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Reviewed Research Paper

Quarantined and Quarantine-Released *Prunus* sp. Accessions: The Integration of Quarantined-Germplasm Inventories into the Germplasm Resources Information Network (GRIN)

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Abstract

Prunus genotypes have a quarantine period of approximately 6 to 8 years. The lack of information on what germplasm is currently quarantined has resulted in duplicate orders and difficulties in planning for plant explorations. Elimination of duplication will make all phases of the plant exploration/collection/virus-indexing/distribution system more efficient and effective which means greater availability of new *Prunus* germplasm for breeding and development in the United States. This article briefly reviews plant introduction/quarantine concepts and presents an inventory list of all *Prunus* genotypes currently quarantined at the Glenn Dale Plant Introduction and Quarantine Station. This inventory will be added to the Germplasm Resources Information Network (GRIN) which is a computer-based information system available to users who have a terminal with remote communications capabilities. As a result, all interested researchers will have access to information on *Prunus* that is in the quarantine system or that has been released. This will alter the planning for plant collection trips, will make more effective use of the existing system, will reduce the need for formal and frequent communications among

plant introduction/quarantine participants, and will provide for GRIN the skeletal information to which future evaluation and research data can be added.

The Glenn Dale Plant Introduction and Quarantine Station (GDPI/QS) primarily works with vegetatively-propagated germplasm that has been placed in the "prohibited" importation category by Federal regulators (1). Plant genera placed within this category have a high pest risk for U.S. agriculture (4) because they have a high frequency of virus, viroid, and mycoplasma-like organisms (MLO) infections; they may carry new races of fungi or bacteria; and/or originate in countries where high risk pests occur (5). *Citrus*, *Ipomoea*, *Malus*, *Prunus*, *Pyrus*, *Rubus*, and *Solanum* sp. are among the most important and frequently quarantined crop plants processed at GDPI/QS.

U.S. Department of Agriculture, Agricultural Research Service, Plant Genetics and Germplasm Institute, ¹U.S. Plant Introduction Station, Glenn Dale, MD, 20769-9157, and ²GRIN Database Management Unit, Beltsville Agricultural Research Center-West, Beltsville, MD 20705-0811.

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Quarantine-Released *Prunus* Germplasm

For the first time in several years, *Prunus* genotypes have been released by the Animal and Plant Health Inspection Service (APHIS) for the Agriculture Research Service (ARS), GDPI/QS. These *Prunus* have been virus-indexed and found to be free of known foreign and domestic viruses, viroids, and MLOs. Until they are removed from the GDPI/QS inventory, these genotypes will be maintained as virus-tested materials. Scionwood of these genotypes has been or soon will be shipped to the original requester and will be made available to the *Prunus* repository (National Clonal Germplasm Repository—Davis, University of California, Davis, CA, 95616). Within one year of the release date, virus-tested trees usually will have produced enough wood to allow a general distribution of scionwood to interested researchers. GDPI/QS will maintain quarantine-released germplasm and make it available to requesters *only* until the time when that material has been established in the permanent repository and has grown sufficiently to produce enough wood to allow continued distribution from the repository site. When germplasm has been established at the designated repository, GDPI/QS will no longer retain the responsibility of maintaining virus-tested specimens and those genotypes will be removed from the inventory.

The present inventory of quarantined *Prunus* contains nearly 500 genotypes. Recently, virus-indexing procedures have been updated to improve efficiency and effectiveness (J. A. Foster, 1985, personal communication). In the next several years, the number of quarantine-released *Prunus* is expected to rise markedly. Therefore, there is not only an immediate but also a long-range need by GDPI/QS to have a current *Prunus* distribution list. Those scientists and person-

nel from public and private organizations who would like to be included on present and future distribution lists for quarantine-released *Prunus* germplasm should submit a written request to: Glenn Dale Plant Introduction and Quarantine Station, USDA-PGGI, 11601 George Palmer Highway, Glenn Dale, MD, 20769-9157. It is the intention of ARS that recipients of germplasm will preserve and/or use that germplasm for research/evaluation purposes. Germplasm distributions are to be thought of as an original source of germplasm and *not* as a nursery-type source of propagation material.

Of the GDPI/QS virus-indexing programs, *Prunus* indexing is by far the most expensive to operate and requires the longest period of time to complete (5). In the past, the extended quarantine period created a lag-period where only GDPI/QS and the original importing researcher knew what materials were being indexed in quarantine. Other researchers/organizations have not been aware of the presence or absence of desirable foreign cultivars or superior seedling selections. Planning for collection trips has been made more difficult. *Prunus* germplasm requesters have not known whether or not to make a specific request and breeders have not known what parental material was going to be available as quarantine-releases in the immediate future. There is a real need to disseminate information on quarantined germplasm prior to its release and appearance on the distribution list.

Table 1 lists all quarantined and quarantine-released *Prunus* sp. germplasm currently on inventory at GDPI/QS. The table is divided into fruit types with columns designating scientific and cultivar names, countries of origin, dates of scionwood receipt (at GDPI/QS), plant introduction numbers (PI), quarantine numbers (Q-numbers), distribution restriction no-

tations, and quarantine-release dates (a date is listed in this column *only* if the germplasm has been released).

Since GDPI/QS does not conduct formal germplasm evaluations, the accuracy of the information concerning each item in Table I is limited to that which is presented to us. This information is gleaned from bills of lading, packing slips, plant labels, permit/quarantine documentation, and germplasm request letters written by the original requester and by the Plant Introduction Officer (PIO) (Dr. George White, USDA-ARS-PGGI, Germplasm Resources Laboratory, Building 001, BARC-West, Beltsville, MD, 20705-0811). Errors may be introduced in trying to read labels and accompanying paperwork which are frequently in poor condition upon arrival at GDPI/QS, especially for imported items (example: labels written with water-soluble ink). The name of a particular genotype is only as accurate as the actual germplasm and its associated information, and GDPI/QS cannot guarantee "trueness-to-name" for any imported genotype. Additional information concerning specific genotypes should be available from original shippers and/or recipients whose names are usually available through the PIO or GDPI/QS. When individual genotypes are given plant inventory numbers by the PIO, additional passport data (if available) are added to the files.

A Q-number is given to each genotype as it is being established at GDPI/QS. This becomes the reference number for a particular genotype during all virus-indexing/propagation procedures. Genotypes with more than one Q-number (Table 1) have been introduced on more than one occasion. For virus-indexing purposes, each bud from a given scion, and each cutting, root, or tuber etc. from other genera are given distinct Q-numbers and are considered to be subclones of the original genotype. When a sub-

clone is found to be free of virus/MLO organisms, tissue from that subclone and its vegetative progeny is released from quarantine and all other subclones are destroyed.

Distribution restrictions include patented materials and plant materials allowed into the United States via letters-of-understanding between foreign shippers and specific U.S. recipients. These specific items are not released by GDPI/QS for general distribution. Under present interpretations of the National Plant Germplasm Committee's policy, protected material will not be sent to respective repositories for preservation. Once the original request is filled, plants of these genotypes will be removed from GDPI/QS inventories. Interested researchers may attempt to acquire access to these restricted genotypes through direct contact with the original shipper and/or the original recipient.

Access to Germplasm Information

Apple and pear quarantine-released distribution lists have been published previously (6, 7) and have been one of the few avenues through which plant inventories were made available to potential users. Lists of quarantined items rarely have been made public. The current *Prunus* list (Table 1) is to be the last formally published list of quarantined and quarantine-released items produced by GDPI/QS. From the date of this publication forward, it is the authors' intention that a new procedure be used to list such plant inventories. The present list of *Prunus* will be loaded into the Germplasm Resources Information Network (GRIN) (2) in late 1985 and from that date a current annual inventory of quarantined and newly quarantine-released *Prunus* germplasm will be available to all who have access to the GRIN. This is an attempt to develop a "clearing-house" type inventory for quarantined and quarantine-released items.

GRIN is an automated information storage and retrieval system designed as a central repository for germplasm data within the National Plant Germplasm System. The Network has been under development over the last 5 years and is now operational. At the present time there are more than 2160 genera and 7184 species records loaded. The GRIN database contains three major groups of information: 1. Passport data which includes taxonomic classifications, countries of origin, native habitats, PI numbers, crop categories, pedigrees, and general references to attributes; 2. Inventory information which is created and maintained by crop curators and/or responsible personnel at other collection sites (such as GDPI/QS) includes maintenance and distribution data (such as quarantine numbers) and 3. Characterization and evaluation data which consist of observed and measured crop-specific growth characteristics.

GRIN resides on a Prime 750 mini-computer housed in the National Agricultural Library (NAL) in Beltsville, MD. Nearly all information stored in the GRIN database is available to users who have access to a terminal with remote communications capabilities (some site-specific inventory data have restricted access). A user must have a database access code and a user's manual (3). Both are available from the Database Management Unit (DBMU) of GRIN (GRIN Database Management Unit, USDA-ARS, Bldg. 001, Room 130, BARC-West, Beltsville, MD 20705-0811). After the user has initiated communication with the Prime computer, options for data retrieval and screening are presented on the screen in a menu fashion. For certain crops, including *Prunus*, the user must write additional query command statements before the desired information can be accessed. Until program revisions are complete, it is suggested that users request assistance with data retrieval, especially for

those crops where additional query command statements must be written. Knowledgeable assistance can be received from personnel at one of the Regional Plant Introduction Stations (5) or from DBMU.

Until now, no data for a clonally-propagated crop category have been loaded into the GRIN database and inventories of quarantined germplasm are not standard in the new system. The *Prunus* inventory will act as a trial system. Once the *Prunus* inventory is operating smoothly, quarantined and quarantine-released *Malus*, *Pyrus*, *Rubus*, and possibly *Solanum* and *Ipomoea* etc. inventories will be loaded into GRIN. Quarantine periods for plants in these genera are usually shorter than for *Prunus*, but the extensiveness of these inventories and the wide-spread interest in these genera warrant accessibility of this information in GRIN. The loading of data from clonal repositories and other responsible sites is also imminent.

There are many advantages to having quarantined and quarantine-released plant material inventories in GRIN. Scientists will be able to see what is already in the introduction/quarantine system and will be able to avoid duplicate orders. The necessity of frequent, formal communications between GDPI/QS, the PIO, and recipient scientists/organizations concerning the status of quarantined germplasm will be greatly reduced. As plants are released from quarantine and given PI numbers, the GDPI/QS data can be used as skeletal information to which additional passport data and evaluation/research data can be added. Quarantined and newly quarantine-released germplasm inventories, combined with items in established clonal repositories, can provide an overview of collected, and clonally propagated germplasm and in turn will aid in the development of lists of future needs and for future collection/exploration trips/sites. Lists of quar-

antined items should provide scientists and organizations with the luxury of planning ahead in breeding and evaluation programs, etc.

It is proposed that public inventories of clonally propagated, quarantined plants would accommodate the development of a system whereby pollen and/or hybrid seed could be harvested from quarantined plants. Breeders would have the GRIN inventory from which parents for hybrid crosses could be selected. Considering the lengthy quarantine period, this would be true especially for *Prunus* genotypes. The index tests for pollen/seed transmitted pathogens in *Prunus* are usually completed in the early stages of quarantine. After this portion of the indexing was completed, it is suggested that pollen or seed would be released from quarantine and could be harvested from the as-yet-quarantined parent plants (formal APHIS regulations likely would be determined when a test case arose). Since most quarantined *Prunus* trees flower before quarantine release, seed from these parent genotypes would save time. At present, parent genotypes must pass through the entire quarantine process before being budded and grown to flowering size by the breeder. The time saved by the use of quarantined trees as parents might be in the range of one-half to one generation. With the exception of *Solanum* genotypes, other quarantined and clonally propagated germplasm usually do not have quarantine restrictions for the movement of pollen or seed and similar savings in life cycle time could be realized. Optimizing the utilization of quarantined germplasm as above would make the plant introduction/quarantine system far more cost effective and efficient.

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Braeburn Apple

In recent weeks a new apple has appeared on the growers' shelves. Braeburn has an appealing appearance with a smooth finish and rosy red color. It grew as a seedling on the south island of New Zealand near the city of Nelson and was named after the Braeburn district. Its parentage is thought to be Lady Hamilton x Red Delicious since these were growing where the seedling was discovered in 1952. Braeburn is a late harvest variety under U.S. conditions and may mature along with Granny Smith.

From "The Braeburn Apple Joins the Parade" by James K. Ballard, *Great Lakes Fruit Grower News*, July 1985.

Table 1. Quarantined and quarantine-released *Prunus* sp. inventory^z.

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
ALMONDS									
P. Dulcis	Buschmandel	GERM	030480		Q21890	C03988			
P. Dulcis	Durkheim JV	GERM	030480		Q21887	C03988			
P. Dulcis	Durkheimer Riesen	GERM	030480		Q21886	C03988			
P. Dulcis	Geisenheim IV	GERM	030480		Q21889	C03988			
P. Dulcis	Kleine Volkernige Submandel	GERM	030480		Q21888	C03988			
P. Dulcis	Schneider Heppenheim	GERM	030480		Q21885	C03988			
P. Dulcis	1-112	NEPA	121484		Q25309	C15169			•
P. Dulcis	1-146	NEPA	121484		Q25310	C15169			•
P. Dulcis	1-147	NEPA	121484		Q25311	C15169			•
P. Dulcis	1-148	NEPA	121484		Q25312	C15169			•
P. Dulcis	1-149	NEPA	121484		Q25313	C15169			•
P. Japonica	Tsukuba #1	JAPA	041384		Q24547	C13914			
P. Japonica	Tsukuba #2	JAPA	041384		Q24548	C13914			
P. Triloba	P. Triloba	SCOT	022580		Q21840	C03945			

^zCOUNTRY CODE = country of origin: AUST = Austria, AUSL = Australia, BRAZ = Brazil, BULG = Bulgaria, CANA = Canada, CHIL = China (People's Republic of China or Republic of China), DENM = Denmark, ENGL = United Kingdom, FRAN = France, GERM = Federal Republic of Germany, HUNG = Hungary, ISRA = Israel, ITAL = Italy, JAPA = Japan, KORE = South Korea, NEPA = Nepal, NETH = Netherlands, NEWZ = New Zealand, POLA = Poland, PORT = Portugal, PRCH = People's Republic of China, ROMA = Romania, SAFR = Republic of South Africa, SCOT = Scotland, SPAI = Spain, SWIT = Switzerland, UNKN = Unknown at this time, USMD = United States of America (Maryland), USSR = Union of Soviet Socialist Republics, YUGO = Yugoslavia.

PI NUMBER = plant introduction number. In this context, PI numbers are usually given to genotypes only after they have been released from quarantine.

Q-NUMBER = quarantine number. An identification number given to each genotype as it is established at GDPI/QS.

A/C NUMBER = accession or consignment number. Each shipment of germplasm is given an A- or C-number at the time of inspection.

DISTRIB. RESTRICT = Distribution restriction. Due to foreign patents or letters of understanding, certain genotypes have restricted US distributions. Distribution restricted items are designated with the letter P.

RELEASE (YEAR) = Release date. The year is given for those *Prunus* genotypes which have been officially released from Federal plant import quarantines. Tissue cannot be distributed until genotypes have been formally released.

ESTAB = Establishment status. Items marked with an asterisk (*) were received as dormant scionwood at time of list preparation and establishment will not be confirmed until the following growing season.

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
-----APRICOTS-----									
P. Armeniaca	Abate	ITAL	081076		Q20776	A66928			
P. Armeniaca	Baracca-San Castrese	ITAL	021268	325527	Q19079	A40590		1984	
P. Armeniaca	B11/13	ROMA	080984		Q24844	C14555			•
P. Armeniaca	B19/20	ROMA	080984		Q24831	C14555			•
P. Armeniaca	B28/10	ROMA	080984		Q24841	C14555			•
P. Armeniaca	B29/4	ROMA	080984		Q24843	C14555			•
P. Armeniaca	C 1846	HUNG	080781		Q22597	C07555			
P. Armeniaca	C 83	HUNG	080781		Q22584	C07555			
P. Armeniaca	Cacak Gold	YUGO	080781		Q22584	C07555			
P. Armeniaca	Cacanska Najbolja	YUGO	080781		Q22587	C0755			
P. Armeniaca	Cais De Olanda	ROMA	080984		Q24850	C14555			•
P. Armeniaca	Cegled De Mamut	HUNG	080781		Q22600	C07555			
P. Armeniaca	Clone #1	YUGO	080781		Q22593	C07555			
P. Armeniaca	Clone #14	YUGO	080781		Q22590	C07555			
P. Armeniaca	Comodor	ROMA	080984		Q24845	C14555			•
P. Armeniaca	Erevani	YUGO	080781		Q22583	C07555			
P. Armeniaca	Houcall	FRAN	030183		Q23392	C11091			
P. Armeniaca	Houcall	FRAN	021484		Q24336	C13309			
P. Armeniaca	Ivowne Liveram	ITAL	080781		Q22601	C07555			
P. Armeniaca	Jelta Butilcovidna	YUGO	080781		Q22585	C07555			
P. Armeniaca	Litoral	ROMA	080984		Q24849	C14555			•
P. Armeniaca	Luimet	FRAN	080179		Q21731	C02826			
P. Armeniaca	Mamaia	ROMA	082076		Q20812	A66965			
P. Armeniaca	Mamaia	ROMA	022482		Q22833	C08633			
P. Armeniaca	Mamaia	ROMA	080984		Q24836	C14555			•
P. Armeniaca	Marculesti 10/5	ROMA	082076		Q20821	A66965			
P. Armeniaca	Marculesti 12/5	ROMA	080984		Q24842	C14555			•
P. Armeniaca	Marculesti 17/1	ROMA	082076		Q20816	A66965			
P. Armeniaca	Marculesti 17/2	ROMA	080781		Q22602	C07555			
P. Armeniaca	Marculesti 17/2	ROMA	080984		Q24838	C14555			•
P. Armeniaca	Marculesti 19	ROMA	082076		Q20814	A66965			

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
-----APRICOTS (CONT.)-----									
P. Armeniaca	Marculesti 22/4	ROMA	080984		Q24834	C14555			•
P. Armeniaca	Marculesti 22/6	ROMA	080984		Q24832	C14555			•
P. Armeniaca	Marculesti 5/5	ROMA	080984		Q24833	C14555			•
P. Armeniaca	Marculesti 59/16	ROMA	082076		Q20819	A66965			
P. Armeniaca	Marculesti 69/5	ROMA	080984		Q24389	C14555			•
P. Armeniaca	Marculesti-IG	ROMA	052872		Q19570		1984		
P. Armeniaca	Mari De Marculesti	ROMA	082076		Q20818	A66965			
P. Armeniaca	Mikitsky	YUGO	081363	292515	Q17127				
P. Armeniaca	Moniqui	FRAN	080775	413733	Q21180	C00660			
P. Armeniaca	Murfatlar 10/8	ROMA	082076		Q20817	A66965			
P. Armeniaca	No 232 I-1	POLA	081976		Q20805	A66960			
P. Armeniaca	No 234 I-3	POLA	081976		Q20806	A66960			
P. Armeniaca	No 279 II-3	POLA	081976		Q20807	A66960			
P. Armeniaca	No 31 II-5	POLA	081976		Q20803	A66960			
P. Armeniaca	Olimp	ROMA	080984		Q24846	C14555			•
P. Armeniaca	Palataya	SAFR	050779		Q21697	C02363			
P. Armeniaca	Palumnella	ITAL	021268	316519	Q19084	A40591		1984	•
P. Armeniaca	Patriharca Temprono	ROMA	080984		Q24868	C14555			
P. Armeniaca	Peeka	SAFR	090881		Q23809	C11698	P		
P. Armeniaca	Roget De Sernahac	FRAN	030183		Q23995	C11091			
P. Armeniaca	Rosii De Marculesti	ROMA	082076		Q20813	A66965			
P. Armeniaca	Rouge Du Roussillon	FRAN	021484		Q24337	C13309			
P. Armeniaca	S Francesco	ITAL	021268		Q19086	A40591			
P. Armeniaca	Saturn	ROMA	080984		Q24837	C14555			•
P. Armeniaca	Scoldus #I	YUGO	080781		Q22594	C07555			•
P. Armeniaca	Selena	ROMA	080984		Q24851	C14555			•
P. Armeniaca	Sirena	ROMA	080984		Q24835	C14555			•
P. Armeniaca	Sulmono	ROMA	080984		Q24847	C14555			•
P. Armeniaca	Tardifele Bordaneil I	FRAN	021484		Q24388	C13309			
P. Armeniaca	Tardifele Bordaneil II	FRAN		Q24339	C13309				
P. Armeniaca	Timpurii De Chisinau	ROMA	052872		Q19573				

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
-----APRICOTS (CONT.)-----									
P. Armeniaca	Timpurii De Kitinau	ROMA	080984		Q24840	C14555			•
P. Armeniaca	Topola Native II	YUGO	080781		Q22591	C07555			
P. Armeniaca	Trevatt	NEWZ	080383		Q23862	C12146			
P. Armeniaca	V/17	YUGO	031176		Q20370	A65674			
P. Armeniaca	V.19	YUGO	031176		Q20371	A65674			
P. Armeniaca	Voinesti B Rig/25-26 Marc 5/5	ROMA	031479		Q21628	C02012			
P. Armeniaca	Voinesti B R10P13-14 Marc22/4	ROMA	031479		Q21630	C02014			
P. Armeniaca	Voinesti B R16 18-27 Marc 17/2	ROMA	031479		Q21634	C02014			
P. Armeniaca	Voinesti B R17/P18-27 Marc8/1	ROMA	031479		Q21629	C02014			
P. Armeniaca	Voinesti B R5PG-14 Marc 6C/5	ROMA	031479		Q21635	C02014			
P. Armeniaca	Voinesti B R6P12-14 Marc 42/24	ROMA	031479		Q21631	C02014			
P. Armeniaca	Voinesti B R8P11 Marc 22/6	ROMA	031479		Q21633	C02014			
P. Armeniaca	1-101	NEPA	121484		Q25302	C15169			•
P. Armeniaca	1-128	NEPA	121484		Q25303	C15169			•
P. Armeniaca	1-134	NEPA	121484		Q25304	C15169			•
P. Armeniaca	1-136	NEPA	121484		Q25305	C15169			•
P. Armeniaca	1-144	NEPA	121484		Q25306	C15169			•
P. Armeniaca	1-151	NEPA	121484		Q25307	C15169			•
P. Armeniaca	1-157	NEPA	121484		Q25308	C15169			•
P. Mandshurica	P. Mandeshurica	SCOT	022580		Q21842	C03945			
P. Mume	#17	JAPA	080576		Q20760	A66910			
P. Mume	Hanakami	JAPA	041677	418534					
P. Mume	Hokkai-Bungo	JAPA	041677	418535					
P. Mume	Kanko-Bai	JAPA	041677	418536					
P. Mume	Kobai	JAPA	041677	418537					
P. Mume	Mori-No-Seki	JAPA	041677	418540					
P. Mume	Natsu-Goromo	JAPA	041677	418541					
P. Mume	Ohshuku-Bai	JAPA	041677	418542					
P. Mume	Okina	JAPA	041677	418542					
P. Mume	Okitsu-Akabana	JAPA	041677	418544					
P. Mume	Omoi-No-Mama	JAPA	041677	418545					

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
-----APRICOTS (CONT.)-----									
P. Mume	Sabashi-Ko	JAPA	041677	418546					
P. Mume	Semi-Double	CHIN	122181		Q22765				
P. Mume	Shiro-Naniwa	JAPA	041677	418547					
P. Mume	Tama-Ume	JAPA	041677	418548					
P. Mume	Tohji-Bai	JAPA	041677	418549					
P. Mume	Tsuno-Ume	JAPA	041677	418552					
P. Mume	Usuiro-Chirimen	JAPA	041677	418553					
P. Mume	Virgin	PRCH	122181		Q22761				
Prunus Sp. (Apricot)	Apricot Late	YUGO	030778		Q21119	A71722			
-----CHERRIES-----									
P. Avium	Balgarska Hroushtialka	BULG	021484		Q24334	C13305			
P. Avium	BB 4	ITAL	080781		Q24334	C13305			
P. Avium	Bianca Di Verona	ITAL	090381		Q22645	C07720			
P. Avium	Boambe De Cotnari	ROMA	021784		Q24343	C13345			
P. Avium	Boambe De Cotnari	ROMA	080984		Q24863	C14555			
P. Avium	Cacak V/24	YUGO	031384		Q24424	C13573			
P. Avium	Cacak 5/24	YUGO	092283		Q23994	C12418			
P. Avium	Ceregeiras	PORT	040483		Q23745	C11408			
P. Avium	Cherna Koniavska	BULG	021484		Q24332	C13305			
P. Avium	Durona De Vignola #1	ITAL	121680	245050	Q22294	C05839			
P. Avium	Durone Dell Anella	ITAL	090381		Q22652	C07720			
P. Avium	Durone Della Marca	ITAL	090381		Q22653	C07720			
P. Avium	Durone Nero I	ITAL	090969	344379	Q19376	A45817			
P. Avium	Durone Nero II	ITAL	090969	244380	Q19377	A45817			
P. Avium	Early Lion	YUGO	080781		Q22577	C07555			
P. Avium	Flamengo	ITAL	090381		Q22654	C07720			
P. Avium	Guigne Du Lot	FRAN	031067	318918	Q18744	A36696			
P. Avium	H-Bistrita XXX/1-4	ROMA	052072		Q19577				
P. Avium	Knaufschwarze	YUGO	031384		Q24425	C13573			
P. Avium	Knaus	YUGO	080781		Q22573	C07555			

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-----CHERRIES (CONT.)-----									
P. Avium	Kustendilska Hrousttialka	BULG	021484		Q24333	C13305			
P. Avium	Loustau Bigareau	FRAN	031067	218919	Q18745	A36696			
P. Avium	Mora De Vignola	ITAL	090969	344383	Q19380	A45817			
P. Avium	Munchebergi Korai	HUNG	080771		Q22567	C07555			
P. Avium	Negre De Bistrita	ROMA	021784		Q24341	C13345			
P. Avium	Negre De Bistrita	ROMA	080984		Q24857	C14555			•
P. Avium	PI202119 X 186943	USMD	122076	414367					
P. Avium	Plena	ENGL	032081		Q22380	C06540			
P. Avium	Pobeda	BULG	021484		Q24331	C13305			
P. Avium	Primavera	YUGO	031384		Q24422	C13573			
P. Avium	Ramon Oliva	ROMA	053072		Q19578				
P. Avium	Reine Des Convserve	FRAN	011658	245052	Q11685	X60421			
P. Avium	Rivan	POLA	030984		Q24406				
P. Avium	Rosii De Bistrita	ROMA	053072		Q19585				
P. Avium	Rosii De Bistrita	ROMA	021784		Q24342	C13345			
P. Avium	Rosii De Bistrita	ROMA	080984		Q24859	C14555			•
P. Avium	Sandra Precoce	ITAL	090381		Q22646	C07720			
P. Avium	Timpurii De Bistrita	ROMA	021784		Q24340	C13345			
P. Avium	Timpurii De Bistrita	ROMA	090984		Q24858	C14555			•
P. Avium	Uriase De Bistrita	ROMA	021784		Q24344	C13345			•
P. Avium	Uriase De Bistrita	ROMA	090984		Q24861	C14555			•
P. Avium	Vittoria	ITAL	121680		Q22296	C05839			
P. Avium	Vittoria	ITAL	090381		Q22647	C07720			
P. Cerasus	Cigany 59	HUNG	080781		Q22538	C07555			
P. Cerasus	Crisana	HUNG	080781		Q22546	C07555			
P. Cerasus	Dropia	ROMA	021784		Q24346	C13345			
P. Cerasus	Early Ludwig	POLA	020784		Q24292	C13277			
P. Cerasus	Early Ludwig	POLA	030984		Q24408				
P. Cerasus	Erdi Botermo	HUNG	080781		Q22553	C07555			
P. Cerasus	Erdi Jubileum	HUNG	080781		Q22544	C07555			
P. Cerasus	Espera	POLA	020784		Q24291	C13277			
P. Cerasus	Espera	POLA	030984		Q24410				

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-----CHERRIES (CONT.)-----									
P. Cerasus	Favorit	HUNG	080781		Q22540	C07555			
P. Cerasus	Favorit	BULG	021484		Q24335	C13305			
P. Cerasus	Fortuna	HUNG	080781		Q22545	C07555			
P. Cerasus	H-Baneasa 4/27	ROMA	053072		Q19580				
P. Cerasus	H-Baneasa 6/26	ROMA	053072		Q19581				
P. Cerasus	Heimanns Konservenweichsel	NEWZ	072583		Q23844	C12907			
P. Cerasus	Jedlinsk	POLA	020784		Q24293	C13277			
P. Cerasus	Jedlinsk	POLA	030984		Q24407				
P. Cerasus	Jinjeimas	PORT	040483		Q23747	C11408			
P. Cerasus	Karsay Giant #1	FRAN	022883		Q23223	C11070			
P. Cerasus	Karsay Giant #2	FRAN	081381		Q22639	C07603	P		
P. Cerasus	Karsay Giant #2	FRAN	022883		Q23224	C11070			
P. Cerasus	Karsay Giant #3	FRAN	022883		Q23225	C11070			
P. Cerasus	Karsay Giant #4	FRAN	081381		Q24262	C13095	P		
P. Cerasus	Karsay Giant #5	FRAN	022883		Q23227	C11070			
P. Cerasus	Keleris 14	YUGO	092283		Q23996	C12418			
P. Cerasus	Kelleris 14	YUGO	031384		Q24420	C13573			
P. Cerasus	Kelleris 16	YUGO	031384		Q24421	C13573			
P. Cerasus	Klan 31 (Clone 31)	GERM	031269	341157	Q21103	A71291		1984	
P. Cerasus	Late Stevns	DENM	090562	282815	Q19767	A54625			
P. Cerasus	Lubskaia	ROMA	053072		Q19582				
P. Cerasus	M 209	HUNG	080781		Q22548	C07555			
P. Cerasus	Mari Timpuri	HUNG	080781		Q22551	C07555			
P. Cerasus	Meteor Korai	HUNG	080781		Q22543		C07555		
P. Cerasus	Meteor(Hungarian)	YUGO	031384		Q24418	C13573			
P. Cerasus	Mocanesti 16	ROMA	031882		Q22898	C08824			
P. Cerasus	Mocanesti 16	ROMA	021784		Q24345	C13345			
P. Cerasus	Moladinoznaja	POLA	020784		Q24294	C13277			
P. Cerasus	Moladinoznaja	POLA	030984		Q24411				
P. Cerasus	M209	HUNG	080781		Q22549	C07555			
P. Cerasus	Nana	ROMA	021784		Q24350	C13345			

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-----CHERRIES (CONT.)-----									
P. Cerasus	Oblacinska	FRAN	021484	022883	Q23222	C11070			
P. Cerasus	Oblacinska	YUGO	031384		Q24416	C13573			
P. Cerasus	Oblacinska B	YUGO	080781		Q22560	C07555			
P. Cerasus	Oblacinska Rit	YUGO	080781		Q22561	C07555			
P. Cerasus	Oblacinska R3T3	YUGO	080781		Q22558	C07555			
P. Cerasus	Ostheim 32/16	ROMA	053072		Q19583				
P. Cerasus	P. Cerasus	YUGO	020778		Q2118	A71722		1984	
P. Cerasus	Pandy 114	ROMA	080984		Q24862	C14555			
P. Cerasus	Pandy 35	ROMA	031882		Q22897	C08824			
P. Cerasus	Pandy 38	ROMA	021784		Q24348	C13345			
P. Cerasus	Pozog 29	POLA	020784		Q24290	C13277			
P. Cerasus	Rexelle	YUGO	092283		Q23989	C12418			
P. Cerasus	Rexelle	YUGO	031384		Q24419	C13573			
P. Cerasus	Rivan	POLA	020784		Q24289	C13277			
P. Cerasus	Semperflorens	ENGL	011966	306808	Q18283	A32322			
P. Cerasus	Sirpotreb	ROMA	053072		Q19586				
P. Cerasus	Sonyia	POLA	020784		Q24295	C13277			
P. Cerasus	Sonyia	POLA	030984		Q24409				
P. Cerasus	Stevns Also PI282814-090462	DENM	071673	413743	Q20003	A58307			
P. Cerasus	Sumadinka	YUGO	080781		Q22563	C07555			
P. Cerasus	Sumadinka	YUGO	092283		Q23995	C12418			
P. Cerasus	Sumadinka	YUGO	031384		Q24417	C13573			
P. Cerasus	Timpurii De Cluj	ROMA	021784		Q24347	C13345			
P. Cerasus	Umbra	YUGO	031384		Q24423	C13573			
P. Cerasus	Vladimirskaia	ROMA	053072		Q19588				
P. Cerasus	Zagarvysne	USSR	082577		Q21108	A71451			
P. Himalcuca	P. Himalcuca	ENGL	020981		Q22311				
P. Jamazakura	Haguiensis	JAPA	030383		Q23547				
P. Lannesiana	Aratama	JAPA	041779		Q21681	C02259			
P. Lannesiana	Ayanishiki	JAPA	030383		Q23492				
P. Lannesiana	Benigasa	JAPA	030383		Q23507				
P. Lannesiana	Kouka	JAPA	030383		Q23498				

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-----CHERRIES (CONT.)-----									
P. Lannesiana	Matsumae-Benihigoromo	JAPA	030383		Q23501				
P. Lannesiana	Matsumae-Fuki	JAPA	030383		Q23495				
P. Lannesiana	Matsumae-Oshio	JAPA	030383		Q23490				
P. Lannesiana	Ohta-Zakura	JAPA	041799		Q21679	C02259			
P. Lannesiana	Omuro-Ariake	JAPA	030383		Q23466				
P. Lannesiana	Ranran	JAPA	030383		Q23491				
P. Lannesiana	Sakuyahime	JAPA	030383		Q23470				
P. Lannesiana	Speciosa(Var) CV. Yae-Beni-Oshima	JAPA	030383		Q23599				
P. Lannesiana	Sphaerantha	JAPA	041779		Q21680	C02259			
P. Lannesiana	Sphaerantha	JAPA	030383		Q23579				
P. Lannesiana	Superba	JAPA	030383		Q23597				
P. Laurocerasus	P. Laurocerasus	USSR	083071	367889				1984	
P. Laurocerasus	P. Laurocerasus	USSR	052473		Q20004	A58163			
P. Mahaleb	Abrunherios	PORT	040483		Q23746	C11408			
P. Mahaleb	SL 64	FRAN	021165	304195	Q17706	A28805			
P. Mahaleb	SL 66	FRAN	021265	304202	Q17710	A28812			
P. Mahaleb	South African	SAFR	071226	315878	Q18461	A34560			
P. Tomentosa	Tsukuba #1	JAPA	051883		Q23813	C11740			
P. Tomentosa	Tsukuba No 1	JAPA	041384		Q24549	C13914			
P. Yedoensis	Amagi-Yoshino	JAPA	030383		Q23428				
P. Yedoensis	Awanui	NEWZ	032879		Q21672	C02110			
P. Yedoensis	Mikadoyoshino	JAPA	030383		Q23476				
Prunus Sp.	#2420	ENGL	082075	411148	Q20240	A64151			
Prunus Sp.	Bianca Di Verona	ITAL	022883		Q23228	C11071			
Prunus Sp.	Cerna	ROMA	080984		Q24867	C14555			•
Prunus Sp.	Christobolina	ROMA	080984		Q24860	C14555			•
Prunus Sp.	Fruheste Der Mark	ROMA	031882		Q22893	C08824			•
Prunus Sp.	Liubskaia	ROMA	080984		Q24866	C14555			•
Prunus Sp.	Nefris	ROMA	021784		Q24349	C13345			•
Prunus Sp.	Nefris	ROMA	080984		Q24865	C14555			•
Prunus Sp.	Pitic De Iasi	ROMA	080984		Q24864	C14555			•
Prunus Sp.	Umineko	ENGL	031479		Q21626	C02013			

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-----PEACHES AND NECTARINES (CONT.)-----									
P. Persica (Nectarine)	NLC-78-A	AUSL	080680		Q22020	C05092	P		
P. Persica (Nectarine)	NLC-78-B	AUSL			Q22021	C05092	P		
P. Persica (Nectarine)	NO7 GF 305	FRAN	04073	412769	Q19904	A57577			
P. Persica (Nectarine)	6910207	ITAL	080781		Q22619	C07555			
P. Persica (Nectarine)	7130733	ITAL	080781		Q22620	C07555			
P. Persica (Nectarine)	7130785	ITAL	080781		Q22622	C07555			
P. Persica (Nectarine)	7130792	ITAL	080781		Q22618	C07555			
P. Persica (Peach)	#745	POLA	081275	411149	Q20234	A64120		1984	
P. Persica (Peach)	Anderson	ITAL	072683		Q23853	C12107			
P. Persica (Peach)	Anderson	ITAL	022184						
					Q24352	C13373			
P. Persica (Peach)	Andromeda	ITAL	022184		Q24357	C13373			
P. Persica (Peach)	Appia	ITAL	022184		Q24355	C13373			
P. Persica (Peach)	Aurelia	ITAL	022184		Q24365	C13373			
P. Persica (Peach)	Bellegarde	ENGL	080976		Q20796	A66924			
P. Persica (Peach)	Bolinha	BRAZ	032084		Q24454	C13646			
P. Persica (Peach)	BR-1	BRAZ	070781		Q22509	C07358			
P. Persica (Peach)	BR-2	BRAZ	032084		Q24443	C136467			
P. Persica (Peach)	BR-2	BRAZ	032084		Q24444	C13646			
P. Persica (Peach)	BR-3	BRAZ	032084		Q24445	C13646			
P. Persica (Peach)	BR-4	BRAZ	032084		Q24446	C13646			
P. Persica (Peach)	BR-6	BRAZ	032084		Q24447	C13646			
P. Persica (Peach)	Bucuresti	ROMA	031882		Q22903	C08824			
P. Persica (Peach)	Cascata 240	BRAZ	032084		Q24448	C13646			
P. Persica (Peach)	Cascata 332	BRAZ	032084		Q24449	C13646			
P. Persica (Peach)	Cascata 500	BRAZ	032084		Q24450	C13646			
P. Persica (Peach)	Cascata 519	BRAZ	032084		Q24451	C13646			
P. Persica (Peach)	Cascata 562	BRAZ	032084		Q24452	C13646			
P. Persica (Peach)	Cascata-564	BRAZ	070781		Q22511	C07538			
P. Persica (Peach)	Cassiopea	ITAL	022184		Q24368	C13373			
P. Persica (Peach)	Cherrito	BRAZ	032084		Q24455	C13646			
P. Persica (Peach)	Chiripa	BRAZ	070781		Q22508	C07358			

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-----PEACHES AND NECTARINES (CONT.)-----									
P. Persica (Peach)	Chiripa	BRAZ	032084		Q24457	C13646			
P. Persica (Peach)	Conserva 458	BRAZ	032084		Q24456	C13646			
P. Persica (Peach)	Coral	BRAZ	070781		Q22508	C07358			
P. Persica (Peach)	Coral	BRAZ	032084		Q24458	C13646			
P. Persica (Peach)	Croce Del Sud	ITAL	022184		Q24363	C13373			
P. Persica (Peach)	De Balc	ROMA	080984		Q24856	C14555			•
P. Persica (Peach)	De Wet	SAFR	050180		Q21924	C04511			
P. Persica (Peach)	Diamante	BRAZ	032084		Q24461	C13646			
P. Persica (Peach)	Domiziana	ITAL	022184		Q24362	C13373			
P. Persica (Peach)	Emilia	ITAL	022184		Q24367	C13373			
P. Persica (Peach)	Flacara	ROMA	080984		Q24830	C14555			•
P. Persica (Peach)	Flanimia	ITAL	022184		Q24360	C13373			
P. Persica (Peach)	Golden Queen Improved	NEWZ	022764	296108	Q17482	A24911			
P. Persica (Peach)	Grosse Mignonne	FRAN	082283		Q23879	C12263			
P. Persica (Peach)	Grosse Mignonne	FRAN	032884		Q24510	C13750			
P. Persica (Peach)	Harry pickstone	SAFR	031887		Q20958	A68485		1984	
P. Persica (Peach)	HB 1-10	ROMA	080984		Q24824	C14555			•
P. Persica (Peach)	HB 11-11	ROMA	080984		Q24823	C14555			•
P. Persica (Peach)	HB 27-13	ROMA	080984		Q24825	C14555			•
P. Persica (Peach)	HB 6-24	ROMA	080984		Q24822	C14555			•
P. Persica (Peach)	HB 7-16	ROMA	080984		Q24821	C14555			•
P. Persica (Peach)	Imperoni	SAFR	021279		Q21578	C01801			
P. Persica (Peach)	Jing Yu	CHIN	092481		Q22693	C07823			
P. Persica (Peach)	Kijewska	SWIT	081976		Q20822	A66960			
P. Persica (Peach)	Lola	USSR	010576		Q20260	A65095			
P. Persica (Peach)	Magno	BRAZ	032084		Q24459	C13646			
P. Persica (Peach)	Michael Gold	USMD	012468	325132	Q20573	A40011		1984	
P. Persica (Peach)	Miorita	ROMA	080984		Q24828	C14555			•
P. Persica (Peach)	Nectarina Cascata	BRAZ	032084		Q24460	C13646			
P. Persica (Peach)	Nectaross	ITAL	022184		Q24353	C13373			

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-----PEACHES AND NECTARINES (CONT.)-----									
P. Persica (Peach)	NO 397 VIII-4	POLA	081976		Q20808	A66960			
P. Persica (Peach)	NO 436 VIII-43	ROMA	081976		Q20809	A66960			
P. Persica (Peach)	Oradea #1	ROMA	080984		Q24852	C14555			•
P. Persica (Peach)	Paraguayos(Kiang-Si)	SPAI	122976	414385	Q20874	A67894		1984	
P. Persica (Peach)	Pegaso	ITAL	022184		Q24361	C13373			
P. Persica (Peach)	Pioneer	AUSL	062777		Q20979	A69401			
P. Persica (Peach)	PLC-78-5	AUSL	080680		Q22019	C05092	P		
P. Persica (Peach)	Precocinho	BRAZ	032084		Q24463	C13646			
P. Persica (Peach)	Premier	BRAZ	032084		Q24462	C13646			
P. Persica (Peach)	Romaner #1 (NJR 6120)	ROMA	080984		Q24853	C14555			•
P. Persica (Peach)	Romaner #2	ROMA	080984		Q24854	C14555			•
P. Persica (Peach)	R11-24 Golden Queen	AUSL	081167	324257	Q18943	A38308			
P. Persica (Peach)	R6-27 Golden Queen	AUSL	081167	324255	Q18941	A38308			
P. Persica (Peach)	S Isidoro AS 75	ITAL	100782		Q23081	C10200	P		
P. Persica (Peach)	Splendid	ROMA	080984		Q24829	C14555			•
P. Persica (Peach)	Sulina	BRAZ	070781		Q22507	C07358			
P. Persica (Peach)	Sulina	BRAZ	032084		Q24465	C13646			
P. Persica (Peach)	Superb De Toamna	ROMA	080984		Q24826	C14555			•
P. Persica (Peach)	Teton De Venus	FRAN	082283		Q23880	C12263			
P. Persica (Peach)	Triumf	ROMA	080984		Q24827	C14555			•
P. Persica (Peach)	Tsukuba No 5	JAPA	051883		Q23812	C11740			
P. Persica (Peach)	Tsukuba No 5; R-26-2	JAPA	041384		Q24550	C13914			
P. Persica (Peach)	Tsukuba No 4	JAPA	051883		Q23811	C11740			
P. Persica (Peach)	Turquesa	BRAZ	032084		Q24464	C13646			
P. Persica (Peach)	T16	ROMA	080984		Q24855	C14555			•
P. Persica (Peach)	V55111	CANA	050169	352650	Q19324	A44878			
P. Persica (Peach)	V55115	CANA	050169		Q19323	A44878			
P. Persica (Peach)	Villa Ada	ITAL	022184		Q24354	C13373			
P. Persica (Peach)	Villa Adriana	ITAL	022184	Q24356	C13373				
P. Persica (Peach)	Villa Doria	ITAL	022184		Q24358	C13373			
P. Persica (Peach)	Villa Giulia	ITAL	022184		Q24364	C13373			
P. Persica (Peach)	Weinburger	ITAL	022184		Q24366	C13373			

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-----PEACHES AND NECTARINES (CONT.)-----									
P. Persica (Peach)	Yumyeong	KORE	101981		Q22695	C07939			
P. Persica (Peach)	18/40 BR	YUGO	080781		Q22605	C07555			
P. Persica (Peach)	1-102	NEPA	121484		Q25275	C15169			•
P. Persica (Peach)	1-103	NEPA	121484		Q25276	C15169			•
P. Persica (Peach)	1-108	NEPA	121484		Q25277	C15169			•
P. Persica (Peach)	1-111	NEPA	121484		Q25278	C15169			•
P. Persica (Peach)	1-114	NEPA	121484		Q25279	C15169			•
P. Persica (Peach)	1-115	NEPA	121484		Q25280	C15169			•
P. Persica (Peach)	1-119	NEPA	121484		Q25281	C15169			•
P. Persica (Peach)	1-120	NEPA	121484		Q25282	C15169			•
P. Persica (Peach)	1-124	NEPA	121484		Q25283	C15169			•
P. Persica (Peach)	1-125	NEPA	121484		Q25284	C15169			•
P. Persica (Peach)	1-128	NEPA	121484		Q25285	C15169			•
P. Persica (Peach)	1-127	NEPA	121484		Q25288	C15169			•
P. Persica (Peach)	1-131	NEPA	121484		Q25287	C15169			•
P. Persica (Peach)	1-133	NEPA	121484		Q25288	C15169			•
P. Persica (Peach)	1-164	NEPA	121484		Q25289	C15169			•
P. Persica (Peach)	2-184	NEPA	121484		Q25290	C15169			•
P. Persica (Peach)	5004	NEPA	121484		Q25291	C15169			•
P. Persica (Peach)	5015	NEPA	121484		Q25292	C15169			•
P. Persica (Peach)	5079	NEPA	121484		Q25293	C15169			•
P. Persica (Peach)	5080	NEPA	121484		Q25294	C15169			•
P. Persica (Peach)	5089	NEPA	121484		Q25295	C15169			•
P. Persica (Peach)	5091	NEPA	121484		Q25296	C15169			•
P. Persica (Peach)	5101	NEPA	121484		Q25297	C15169			•
P. Persica (Peach)	5103	NEPA	121484		Q25298	C15169			•
P. Persica (Peach)	5125	NEPA	121484		Q25299	C15169			•
P. Persica (Peach)	5139	NEPA	121484		Q25300	C15169			•
P. Persica (Peach)	6003	NEPA	121484		Q25301	C15169			•
P. Persica (Peach)	6820018	ITAL	072683		Q23851	C12107			
P. Persica (Peach)	6820032	ITAL	072683		Q23860	C12107			
P. Persica (Peach)	6820040	ITAL	072683		Q23861	C12107			

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
-----PEACHES AND NECTARINES (CONT.)-----									
P. Persica (Peach)	6910019	ITAL	072683		Q23845	C12107			
P. Persica (Peach)	6910158	ITAL	092377		Q21048	A70276			
P. Persica (Peach)	6910138	ITAL	072683		Q23854	C12107			
P. Persica (Peach)	6910138	ITAL	020884		Q24317	C13925			
P. Persica (Peach)	6910167	ITAL	072683		Q23846	C12107			
P. Persica (Peach)	6910167	ITAL	020884		Q24318	C13295			
P. Persica (Peach)	6910207	ITAL	072683		Q23855	C12107			
P. Persica (Peach)	7010200	ITAL	072683		Q23847	C12107			
P. Persica (Peach)	7010200	ITAL	020884		Q24319	C13295			
P. Persica (Peach)	7010419	ITAL	072683		Q23856	C12107			
P. Persica (Peach)	7010419	ITAL	022184		Q24359	C13373			
P. Persica (Peach)	710	NEPA	121484		Q25273	C15169			
P. Persica (Peach)	711	NEPA	121484		Q25274	C15169			
P. Persica (Peach)	7130364	ITAL	072683		Q23852	C12107			
P. Persica (Peach)	7130558	ITAL	072683		Q23859	C12107			
P. Persica (Peach)	7130733	ITAL	072683		Q23850	C12107			
P. Persica (Peach)	7310674	ITAL	072683		Q23848	C12107			
P. Persica (Peach)	7310828	ITAL	020884		Q24320	C13295			
P. Persica (Peach)	7330033	ITAL	072683		Q23858	C12107			
P. Persica (Peach)	7410070	ITAL	072683		Q23849	C12107			

-----PLUMS-----									
P. Cerasifera	Burrell's Red-Myrobalan	ENGL	022972		Q19763	A54005			
P. Cerasifera	Myrobalana Pfalzer Type	GERM	022366	311778	Q18297	A32605			
P. Cerasifera	Tip 168	ROMA	022081		Q22332	C06226			
P. Domestica	Ann Spath	ROMA	031483		Q23699	C11197			
P. Domestica	Burja	BULG	022478		Q21111	A72533			
P. Domestica	Cacanska Lepotica	YUGO	080781		Q22625	C07555			
P. Domestica	Cacanska Rana	YUGO	080781		Q22626	C07555			
P. Domestica	Cacanska Rodna	YUGO	080781		Q22627	C07555			

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
-----PLUMS (CONT.)-----									
P. Domestica	Ciruelo Polizo AM-4 (RTSK)	SPAI	020680		Q21826	C03826			
P. Domestica	De Bistrita	ROMA	031483		Q23695	C11197			
P. Domestica	Dor	ROMA	040981		Q22435	C06766			
P. Domestica	Early Rivers	ROMA	031483		Q23692	C11197			
P. Domestica	Emma Lepperman	ROMA	010378		Q21080	A71064			
P. Domestica	Emma Lepperman	ROMA	031483		Q23693	C11197			
P. Domestica	Emma Lepperman	ROMA	031483		Q23697	C11197			
P. Domestica	Erfdeel	SAFR	041183		Q23788	C11478	P		
P. Domestica	Gras Ameliorat	ROMA	031483		Q23696	C11197			
P. Domestica	H-Baneasa 9/11	ROMA	052872		Q19590			1984	
P. Domestica	H-Baneasa 9/5	ROMA	052872		Q19589				
P. Domestica	II/II/80/59	YUGO	022475	413744	Q20110	A62923			
P. Domestica	III/I/13/61	YUGO	022475	413745	Q20111	A62923	P		
P. Domestica	III/I/26/6	YUGO	022475	413746	Q20109	A72533	P		
P. Domestica	Inra 655/2	FRAN	021579		Q21585	C01838			
P. Domestica	Kabazdinskaja	USSR	010576		Q20262	A65095		1984	
P. Domestica	Kinstendilsva	BULG	022478		Q21110	A72533			
P. Domestica	Kubanskaja	USSR	010576		Q20263	A65095			
P. Domestica	Marianna 8-6	SAFR	041183		Q23785	C11478	P		
P. Domestica	Marianna 9-52	SAFR	041183		Q23786	C11478	P		
P. Domestica	Obil'naja	USSR	010576		Q20264	A65095		1984	
P. Domestica	P. Domestica	ISRA	012468	222543	Q20572	X42743		1984	
P. Domestica	Pezvenec 3	USSR	010576		Q20265	A65095			
P. Domestica	Pocegaca	NETH	082064	300259	Q17619			1984	
P. Domestica	Pojegaca ?	YUGO	030582		Q22874	C08703			
P. Domestica	Pojegaca D-13	YUGO	030582		Q22870	C08703			
P. Domestica	Pojegaca D-6	YUGO	030582		Q22869	C08703			
P. Domestica	Pojegaca M-1	YUGO	030582		Q22871	C08703			
P. Domestica	Pojegaca P-24	YUGO	030582		Q22872	C08703			
P. Domestica	Pojegaca P-25	YUGO	030582		Q22873	C08703			
P. Domestica	Pozegaca	YUGO	080781		Q22624	C07555			
P. Domestica	Pulpuveda	BULG	031175	411145	Q20118	A63051		1984	

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Estab
-----PLUMS (CONT.)-----									
P. Domestica	Redgold	SAFR	090881	Q22668	C07735				
P. Domestica	Reine Claude Larroche	FRAN	031067	318921	Q18747	A36697		1984	
P. Domestica	Reubennel	SAFR	080483		Q23867	C12159	P		
P. Domestica	Sentiabz'skaja	USSR	010576		Q20267	A65095			
P. Domestica	St Julien Hybrid No. 2	FRAN	021579		Q21587	C01838			
P. Domestica	Stanley	ROMA	031483		Q23701	C11197			
P. Domestica	Tamaioasa De Bistrita	ROMA	052882		Q19591				
P. Domestica	Tamioasa De bistrita	ROMA	031483		Q23698	C11197			
P. Domestica	Tuleu Dulce	ROMA	031483		Q23691	C11197			
P. Domestica	Tuleu Gras	ROMA	031483		Q23702	C11197			
P. Domestica	Tuleu Tiuepieriu	ROMA	040981		Q22439	C06766			
P. Domestica	Van Der Merwe	SAFR	041183		Q23787	C11478	P		
P. Domestica	Vengerka	USSR	010576		Q20268	A65095			
P. Domestica	Wagenheim Fruhwetsche	GERM	021883		Q23200	C11014			
P. Domestica	Wilson	NEWZ	080383		Q23863	C12147			
P. Domestica	Yellow Khopty	USSR	032576		Q20374	A65927			
P. Domestica	Zoja	USSR	092767	352647	Q18978	A38879			
P. Domestica	1-104	NEPA	121484		Q25315	C15169			.
P. Domestica	1-121	NEPA	121484		Q25316	C15169			.
P. Domestica	1-48	NEPA	121484		Q25314	C15169			.
P. Salicina	P. Salicina	SCOT	022580		Q21838	C03945			
P. Salicina	Wilson	AUSL	041879		Q21691	C02264			
P. Ussuriensis	P. Ussuriensis	USSR	091671		Q19731	A52461			
Prunus Sp.	St. Julien Hybrid #1 (INRI)	FRAN	021579		Q21586	C01838			

Species	Cultivar or Collection designation	Country code	Date received	PI number	Q number	A/C number	Distrib. restrict	Release (year)	Etab
-----HYBRID AND MISCELLANEOUS SPECIES-----									
P. Dulcis X P. Persica	GF677 Dulcis X Persica	FRAN	040473	413731	Q19899	A57577			
P. Dulcis X P. Persica	P. Dulcis X P. Persica	FRAN	030569	341062					
P. Dulcis X P. Persica	PollardII	UNKN	010380		Q21799	C03573			
P. Dulcis X Persica	Gf8-1 Cerasifera X ?	FRAN	040437	413728	Q19900	A57577			
P. Dulcis X Persica	X Kanzakura OH-Kanzakura	JAPA	041779		Q21682	C02259			
P. Dulcis X Persica	X Watanabe-Zakura	JAPA	041779		Q21678	C02259			
P. Schmittii	P. Schmittii	ENGL	032081		Q22375	C06540			
Prunus Sp.	#10	ITAL	081076		Q20772	A66928			
Prunus Sp.	Amazona Rubicunda	ROMA	080984		Q24848	C14555			•
Prunus Sp.	Prune l'agen P707 Clone P2	SWIT	030183		Q23229	C11086			
Prunus Sp.	Prunus Sp.	ENGL	030579		Q21614	C01936			
Prunus Sp.	Prunus Sp.	ENGL	030579		Q21615	C01936			
Prunus Sp.	1-110	NEPA	121484		Q25317	C15169			•
Prunus Sp.	1-118	NEPA	121484		Q25318	C15169			•
Prunus Sp.	5046	NEPA	121484		Q25319	C15169			•
Prunus Sp.	5047	NEPA	121484		Q25320	C15169			•