type A2 of late blight (<i>Phytophthora infestans</i>) is identified in the UK ¹³²⁰ Potato Chip/Snack Food Association becomes the Snack Food Association ¹³²¹	1985 1986
The Japp family elects to sell Jays Foods to Borden Foods ¹³²²	1986
Eskel Peterson of Better Built Manufacturing dies (Dec) ¹³²³	1986
Dr. Edward D. Jones, Cornell U., is elected Honorary Life Member of the Potato Association of America ¹³²⁴	1986
Better Built Manufacturing is incorporated in Orem, UT ¹³²⁵	1986
Monsanto initiates research program for achieving resistance to PVY in potatoes ¹³²⁶	1986
U.S. stock market crashes (19 Oct) ¹³²⁷	1987
USDA AMS establishes "United States Standards for Grades of Seed Potatoes" (6 Mar) ¹³²⁸	1987
Frostban potatoes with recombinant bacterium to prevent frost formation are field tested 1329	1987
Mr. Potato Head quits smoking his pipe and becomes "spokespud" for the American Cancer Society 1330	1987
Henry and Mildred Uihlein endow a professorship of plant pathology for potato breeding, Cornell University ¹⁷	³³¹ 1987
Robert Johansen at North Dakota releases the Russet Norkotah variety ¹³³²	1987
Frito-Lay, Inc. is granted patent for variety FL1553 (29 Sep) ¹³³³	1987
Crop losses due to <i>Phytophthora infestans</i> (late blight) increase dramatically in North America ¹³³⁴	988-93
Robert Plaisted <i>et al.</i> at Cornell release the Kanona variety, Peconic x GN bulk pollen ¹³³⁵	1988
Bayer CropSciences receives U.S. patent for imidacloprid (3 May) ¹³³⁶	1988
Severe drought affects the Northeast and the Adirondacks; potato growers seek federal aid 1337	1988
Improvements in seed certification programs effectively control all problems with PVX ¹³³⁸	1988
Monsanto initiates research program for achieving resistance to PLRV in potatoes 1339	1988
Tricorp, Inc. is founded 1340	1988
ConAgra Foods/Golden Valley Microwave Foods buy Lamb Weston for frozen potato products market share ¹	
McCain Foods Ltd. acquires potato processing plant at Othello, WA ¹³⁴² McCain Foods Ltd. acquires the assets of Ellio's Pizza, Lodi, NJ ¹³⁴³	1988
McCain Foods Ltd. acquires the assets of Emo's Fizza, Lodi, NJ McCain Foods Ltd. announces \$39 million expansion of potato processing plant at Othello, WA ¹³⁴⁴	1988 1989
Robert Plaisted <i>et al.</i> , Cornell, release Allegany variety 1345	1989
Researchers at N. Dakota Agr. Coll. release the Norland Dark Red Selection, a mutation of Red Norland	1989
Potato variety Carola (K 2244) is discontinued and removed from the National List in Germany 1346	1989
Borden is 2 nd behind Frito-Lay market share for U.S. potato chips 1347	1989
Robert Plaisted <i>et al.</i> , Cornell, release the Reba variety, from Monona x Allegany ¹³⁴⁸	1989
U.S. and Canada implement NAFTA, a free-trade agreement (1 Jan) ¹³⁴⁹	1989
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Frito-Lay introduces a low-fat version of Ruffles [™] potato chips ¹³⁵⁸	1990
Milestone introduces a 60-inch seed cutter capable of cutting 40,000 lbs of seed potatoes/hr ¹³⁵⁹	1990
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Carter et al. recognize four P. infestans mtDNA haplotype groups (Ia, Ib, IIa and IIb) ¹³⁶³	1990
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Mild winters in potato growing areas of N. America result in green peach aphid infestations 1368 early 1	
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Enite Levi's LLS montrest change of small modules falls to 29 monant 1371	
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Lamb Weston files federal patent infringement lawsuit against J.R. Simplot Co. over curly fries (18 Sep) ¹³⁷²	1991
Cornell University's College of Ag. & Life Sciences is designated official seed certification agency for NYS 1373	
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Late blight Type A2, <i>Phytophthora infestans</i> strain US-8, is detected in Maine ¹³⁹³	1993
Alan Wilson publishes The Story of the Potato Through Illustrated Varieties in England 1394	1993
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NYS SIP acquires seed stock for potato variety Carola (K 2244) from Colorado 1395	1993
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The Prince Edward Island Potato Museum opens in O'Leary, PEI, Canada ¹⁴⁰⁰	1993

A severe drought impacts the Adirondacks affecting farmers, gardeners and forests 1401	1993
Monsanto demonstrates genetically modified Russet Burbank has resistance to CPB ¹⁴⁰²	1993
U.S. FDA declares that genetically engineered foods do not require special regulation 1403	1993
North American Free Trade Agreement (NAFTA) by U.S., Mexico and Canada takes effect (1 Jan) ¹⁴⁰⁴	1993
Cornell researchers discover 2 nd race of Golden nematode (Ro2) at NYS experimental farm, Long Island ¹⁴⁰⁵	1994
Golden nematode race Ro2 is found to be resistant to Ro1-resistant potato varieties	1994
Leonard Japp, Sr., 90 yro, and family reacquires Jays Foods and reenters the potato chip business 1406	1994
Nutrition Labeling and Education Act sets standards for nutrition labels on most food packaging 1407	1994
Frito-Lay introduces Ruffles TM brand reduced fat potato chips ¹⁴⁰⁸	1994
Late blight (<i>Phytophthora infestans</i>) severely affects potato crops in New York, Maine and Pennsylvania ¹⁴⁰⁹	1994
Goodwin et al., Cornell U., reveal P. infestans clonal lineage US-1 (haplotype Ib) in 13 countries/4 continent	
AGRICO, a Dutch grower-owned seed potato cooperative, establishes Canadian base in North America ¹⁴¹¹	1994
Frito-Lay test markets Baked Lay's To Potato Crisps, a low-fat baked version of Lay's Chips this	1994
Lamb Weston (ConAgra) buys Universal Frozen Foods to be world's largest frozen potato product purveyor ¹	413 1994
Monsanto successfully field tests GM Russet Burbank potato with <i>Btt</i> gene for resistance to CPB ¹⁴¹⁴	1994
S.J. Peloquin, U. of Wisc., unofficially releases Snowden variety, from B5141-6 x Wischip (Spring) ¹⁴¹⁵	1994
U.S. PVPA is amended to include potatoes; European seed companies eye U.S. markets ¹⁴¹⁶	1994
Borden sells all its salty snack concerns except Moore's and Wise (Fall) ¹⁴¹⁷	1994
Curtise-Burns Foods, including Snyder of Berlin, is acquired by Pro-Fac Cooperative (3 Nov) ¹⁴¹⁸	1994
2 nd World Potato Congress is held at Harrowgate, UK ¹⁴¹⁹	1994
Soil Conservation Service is reorganized as the National Resources Conservation Service in the USDA 1420	1994
Zebra chip disease is observed in potato plants and chips in Mexico and Central America ¹⁴²¹	1994
Opposite mating Type A2 of <i>Phytophthora infestans</i> are found to reproduce sexually with Type A1 ¹⁴²²	1995
All infestations of <i>Phytophthora infestans</i> in the U.S. are Type A2 and especially virulent to tomatoes ¹⁴²³	1995
Mr. Potato Head appears in a supporting role in Disney's feature film <i>Toy Story</i> ¹⁴²⁴	1995
Frito-Lay sues Proctor & Gamble for saying Pringle's are healthier than Frito-Lay's potato chips ¹⁴²⁵	1995
McDonald's approves use of Ranger Russet potatoes for its French fries 1426	1995
Late blight Type A2, <i>Phytophthora infestans</i> strain US-8, is detected in 23 states ¹⁴²⁷	1995
USDA, FDA & EPA approve Monsanto's NewLeaf [™] Russet Burbank for commercial production 1428	1995
Monsanto introduces NewLeaf TM Russet Burbank with Btt genes against CPB to the US market ¹⁴²⁹	1995
Potato dextrin resist is introduced to American textile artists and designers 1430	1995
S. Bloembergen and R. Narayan patent PLA made from potatoes for moldable products and films 1431	1995
North Dakota Supreme Court notes that harvested potatoes are fungible goods 1432	1995
Late blight, <i>Phytophthora infestans</i> , affects 163,000 acres of potatoes in the Pacific Northwest 1433	1995
University of Wisconsin, Madison, and NASA grow potatoes in space on shuttle <i>Columbia</i> (Oct) ¹⁴³⁴	1995
Potato production in U.S. is 1,373,000 acres resulting in 393,867,000 cwt. for avg. of 323 cwt./acre ¹⁴³⁵	1995
Severe late blight epidemics afflict wild <i>Solanum</i> species near Quito, Equador 1436	1995-96
Thomasson's Potato Chip Co. is sold to Jones Potato Chip Company (Jan) ¹⁴³⁷	1996
Anheuser-Busch exits potato chip trade closing/selling all Eagle plants, keeping only its Cape Cod plant 1438	1996
International Potato Center at La Molina, Peru, calls for a global initiative to combat late blight (GILB) ¹⁴³⁹	1996
Cornell-Eastern Europe-Mexico International Collaborative Project (CEEM) is organized 1440	1996
Woman slips on McDonald's French fry at Wal-Mart, sues, and is awarded \$35,173.22 for broken foot ¹⁴⁴¹	1996
Frito-Lay launches Baked Lay's Potato Crisps with Muppets' Miss Piggy and supermodels 1442	1996
FDA approves olestra for human consumption (24 Jan) ¹⁴⁴³	1996
Monsanto introduces NewLeaf TM Russet Burbank with Btt genes against CPB to the Canadian market ¹⁴⁴⁴	1996
Mr. & Mrs. Potato Head collaborate with the League of Women Voters in 'Get Out the Vote' campaign ¹⁴⁴⁵	1996
Frito-Lay tests Wow! brand potato chips made with olestra in three small test markets (May) ¹⁴⁴⁶	1996
Frozen French fries are declared 'fresh' vegetables under PACA ¹⁴⁴⁷	1996
Gov. Pataki unveils "Pride of New York" program to promote NYS agricultural products (22 Aug) ¹⁴⁴⁸	1996
BASF Plant Science initiates approval process for Amflora potato variety with European Union (Aug) 1449	1996
Monsanto's GM variety NewLeaf TM Russet Burbank enters food chain in Canada ¹⁴⁵⁰	1996
Due sten % Comble having celling for fine Dringle TM made with allows (Comble having celling for fine Dringle TM	
Proctor & Gamble begins selling fat-free Pringles made with olestra (Sep) ¹⁴⁵¹	1996

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McCain Foods Ltd. buys frozen French fry and appetizer business from Ore-Ida Food Service for \$500 million of the Carl No. 1470	
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Wolfe Lange releases a new Carola variety (K 3315) from Bundesortenamt in Germany 1502	1999

1502	
R. Plaisted <i>et al.</i> at Cornell & Pennsylvania release Eva variety, Steuben x bulk pollen hybrids 1503	1999
New York seed growers plant fifty-nine varieties of certified/foundation seed comprising 1126 acres 1504	1999
Severe drought strikes Northeast, New York and Adirondacks (May-Sep); \$1 billion farm disaster declared 150.	
Uwe Hils publishes World Catalogue of Potato Varieties with 1600 varieties described (Aug) ¹⁵⁰⁶	1999
Carlos M. Ochoa publishes Las Papas de Sudamérica: Perú ¹⁵⁰⁷	1999
Cape Cod Potato Chips is acquired by Lance, Inc. (May) 1508	1999
Mr. Potato Head is featured in Disney's sequel film <i>Toy Story</i> 2 ¹⁵⁰⁹	1999
PEI Potato Museum receives Amazing Potato Exhibit from National Mus. of Science & Tech. in Ottawa 1510	1999
USDA, FDA & EPA approve Monsanto's NewLeaf Y [™] combining Btt traits with resistance to PVY ¹⁵¹¹	1999
Monsanto releases NewLeaf Plus MewLeaf Y Russet Burbank and Shepody varieties Russet Russe	1999
Joseph J. Pavek retires from USDA-ARS, Aberdeen; Rich Novy leaves ND to assume his responsibilities 1513	1999
U.S. annual production of all NewLeaf TM potato varieties peaks at 55,000 acres ¹⁵¹⁴	1999
Utz Quality Foods introduces olestra-containing Yes! brand chips with half the calories of regular chips 1515	1999
LIHRL is renamed Long Island Horticultural Research and Extension Center (LIHREC) ¹⁵¹⁶	1999
The Ro2 race of Golden nematode is found in one field of potatoes on Long Island, NY ¹⁵¹⁷	1999
U.S. exports 55,000 tons of fresh and seed potatoes to Mexico ¹⁵¹⁸	1999
Nematology journal <i>Nematologica</i> is renamed <i>Nematology</i> 1519	1999
Pharmacia agrees to merge with Upjohn, Inc. to become Pharmacia & Upjohn, Inc. (19 Dec) ¹⁵²⁰	1999
Per capita consumption of frozen potato products is 5.3 pounds in Japan 1521	1999
Hettema B.V./B.V. De ZPC merge in The Netherlands to form HZPC B.V., largest seed exporter in world 1522	1999
Researchers realize cross-protection is due to activation of a defense system present in plant cells 1523	1990s
· 1504	ite 1990s
	c. 2000
McDonald's Corporation stops buying NewLeaf TM potato varieties ¹⁵²⁶	2000
J.R. Simplot Company cancels all contracts with growers for NewLeaf TM potato varieties ¹⁵²⁷	2000
Burger King, McCain Foods, Frito-Lay and others quit NewLeaf [™] potato varieties ¹⁵²⁸	2000
Russet Burbank represents 74 percent of Idaho's total potato production 1529	2000
Potato wart fungus is found in PEI, Canada; U.S. halts imports of potatoes from Canada 1530	2000
Pharmacia creates wholly owned subsidiary Monsanto Ag Company (9 Feb) ¹⁵³¹	2000
Pharmacia becomes Pharmacia Corp.; Monsanto Ag Co. becomes Monsanto Company (31 Mar) ¹⁵³²	2000
Canadian health agencies reject use of olestra as a food additive in Canada (22 Jun) ¹⁵³³	2000
Scientists at Cornell Univ. genetically engineer a potato containing Norwalk virus vaccine (11 July) ¹⁵³⁴	2000
Zebra chip disease is observed in Texas potato fields; loads are rejected at processors 1535	2000
Monsanto Company 'separates' itself from Pharmacia Corp (1 Sep) ¹⁵³⁶	2000
Scientists at Cornell Univ. genetically engineer a potato containing hepatitis B vaccine (30 Oct) ¹⁵³⁷	2000
Mr. Potato Head is inducted into the National Toy Hall of Fame ¹⁵³⁸	2000
Mr. Potato Head is named official Ambassador for the Rhode Island State Tourism Board 1539	2000
R. Plaisted et al., Cornell Univ. release NY121, a P. infestans resistant variety crossed from E74-7 x N43-288	¹⁵⁴⁰ 2000
Thompson & Morgan/Royal Hort. Society display 525 potato varieties at Westminster, England (1 Nov) ¹⁵⁴¹	2000
Netherlands is world's largest exporter of frozen potato products at 1 mmt ¹⁵⁴²	2000
Idaho potato crop of 520 million cwt. sets record eclipsing 1996 record crop by 2% 1543	2000
Borden sells Wise Potato Chips to a New York equity firm 1544	2000
4 th World Potato Congress is held at Amsterdam, Netherlands ¹⁵⁴⁵	2000
Dave Douches <i>et al.</i> at MSU develop a potato variety resistant to both CPB and late blight 1546	2000
A virulent strain of <i>Phytophthora infestans</i> strikes potato crops in Russia, losses run to 4 million tons 1547	2000
Mexico produces 185,300 acres of potatoes of which 30 percent are resistant to late blight 1548	2000
Spudnik Equipment Co. introduces 4-, 6- and 8-row, cup-type potato planters ¹⁵⁴⁹	2000
CIP returns 496 healthy clones of native cultivars to nine farmer communities in central Peru 1550	2000
Hanneman/Ramon cross <i>S. pinnatisectum</i> with derivative of commercial variety for late blight resistance ¹⁵⁵¹	2000
USDA issues national standards for organically grown agricultural products, including potatoes (20 Dec) ¹⁵⁵²	2000
Japan, at 46% of U.S. export volume, is largest export market for U.S. frozen French fries 1554	2000
Proctor & Gamble sues Frito-Lay for patent infringement on Pringles® process (28 Dec) ¹⁵⁵⁴	2000

Joseph Sieczka retires as Coordinator of LIHREC (Dec) ¹⁵⁵⁵	2000
Lamb Weston, McCain Foods Ltd. and J.R. Simplot Co. account for 80% of U.S. frozen French fry market 15.	⁵⁶ 2000-01
Idaho potato prices plummet to <\$1/cwt.; farmers give potatoes away or dump them on fields to freeze 1557	2001
Idaho potato production costs are about \$5/cwt., but are rising due to energy and fuel costs 1558	2001

"The root of our problem is the American potato farmer is too darn efficient."

Wade Chapman, Operations Manager, Idaho Supreme Potatoes *The New York Times*, 17 Mar 2001

Man sues McDonald's for paper in hash browns, loses, and is ordered to pay \$30,000 to McDonald's 1559	2001
Utz Quality Foods adds 'russet' potato chips to their potato chip offerings 1500	2001
McDonald's admits their 'pure' vegetable oil contains a small amount of beef flavoring 1561	2001
Milestone introduces its 72-inch seed potato cutter with capability of cutting 55,000 lbs/hr ¹⁵⁶²	2001
Vegetarians file class-action suit against McDonald's for beef flavoring in French fries ¹⁵⁶³	2001
After receiving cold French fries, an angry customer shoots out McDonald's front window with a BB gun ¹⁵⁶⁴	2001
Rusty Wallace begins promoting Utz Quality Foods products on his NASCAR race car and uniform 1565	2001
Consumer Reports taste test finds Utz potato chips are best tasting in the US ¹⁵⁶⁶	2001
Monsanto stops producing NewLeaf TM Russet Burbank, Atlantic, Superior, Shepody (Mar) ¹⁵⁶⁷	2001
McCain Foods Ltd. buys appetizer-making facilities and food service business of Anchor Food Products Inc. 1568	2001
Christine Graves (editor) publishes <i>The Potato</i> , <i>Treasure of the Andes from Agriculture to Culture</i> 1569	2001
Proctor & Gamble voluntarily recalls Pringles [®] made with NewLeaf [™] potatoes from Japan (17 Jul) ¹⁵⁷⁰	2001
Louie Attebery publishes biography: J.R. Simplot: A Billion the Hard Way ¹⁵⁷¹	2001
Abnormally dry weather affects Adirondacks and northern New York (Jul-Sep) ¹⁵⁷²	2001
TerraMarc Ind. doubles size of Crary Company and moves Lockwood Mfg. to West Fargo, ND ¹⁵⁷³	2001
Jim Davis and Brett Koth create Mr. Potato Head comic strip (summer) ¹⁵⁷⁴	2001
Dr. Qin Chen finds dual resistance to late blight and Colorado Potato Beetle in <i>Solanum pinnatisectum</i> ¹⁵⁷⁵	2001
J.B. Ristaino doubts Irish potato famine was caused by <i>P. infestans</i> haplotype Ib (US-1) in <i>Nature</i> article ¹⁵⁷⁶	2001
James Lang publishes Notes of a Potato Watcher ¹⁵⁷⁷	2001
W.R. Stevenson, et al., APS pub. 2 nd ed. of Compendium of Potato Diseases ¹⁵⁷⁸	2001
Per capita utilization of frozen potato products in U.S. is estimated at 29.4 pounds per person ¹⁵⁷⁹	2001
U.S. Potato Board adopts a Phytosanitary Barrier Initiative (Mar) 1580	2001
Monsanto's NatureMark™ subsidiary dissolves ¹⁵⁸¹	2001
Z. Huamán and D.M. Spooner pub. "Reclassification of landrace populations of cultivated potatoes" 1582	2002
Mr. Potato Head rings the opening bell at the New York Stock Exchange (12 Feb) ¹⁵⁸³	2002
USDA Census of Agric. reports 530 NYS potato farms growing 22,094 acres of potatoes 1584	2002
New York State is ranked tenth in the U.S. in potato production with 27,000 acres planted 1585	2002

The top twelve varieties (by acreage) of certified/foundation seed potatoes grown in New York State are Red La Soda, Superior, Monona, La Rouge, Reba, Snowden, Atlantic, Eva, Yukon Gold, Dark Red Norland, Keuka Gold, Kanona.

The top twelve varieties (by acreage) of certified/foundation seed potatoes grown in the U.S. are Russet Burbank, Frito-Lay varieties, Russet Norkota strains, Russet Norkota, Ranger Russet, Shepody, Atlantic, Red Norland, Red La Soda, Dark Red Norland, Snowden, Superior. If one discounts the various Frito-Lay varieties and Russet Norkota strains, the next two varieties are Yukon Gold and NorValley.

Data Collected by the Nebraska Seed Potato Certification Agency

Potato mop top virus (PMTV) is found in Maine and ten other states; Canada/U.S. blame each other 1586	2002
McDonald's approves use of Umatilla Russet for its frozen French fries ¹⁵⁸⁷	2002
National Potato Promotion Board (NPPB) is renamed United States Potato Board (15-16 Mar) ¹⁵⁸⁸	2002
Russian scientists & Monsanto modify 3 Russian potato varieties with genes against CPB ¹⁵⁸⁹	2002
CEEM researchers test Cornell-bred NY121 cultivar in Russia for resistance to <i>P. infestans</i> ¹⁵⁹⁰	2002
Swedish scientists find acrylamide in fried starchy foods such as French fries and potato chips (Apr) ¹⁵⁹¹	2002

Edward D. Lance of Computation and Park Transfer	2002
Edward D. Jones of Cornell Univ. publishes <i>The Uihlein Farm of Cornell University</i>	2002
U.S., Netherlands, and Canada are first, second, and third in world in production of frozen French fries 1593 Mr. Poteta Head turns 50 yrs and receives his American Association of Potired Porsons (AAPR) cord 1594	2002 2002
Mr. Potato Head turns 50 yro and receives his American Association of Retired Persons (AARP) card 1594	
USDA ERS finds most potential for growth and demand for frozen potato products in China and India 1595	2002
Cornell releases disease-resistant NY 112 as the Marcy variety for chipping 1596	2002
Jim Davis and Brett Koth publish book Mr. Potato Head Unplugged 1597 Patendar Produce and U.S. sights to Common against Page 1598 Patendar Produce and Research I.S. sights to Common against Page 1598	2002
Potandon Produce gets U.S. rights to German variety Rosara and markets as Green Giant [®] Klondike Rose ¹⁵⁹⁸	2002
Summer drought strikes Adirondacks; precipitation at Newcomb is down 10 inches by Sept. (Jul-Sep) ¹⁵⁹⁹	2002
Lamb Weston's natural chips M. Daniella LISA annual and a substantial form from the first (2 San) 1600	2002
McDonalds USA announces plan to reduce trans-fat from French fries (2 Sep) ¹⁶⁰⁰	2002
Frito-Lay announces plan to eliminate trans-fat from potato chips (25 Sep) ¹⁶⁰¹	2002
Frito-Lay hires Dr. Kenneth Cooper to develop nutrition and fitness messages on snack packaging 1602	2002
Agway, Inc. files for bankruptcy (Oct) ¹⁶⁰³	2002
USDA's APHIS conducts national survey of U.S. potatoes for potato mop top virus (PMTV) (Oct) ¹⁶⁰⁴	2002
Potato wart fungus is found again in two potato fields in Prince Edward Island, Canada (Oct) ¹⁶⁰⁵	2002
Potato tuberworm moth, a subtropical potato pest, common in California is found at Hermiston, OR 1606	2002
China leads the world in potato production with 65,052,119 metric tons 1607	2002
NASS finds 9408 US potato farms; 60% < 5 a., 76% < 100 a., 86% < 250 a., 92% < 500 a. 1608	2002
Raker and Spooner show S. tuberosum subsp. tuberosum is distinct from S. tuberosum subsp. andigenum 1609	2002
U.S. is fourth behind China, Russia, and India in potato production with 21,011,030 metric tons 1610	2002
U.S. exports only 6000 tons of fresh & seed potatoes to Mexico due to increased phytosanitary exclusions 1611	2002
LIHREC is refocused on ornamental crops, but retains small potato program under 'retired' Joe Sieczka' (Jan)	
USDA and Mexico sign pact to allow U.S. to ship potatoes to Mexico pending Mexican gov't approval 1613	2003
U.S. ranks fourth in world potato production behind China, Russia and India 1614	2003
Stephen Joseph sues McDonald's for misrepresenting reduction of trans-fats in its French fries (Jan) ¹⁶¹⁵	2003
Harvard scientists find acrylamide in baked & fried foods does not cause bladder, bowel or kidney cancer left	2003
Stephen Joseph trans-fat suit against McDonald's is thrown out (Feb) ¹⁶¹⁷	2003
Wageningen University has already posted its potato pedigree database online for researchers (Feb) ¹⁶¹⁸	2003
W. De Jong et al., Cornell U. release purple-skinned, purple fleshed Adirondack Blue (N40-1 x NY96) ¹⁶¹⁹	2003
New York potato farmers plant 22,200 acres of potatoes, down 1 % and 6% from 2002 and 2001 1620	2003
New York potato farmers cease planting Green Mountain variety for certified seed 1621	2003
Sales in 50 lb. bags account for 21.1% of total potatoes sold by New York potato farmers 1622	2003
Bulk sales account for 50% of total potato sales sold by New York potato farmers ¹⁶²³	2003
New York potato farmers (38.6%) report direct-to-consumer sales accounting for only 8.3% of total sales 1624	2003
U.S. Potato Board meets with processors to develop plan to emphasize nutrition of potatoes (7 Jul) ¹⁶²⁵	2003
Iowa survey finds institutional potato buyer incur 1155 food-miles versus 75 food-miles for local sources 1626	2003
BASF re-applies to European Commission for approval to cultivate its GM potato variety Amflora 1627	2003
Uwe Hils publishes 2 nd edition of the <i>World of Potato Varieties</i> ¹⁶²⁸	2003
Five Ohio potato chip manufacturers team up to make the world largest bag of potato chips: 1,082.5 lbs ¹⁶²⁹	2003
A severe drought affects Europe ¹⁶³⁰	2003
Two National Cancer Institute studies reinforce that 2,4-D does not present cancer risk to users 1631	2003
USDA amends PACA rules to include the 'Batter Coating Rule' for French fries (2 Jun) ¹⁶³²	2003
Miles Willard Technologies develops water-free process for potato flakes ¹⁶³³	2003
Michigan Seed Potato Association revises nomenclature to clarify actual years seed has been 'in the field' 1634	2003
Frito-Lay eliminates trans-fat from all of its snack chip brands (Sep) ¹⁶³⁵	2003
Consumer Reports testing shows that McDonald's French fries are still being made with trans-fats (Nov) ¹⁶³⁶	2003
Mexican inspectors find Columbia root rot nematode and bacterial ring rot in U.S. potatoes at border 1637	2003
Potato wart fungus is found in PEI six miles from site of initial discovery in 2000 ¹⁶³⁸	2003
BASF re-applies to EC for approval of GM potato variety Amflora for food & feed stuff ¹⁶³⁹	2003
Jiwan Palta (UW) & John Bamberg (ARS) find S. gourlayi and S. microdontum are calcium accumulators ¹⁶⁴⁰	2003
Spudnik Equipment Co. introduces hiller-diker cultivating machine 1041	2003
Grimme Potato Equipment Co. of Germany buys Spudnik Potato Equipment Co. of Blackfoot, ID ¹⁶⁴²	2003

ARS scientists activate systemic acquired resistance (SAR) in potato plants with salicylic acid spray of	2003
U.S. experiences first ever potato trade deficit: exports \$646 MM against imports of \$682 MM ¹⁶⁴⁴	2003
	2003-0
	2003-0
New York farmers plant 61.9% round white potatoes, 7.7% red-skin, 4.8% yellow-fleshed, <1% russet 1647	2004
Jays Foods files bankruptcy and enters agreement for purchase by Willis Stein, owners of Roundy's Inc. 1648	2004
W. De Jong et al., Cornell U., release red-skinned, red-fleshed Adirondack Red (N40-2 x Q155-3) ¹⁶⁴⁹	2004
Jays Foods is sold to Willis Stein & Partners under parent company, Ubiquity Brands (May) ¹⁶⁵⁰	2004
Utz Quality Foods acquires New England distribution rights of Bachman Company ¹⁶⁵¹	2004
Utz Quality Foods begins making sweet potato kettle chips and low-carbo baked crisps from soy flour 1652	2004
Low-carbohydrate diets vilifying the consumption of potatoes promoted by Dr. Atkins <i>et al.</i> peaks (Feb) ¹⁶⁵³	2004
5 th World Potato Congress is held in Kunming, Yunnan Province, China (24-30 Mar) ¹⁶⁵⁴	2004
Sweden approves GM potato for starch production for paper industry, but not human consumption (Apr) ¹⁶⁵⁵	2004
Idaho potato growers form cooperative: United Fresh Potato Growers of Idaho (future UPGA) (Nov) ¹⁶	⁵⁵⁶ 2004
WPVGA forms 'Powered by Potatoes' triathlon team to promote potatoes 1657	2004
NYS DAM awards grant to Steuben Co. for unique packaging for Keuka Gold & Reba variety potatoes 1658	2004
J.R. Simplot Co. introduces Infinity Fry [™] , a zero-grams trans-fat frozen French fry (17 May) ¹⁶⁵⁹	2004
P.A.W. Martin et al. (ARS) identify <i>Chromobacterium</i> as pathogen of CPB ¹⁶⁶⁰	2004
Center for Science in the Public Interest (CSPI) petitions FDA to ban trans-fats in deep-fried foods (May) ¹⁶⁶¹	2004
Univ. Florida & HZPC, a Dutch seed supplier, promote a low carbohydrate potato, SunLite (25 May) 1662	2004
NYS potato growers plant 19,885 acres of potatoes, lowest since 1915 1663	2004
Golden nematode infestation is discovered near Port Byron, Cayuga County, New York (9 Jun) ¹⁶⁶⁴	2004
USDA, under PACA, declares batter-coated, frozen French fries to be 'fresh' vegetables (15 Jun) ¹⁶⁶⁵	2004
NGI forms PGSC to elucidate the complete DNA sequence of potato genome (840 Mb) by 2010 ¹⁶⁶⁶	2004
J.B. Ristaino identifies <i>P. infestans</i> haplotype Ia, distinct from US-1, as cause of late blight in Irish famine ¹⁶⁶⁷	
K.J. May/J.B. Ristaino propose origin of <i>P. infestans</i> in S. America, not Mexico, implying two divergent linear	ages 1668
	2004
Tri-State Potato Variety Development Program releases late-blight resistant, long-white variety, Defender 1669	2004
4 th International Potato Exhibition is held at Aisne, France (1-2 Sep) ¹⁶⁷⁰	2004
Frito-Lay renames its Wow! line of Ruffles [™] and Lay's potato chips as 'Light' (Sep) ¹⁶⁷¹	2004
McDonald's phases out Supersize drink and French fry options after criticism regarding health and obesity 1672	
Potato World, a museum and showcase for potato industry, opens at Florenceville, New Brunswick (Sep) ¹⁶⁷³	2004
Utz Quality Foods rules Baltimore-Wash. market, only major chip market not dominated by Frito-Lay ¹⁶⁷⁴	2004
U.S. Russet Burbank acreage declines 20% in 5 years as newer varieties take increased market share 1675	2004
Thieves steal giant potato sculpture from top of 62 foot tower, North Hennepin, MN (Oct) ¹⁶⁷⁶	2004
R.C. Lindsay & S. Jang file patent to lower acrylamide in French fries and potato chips (11 Nov) ¹⁶⁷⁷	2004
Stolen potato sculpture is found, abandoned in a MN park, with some damage to the gold leaf (17 Dec) ¹⁶⁷⁸	2004
New York potato farmers harvest 19,200 acres of potatoes at 270 cwt/acre ¹⁶⁷⁹	2004
Production value of hay crops in Idaho surpasses potatoes \$557 million to \$554 million ¹⁶⁸⁰	2004
J.R. Simplot donates his hilltop mansion to the state of Idaho for its governor's residence (21 Dec) ¹⁶⁸¹	2004
Hasbro, Inc. introduces Darth Tater, a new Mr. Potato Head figure (Jan) ¹⁶⁸²	2005
Harvard & Swedish scientists find acrylamide in coffee & fried potatoes does not raise breast cancer risk 1683	2005
Jays Potato Chips relabels its chips as 'no trans fats' even though its chips never contained trans-fats 1684	2005
United Potato Growers of America cooperative is formed to balance potato supply with demand (9 Mar) ¹⁶⁸⁵	2005
Mr. Potato Head adopts healthy lifestyle to become fit and strong; USPB hires him as 'spokespud' (Mar) 1686	2005
California's OEHHA proposes warning labels for foods containing acrylamides (Apr) ¹⁶⁸⁷	2005
New York seed growers plant fifty-six varieties of certified/foundation seed comprising 786 acres ¹⁶⁸⁸	2005
British potato farmers protest Parliament to take 'couch potato' from Oxford English Dictionary (20 Jun) ¹⁶⁸⁹	2005
AMPCO Distribution Services Mgmt, Riverhead, LI, partners with CSX to form Railex ¹⁶⁹⁰	2005
Zebra chip disease is causing significant economic damage to potato industy in Texas ¹⁶⁹¹	2005
USDA ARS and others begin investigation of zebra chip disease in Texas at request of FritoLay ¹⁶⁹²	2005
NYS notate growers plant 20 500 acres of potatoes for fall harvest; harvest is forecast at 20 100 acres ¹⁶⁹³	2005

TerraMarc Industries, Inc. sells Mayo Manufacturing and Harriston Industries to their employees 1694	2005
U.S. potato growers plant 1.11 million acres of potatoes, lowest (four season total) since 1866 (Jul) ¹⁶⁹⁵	2005
McDonald's signs world-wide marketing agreement with DreamWorks Animation (Jul) ¹⁶⁹⁶	2005
Special bags identifying Reba and Keuka Gold potatoes are unveiled in Steuben Co., NY markets (Jul) 1697	2005
Drought occurs in central New York, water conservation measures are implemented in Ilion (Aug) ¹⁶⁹⁸	2005
Atkins Nutritionals files for Chap. 11 reorg. with \$300 million in debt (1 Aug) ¹⁶⁹⁹	2005
U. Hils/L. Pieterse pub. World Catalogue of Potato Varieties, 3 rd ed., with more than 4000 varieties (Aug) ¹⁷⁰⁰	2005
Potato tuberworm (PTW) moth is found in southwestern Idaho (26 Aug) ¹⁷⁰¹	2005
California AG files suit to force acrylamide warning labels on potato chips and French fries (26 Aug) ¹⁷⁰²	2005
Residents of Grand Forks, ND eat 4,518 lbs of French fries in a single serving for world record (15 Sep) ¹⁷⁰³	2005
Maine amends rules governing certification of seed potatoes to eliminate Generation 4 starting 2007 ¹⁷⁰⁴	2005
Record setting October rains in Northeast make potato harvest long and difficult 1705	2005
The <i>Healthy</i> Mr. Potato Head balloon debuts in the Macy's Thanksgiving Day Parade at NYC ¹⁷⁰⁶	2005
Abnormal rainfall during season in Tasmania causes potato shortages in supermarkets (Nov) ¹⁷⁰⁷	2005
United Nations (UN) declares 2008 as the International Year of the Potato (22 Dec) ¹⁷⁰⁸	2005
Over half of all McDonald's U.S. frozen French fries are supplied by J.R. Simplot Co. 1709	2005
Export of U.S. potatoes and potato products reaches 52,762,181 cwt. 1710	2005-06
Frito-Lay is notified of CSPI lawsuit for marketing 'Light' potato chips without olestra labeling 1711	2006
Hinerwadel's files suit on Rapasadi & Sons for salt potato counterfeiting & trademark infringement 1712	2006
United Potato Growers of Canada is formed as 'sister' organization of UPGA (15 Feb) ¹⁷¹³	2006
After 25 yrs of discussion, Japan lifts import ban & authorizes limited import of U.S. potatoes (Feb) ¹⁷¹⁴	2006
North Dakota settles suit for \$600K after certifying Norland Red Strain 72 as Norland Red (16 Feb) ¹⁷¹⁵	2006
Homer Simpson of "The Simpsons" TV show displays his tattoo 'Eat Maine Potatoes' as a reminder (Feb) 1716	
J.R. Simplot Co.'s food unit broadens focus to include low-fat, fresh and natural foods 1717	2006
PGSC selects RH89-039-16 (RH), a diploid, heterozygous potato variety to begin sequencing the genome ¹⁷¹⁸	2006
Netherlands funds PGSC to begin sequencing chromosome I of potato genome at WUR (31 Mar) ¹⁷¹⁹	2006
Under enormous pressure California OEHHA halts planned labels for acrylamide-containing foods (3 Apr) ¹⁷²⁰	
C&C announces sale of Tayto (Apr) ¹⁷²¹	2006
Canada, Korea, Mexico ban Idaho potatoes and soils after PCN is found at Idaho grading plant (20 Apr) ¹⁷²²	2006
Japan re-imposes ban on U.S. potato imports after PCN discovery in Idaho (21 Apr) ¹⁷²³	2006
Frito-Lay, Inc. lowers saturated fats in Lay's and Ruffles potato chips 50% with switch to sunflower oil 1724	2006
NYS potato farmers plant 20,500 a., harvest 20,100 a. of potatoes; production is 5,226,000 cwt. 1725	2006
NYS DAM gives grant to Steuben County, NY to develop special packaging for Andover variety potatoes 1726	2006
NYS seed potato growers enter 867 acres for certification 1727	2006
Carlos Ochoa & Alberto Salas receive Order of Merit of the Diplomatic Service of Peru (5 Jun) ¹⁷²⁸	2006
USDA and APHIS find PCN in potato fields in Bingham County, ID (13 and 19 Jun) ¹⁷²⁹	2006
Frito-Lay's Kirkwood, NY, plant is closed for 5 days due to flooding of Susquehanna River ¹⁷³⁰	2006
European potato futures double under stress of extreme hot weather and drought 1731	2006
W.Va's Mister Bee potato chip sales drop 6% at change to cotton-seed oil; old trans-fat recipe is restored 1732	2006
Potato psyllids (<i>Bactericera cockerelli</i> (Sulc)) are implicated as vectors in zebra chip disease in Texas ¹⁷³³	2006
Wendy's International Inc. eliminates 95% of trans-fat from its menu offerings (Aug) ¹⁷³⁴	2006
6 th World Potato Congress at Boise, ID, first in N. America, brings world's experts together (20-26 Aug) ¹⁷³⁵	2006
Walt Disney Co. and McDonald's end 10-year old marketing agreement 1736	2006
Kettle Foods builds 'green' (energy-efficient) potato chip plant at Beloit, WI ¹⁷³⁷	2006
Lion Capital (UK) buys Kettle Foods, Salem, OR (Aug) ¹⁷³⁸	2006
Golden nematode is found on farm east of Montreal; US restricts Quebec agricultural products (15 Aug) ¹⁷³⁹	2006
W. Bengal, India, restricts PepsiCo from planting potato-wart susceptible Atlantic variety for chips (Aug) ¹⁷⁴⁰	2006
Hinerwadel's and Rapasadi & Sons settle suit over counterfeit potatoes & trademark infringement (Aug) ¹⁷⁴¹	2006
CCE's FMNP and Pride of New York host best-tasting potato contests at NY farmers' markets (Aug-Sep) ¹⁷⁴²	2006
USDA—APHIS est. PCN quarantine area of 10,000 a. (3,500 a. of potatoes) at Shelley, ID (3 Sep) ¹⁷⁴³	2006
Railex distribution centers at Walla Walla, WA & Rotterdam, NY open for potatoes, apples, onions 1744	2006
Harriston Industries and Mayo Manufacturing merge to become Harriston-Mayo ¹⁷⁴⁵	2006
Traitiston modernes and mayo mandractaring merge to occome traitiston-mayo	2000

Stray potato chip bag attracts 3 yro girl who falls 75 feet off hiking trail; would-be rescuer is killed, Provo, UT	¹⁷⁴⁶ 2006
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Penn State & Utz Quality Foods select Adirondack Blue for its Nittany Lions blue and white potato chips ¹⁷⁵²	2006
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UPGA est. data-sharing agreements with Potato Marketing Assoc. of N. Am. and United Potato Growers	
Canada	, 01
17.0	2006
	2006
T. Osumi <i>et al.</i> , USDA, receive US Patent for late blight resistence gene from <i>S. bulbocastanum</i> (12 Dec) ¹⁷⁶⁵	2006
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1001	2007
Popchips [™] an all-natural line of popped potato chips are launched at Natural Foods Expo (Mar) ¹⁷⁷²	2007
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USDA Eastern Regional Research Center, Wyndmoor lab becomes National Historic Chemical Landmark 1779	2007
	2007
USDA Census of Agriculture reports 15,014 potato producing farms in U.S. 1781	2007
	2007
Census of Agric. reports 16 potato farms growing 617 a. in Franklin Co., NY, all fresh market or seed ¹⁷⁸³	2007
	2007

One way to differentiate yourself from Idaho Russets (Russet Burbank) is to grow different potatoes, and there are, for a lot of purposes, much better eating than Idaho potatoes.

John Eveland, Gathering Together Farm Corvallis, OR¹⁷⁸⁵

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D.M. Spooner et al. finds potatoes from <u>both</u> Chile and the Andes were in Europe long before 1845 (May)<sup>1786</sup> 2007 British VAT & Duties Tribunal rules that P&G's Pringles<sup>®</sup> are potato chips and subject to VAT (23 May)<sup>1787</sup> 2007 NYS seed potato growers enter 905 acres for certification<sup>1788</sup> 2007 Univ. of Maine releases report on economics of making plastics (polylactic acid) from potato starch (Jun)<sup>1789</sup> 2007 Zebra chip disease is observed in Neb., Colo., Kansas, New Mex., Ariz., Nev., Calif. 1790 2007
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Scientists at U. of Guelph, Canada, find enzyme, pyruvate decarboxylase, to make light-colored chips ¹⁷⁹¹	2007
USDA adds \$500,000 funding for PCN surveillance and eradication program in Idaho (9 Jul) ¹⁷⁹²	2007
P.A.W. Martin <i>et al.</i> , ARS, patent <i>C. subtsugae</i> sp. <i>nov</i> , metabolites & supernatants as insecticide (17 Jul) ¹⁷⁹³	2007
EU in 2 nd vote denies BASF approval to grow Amflora potato solely for industrial starch purposes (Jul) ¹⁷⁹⁴	2007
S.C. Johnson & Son, Inc. markets Ziploc [®] Zip 'n Steam [™] Microwave Steam Cooking Bags (11 Aug) ¹⁷⁹⁵	2007
Harvard scientists find no correlation between dietary acrylamide and breast cancer in women (21 Aug) ¹⁷⁹⁶	2007
Steuben County growers offer Andover variety potatoes for sale in Andover brand bags (Aug) ¹⁷⁹⁷	2007
Kettle Brand becomes a gluten-free producer of potato chips (Aug) ¹⁷⁹⁸	2007
Wisconsin promotes its potatoes as preferred choice at every dinner table east of Mississippi River (Aug) ¹⁷⁹⁹	2007
Kroger's, Westerville, OH inaugurates The Chippery to make on-the-spot-customized potato chips (Oct) 1800	2007
PCN is identified on two Edmonton, AB, seed potato farms; US halts import of Alberta potatoes (Oct) ¹⁸⁰¹	2007
Gary Johnston of Univ. of Guelph, breeder of Yukon Gold potato variety, dies (9 Oct) ¹⁸⁰²	2007
Wageningen Univ. (Netherlands) announces online potato pedigree resource for researchers 12 Oct) 1803	2007
On World Food Day, the UN launches its International Year of the Potato (18 Oct) ¹⁸⁰⁴	2007
New Ice, Inc., Durango, CO, manufactures compostable packaging made from potato starch (7 Nov) ¹⁸⁰⁵	2007
ARS licenses commercial use of bacterium, <i>C. subtsugae</i> spp. <i>nov</i> , with toxicity to immature CPB ¹⁸⁰⁶	2007
USDA revises WIC nutrition program to include fresh fruits and vegetables, but bans fresh potatoes 1807	2007
Certified seed acreage of French Fingerling variety grows 91% in two years, mostly in Wisconsin 1808	2007

The top twelve varieties (by acreage) of certified/foundation seed potatoes grown in the U.S. are Russet Burbank, Norland (including all Norland, Dark Red Norland and Red Norland strains), Ranger Russet, Russet Norkotah selections (includes seven line selections), Russet Norkotah, Atlantic, Shepody, Yukon Gold, Red LaSoda, Alturas, Rio Grande Russet, French Fingerling.

Data from Rob Davidson, Colorado State University, Nov. 2007

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D.M. Spooner, USDA ARS, suggests DNA molecular markers be used to classify potato taxonomy 1809
                                                                                                                    2007
USDA excludes fresh potatoes from expanded Women, Infants and Children (WIC) program (Dec) 1810
                                                                                                                    2007
Jays Foods files bankruptcy (11 Oct), is bought by Snyders of Hanover; Chicago chip plant closes (5 Dec) 1811
                                                                                                                   2007
Ireland has 600 potato farms, half that of 10 yrs earlier; consumption of potatoes falls 14% in one year 1812
                                                                                                                    2007
Revised US FDA potato nutritional labeling goes into effect (1 Jan)<sup>1813</sup>
                                                                                                                    2008
NZ scientists pub. Candidatus Liberibacter as causal agent of a new tomato-pepper disease (4 Jun) 1814
                                                                                                                    2008
NZ potato breeder connects symptoms in potatoes re. Candidatus Liberibacter and potato psyllids 1815
                                                                                                                    2008
Oregon landslide postpones extra Railex train between Wallua, WA and Rotterdam, NY (19 Jan)<sup>1816</sup>
                                                                                                                    2008
Long Island Spirits, Inc. begins making LiV<sup>™</sup> vodka with 9000 lbs of potatoes in each batch (6 Mar)<sup>1817</sup>
                                                                                                                    2008
EPA Science Advisory Board sets safe exposure to acrylamide at 3 μg/day instead of 0.2 μg/day (Mar) <sup>1818</sup>
                                                                                                                    2008
With high wheat prices, Peru's military, prisons, schools, Plaza Vea stores offer potato bread instead 1819
                                                                                                                    2008
USDA AMS issues revised United States Standards for Grades of Potatoes (21 Apr)<sup>1820</sup>
                                                                                                                    2008
John Reader pub. Propitious Esculent: The Potato in World History (May) 1821
                                                                                                                    2008
Svalbard Global Seed Vault (Doomsday Vault) opens with potato seeds from CIP, Lima, Peru (26 Feb)<sup>1822</sup>
                                                                                                                    2008
John Richard (J.R.) Simplot dies (25 May)<sup>1823</sup>
                                                                                                                    2008
Fredric J. Baur, organic chemist and designer of the Pringles<sup>®</sup> container, dies and is buried in one (May)<sup>1824</sup>
                                                                                                                    2008
Chile disputes D.M. Spooner's research, arguing that its Chiloe Island was the origin of the potato 1825
                                                                                                                    2008
PopChips<sup>TM</sup> wins Health magazine's "America's Healthiest Food Award" (11 Jun)<sup>1826</sup>
                                                                                                                    2008
Red River Valley Fresh Potato Growers Cooperative joins UPGA as its tenth member cooperative 1827
                                                                                                                    2008
ESPG promotes Virginia potatoes at New York State's Empire State Farm Days 1828
                                                                                                                    2008
USDA-APHIS issues "Golden Nematode Program Manual" (Jul) 1829
                                                                                                                   2008
British court rules in P&G lawsuit: Pringles® are not potato chips and are exempt from VAT (4 Jul)<sup>1830</sup>
                                                                                                                   2008
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Pringles don't look like a chip, don't feel like a chip, and don't taste like a chip. the snack isn't made like a chip since it is cooked from baked dough, not potato slices.

Potato chips 'give a sharply crunchy sensation under the tooth and have to be broken down into jagged pieces when chewed'. It is totally different with a Pringle, indeed a Pringle is designed to melt down on the tongue."

P&G lawyers at May hearing Lumley, James, "Pringles Are Not Potato Chips, Judge Says in Tax Case (Update1)," (4 Jul '08). Bloomberg.com.

BASF Plant Science sues Euro. Court of First Instance for not acting on Amflora potato variety (24 Jul) ¹⁸³¹	2008
McCain Foods Ltd. opens refurbished and expanded potato processing plant at Florenceville, NB, Canada 1832	2008
Allison Hansen (UCR) discovers <i>Candidatus</i> Liberibacter <i>psyllaurous</i> as cause of psyllid yellows (11 Aug) ¹⁸³⁵	2008
Spudnik introduces raised-bed potato planters ¹⁸³⁴	2008
Japan begins marketing potato chips according to its carbon footprint (19 Aug) ¹⁸³⁵	2008
PGSC begins sequencing doubled monoploid DM1-3 516R44 (DM) to complement original diploid line 1836	2008
Railex introduces weekly refrigerated produce train from West Coast (California) to Rotterdam, NY (Oct) 1837	2008
P&G initiates online 'Can Creator' program for consumers to design Pringles [®] can labels (Oct) ¹⁸³⁸	2008
Dirk E. Burhans publishes Crunch! A History of the Great American Potato Chip (Nov) ¹⁸³⁹	2008
Three shareholder groups petition McDonald's to reduce pesticides in its supply chain (Dec) 1840	2008
NYS potato harvest yields 320 cwt./a., the highest ever in NYS (Nov) ¹⁸⁴¹	2008
For 1st time since records are kept, US potato prices remain high for 4 consecutive years Jul '05-Dec '08 ¹⁸⁴²	2008
Popchips TM begins expansion to markets in eastern U.S. (Jan) ¹⁸⁴³	2009
Jim Tucker offers 3-credit course "The Humble Spud" at Paul Smith's College (Jan) ¹⁸⁴⁴	2009
Lamb Weston (Con-Agra Foods) ends long-standing agreements with independent potato growers (Feb) ¹⁸⁴⁵ Glazier Packing Co. introduces Sustain Brand to the Adirondacks at NCCC food show (27 Feb) ¹⁸⁴⁶	2009 2009
McDonald's agrees to take preliminary steps to reduce pesticide use by its potato suppliers (31 Mar) ¹⁸⁴⁷	2009
The potato is designated a 'food hero' at World Potato Congress in Christchurch, NZ (31 Mar) ¹⁸⁴⁸	2009
Railex begins operating 2 nd weekly produce train between California (Delano) and Rotterdam, NY (3 May) ¹⁸⁴⁹	
Railex begins operating 2 weekly froduce train between Camorina (Berano) and Rotterdam, NY ¹⁸⁵⁰	2009
British Supreme Court of Judicature says P&G's Pringles® are potato chips and subject to VAT (20 May) ¹⁸⁵¹	2009
Mexico buys \$83 M worth of frozen potato products annually from U.S. (mostly from Washington state) ¹⁸⁵²	2009
Popchips TM introduces sour cream & onion and cheddar flavored PopChips (3 Jun) ¹⁸⁵³	2009
M. McGrath reports late-blight infected commercial fields on Long Island (23 Jun) ¹⁸⁵⁴	2009
Cornell plant pathologist K. Perry finds late blight-infected tomato plants at Lowe's store, Ithaca (23 Jun) ¹⁸⁵⁵	2009
Late blight-infected tomato plants are found in big-box stores MA, ME, NY, NH, OH and PA (23-24 Jun) ¹⁸⁵⁶	2009
Late blight is found in four potato fields in Monteregie area, south of Montreal, Quebec (29 Jun) ¹⁸⁵⁷	2009
Late blight is found in two New York potato fields, Genesee and Wayne Counties (30 Jun) ¹⁸⁵⁸	2009
Saratoga Specialties Co. is est. at Saratoga Springs to market Moon Brand Saratoga Chips [™] potato chips ¹⁸⁵⁹	2009
Bonnie Plants, AL-based plant wholesaler, recalls tomato plants from MA, ME, NY, NH, CT, RI (1 Jul) 1860	2009
Late blight is reported in commercial potato fields near Malone, Franklin County, NY (14 Jul) ¹⁸⁶¹	2009
Late blight is found in SC, NC, VA, WV, OH, MD, DE, NJ, PA, NY, CT, RI, MA, NH, VT, MA (Jul) ¹⁸⁶²	2009
Previously unidentified late blight strain emerges from tomato transplants 1863	2009
Oversight of Maine Seed Potato Board is transferred from Maine Dept. of Agric. to the Maine Potato Board 186	
NYS Appellate Court rules Adirondack farm structures do not need APA permits (16 Jul) ¹⁸⁶⁵	2009
NY Gov. Paterson asks federal aid for 17-county crop losses from late blight & cool, wet weather (27 Jul) 1867	2009
B. Huffaker says N. American potato growers plant 1.439M a., 500 a. above lowest ever reported (27 Jul) ¹⁸⁶⁷	2009
NASS reports 17,100 acres of potatoes planted in New York State, 5% less than 2008 (Jul) ¹⁸⁶⁸	2009
Popchips TM are introduced in Canada (25 Aug) ¹⁸⁶⁹ ABS exion title identify hostorium. Canadi datus Liberibector, as cause of gehra chin disease (Aug) ¹⁸⁷⁰	2009 2009
ARS scientists identify bacterium, <i>Candidatus</i> Liberibacter, as cause of zebra chip disease (Aug) ¹⁸⁷⁰ Cornell Nutrient Analysis Laboratory (CNAL), the gold standard for NYS soil testing, is closed (16 Aug) ¹⁸⁷¹	2009
Agro-One, a part of Dairy One, takes over soil testing for NYS farmers and homeowners (17 Aug) ¹⁸⁷²	2009
Carroll Lincoln Haines of Haines Equipment Co. dies (4 Sep) ¹⁸⁷³	2009
USPB reports record export of potatoes and potato products at 53.8 M cwt (17 Sep) ¹⁸⁷⁴	2009
PGSC releases first draft sequence of the potato genome (22 Sep) ¹⁸⁷⁵	2009
(22 sep)	_007

1976	
Saratoga Specialties Co. receives FDA approval for NFS to extend shelf life of its potato chips (23 Sep) ¹⁸⁷⁶	2009
USDA launches 'Know your farmer; Know your food' program to promote local/regional food (24 Sep) ¹⁸⁷⁷	2009
Snyder's of Hanover announces acquisition of Utz Quality Foods, Inc. (Oct) ¹⁸⁷⁸	2009
Utz Quality Foods, Inc. backs out of sale to Snyder's of Hanover (Nov) ¹⁸⁷⁹	2009
Saratoga Specialties Co.'s Moon Brand Saratoga Chips [™] are reviewed in <i>The Nibble</i> (2 Dec) ¹⁸⁸⁰	2009
Saratoga Specialties Co.'s Moon Brand Saratoga Chips [™] are featured on Rachael Ray's TV show (7 Dec) ¹⁸⁸¹	2009
Stellar Idaho growing season with high yields drives Russet Burbank prices below production costs (Nov) ¹⁸⁸²	2009
PepsiCo opens research lab to develop healthier foods & beverages near Yale, New Haven, CT (Dec) 1883	2009
United States Potato Board unveils its <i>Potato Nutrition Handbook</i> at the 2010 Potato Expo (5-7 Jan) ¹⁸⁸⁴	2010
Sustain Brand Adirondack begins making potato chips at Malone, NY using local potatoes (Feb) 1885	2010
Diamond Foods (CA) buys Kettle Foods (Salem, OR; Beloit, WI) from Lion Capital (Feb) ¹⁸⁸⁶	2012
European Union approves cultivation of BASF's GM potato cultivar Amflora (2 Mar) ¹⁸⁸⁷	2010
Saratoga Specialties begins shipping Moon Brand Saratoga Chips [™] to troops in Iraq/Afghanistan (Feb) ¹⁸⁸⁸	2010
Lake Placid Spirits issues 46 Peaks Vodka using Adirondack local water, potatoes & filter media (Apr) ¹⁸⁸⁹	2010
BASF announces agreements to grow GM cultivar Amflora in Germany, Sweden, Czech Rep. (Apr) 1890	2010
NYS Dep. of Agr. announces strategy to detect & eradicate late blight at retail level (29 Apr) 1891	2010
J.R. Simplot Co. scientists pub. nutritional advantage of ring fries over french fries (3 May) 1892	2010
Arizona H.S. students set Guinness world record by launching 17 potatoes from spudgun in 3 min (May) 1893	2010
USDA ARS scientists identify S. verrucosum as source of resistance to late blight (Jun) ¹⁸⁹⁴	2010
New York seed growers plant seventy varieties of certified/foundation seed comprising 808 acres 1895	2010
Brigiotta's Farmland Produce & Garden Center, Jamestown, NY, sues UPGA for fixing potato prices (18 Jun)	
Todd Simon <i>et al.</i> sue UPGA in Idaho federal court for fixing potato prices as per Brigiotta (23 Jun) ¹⁸⁹⁷	2010
John Benbenek finds 34 inch long curly-fry in his order at Taffy's Hot Dog Stand, Buffalo, NY (Jul) ¹⁸⁹⁸	2010
W.H. Bohl and S.B. Johnson pub. 3 rd ed. of <i>Commercial Potato Production in North America</i> for PAA ¹⁸⁹⁹	2010
Snyder's of Hanover merges with Lance, Inc. to become Snyder's-Lance (22 Jul) ¹⁹⁰⁰	2010
NYS Senate defeats legislation giving farmworkers overtime pay and other workplace rights (3 Aug) ¹⁹⁰¹	2010
USDA NASS reports potato acreage planted is down 4% nationally and 8% in Pacific NW (Aug) ¹⁹⁰²	2010
Dr. K. Hironaka, Obihiro Univ., increases potato tuber antioxidants w/ ultrasound or electricity (22 Aug) ¹⁹⁰³	2010
Chris Verschueren produces 15,000 orders of french fries in 83 hrs for world record (10 Sep) 1904	2010
NYS DAM cuts back farm products grading program (Sep) ¹⁹⁰⁵	2010
Frito Lay stops use of 'green', compostable PLA film packaging for SunChips, for being too noisy (6 Oct) ¹⁹⁰⁶	2010
PepsiCo sets 5-year target to halve water usage and carbon emissions in UK potato production (Oct) 1907	2010
Chris Voigt, WSPC, eats nothing but 20 potatoes, olive/canola oil & flavorings for 60 days (Oct-Nov) ¹⁹⁰⁸	2010
USDA again bans fresh potatoes from WIC nutrition program	2010
Wendy's launches redesigned French fries: natural-cut (skin-on) with sea salt (10 Nov) ¹⁹⁰⁹	2010
NYS potato harvest from 16,100 a. is projected at 5.07 million cwt., up 2% from 2009 (11 Nov) ¹⁹¹⁰	2010
NYS potato harvest averages yields of 315 cwt./a., second highest ever for New York (11 Nov) ¹⁹¹¹	2010
Pres. Obama signs FDA Food Modernization Act amending Federal Food, Drug and Cosmetic Act (4 Jan) ¹⁹¹²	2011
USDA proposes reducing use of potatoes in school breakfast and lunch programs (13 Jan) ¹⁹¹³	2011
U.S. potato consumption and consumer attitudes return to 'pre-Atkins' levels (Jan) ¹⁹¹⁴	2011
W. De Jong, Cornell Univ./Uihlein, release chipping variety Lamoka (NY120 x NY115) (Feb) ¹⁹¹⁵	2011
W. De Jong, Cornell Univ./Uihlein, release chipping variety Waneta (Marcy x NY115) (Feb) ¹⁹¹⁶	2011
PCN is discovered in 164 a. potato field, Bonneville County, ID, (18 Mar) ¹⁹¹⁷	2011
H. De Jong, J.B. Sieczka, W. De Jong pub. <i>The Complete Book of Potatoes</i> (23 Mar) ¹⁹¹⁸	2011
USPB surveys reveal that consumers cannot differentiate between various potato types ¹⁹¹⁹	2011
Railex handles 150 railcars of produce, beer, wine and other goods per week at Rotterdam, NY (Apr) ¹⁹²⁰	2011
USDA proposes to limit starchy vegetables, incl. potatoes, from school lunches and breakfasts (Apr) ¹⁹²¹	2011
Wallace McCain, co-founder of McCain Foods, Ltd, dies (14 May) ¹⁹²²	2011
Sen. S. Collins, Maine, begins fight to restore potatoes in school lunches and breakfasts (17 May) ¹⁹²³	2011
Exceptionally wet weather delays planting in New York (and US Northeast) (May-Jun) ¹⁹²⁴	2011
USPB debuts video series "Potato Types and Tips" to increase sales by potato type (12 May) ¹⁹²⁵	2011
U.S. Supreme Court denies all appeals for use of carbofuran on potatoes (31 May) ¹⁹²⁶	2011
5.5. Supreme Court delines an appeals for also of encotation on positions (51 may)	_011

USDA AMS revises "U.S. Standards for Grades of Potatoes" (3 Jun) ¹⁹²⁷	2011
RailexUSA adds a third weekly refrigerated produce train from Delano, CA, to Rotterdam, NY ¹⁹²⁸	2011
Specialty varieties of potato are increasing average market share of 2-3 percent annually 1929	2011
Russet varieties of potato are losing market share at rate of 0.5 to 1 percent annually 1930	2011
UW-Madison scientists develop low-acrylamide potato lines by suppressing the VInv gene (14 Jun) ¹⁹³¹	2011
Late blight is reported in tomatoes and potatoes, Suffolk County, LI (17 Jun) ¹⁹³²	2011
Harvard scientists pub. 20-year study: French-fried potatoes & potato chips are fattening (23 Jun) ¹⁹³³	2011

"Duh! . . . regularly eating any kind of food irresponsibly can lead to weight gain and health problems."

C.L. Otter, Idaho Governor, in defense of potatoes 1934

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Survey of kettle cooked chips by KitchenDaily finds Lays Kettle Cooked Original<sup>™</sup> taste best (6 Jul)<sup>1935</sup>
                                                                                                                    2011
PGSC pub. analysis of more than 39,000 genes in the potato genome in Nature (10 Jul)<sup>1936</sup>
                                                                                                                    2011
NY growers plant 16,500 acres of potatoes, up 2% from 2010 (Jul) 1937
                                                                                                                    2011
Xiaohong Wang, USDA-ARS, Ithaca, creates diagnostic test to distinguish between PCN types (Aug) 1938
                                                                                                                    2011
PAA awards David Douches its Researcher of the Year honor for breeding resistant cultivars (Aug) 1939
                                                                                                                    2011
PCN is discovered in potato field near Shelley, ID (17 Aug)<sup>1940</sup>
                                                                                                                    2011
USDOL issues NPRM re. child labor rules affecting safety requirements for youth on farms (2 Sep)<sup>1941</sup>
                                                                                                                    2011
McDonald's rolls out healthier Happy Meals including smaller portions of French fries (12 Sep)<sup>15</sup>
                                                                                                                    2011
PCN is discovered in potato field near Shelley, ID (16 Sep) 1943
                                                                                                                    2011
US Senate blocks USDA limits on potatoes in school breakfast and lunch programs (20 Oct) 1944
                                                                                                                    2011
USDA NASS eliminates dozens of statistical reports due to budgetary constraints (Nov)<sup>1945</sup>
                                                                                                                    2011
P. Glazebrook, Nottinghamshire, UK, grows single 11 lb. Condor variety potato in his garden 1946
                                                                                                                    2011
TS Irene & TS Lee (Aug/Sep) destroy potato crops in Schoharie and Washington Cos., NY (Aug/Sep) 1947
                                                                                                                    2011
TS Irene & TS Lee (Aug/Sep) and wet weather in Oct result in extremely difficult NYS potato harvest 1948
                                                                                                                    2011
NY growers harvest 16,200 a., up 1% (200 a.) from 2010, but abandoning 300 a. in field 1949
                                                                                                                    2011
Adverse weather brings in record low NYS potato harvest at 4.05 million cwt, down 21% from 2010<sup>1950</sup>
                                                                                                                    2011
BASF applies for EU approval of its late blight resistant transgenic cultivar Fortuna 1951
                                                                                                                    2011
NYS potato harvest averages yields of 250 cwt./a., down 70 cwt./a. from 2010<sup>1952</sup>
                                                                                                                    2011
Potato chip company, Sustain Brand Adirondack, Malone, NY, ceases operation (Nov) 1953
                                                                                                                    2011
U.S. farmers suffer more crop losses ($9 billion) in 2011 than any other year in recorded history 1954
                                                                                                                    2011
Railex, Rotterdam, NY, grows revenue to $155 million since its inception in 2006<sup>1955</sup>
                                                                                                                    2011
Idaho & Washington produce 58% of US potato production, Oregon is 3<sup>rd</sup> with 6% of US production 1956
                                                                                                                    2011
US Dist Court rejects UPGA motion to dismiss Brigiotta's Farmland Produce & Garden Center lawsuit (2 Dec) 1957
                                                                                                                    2011
USPB releases revised Potato Nutriton Handbook (Jan)<sup>1958</sup>
                                                                                                                    2012
USDA rolls out new rules for use of potatoes in school breakfast and lunch programs (25 Jan)<sup>1959</sup>
                                                                                                                    2012
USDOL re-proposes 'parental exemption' from new child-labor rules after huge public outcry (1 Feb) 1960
                                                                                                                    2012
D. Rehberg (R-MT) blasts USDOL for ill-conceived rules proposed for 'child labor in agriculture' (2 Feb)<sup>1961</sup>
                                                                                                                    2012
PCN is now identified in 17 infested fields, comprising 1916 a., all within 5-mi. radius in Idaho (Feb)<sup>1962</sup>
                                                                                                                    2012
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It remains somewhat puzzling to this editor that since the discovery of PCN (*Globodera pallida*) in working potato fields in Idaho that Idaho potato growers and the USDA have failed to quarantine these fields. Indeed they have failed utterly to institute a comprehensive plan to deal with PCN (*Globodera pallida*) since its discovery to prevent its spread. Furthermore, they have not consulted with, indeed, they would seem to have purposefully avoided consulting with, the world's foremost authority on potato nematodes, Cornell University, which has kept Golden nematode (*Globodera rostochiensis*) quarantined to a tiny few counties of NYS since its discovery on Long Island in 1940. Instead, Idaho potato growers and the USDA seem intent on fumigating the soil on those properties where PCN (*Globodera pallida*) has been found. While this editor has no beef with soil fumigation, he does

wonder whether this is the most effective remedy to contain PCN, especially since the problem seems to be spreading ever since its discovery in 2006 and despite these fumigation efforts.

The Editor

All Star Manufacturing & Design LLC takes over Better Built Manufacturing Inc. at Orem, UT 1963	2012
US House of Representatives hearing on the US Farm Bill is held at Saranac Lake, NY (9 Mar) ¹⁹⁶⁴	2012
NYS seed grower, Ralph Child, Childstock Farms, Malone, NY, testifies at US Farm Bill hearing (9 Mar) ¹⁹⁶⁵	2012
Budget cuts force USDA ARS to close 12 research service labs to save \$40M (19 Mar) ¹⁹⁶⁶	2012
J. Thune/J. Moran bring introduce bill in US Senate to stop USDOL child labor rule changes (21 Mar) ¹⁹⁶⁷	2012
Under intense pressure, USDOL abandons proposed NPRM re. child labor rule changes (27 Apr) ¹⁹⁶⁸	2012
M. Greenstone (USDA ARS) pub. use of DNA barcoding to develop biocontrols for CPB (Apr) 1969	2012
UPGA and Potato Marketing Assoc. of NA strive to prevent overproduction among growers (spring)	2012
USPB asks Ardeo-Bardeo, Washington DC restaurant, to make 7-course, 7-variety potato-centric meal (Jul) 1970	02012
CookingLight.com BBQ side dish poll shows potato salad is America's favorite healthy side (2 Jul) ¹⁹⁷¹	2012
US growers plant approx. 1.15 million acres of potatoes despite recommendations from UPGA (Jul) ¹⁹⁷²	2012
New York potato growers plant 500 acres more than 2011; certified seed is down 10% (Jul) 1973	2012
Motion to dismiss price fixing suits against UPGA brought by Brigiotta's, Simon, et al. is dismissed (27 Jul) ¹⁹	⁷⁴ 2012
After snowless winter, hot spring, dry summer, 50.3% of US counties are declared disaster areas (1 Aug) ¹⁹⁷⁵	2012
Potato psyllid carrying <i>Candidatus</i> Liberibactor is positively identified in eight Idaho counties (Aug) ¹⁹⁷⁶	2012
Wisconsin Potato Growers Auxiliary pub. <i>Delicious Wisconsin Potato Recipes</i> (Aug) ¹⁹⁷⁷	2012
Accidental death rates in farming are 9 times higher than all other industries combined (Sep) ¹⁹⁷⁸	2012
Despite the nationwide drought and proposed UPGA curbs, U.S. fall potato crop is up 8% over 2011(Nov) ¹⁹⁷⁹	2012
New York growers harvest 16,500 acres of potatoes, up 300 acres from 2011 (Nov) ¹⁹⁸⁰	2012
USDA NASS reports 36,000 farms operating in NYS, same as in 2011, despite declining national trend 1981	2012
NYS REDCA awards Railex \$1M to expand refrigerated rail terminal for produce, Rotterdam, NY (20 Dec) ¹⁹⁸	² 2012
USPB report reports why supermarket sales of fresh potatoes is declining while household use is up ¹⁹⁸³	2013
J.R. Simplot Co. petitions USDA APHIS to deregulate 5 new transformed potato varieties (1 Mar) ¹⁹⁸⁴	2013
The Lumper potato variety is re-introduced to Ireland after 170 years' absence since the famine (11 Mar) 1985	2013
AWG files suit in Kansas against UPGA et al. for fixing potato prices in violation of antitrust laws (17 Apr) ¹⁹⁸	⁶ 2013
Scientists from UK, Germany, US analyze 170 & 120 yro dried herbaria samples of blight-killed potato plants	¹⁹⁸⁷ 2013
DNA sequencing shows extinct strain of P. infestans, HERB-1, caused Irish potato blight (famine) (28 May) ¹⁹⁶	⁸⁸ 2013
NYS seed growers enter 637 acres of seed potatoes for certification 1989	2013
AWG suit against UPGA et al. is combined w/ Brigiotta & Simon & moved to Idaho for expediency (10 Jun) ¹⁵	990 2013
U.S. House rejects Farm Bill refecting shift of population and influence from rural to urban areas (20 Jun) ¹⁹⁹¹	2013
U.S. Rep. Bill Owens visits Cornell-Uihlein Seed Farm at Lake Placid to learn about seed potatoes (24 Jun) ¹⁹⁹²	
Alan Westra, fmrly NY Seed Improvement Project, takes helm of Idaho Crop Improvement Assoc. (1 Aug) ¹⁹⁹³	2013

Other useful and interesting webpages:

http://www.cup.org/books/kiple/potatoes.htm

http://www.lgu.umd.edu/project/outline.cfm?trackID=25

http://www.lgu.umd.edu/project/outline.cfm?trackID=1379

http://radio.boisestate.edu/information/otherprojects/potato/russets.htm

http://www.uga.edu/vegetable/potato.html

http://www.ars.usda.gov/is/AR/archive/may97/potato0597.htm

http://www.foodproductdesign.com/archive/1996/1296cs.html

Questions to be answered:

Invention of various potato harvesting and handling equipment?

Potato spinner developed about 1860?

When did Cyrus McCormick invent a potato planter?

When did Richard Pease invent his potato planter?

When did Allin and William Stiggins invent potato digger in Canada?

P.D. Smith awarded patent for potato digger 1891? George Moody and Sons potato digger? Tusco potato pickers? When did the potato dibber (dibble?) come into vogue? When did the potato graip come into general usage? (Gr. Brit. And Europe) When did Joe Marshall begin the seed potato certification program in Idaho? When was the New York Certified Seed Improvement Cooperative, Inc. formed? When was the New York State Foundation Seed Stocks Cooperative, Inc. formed? When was the Yellow Finn (Niku Lapua) variety released? When did Theodore de Saussure discover the presence of soil minerals in plants? When was Double L, Inc. founded? When did Frito-Lay introduce Baked Ruffles? What was the disposition of the Frito-Lay/Proctor & Gamble lawsuit of 1995? When was the Potato Anti-Defamation League formed in Massachusetts? (late 1980's?) When was the Frozen Potato Products Institute formed? When was the world's largest Styrofoam potato created at Black Foot, ID? When did Jorge Galindo identify the second mating type A2 of late blight? When was National Potato Chip Day (14 March) created? When was National Potato Lover's Month (February) created? When was National Potato Month (September) created? When did Deere & Co. exit the potato equipment/machinery business? ¹ Abrams, Michael, "Andean crops cultivated almost 10,000 years ago," *Discover*, Jan '08, 66,-67. Dillehay, Tom D, Jack Rossen, Thomas C. Andres, David E. Williams, "Preceramic adoption of peanut, squash, and cotton in northern Peru," Science, 29 Jun '07, 316(5833): 1890-1893. ² "Early beginnings," The Potato Then & Now, Prince Edward Island on-line, 1999. Available: http://collections.ic.gc.ca/potato/history/beginnings.asp [9/9/02] Hawkes, J.G., "Introduction to the revised impression," in The History and Social Influence of the Potato by Redcliffe N. Salaman, Cambridge University Press, 1989, p. x. Abrams, Michael, "Andean crops cultivated almost 10,000 years ago," Discover, Jan '08, 66,-67. ³ "Potato history," Inventors, About.com, n.d., on-line. Available: http://inventors.about.com/gi/dynamic/offsite.htm?site=http://www.potatoes.com/general/history.cfm [14 Dec '02] "Early beginnings," The Potato Then & Now, Prince Edward Island on-line, 1999. Available: http://collections.ic.gc.ca/potato/history/beginnings.asp [9/9/02] ⁴ "History of pest management," PMRC Pest management Resource Centre, n.d., on-line. Available: http://www.pestmanagement.co.uk/culture/history.html [22 Dec '02] ⁵ "History of pest management," PMRC Pest management Resource Centre, n.d., on-line. Available: http://www.pestmanagement.co.uk/culture/history.html [22 Dec '02] ⁶ Thompson, Robert G., et al., "Phytolith evidence for twentieth century B.P. maize in northern Iroquoia," Northeast Anthropology, 2004, No. 68, pp. ⁷ "History of pest management," PMRC Pest management Resource Centre, n.d., on-line. Available: http://www.pestmanagement.co.uk/culture/history.html [22 Dec '02] 8 "History of pest management," PMRC Pest management Resource Centre, n.d., on-line. Available: http://www.pestmanagement.co.uk/culture/history.html [22 Dec '02] Yoshida, K. et al., "The rise and fall of the Phytophthora infestans lineage that triggered the Irish potato famine," eLife, 28 May 2013, pp. 8, 11. Retrieved 27 Aug '13 from http://elife.elifesciences.org/content/elife/2/e00731.full.pdf

"History of pest management," PMRC Pest management Resource Centre, n.d., on-line. Available: http://www.pestmanagement.co.uk/culture/history.html [22 Dec '02]

Hart, John P., "Chapter 7: Evolving The Three Sisters: The changing histories of maize,"xxxxx. Retrieved 4 Jul '11 from http://www.nysm.nysed.gov/staffpubs/docs/16673.pdf

12 Wilton, Dave, "Spud," 30 Mar 2007. Wordorigins.org. Retrieved 30 Jun 2011 from http://www.wordorigins.org/index.php/index/2007/03/

13 "History of pest management," PMRC Pest management Resource Centre, n.d., on-line. Available: http://www.pestmanagement.co.uk/culture/history.html [22 Dec '02]

14 "History of pest management," PMRC Pest management Resource Centre, n.d., on-line. Available: http://www.pestmanagement.co.uk/culture/history.html [22 Dec '02]

Yoshida, K. *et al.*, "The rise and fall of the *Phytophthora infestans* lineage that triggered the Irish potato famine," *eLife*, 28 May 2013, pp. 15. Retrieved 27 Aug '13 from http://elife.elifesciences.org/content/elife/2/e00731.full.pdf

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- ¹⁷ "Potato migration to Europe," The Potato Then & Now, Prince Edward Island on-line, 1999. Available: http://collections.ic.gc.ca/potato/history/migration.asp [9/9/02]
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 This buff yellow skinned, light yellow fleshed variety has very low specific gravity, 13.93 g. carbohydrates per 100 grams compared with 19.87 g. in a Russet Burbank. Cooked this is 10.9 g. per ½ cup compared with 15.5 g. for Russet Burbank. It was bred for its exceptional flavor and appearance, the low carbohydrate feature was discovered nearly five years into the development program. U.S. rights to this variety have been purchased by some Florida growers under the SunFresh of Florida Marketing Cooperative. They plan to promote it as a premium, gourmet potato.
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