



United States Department of Agriculture

Research, Education, and Economics
Agricultural Research Service

August 1, 2016

Dear Requestor:

Enclosed is a copy of our apple or tart-cherry catalog and a disclaimer stating some of our conditions. This catalog contains a very diverse list of accessions including wild species, interspecific hybrids, heirloom cultivars, other rare cultivars and commonly available commercial cultivars. We are now suggesting that unless a request for scions (graft wood) of common commercially-available cultivars is for research purposes, we ask that you obtain that material from a commercial source. If you are not sure, there are websites that list availability such as: <http://www.goodfruit.com/buyers>. A general search for cultivar sources on Google can also be done. There is one excellent source that we use here when the question of commercial availability comes to us. This is an excellent book **Fruit, Berry and Nut Inventory, Fourth edition: An Inventory of Nursery Catalogs Listing All Fruit, Berry and Nut Varieties** by Kent Whealy. It lists many nurseries that carry not only common commercial material but also heirloom and rare cultivars published by <http://www.seedsavers.org/>. If accessions are not available through commercial sources, we can provide scions/cuttings.

When selecting your order, the following conditions apply:

- 1. Orders for dormant scions (limit 25) must be received by January 10th in order to ship by March 20.**
- 2. Orders for summer bud wood (limit 25) must be received by July 15th in order to ship by August 20.**
- 3. Orders for pollen, seed, fruit and other plant tissues may also be requested.**
- 4. Original apple seed from Kazakhstan is reserved for use by scientists doing genetic research. However we can supply open-pollinated seed from our grow-outs which are a blend of all genes from many sites in Kazakhstan. Deadline for ordering is January 10th. If you have any questions, please contact us.**

Thank you for your interest in our program.

Sincerely,

Dr. C.Thomas Chao
Horticulturist/Curator for Apple and Tart Cherry

North Atlantic Area • Plant Genetic Resources Unit
630 West North St., Geneva, New York 14456
Voice: 315-787-2454 • FAX: 315-787-2339 • E-mail: c.thomas.chao@ars.usda.gov
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DISCLAIMER

The Plant Genetic Resources Unit (PGRU) at Geneva, New York is responsible for the acquisition, maintenance, evaluation, characterization and distribution of apple, cold-hardy grape and tart cherry germplasm. This wide array of genetic diversity is available **without charge** (unless there are special shipping requirements) to any *bona fide* plant scientist or plant propagator. Because of operational constraints, only limited quantities of each accession can be distributed.

Unless stated, the disease status (including viral, bacterial and fungal) of the enclosed material has not been determined. All distributed germplasm is subject to local, state, national and/or international quarantine regulations.

The authenticity of the identity of the requested accession(s) has been determined by the best presently available methods; however, determinations are not guaranteed. **The PGRU at Geneva assumes no responsibility for the plants and/or propagules shipped.** Questions, comments and suggestions should be directed to:

USDA, ARS Plant Genetic Resources Unit
630 West North Street
Geneva, New York 14456-0462
United States

Dr. C.Thomas Chao
Horticulturist/Curator for Apple, Grape and Tart Cherry



PLEASE NOTE:

All foreign orders must include an Import Permit, where appropriate. Please check with your Country's Plant Inspection and Quarantine Center. A copy of the Import Permit or Letter of Authority, translated into English, must be enclosed with the request. We cannot certify that our plants are Disease and/or pest free. Your permit must grant you a Research Exemption from this requirement.

Order Form for Apple, Grape and Tart Cherry

Name:		
Organization:		
Address:		
City:	State:	Zip Code:
Phone Number:		
Email:		
Comments:		
	PI or GMAL/GPRU/GVIT #	Variety Name
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Dr. C.Thomas Chao
 Horticulturist/Curator for Apple, Grape and Tart Cherry
 USDA/ARS Plant Genetic Resources Unit
 630 West North Street, Geneva, New York 14456
 Fax: 315-787-2339



National Germplasm
Repository
for
Apple, Grape and Tart Cherry

USDA, ARS

Plant Genetic Resources Unit

630 West North Street

Geneva, New York 14456-0462

Malus Catalog

2016-2017 Distribution Year

**National Germplasm Repository for
Apple, Grape and Tart Cherry
USDA, ARS Plant Genetic Resources Unit
630 West North Street
Geneva, New York 14456-0462**

Key for the Geneva *Malus* Catalog
for the 2016-2017 distribution year.

Inventory

PI refers to the Plant Introduction number assigned to an accession. A GMAL number is a local number assigned to an accession which has no PI number.

Form(s)
Available

BD	Bud
SC	Scion

Please send requests for plant material and/or information to:

**Dr. C.Thomas Chao
Horticulturist/Curator for Apple, Grape and Tart Cherry
USDA, ARS
Plant Genetic Resources Unit
630 West North Street
Geneva, New York, 14456-0462**

Malus Catalog 2016-2017

Species	Subsp		
angustifolia			
Ivp	Ivno	Plant Id	Country
PI	613881		United States
PI	589727		United States
PI	589771		United States
PI	589770		United States
PI	589769		United States
PI	589765		United States
PI	613880		United States
PI	589761		United States
PI	589763		United States
PI	613882		United States
PI	589764		United States
PI	589773		United States
PI	589767		United States
PI	589766		United States
PI	589772		United States
PI	613879		United States
PI	590175	Prince George	UNKNOWN
asiatica			
Ivp	Ivno	Plant Id	Country
PI	589875		China
PI	589874		China
PI	589873		United States
PI	589869		United States
PI	589877		China
PI	594099		China
PI	589870		United States
PI	589878		China
PI	613835		China
PI	613921		China
PI	613922		China
PI	594107		China
PI	589876		China
PI	613821		Korea

Species	Subsp		
PI	619162	M. asiatica 'Rinki'	Japan
baccata			
Ivp	Ivno	Plant Id	Country
PI	286599		China
Ivp	Ivno	Plant Id	Country
PI	590031		China
PI	613929		China
PI	392301		China
PI	590056		China
PI	588771		UNKNOWN
PI	590057		China
PI	590052		China
PI	590053		China
PI	613877		UNKNOWN
PI	590054		China
PI	590055		China
PI	613809		Korea
PI	589860		UNKNOWN
PI	613842		China
PI	613844		China
PI	589375		UNKNOWN
PI	590109		China
PI	590110		China
PI	613810		Korea
PI	613843		China
PI	589738	(hybrid #28)	UNKNOWN
PI	589371	Aurantiaca	UNKNOWN
PI	613807	Borkh.	Korea
PI	613808	Borkh.	Korea
PI	589374	Cerasiformis	UNKNOWN
PI	589019	Columnaris	United States
PI	588996	Costata	UNKNOWN
PI	437055	Flexilis	United Kingdom
PI	589376	Fructo-flavo	UNKNOWN
PI	483259	Genvina	United Kingdom
PI	589831	Hansen's #1	Former Soviet Union

Species	Subsp		
PI	589838	Hansen's #2	Former Soviet Union
PI	589839	Hansen's #3	Former Soviet Union
PI	588907	Himalaica	China
PI	594110	Jackii	Korea
PI	588765	Korea Wild Apple	Korea
PI	215796	Lady Ilgen	Germany
PI	588989	Manchurian	China
PI	589353	Mandshurica 6114	Canada
PI	588874	Nertchinsk	UNKNOWN
PI	588960	Rockii	China
PI	589477	Rosthern	Canada
PI	148421	Siberian Crab	China
PI	588903	Siberian Crab	UNKNOWN
lvp	lvno	Plant Id	Country
PI	322713	Mandshurica 2330	Former Soviet Union
bhutanica			
lvp	lvno	Plant Id	Country
PI	590062		UNKNOWN
PI	589393		United Kingdom
GMAL	4605	CH01-11	China
GMAL	4606	CH01-12	China
GMAL	4607	CH01-13	China
GMAL	4608	CH01-18	China
PI	633808	CH97 03-02	China
GMAL	4370	CH97 03-02	China
GMAL	4371	CH97 03-03	China
GMAL	4372	CH97 03-04	China
GMAL	4374	CH97 03-06	China
GMAL	4386	CH97 03-19	China
GMAL	4390	CH97 03-23	China
GMAL	4391	CH97 04-02	China
GMAL	4392	CH97 04-04	China
GMAL	4393	CH97 04-05	China
GMAL	4394	CH97 04-06	China
GMAL	4395	CH97 04-07	China
GMAL	4396	CH97 04-08	China

Species	Subsp		
PI	633811	CH97 04-08	China
GMAL	4397	CH97 04-09	China
GMAL	4399	CH97 04-11	China
GMAL	4400	CH97 04-12	China
PI	588945	Cutleaf Crab	UNKNOWN
PI	588930	Macrocarpa	UNKNOWN
PI	588906	Macrocarpa	United States
brevipes			
Ivp	Ivno	Plant Id	Country
PI	633837		Former Soviet Union
PI	589170		UNKNOWN
coronaria			
Ivp	Ivno	Plant Id	Country
PI	589423		United States
PI	590014		United States
PI	589990		United States
PI	589991		United States
PI	589992		United States
PI	589993		United States
PI	589987		United States
PI	589996		United States
PI	589984		United States
PI	589989		United States
PI	590000		United States
PI	613891		Canada
PI	613826		United States
PI	613885		United States
PI	590021		United States
PI	589988		United States
PI	589983		Canada
PI	589332		United States
PI	590018		United States
PI	590019		United States
PI	590020		United States
PI	613890		United States
PI	589768		United States

Species	Subsp		
PI	589728		United States
PI	589982		Canada
PI	589977		Canada
PI	589976		Canada
PI	613905		United States
PI	589739		UNKNOWN
PI	613907		United States
PI	589740		UNKNOWN
PI	589344	Charlottae	United States
PI	589425	Dasyealyx	United States
PI	589014	Elonga	United States
PI	589162	Glabrata	United States
PI	589227	Glancescens	United States
PI	589219	Kola	United States
PI	589005	Matthews	United States
PI	588927	Wynema	United States
domestica			
Ivp	Ivno	Plant Id	Country
PI	437036	Aromat de Vara	Romania
PI	589121	Bedford Red	United States
PI	589889	Blaze	United States
PI	589711	Carnifex	UNKNOWN
PI	589292	Delicious x Pyrus sp.	UNKNOWN
PI	392307	Finson's Orange	Australia
PI	589891	Geneva Black	UNKNOWN
PI	589135	Golden Noble	United Kingdom
PI	589446	Idajon	United States
PI	262964	Malabols	Latvia
PI	613938	Malt Bagaevskii	Russian Federation
GMAL	4989	Maria Elena	Spain
PI	594108	Medaille d'Or	France
PI	162505	Messire Jacques	France
PI	383515	Poeltsamaa Winter Apple	Former Soviet Union
GMAL	4997	Rainha	Brazil
PI	188606	Reinette d'Armorique	France
PI	589114	Steacy	United States

Species	Subsp		
Ivp	Ivno	Plant Id	Country
PI	589859		UNKNOWN
PI	483263	10/12/B	Israel
PI	644151	1-159	Nepal
PI	644155	13-86	Australia
PI	483261	3/11/B	Israel
PI	644157	35-155 (Earlidel)	Australia
PI	483265	504/1/A	Israel
PI	374265	57-56-92	Romania
PI	483262	7/11/B	Israel
PI	134819	Aargauer Jubilaums	Switzerland
PI	206542	Abbondanza	Italy
PI	325531	Acme	United Kingdom
PI	132758	Adersleber Kalvill	Germany
PI	437061	Aivania	Bulgaria
PI	255899	Akane	Japan
PI	104776	Akerö	Sweden
PI	588958	Akin	United States
PI	264687	Alamaka	Macedonia
PI	589107	Alexander	Ukraine
PI	247442	Alfa 68	Sweden
PI	344547	Alkmene	Unknown
PI	588865	Alnarp 2	Sweden
PI	589327	Alpha 68A	Sweden
PI	589328	Alpha 68B	Sweden
PI	589540	Alpinist	Former Soviet Union
PI	589483	Altaiski Sweet	Former Soviet Union
PI	589138	Alton	United States
PI	199525	Amanishiki	Japan
PI	320870	Amasya #2	Turkey
PI	320871	Amasya #3	Turkey
PI	320872	Amasya #4	Turkey
PI	320873	Amasya #5	Turkey
PI	316482	Amelia	Brazil
PI	127311	Amere de Berthecourt	France
PI	173978	American Forestier	France

Species	Subsp		
PI	589214	American Summer Pearmain	United States
PI	613827	Amri	Pakistan
PI	589541	Amur Naliv	Former Soviet Union
PI	136243	Amzr Gauthier	France
PI	280008	Ananas Reinette x James Grieve	Yugoslavia
PI	588802	Anaros	Canada
PI	589487	Anis Aliy K-32	Former Soviet Union
PI	280400	Anna	Israel
PI	589046	Annie Elizabeth	United Kingdom
PI	589883	Anoka	United States
PI	107196	Antonovka 1.5 pounds	Former Soviet Union
PI	589956	Antonovka 172670-B	UNKNOWN
PI	589335	Antonovka Debnicka	UNKNOWN
PI	588995	Antonovka Kamenichka	Ukraine
PI	295282	Antonovka Mitchurin	Finland
PI	589837	Antonovka Monasir	UNKNOWN
PI	590149	Antonovka Ottawa	UNKNOWN
PI	589329	Antonovka Polutorafuntovaya	Former Soviet Union
PI	588789	Antonovka Shafran	Former Soviet Union
PI	588800	Antonovka Zheltaia	UNKNOWN
PI	125223	Apfel aus Grunheide	UNKNOWN
PI	392293	AR 86-1-6	UNKNOWN
PI	259446	Arkad Zimnyi	Poland
PI	588952	Arkansas	United States
PI	589117	Arkansas Black	United States
PI	589443	Arlet	Switzerland
PI	589352	Aroma	Canada
PI	589686	Arthur Turner	United Kingdom
PI	589654	Ashmead's Kernel	United Kingdom
PI	588977	Atlas	Canada
PI	344548	Auralia	Germany
PI	589552	Aurora	Former Soviet Union
PI	589141	Autumn Arctic	United States
PI	337436	B-113	Former Soviet Union
PI	337433	B-59	Former Soviet Union
PI	589139	Badami Golden Delicious	United States

Species	Subsp		
PI	589578	Balancier	UNKNOWN
PI	206021	Ballyfatten	United Kingdom
PI	589052	Bancroft	Canada
PI	287160	Banon's Seedling	India
PI	589201	Barkley Rome	United States
PI	589428	Barry	United States
PI	383502	Bashkirian Beauty	Former Soviet Union
PI	589163	Bates Lobo	United States
PI	588846	Battleford	Canada
PI	589566	Baumann's Reinette	Germany
PI	589848	Baxter	Canada
PI	589885	Beacon	United States
PI	589291	Bean	United States
PI	589914	Beatrix	UNKNOWN
PI	588839	Beautiful Arcade	Former Soviet Union
PI	123733	Bedan des parts	France
PI	127004	Bedford Pippin	United Kingdom
PI	589543	Beforest	Canada
PI	105498	Bella de Jardins	France
PI	102537	Bella di Pontoise	France
PI	300258	Belle de Boskoop	Netherlands
PI	162544	Belle de Crollon	France
PI	589584	Belle de Nordhausen	Germany
PI	162709	Belle Fille	France
PI	245048	Belle Fleur Rouge	Netherlands
PI	126495	Belle Imperiale	UNKNOWN
PI	588951	Belle Sans Pepin	UNKNOWN
PI	137090	Bellefleur Double	Belgium
PI	588777	Bellefleur Kitaika	Former Soviet Union
PI	259447	Bellefleur Rekord	Poland
PI	589863	Bemali	UNKNOWN
PI	588953	Ben Davis	United States
PI	590027	Benham	UNKNOWN
PI	194096	Benitts Roter Finkenwerde	UNKNOWN
PI	131964	Berglander	Belgium
PI	589438	Berlepsch Red	UNKNOWN

Species	Subsp		
PI	589435	Berner Rosen	Switzerland
PI	588843	Bessemianka Michurina	Former Soviet Union
PI	589886	Beverly Hills	United States
PI	589043	Bietigheimer	Germany
PI	588750	BII	United States
PI	588751	BII	United States
PI	588749	BII	United States
PI	588748	BII	United States
PI	122598	Binet Blanc	France
PI	158729	Binet Blanc Dore	France
PI	158730	Binet Rouge	France
PI	588790	Bisbee	United States
PI	588967	Bisbee Giant Winesap	United States
PI	160387	Bitterforest Apple	Yugoslavia
PI	589178	Black Ben Davis	United States
PI	589197	Black Crofton	UNKNOWN
PI	588973	Black Gilliflower	United States
PI	341067	Blahova Oranzova Renetor	UNKNOWN
PI	589532	Blahova Ruzena	Czechoslovakia
PI	589098	Blair	Canada
PI	589887	Blairmont	United States
PI	162719	Blanc Mollet	France
PI	506358	Blauacher	Switzerland
PI	589888	Blaxtayman	United States
PI	589593	Blenheim Orange	United Kingdom
PI	590180	Blue Pearmain	UNKNOWN
PI	590172	Bob White	UNKNOWN
PI	162549	Boche	France
PI	589237	Bogo Belle de Boskoop	Netherlands
PI	644154	Bohn	East Germany
PI	644150	Bohnapfel	Switzerland
PI	589134	Boiken	Germany
PI	588961	Boller McIntosh	United States
PI	613962	Bongkshu (880626)	Pakistan
PI	590120	Bonne-Hotture	France
PI	588946	Bonum	United States

Species	Subsp		
PI	590156	Bonza	Australia
PI	589574	Borowitsky	Former Soviet Union
PI	224547	Boskoop Rouge	France
PI	187296	Bouteille	France
PI	162723	Boutteville	France
PI	194199	Bowden Seedling	United Kingdom
PI	632624	Br-1	Brazil
PI	644168	BR-2	Brazil
PI	589442	Braeburn	New Zealand
PI	238786	Bramley	United Kingdom
PI	107171	Bramley's Seedling	United Kingdom
PI	158731	Bramtot	United Kingdom
PI	183958	Bravo de Esmolte	UNKNOWN
PI	632623	Brazil	Brazil
PI	589463	Breakey	Canada
PI	590087	Breakwell's Seedling	UNKNOWN
PI	589563	Brettacher	Germany
PI	589726	Britegold	Canada
PI	589140	Britemac	United States
PI	589685	Brown Snout	United Kingdom
PI	589677	Brown Thorn	United Kingdom
PI	589662	Brown's Apple	United Kingdom
PI	102135	Brunnsapple	Netherlands
PI	293887	Brusnichnoe	Former Soviet Union
PI	324523	Budagovski No.9	Poland
PI	657767	Budagovskii 396	United States
PI	589482	Budagovsky 54-118	UNKNOWN
PI	437038	Budagovsky 57-146	Poland
PI	437039	Budagovsky 57-233	Poland
PI	588830	Budagovsky 57-490	Former Soviet Union
PI	588851	Budagovsky 57-491	Former Soviet Union
PI	588808	Bulmer Norman	United Kingdom
PI	588835	Burgundy	United States
PI	172605	BV 49.11	Germany
PI	172608	BV 82.10	Germany
PI	172609	BV 8421	Germany

Species	Subsp		
PI	589017	C.P. Close	United States
PI	161759	Caillouett	France
PI	589557	Calvil Crymskiy	Former Soviet Union
PI	589596	Calville Blanc	France
PI	162720	Calville du Mont d'Or	France
PI	183961	Canavial-14	Portugal
PI	161830	Cap of Liberty	United Kingdom
PI	589698	Captain Kidd	United Kingdom
PI	588857	Caravel	Canada
PI	589075	Carlton	United States
PI	588832	Carroll	Canada
PI	162710	Cartigny	France
PI	183957	Casa Nova de Alco Baca-9	Portugal
PI	589836	Cathay	United States
PI	589451	CC-14-45	UNKNOWN
PI	588744	Cestra Belferkitaika	UNKNOWN
PI	264688	Champagne Reinette	France
PI	588949	Champlain	UNKNOWN
PI	589445	Charden	UNKNOWN
PI	588978	Charlamoff	Former Soviet Union
PI	589659	Charles Ross	United Kingdom
PI	589071	Chautauqua	United States
PI	286787	Cheal's Golden Gem	United States
PI	589354	Cheal's Weeping	UNKNOWN
PI	199100	Cheddar	United Kingdom
PI	589656	Cheddar Cross	United Kingdom
PI	589890	Chehalis	United States
PI	589239	Chenango Strawberry	United States
PI	589142	Cherry Cox	Denmark
PI	161831	Cherry Pearmain	United Kingdom
PI	588803	Chestnut Crab	United States
PI	589854	Chieftain	United States
PI	588806	Chisel Jersey	United Kingdom
PI	589696	Chiver's Delight	United Kingdom
PI	187297	C'Huero Biz Bras	France
PI	187298	C'Huero Ru Bienn	UNKNOWN

Species	Subsp		
PI	383503	Chulanka	Former Soviet Union
PI	589018	Cimitiere	UNKNOWN
PI	102639	Circassian Apple	Former Soviet Union
PI	392306	Clarke	United States
PI	131001	Claudius Herbstapfel	Germany
PI	589224	Clear Gold	United States
PI	206022	Clear Heart	Ireland
PI	589705	Cleopatra	United States
PI	344550	Clivia	Poland
PI	589076	Close	United States
PI	349324	Coast Apple	South Africa
PI	589175	Coat Jersey	United Kingdom
PI	589853	Coconut Crunch	United States
PI	589103	Colby Baldwin	United States
PI	129820	Cole	United Kingdom
PI	589191	Collamer Twenty Ounce	United States
PI	589470	Collet	Canada
PI	162712	Colozette	France
PI	589160	Conkle Jonathan 2-4-4-4	United States
PI	589330	Conrad	United States
PI	590121	Cornish Aromatic (Wakeley)	United Kingdom
PI	589065	Cornish Gilliflower	United Kingdom
PI	589183	Cornwall McIntosh 2-2-2-4	United States
PI	588848	Cortland	United States
PI	589601	Court Pendu	UNKNOWN
PI	589591	Court Pendu de France	UNKNOWN
PI	589602	Court Pendu Gris	France
PI	123960	Court Pendu Plat	United Kingdom
PI	589587	Court Pendu Rose	UNKNOWN
PI	589671	Court Royal	United Kingdom
PI	247021	Cox's Orange	Denmark
PI	247022	Cox's Orange Cherry	Denmark
PI	247023	Cox's Orange Otago	UNKNOWN
PI	588853	Cox's Orange Pippin	United Kingdom
PI	588997	Crab C	United Kingdom
PI	589172	Crandall	United States

Species	Subsp		
PI	590146	Crandall	United States
PI	589489	Cranzhevoje	Former Soviet Union
PI	157728	Crawley Reinette	United Kingdom
PI	383504	Creamy Kitaika	Former Soviet Union
PI	123735	Cremiere	UNKNOWN
PI	589024	Crimson Beauty	Canada
PI	113703	Crimson Bramley	United Kingdom
PI	589215	Crimson Gold	United States
PI	158618	Crimson King	United Kingdom
PI	589846	Crimson Superb	United Kingdom
PI	306320	Crittenden	United Kingdom
PI	162721	Crollon	France
PI	589712	Crookston	UNKNOWN
PI	589196	Crow Egg	United States
PI	589963	Crown Prince Rudolf	UNKNOWN
PI	589559	Crymus	Ukraine
PI	666184	Culinara	Brazil
PI	589498	Dab 100	Germany
PI	589073	Dabinett	UNKNOWN
PI	589223	Dakota	United States
PI	162722	Damelot	France
PI	590122	D'Arcy Spice	United Kingdom
PI	162062	Daux Belan	UNKNOWN
PI	590183	Dayton	United States
PI	127358	De Flanders	France
PI	588985	Deacon Jones	United States
PI	188515	Dekkers Glorie	UNKNOWN
PI	105505	Del Cirio	Spain
PI	588797	Delcon	United States
PI	590189	Delia	Romania
PI	613828	Delicios de Voinești	Romania
PI	589841	Delicious	United States
PI	590155	Delikates	UNKNOWN
PI	589315	Delistein	United States
PI	644251	Demir Elmasi	Turkey
PI	589111	Democrat	Australia

Species	Subsp		
PI	589152	Dermen Black Stayman	United States
PI	589110	Dermen Delicious 4X	United States
PI	589199	Dermen McIntosh 4X	United States
PI	589193	Dermen Paragon 3-6-6	United States
PI	589148	Dermen Paragon 6-3-3	United States
PI	589217	Dermen Stayman 3-6-6	United States
PI	589236	Dermen Stayman 6-3-3	United States
PI	589080	Dermen Winesap 2-4-4	United States
PI	588962	Diana	Canada
PI	589589	Directeur Lesage	Belgium
PI	589900	Discovery	United Kingdom
PI	264689	Djulabia	Yugoslavia
PI	173979	Domaine	France
PI	589913	Dorsett Golden	Bahamas
PI	131104	Double Bon Pommier	France
PI	161760	Doucet Rouge	UNKNOWN
PI	589254	Doud Golden Delicious 2-4-4-4	United States
PI	589667	Doux Normandie	United Kingdom
PI	162547	Doux Tardif	France
PI	162715	Doux Tardif	France
PI	122616	Doux-AMR	France
PI	537000	Drakenstein	South Africa
PI	131823	Drap d'Or Guemene	France
PI	589915	Dubbele Zoete Aagt	UNKNOWN
PI	588801	Duchess	UNKNOWN
PI	126873	Duchess Favorite	United Kingdom
PI	589910	Dudley	United States
PI	175542	Dufflin	United Kingdom
PI	341069	Dukat	Czechoslovakia
PI	613963	Dulcina	Brazil
PI	589666	Dunkerton Late Sweet	United Kingdom
PI	589050	Dunning	United States
PI	589342	E 12-14	South Africa
PI	590179	E.8	United States
PI	589706	Earliblaze	UNKNOWN
PI	589068	Earlibrite Delicious	United States

Species	Subsp		
PI	589293	Early Banta	United States
PI	589713	Early Bird Red	UNKNOWN
PI	589147	Early Cortland	United States
PI	589702	Early Crimson	United Kingdom
PI	589015	Early Harvest	United States
PI	613816	Early Joe	United States
PI	589023	Early McIntosh	United States
PI	590125	Edelroter	Austria
PI	392312	Edward VII	United Kingdom
PI	260000	Egremont Russet	United Kingdom
PI	437052	Egri Piros	Hungary
PI	302301	Eickhoff	Zimbabwe
PI	280401	Ein Shemer	Israel
PI	437037	Ein Shemer 28	Israel
PI	344551	Elektra	Germany
PI	238028	Elisa Ratkee	Poland
PI	588886	Elise Rathke	UNKNOWN
PI	352654	Elita 20 Marculesti	Romania
PI	589650	Ellis Bitter	United Kingdom
PI	589575	Ellison's Orange	United Kingdom
PI	589440	Elstar	Netherlands
PI	123989	Emilia	Canada
PI	589661	Emneth Early	United Kingdom
PI	588842	Empire	United States
PI	589316	Empress Spur Golden Delicious	United States
PI	590148	Erickson	United States
PI	589638	Erl Trio	United States
PI	383505	Ermak	Former Soviet Union
PI	589238	Ernst Bosch	Germany
PI	589029	Erwin Bauer	Germany
PI	588785	Esopus Spitzenburg	United States
PI	589549	Eurika	Ukraine
PI	137042	Euzia	Switzerland
PI	589649	Exeter Cross	United Kingdom
PI	589512	F 12 A28	UNKNOWN
PI	589462	F 14 A15	Europe

Species	Subsp		
PI	502163	F1-48-95	Romania
PI	613829	F2-33-27	UNKNOWN
PI	588954	Fall Pippin	United States
PI	589012	Fall Russet	United States
PI	589294	Fallowater	United States
PI	589350	Fantazja	Former Soviet Union
PI	589047	Farmer Spy	United States
PI	590126	Fenouillet de Ribours	France
PI	136591	Fenouillet Gris	France
PI	125686	Feys Record	UNKNOWN
PI	589055	Field Spy	United States
PI	589679	Fillbarrel	United Kingdom
PI	651010	Finkenwerder Herbstprinz	Germany
PI	644191	Fireside	United States
PI	588747	Florina	France
PI	589174	Flower of Kent	United Kingdom
PI	502161	FO-59-4	Romania
PI	502162	FO-80-10	Romania
PI	589318	Foxwhelp	United Kingdom
PI	589167	Freiherr Von Berlepsch	Germany
PI	162503	Frequin	France
PI	161838	Frequin Audievre	United Kingdom
PI	247314	Frequin Lacaille	France
PI	589689	Frequin Tardive de la Sarthe	United Kingdom
PI	276299	Freyberg	New Zealand
PI	590127	Friandise	Netherlands
PI	104790	Frogmore	United Kingdom
PI	657766	Frostbite	United States
PI	589182	Frostproof	United States
PI	589064	Fruitland Delicious	United States
PI	589208	Fruitland Delicious 2-4-4-4	UNKNOWN
PI	588796	Frumos de Voinesta	Romania
PI	187352	Fuero Rous	France
PI	588844	Fuji Red Sport Type 2	Japan
PI	589672	Fyriki	United Kingdom
PI	502164	G-22	Romania

Species	Subsp		
PI	392303	Gala	New Zealand
PI	589850	Gales	UNKNOWN
PI	613966	Galicia	Brazil
PI	224609	Gallen	Finland
PI	589034	Gallia Beauty	United States
PI	589168	Garland	Canada
PI	589176	Garrison	United States
PI	644156	GB 63-43 (Granite Belt)	Australia
PI	255599	GDWF1	Australia
PI	589123	Geeveston Fanny	Australia
PI	644153	Generos	Romania
PI	589079	Geneva	Canada
PI	613819	Geneva Ontario	United States
PI	644177	Geoagiu	Romania
PI	651009	Geoagiu 21	Romania
PI	589683	George Cave	United Kingdom
PI	132225	Gewurzluiken	Germany
PI	306321	Gibbs Golden Gage	United Kingdom
PI	590023	Gilliflower	United Kingdom
PI	102140	Gladstone	United Kingdom
PI	589524	Glenorchie	Canada
PI	134808	Glockenapfel	Switzerland
PI	589040	Gloria Mundi	United States
PI	589916	Glorie van Holland	Netherlands
PI	644164	Goharaman	Pakistan
PI	157207	Gold Canel	Finland
PI	590184	Golden Delicious	United States
PI	589041	Golden Delicious (Smoothee)	United States
PI	589146	Golden Delicious 4E-25-2	Canada
PI	589535	Golden Delicious SE-69	Czechoslovakia
PI	318683	Golden Delicious x Jonathan	Italy
PI	590128	Golden Harvey	United Kingdom
PI	589165	Golden Melon	Japan
PI	589126	Golden Nugget	UNKNOWN
PI	590129	Golden Pippin	United States
PI	589448	Golden Precocce	France

Species	Subsp		
PI	383507	Golden Reinette	Former Soviet Union
PI	589892	Golden Russet	United Kingdom
PI	383509	Golden Uralian	Former Soviet Union
PI	589844	Golden Winesap	United States
PI	589458	Goldgelb 55544	Germany
PI	318409	Goldjon	Italy
PI	312811	Goldjon Carlone (No. 35F)	UNKNOWN
PI	134807	Goldreinette v. Cazis	Switzerland
PI	613833	Goldsmith	South Africa
PI	644190	Goldspur Golden Delicious	United States
PI	590158	Goodland	Canada
PI	613935	Granerly	South Africa
PI	644186	Granite Beauty	United States
PI	588880	Granny Smith	Australia
PI	589233	Graue Renette Von Zabergau	Germany
PI	588837	Gravenstein Washington Red	Denmark
PI	589069	Green Peak McIntosh 2-2-4-4	United States
PI	589132	Green Peak Spy #1	UNKNOWN
PI	589179	Greendale	United States
PI	256108	Greenmeadows Cox's Orange Pippin No.1163	New Zealand
PI	589673	Greensleeves	United Kingdom
PI	590086	Greensweet	UNKNOWN
PI	589684	Grenadier	United Kingdom
PI	589070	Griffith	United States
PI	588791	Grimes Golden	United States
PI	125746	Grise Dieppoise	France
PI	173981	Gros Bois	France
PI	131105	Gros Frequin	France
PI	161761	Grosse Launette	France
PI	162545	Grosse Mouche	France
PI	307505	Grotz Liebling	UNKNOWN
PI	383510	Gruzhovka of Moscow	Former Soviet Union
PI	589468	H53-F15-6	Romania
PI	589473	H55-109-149	Romania
PI	132759	Halberstadter Jungfernapfel	Germany
PI	589187	Hall Keeper	United States

Species	Subsp		
PI	589469	Haralson	United States
PI	589523	Harcourt	Canada
PI	590220	Hardy Cumberland	United States
PI	589653	Harry Masters Jersey	United Kingdom
PI	589310	Harvey (England)	United Kingdom
PI	588792	Hawaii	United States
PI	392304	Hawkes Bay Red Delicious	New Zealand
PI	590026	Hawkeye	United States
PI	307501	Hedwigiae	Germany
PI	506359	Heimenhofer	Switzerland
PI	135689	Heiya	Japan
PI	589295	Hendrick Sweet	UNKNOWN
PI	344552	Herma	Germany
PI	274066	Hermann	United States
PI	136001	Herring's Pippin	United Kingdom
PI	151255	Heyer #2	United States
PI	589911	Hibernal	United States
PI	589585	Holaart Doux	Netherlands
PI	589669	Holiday	United States
PI	589847	Holland	United States
PI	589893	Holly	United States
PI	589660	Holstein	Germany
PI	206026	Honey Ball	Ireland
PI	644174	Honeycrisp	United States
PI	588939	Honeygold	United States
PI	344553	Honora	Canada
PI	265302	Hoover	United States
PI	506360	Hordapfel	Switzerland
PI	588986	Hotle Rome	United States
PI	589668	Howgate Wonder	United Kingdom
PI	644171	Hua Guan	China
PI	590130	Hubbards Pearmain	United Kingdom
PI	589202	Hubbardston Nonsuch	United States
PI	590157	Hudson's Golden Gem	United States
PI	247025	Huidobro	Denmark
PI	589044	Hunter Melba 4X	Canada

Species	Subsp		
PI	589092	Hunter Ottawa 244 4X	Canada
PI	589004	Hunter Sandow 2-4-4	Canada
PI	589231	Hunter Spartan 2-4-4	Canada
PI	589203	Hunter Spy 2-4-4	Canada
PI	224610	Huvitus	Finland
PI	154160	Hybride Aus Mlejewo	Germany
PI	589189	Idagold	United States
PI	589037	Idaho Spur Delicious	United States
PI	588841	Idared	United States
PI	199690	Ikorocavka Alaja	Former Soviet Union
PI	127011	Imperial	United Kingdom
PI	283698	Imperial Stayman	United States
PI	589682	Improved Lambrook Pippin	United Kingdom
PI	589355	Inducoa No. 1	Spain
PI	613830	Inducoa No. II	Spain
PI	114318	Ingers	France
PI	589441	Ingol	Germany
PI	589072	Ingram	United States
PI	279447	Ingrid Marie	Denmark
PI	104727	Irish Peach	Ireland
PI	307515	Isayev's Desertnyi	Poland
PI	590131	Isle of Wight Pippin	France
PI	293885	Iunost	Former Soviet Union
PI	589637	Ivan	United States
PI	279643	Ivette	Netherlands
PI	589537	Jadernicka	Czechoslovakia
PI	341744	Jakob Fischer	UNKNOWN
PI	589917	Jamba	UNKNOWN
PI	246464	James Grieve (Red Rosamund strain)	United Kingdom
PI	589918	Jan Steen	Netherlands
PI	161762	Jaune lu Desert	France
PI	589185	Jefferis	United States
PI	588863	Jerseymac	United States
PI	589159	Jerseyred	United States
PI	148478	Jewel	United Kingdom
PI	644185	Jewett Red	United States

Species	Subsp		
PI	644165	Jin Guang	China
PI	588972	Joan	United States
PI	194106	Johannes Bottner	Germany
PI	123726	John Standish	United Kingdom
PI	589206	Johnson McIntosh 2-4-4-4	United States
PI	589962	Jonafree	United States
PI	588941	Jonagold	United States
PI	589002	Jonagram	United States
PI	613815	Jonalicious	United States
PI	588858	Jonamac	United States
PI	588940	Jonared	United States
PI	590185	Jonathan	United States
PI	589296	Jones Favorite	United States
PI	589704	Joseph Musch	Belgium
PI	162731	Jouveaux	France
PI	589555	Joys	Former Soviet Union
PI	590165	J-TE-B	Czechoslovakia
PI	590167	J-TE-D	Czechoslovakia
PI	590167	J-TE-D	Czechoslovakia
PI	590169	J-TE-G	Czechoslovakia
PI	590188	J-TE-H (15707)	Czechoslovakia
PI	589725	Jubilee	Canada
PI	588942	Julyred	United States
PI	589131	June Wealthy	United States
PI	589564	Kaiser Wilhelm	Germany
PI	589169	Kamsomolez	United States
PI	322714	Kandil Kitaika	Former Soviet Union
PI	613948	Kandil Sinap	Ukraine
PI	259449	Kanorkowa	Poland
PI	437062	Karastojanka	Bulgaria
PI	666181	Karastoyanka	Bulgaria
PI	589568	Kardinal Bea	Germany
PI	589249	Katherine	United States
PI	589492	Katja	Sweden
PI	104799	Kavlas	Sweden
PI	203814	Keegan's Crab	United Kingdom

Species	Subsp		
PI	206029	Keegan's Crab	United Kingdom
PI	589894	Keepsake	United States
PI	589049	Kelly #1	United States
PI	206030	Kemp	United Kingdom
PI	589000	Kendall	United States
PI	264557	Kerry Pippin	Ireland
PI	589504	Kestrel	Canada
PI	589248	Keukelaar Greening	UNKNOWN
PI	589590	Keuleman	Belgium
PI	292134	Khashabi	Israel
PI	247026	Kidd's Orange Red	New Zealand
PI	392308	Kile	Australia
PI	589122	Kimball McIntosh 2-4-4-4	United States
PI	249925	King Cole	Australia
PI	589156	King David	United States
PI	589678	King Edward VII	United Kingdom
PI	175010	King Harry	United Kingdom
PI	589676	King of the Pippins	United Kingdom
PI	590150	Kingjon	United States
PI	589703	Kingston Black	United Kingdom
PI	589944	Kinsei	Japan
PI	644160	Kitaika Saninskaia	Former Soviet Union
PI	292930	Kitaika Zolotaia Ranniaia	Former Soviet Union
PI	590154	Kitanosachi	Japan
PI	30327	Kizil alma 826	China
PI	590153	Kogetsu	Japan
PI	657748	Koidu Renett	Estonia
PI	644183	Koidu Renett	Estonia
PI	347268	Kokko strain 2	Japan
PI	383512	Komlensk	Former Soviet Union
PI	188517	Koningszuur	Netherlands
PI	199527	Korei	Japan
PI	589488	Korichnoe Novae K23938	Former Soviet Union
PI	589491	Korichnoe Polosatoje	Former Soviet Union
PI	383513	Korobovka	Turkey
PI	369714	Kosmonaut	Czechoslovakia

Species	Subsp		
PI	188516	Kouleman	Netherlands
PI	293889	Krapchatoe	Former Soviet Union
PI	262970	Krievu Rosmarins	Latvia
PI	259450	Kulon Kitaika	Poland
PI	157209	Kuotesaho	Finland
PI	666186	Kuzcharhy	Turkmenistan
PI	589598	La Paix	Belgium
PI	589053	Lady	France
PI	502248	Lady Williams	Australia
PI	589186	Lakeland	United States
PI	242011	Lalla Red Delicious	Australia
PI	199418	Lamb Abbey Pearmain-A	United Kingdom
PI	199419	Lamb Abbey Pearmain-B	United Kingdom
PI	161839	Lambrook Pippin	United Kingdom
PI	162724	Lande	France
PI	589565	Landsberger Reinette	Germany
PI	128362	Langley Pippin	United Kingdom
PI	161851	Langworthy	United Kingdom
PI	589059	Large Yellow Siberian	UNKNOWN
PI	589066	Late Strawberry	United States
PI	162732	Launette	France
PI	127009	Laxton's Fortune	United Kingdom
PI	589646	Laxton's Fortune	United Kingdom
PI	131463	Laxton's Herald	United Kingdom
PI	127013	Laxton's Leader	United Kingdom
PI	127015	Laxton's Pioneer	United Kingdom
PI	176819	Laxton's Reward	United Kingdom
PI	589026	Laxton's Superb	United Kingdom
PI	589690	Le Bret	United Kingdom
PI	161407	Lemoen	Netherlands
PI	157731	Lemon Pippin	United Kingdom
PI	644250	Leuchapfel	Switzerland
PI	131970	Lewis Incomparable	United Kingdom
PI	349325	Leyda	South Africa
PI	644170	Liaofu	China
PI	588943	Liberty	United States

Species	Subsp		
PI	35636	Liestnaya Antonoffku	Former Soviet Union
PI	589032	Linda	Canada
PI	589475	Lindel	Canada
PI	183955	Lindo da Insua-6	Portugal
PI	589536	Litevsky Jadernac	Czechoslovakia
PI	589560	Livadiyskoye	Ukraine
PI	264690	Ljaljce	Yugoslavia
PI	143180	Lobo	Canada
PI	588878	Lodi	United States
PI	589920	Lombart's Calville	Netherlands
PI	590024	Longfield	Former Soviet Union
PI	589207	Loop Giant Spy	United States
PI	589096	Loop Red Spy	United States
PI	589033	Loop Rome 2-2-2-4	United States
PI	589102	Loop Russet Baldwin	United States
PI	589027	Loop Spy 2-2-4-4	UNKNOWN
PI	589263	Loop Wealthy 2-4-4-4	United States
PI	589681	Lord Derby	United Kingdom
PI	123746	Lord Hindlip	United Kingdom
PI	588884	Lord Lambourne	United Kingdom
PI	589063	Lord Seedling	United States
PI	589707	Lord Wolsley	United Kingdom
PI	161840	Lorna Doone	United Kingdom
PI	589298	Lovell	United States
PI	589150	Lowry	UNKNOWN
PI	590159	Loyalist	Canada
PI	589529	Lubec #1	United States
PI	589365	Luke	Canada
PI	589967	Lurared	UNKNOWN
PI	589086	Lyman Prolific	United States
PI	619161	Lyons	United States
PI	263633	M. sp. 'Rootstock'	United Kingdom
PI	588829	M.1	United Kingdom
PI	589926	M.10	Netherlands
PI	589927	M.11	Netherlands
PI	437058	M.13	United Kingdom

Species	Subsp		
PI	589928	M.13	Netherlands
PI	588877	M.2	United Kingdom
PI	588813	M.20	United Kingdom
PI	588879	M.25	United Kingdom
PI	337319	M.26	United Kingdom
PI	589347	M.4	United Kingdom
PI	588816	M.7	United Kingdom
PI	588845	M.8	United Kingdom
PI	588826	M.9 (Troch Strain)	Belgium
PI	589895	Macoun	United States
PI	588999	MacSpur	Canada
PI	589153	Magnolia Gold	United States
PI	437063	Maharaji	India
PI	589105	Maiden Blush	United States
PI	588854	Maigold Schin-H-6	Switzerland
PI	150649	Major	United States
PI	613817	Malinda	United States
PI	644176	Malinda	United States
PI	589495	Malling Kent	United Kingdom
PI	613950	Mal't Bagaevskii	Former Soviet Union
PI	162716	Manch Rouge	France
PI	589155	Manito	UNKNOWN
PI	589345	Manitoba Spy	Canada
PI	141240	Mannington Pearmain	United Kingdom
PI	589367	Mantet	Canada
PI	589171	March #1	United States
PI	264558	Margil	United Kingdom
GMAL	4811	Maria Elena	Spain
PI	264691	Maribor No. 2439	Yugoslavia
PI	280015	Mariborka	Slovenia
PI	589580	Marie-Joseph d'Othee	Belgium
PI	173982	Marin Onfroy	France
PI	613965	Marquesa	Brazil
PI	588998	Marshall McIntosh	United States
PI	589061	Martha	United States
PI	589576	Martini VH/430	UNKNOWN

Species	Subsp		
PI	589714	Maude	UNKNOWN
PI	162713	Maurerbe	France
PI	341745	Maunzenapfel	Germany
PI	589124	McClintock Grimes	United States
PI	588817	McIntosh Summerland Red	Canada
PI	589106	McNicholas Greening	United States
PI	589531	Medina	United States
PI	589177	Megumi	Japan
PI	589112	Melba	Canada
PI	342430	Melon	UNKNOWN
PI	588815	Melred	Canada
PI	589362	Melrose	United States
PI	589709	Merton 778	UNKNOWN
PI	589710	Merton 793	UNKNOWN
PI	589849	Merton Ace	United Kingdom
PI	205460	Merton Beauty	United Kingdom
PI	205461	Merton Delight	United Kingdom
PI	589299	Merton Joy	United Kingdom
PI	589429	Merton Knave	United Kingdom
PI	133101	Merton No. 789	United Kingdom
PI	589695	Merton Pearmain	United Kingdom
PI	205462	Merton Pippin	United Kingdom
PI	199009	Merton Worcester	United Kingdom
PI	173983	Metais	France
PI	162717	Mettais	France
GMAL	4888	MianPing Guo	China
PI	589945	Michaelmas Red	United Kingdom
PI	589670	Michelin	United Kingdom
PI	259451	Michurin's Bessiemia	Former Soviet Union
PI	588964	Michurin's Seedless	UNKNOWN
PI	589042	Middleton Fameuse	United States
PI	307506	Mill End	UNKNOWN
PI	588956	Milton	United States
PI	589216	Milwaukee	United States
PI	244724	Mingan	Spain
PI	131007	Minister von Hammerstein	Germany

Species	Subsp		
PI	589030	Minnehaha	United States
PI	238074	Mio	Sweden
PI	154164	Miron Sacharanij	Germany
PI	644158	Mironchik	Former Soviet Union
PI	588746	Mislimka	United States
PI	154165	Mitschurins Samenloser	UNKNOWN
PI	589548	Mleevskaya Crasavitsa	Ukraine
PI	588811	MM.102	United Kingdom
PI	588781	MM.104	United Kingdom
PI	588794	MM.109	United Kingdom
PI	588812	MM.111	United Kingdom
PI	134431	Mobb's Royal	New Zealand
PI	590160	Moira	Canada
PI	588981	Mollie's Delicious	United States
PI	589045	Monmouth Beauty	United States
PI	588772	Monroe	United States
PI	589256	Montgomery	United States
PI	589715	Morden 358	Canada
PI	589516	Morden 359	Canada
PI	589716	Morden 360	Canada
PI	589234	Morden 363	Canada
PI	589077	Mother	United States
PI	162735	Mottais	France
PI	126887	Mr. Prothero	United Kingdom
PI	589300	Mucina	Latvia
PI	589855	Murasaki	Japan
PI	589486	Murray	Canada
PI	200780	Muscadet Bernay	France
PI	589493	Muscadet de Dieppe	France
PI	173985	Muscadet de Lense	France
PI	223602	Mutsu	Japan
PI	30326	Muz-alma	Turkistan
PI	131215	Nanny	United Kingdom
PI	161763	Nanot	France
PI	589542	Narjadnoye Crysmskoye	Former Soviet Union
PI	613961	Naskushu (880590)	Pakistan

Species	Subsp		
PI	175544	Nehou	United Kingdom
PI	161843	Neverblight	United Kingdom
PI	589655	NFTI	United Kingdom
PI	589145	Niagara	United States
PI	589600	Nico	Belgium
PI	154166	Nitschners Erdbeerapfel	Germany
PI	588810	Nittany	United States
PI	589104	No Blow	United States
PI	280013	No. 7141	Yugoslavia
PI	170036	No.39	Turkey
PI	173986	Noel Deschamps	France
PI	589472	Noran	Canada
PI	589447	Norcue	Canada
PI	589501	Norda	Canada
PI	589521	Noret	Canada
PI	157733	Norfolk Beefing	United Kingdom
PI	123729	Norfolk Royal	United Kingdom
PI	589503	Norhey	Canada
PI	589481	Norland	Canada
PI	589485	Norson	Canada
PI	590171	Northern Lights	UNKNOWN
PI	588872	Northern Spy	United States
PI	589718	Northland	United States
PI	589896	Northwest Greening	United States
PI	589647	Northwood	United Kingdom
PI	137094	Notaire	Belgium
PI	588838	Nova Easygro	Canada
PI	613939	Novaspy	Canada
PI	589547	Novinka	Former Soviet Union
PI	589478	Novosibirski Sweet	Former Soviet Union
PI	307380	Nubeena	Australia
PI	589430	Nugget	United States
PI	644162	Nurshah	Pakistan
PI	590182	NY 55	UNKNOWN
PI	589554	Obilnoye	Ukraine
PI	279645	Odin	Netherlands

Species	Subsp		
PI	589921	Odin	Netherlands
PI	78170	Oekonomierat Echter-meyer	Germany
PI	134809	Oetwiler Renette	Switzerland
PI	589431	Ogden	United States
PI	589852	Ohio Nonpareil	United States
PI	589173	Ohlson	United States
PI	590133	Old Pearmain	United Kingdom
PI	589562	Oldenburg	Germany
PI	590022	Oliver or Senator	United States
PI	237702	Ontario	Canada
PI	199692	Oratia Beauty	New Zealand
PI	589035	Oregon Spur Delicious	United States
PI	199531	Orei	Japan
PI	589232	Orin	Japan
PI	589897	Oriole	United States
PI	276567	Orleans	United States
PI	589301	Ortley	United States
PI	589028	Oswego	United States
PI	590152	Ottawa #524	UNKNOWN
PI	589479	Ottawa 271	Canada
PI	589719	Ottawa 274	Canada
PI	589340	Ottawa 292	Canada
PI	589471	Ottawa 4	Canada
PI	589476	Ottawa 5210	Canada
PI	666189	Ottawa 523	United States
PI	589453	Ottawa 546	Canada
PI	137581	Ottawa No. 322	Canada
PI	589302	Ottawa SRO 522	Canada
PI	127703	Oxbo	United States
PI	588982	Ozark Gold	United States
PI	437042	P.13	Poland
PI	437043	P.14	Poland
PI	437044	P.16	Poland
PI	352653	P.2	Poland
PI	437046	P.22	Poland
PI	437045	P-18	Poland

Species	Subsp		
PI	589968	Pacific Gold	United States
PI	199420	Padley's Pippin	United Kingdom
PI	383514	Paide's Winter Apple	Former Soviet Union
PI	262969	Paides Ziemas Abols	Latvia
PI	644161	Papirovka	Former Soviet Union
PI	162507	Paradis Do Vayre	France
PI	105388	Paradiso	Italy
PI	589323	Paradiso	UNKNOWN
PI	589039	Paragon	United States
PI	123964	Paraquet	United Kingdom
PI	589118	Patricia	Canada
PI	589494	Patterson	Canada
PI	588821	Patul	Romania
PI	589969	Paulared	United States
PI	632625	Paulista	Brazil
PI	162740	Peau D'Ane	France
PI	136489	Peau de Vache	France
PI	589240	Peck Pleasant	United States
PI	104807	Pederstrup	Denmark
PI	644159	Pepin Litovskit	Former Soviet Union
PI	259452	Pepin Shafrannyi	Former Soviet Union
PI	589116	Pepinka Litowska	Former Soviet Union
PI	589099	Perrine Yellow Transparent	United States
PI	589158	Perrine York 2-4-4-4	United States
PI	276718	Pervenec Samarkanda	Uzbekistan
PI	589674	Pethyre	United Kingdom
PI	589970	Petrel	United States
PI	590177	Pewaukee	United States
PI	589474	Peypring Cerueuko	Romania
PI	589595	Pfirsichroter Sommerapfel	Germany
PI	259453	Piervomaiskoie	Moldova
PI	589597	Pigeonnet	Belgium
PI	132272	Pigeonnet Blanc	France
PI	132273	Pigeonnet Rouge	France
PI	157734	Pine Golden Pippin	United Kingdom
PI	588980	Pink Pearl	United States

Species	Subsp		
PI	644152	Pionier	Romania
PI	279323	Pitmaston Pineapple x 692	France
PI	589687	Pixie	United Kingdom
PI	274840	PK.14	United States
PI	588745	Pohorka	Yugoslavia
PI	134668	Pomme Cloche	Germany
PI	131975	Pomme Framboise	Netherlands
PI	589242	Pomme Grise	Canada
PI	134669	Pomme Raisin	Switzerland
PI	162548	Pomme Thoury	France
PI	240817	Pommier Llorca	United Kingdom
PI	589212	Porter	United States
PI	589851	Potomac	United States
PI	392309	Potter	Australia
PI	589127	Potter Cox	United Kingdom
PI	126586	Pott's Seedling	United Kingdom
PI	589898	Prairie Spy	United States
PI	122620	Pres. Descours-Desacres	France
PI	666190	PRI-1279-2	United States
PI	483255	Priam	France
PI	589229	Primate	United States
PI	589437	Primrouge	UNKNOWN
PI	588834	Prince Charming	Canada
PI	137047	Prince Nicolas	Switzerland
PI	280018	Priol's Delicious	Yugoslavia
PI	589965	Priscilla	United States
PI	589257	Pumpkin Sweet	United States
PI	644188	Pup's Fleurie	United States
PI	644189	Pup's Jeannette	United States
PI	644187	Pup's Tego	United States
PI	589966	Puregold	United States
PI	589594	Purpurroter Cousinot	UNKNOWN
PI	589579	Quastresse	UNKNOWN
PI	589036	Quebec Belle	Canada
PI	613960	Quetta Ambri (880570)	Pakistan
PI	589303	Quindell	United States

Species	Subsp		
PI	644192	Quing Guan	China
PI	589358	Quinte	Canada
PI	589586	Radoux	Belgium
PI	588798	Rambo-Red Summer	United States
PI	589582	Rambour Franc	France
PI	161765	Rambourg Mortier	France
PI	589357	Ranger	Canada
PI	589136	Razor Golden Delicious	United States
PI	143973	Red Apple	Canada
PI	589054	Red Astrachan	Former Soviet Union
PI	214080	Red Australian Rome Beauty	Denmark
PI	589899	Red Baron	United States
PI	264692	Red Belflower	Yugoslavia
PI	589265	Red Canada	United States
PI	207636	Red Cinnamon	Finland
PI	246461	Red Cox's Pomona	Denmark
PI	589923	Red Dijmanszoet	Netherlands
PI	589708	Red Dougherty	New Zealand
PI	161845	Red Jersey (Loyal Drain)	United Kingdom
PI	123730	Red Joaneting	United Kingdom
PI	589304	Red Paducah	United States
PI	437047	Red Ralls	United States
PI	589087	Red Sauce	United States
PI	589100	Red Spitzenburg	United States
PI	589842	Red Spy	UNKNOWN
PI	589048	Red Westfield Seek-No-Further	United States
PI	589211	Redfield	United States
PI	589056	Redford	United States
PI	594111	Redfree	United States
PI	589067	Redgold	United States
PI	589062	Redhook	United States
PI	589255	Redspur Delicious	United States
PI	175543	Redstreak	United Kingdom
PI	589901	Redwell	United States
PI	589902	Regent	UNKNOWN
PI	206031	Reid's Seedling	United Kingdom

Species	Subsp		
PI	158736	Reine des Hatives	France
PI	132571	Reine des Pommes	France
PI	279326	Reine des Reinettes x 1700	France
PI	279325	Reine des Reinettes x 82	France
PI	105524	Reineta do Caravia	Spain
PI	589444	Reinette Clochard	France
PI	590135	Reinette d' Anjou	Belgium
PI	322032	Reinette Da Mana	France
PI	590136	Reinette de Cuzy	France
PI	131828	Reinette do Chenee	France
PI	590137	Reinette Franche	United Kingdom
PI	589588	Reinette Grise	Canada
PI	590138	Reinette Grise de Portugal	Portugal
PI	131561	Reinette Jaegers	Belgium
PI	135645	Reinette Jamin	France
PI	131978	Reinette Jaune de Butzel	Belgium
PI	590139	Reinette Ontz	Belgium
PI	483257	Reinette Simirenko	Former Soviet Union
PI	590140	Reinette Thouin	France
PI	162741	Reinette Tres Tardive	France
PI	188521	Reinette van Ekenstein	Netherlands
PI	259454	Renet Bergamotnyj	Former Soviet Union
PI	104034	Renetta Dorata	Italy
PI	131081	Renown	United Kingdom
PI	105528	Repinaldo do Liebana	Spain
PI	589721	Reta	United States
PI	589700	Rev. W. Wilks	United Kingdom
PI	262968	Reveles Bumbierabols	Latvia
PI	589520	Rhode Island Greening	United States
PI	588840	Ribston	United Kingdom
PI	589151	Richared Delicious	United States
PI	590161	Richelieu	Canada
PI	589722	Richland Crab	UNKNOWN
PI	589466	Roda Mantet	Netherlands
PI	588968	Rogers McIntosh	United States
PI	307381	Rokewood	Australia

Species	Subsp		
PI	588850	Rome Beauty Law	United States
PI	589130	Rose Bud	United States
PI	322033	Rose de Benauge	Unknown
PI	589137	Rose Red Delicious	United States
PI	589648	Rosemary Russet	United Kingdom
PI	590141	Ross Nonpareil	Ireland
PI	589452	Rossoshanskoje Polosatoje	Former Soviet Union
PI	589457	Rosu de Cluj	Romania
PI	613831	Rosu de Cluj	Romania
PI	589592	Roter Eiserapfel	Germany
PI	102148	Rott jarnpple	Sweden
PI	589143	Rouge Belle de Boskoop	UNKNOWN
PI	141243	Rougemont	United Kingdom
PI	644180	Roumyana	Bulgaria
PI	136604	Rousse Latour	France
PI	590187	Rouville	Canada
PI	588971	Roxbury Russet	United States
PI	651008	Royal Gala	United States
PI	175545	Royal Jersey	United Kingdom
PI	123966	Royal Jubilee	United Kingdom
PI	150650	Royal Wilding	United Kingdom
PI	136605	Royale d'Angleterre	United Kingdom
PI	293888	Rozovoe	Former Soviet Union
PI	307517	Rozovoye Priewoskhodnoye	Poland
PI	282934	Rubra Precoce Breviglieri	Italy
PI	126588	Ruhm aus Kirchwarder	Germany
PI	588849	Russian	UNKNOWN
PI	589312	Russian sdg.	UNKNOWN
PI	199421	Safstaholm	Sweden
PI	589129	Saint Lawrence	Canada
PI	200781	Saint Martin	United Kingdom
PI	644173	Saivanskaiya	Turkmenistan
PI	589083	Salome	United States
PI	123967	Saltcote Pipin	Mexico
PI	589544	Salute	Ukraine
PI	264559	Sam Young	Ireland

Species	Subsp		
PI	589533	Sampion	Czechoslovakia
PI	613814	San Jacinto	United States
PI	260002	San Juan	United Kingdom
PI	589518	Sandel	UNKNOWN
PI	123751	Sandling	United Kingdom
PI	157735	Sandringham	United Kingdom
PI	589119	Saratoga	United States
PI	126879	Scarlet Nonpareil	United Kingdom
PI	307383	Scarlet Pearmain S.T.P.	United Kingdom
PI	589567	Schneiderapfel	Germany
PI	588969	Schoharie Spy	United States
PI	131011	Schoner aus Itzstedt	Germany
PI	589530	Schoner aus Miltenberg	Germany
PI	589439	Schweizer Orangenapfel	Switzerland
PI	589361	Scotia	Canada
PI	589082	Secor	United States
PI	131010	Seestermuher Zitronenapfel	Germany
PI	589432	Sekai-Ichi	Japan
PI	589125	Sergeant Russet Golden Delicious	United States
PI	107245	Severnii Bujon	Former Soviet Union
PI	589511	Severnii Sinap K-21.39	Romania
PI	590162	Shamrock	Canada
PI	589561	Shaphran Letnij	Former Soviet Union
PI	383517	Sharopa	Former Soviet Union
PI	588970	Shaw Ribston	Canada
PI	589306	Shawnee	United States
PI	188523	ShellinKout	Netherlands
PI	175546	Sherrington Norman	United Kingdom
PI	644163	Shinibalt 1	Pakistan
PI	644182	Shinibalt II	Pakistan
PI	195836	Shinko	Japan
PI	199533	Shinsei	Japan
PI	613949	Shtreifling	Former Soviet Union
PI	613937	Shtreifling	Russian Federation
PI	657749	Sidrunkollane Talioum	Estonia
PI	105132	Signe Tillisch	Denmark

Species	Subsp		
PI	175547	Silvercup	United Kingdom
PI	589964	Sinta	Canada
PI	262960	Sipolins	Latvia
PI	238790	Sir Isaac Newton	United Kingdom
PI	589961	Sir Prize	United States
PI	644181	Skryzhapel	Former Soviet Union
PI	161846	Skyrme's Kernel	Canada
PI	589550	Slava Pobeditelyam	Ukraine
PI	148710	Slocan	Canada
PI	613832	Slor	Israel
PI	589845	Smith Jonathan	United States
PI	589903	Smokehouse	United States
PI	589904	Smoothgold	UNKNOWN
PI	293886	Smordodina	Former Soviet Union
PI	232661	Snovit	Sweden
PI	588793	Snow	Canada
PI	224611	Sokeri Miron	Finland
PI	383518	Solncedar	Former Soviet Union
PI	589699	Somerset Redstreak	United Kingdom
PI	176379	Sonderskov	Denmark
PI	589556	Souvenir	Ukraine
PI	187062	Souvenir de Fernand Cognet	UNKNOWN
PI	104813	Sparreholm	Sweden
PI	588871	Spartan	Canada
PI	307518	Spasovka Kvasna	Ukraine
PI	589723	Spasserud	UNKNOWN
PI	231942	Spatbluehender	Germany
PI	588979	Spencer	Canada
PI	589031	Spencer Seedless	United States
PI	588860	Spigold	United States
PI	589113	Spijon	United States
PI	589025	Splendor(Stark)	New Zealand
PI	589006	Spokane Beauty	United States
PI	589154	Spur Winter Banana	United States
PI	588867	Spy Double Red	United States
PI	223666	St. Anna Rode Boskoop	Netherlands

Species	Subsp		
PI	589651	St. Cecilia	United Kingdom
PI	589658	St. Edmund's Russet	United Kingdom
PI	588950	Stark	United States
PI	588783	Stark Earliest	United States
PI	589192	Starking	United States
PI	589210	Starkspur Golden Delicious	United States
PI	589905	State Fair	United States
PI	588975	Stayman	United States
PI	589264	Stearns	United States
PI	589692	Stembridge Cluster	United Kingdom
PI	589693	Stembridge Jersey	United Kingdom
PI	589697	Stoke Red	United Kingdom
PI	133750	Stone Pippin	United Kingdom
PI	188524	Storappel	Netherlands
PI	383520	Striped Tawny	Former Soviet Union
PI	589724	Stroming	UNKNOWN
PI	307382	Sturmer Pippin	United Kingdom
PI	589308	Sublett	United States
PI	209939	Subtropical Apple	South Africa
PI	292135	Succary	Israel
PI	589534	Sudeten Reinette	Czechoslovakia
PI	262971	Suislepas Rozabols	Latvia
PI	104815	Suislepper	Sweden
PI	264693	Sumatovka	Yugoslavia
PI	304637	Summerred	Canada
PI	589665	Sunburn	United Kingdom
PI	589325	Sungold	United States
PI	590164	Sunrise	Canada
PI	589694	Sunset	United Kingdom
PI	125566	Surpasse Frequin	Switzerland
PI	134672	Surprise	Switzerland
PI	137056	Surprise Reinette	Switzerland
PI	292931	Susvorenskoye	Former Soviet Union
PI	129833	Swardlands	Australia
PI	589204	Sweden Spartan	Sweden
PI	589081	Sweet Alford	UNKNOWN

Species	Subsp		
PI	589101	Sweet Bough	United States
PI	589924	Sweet Caroline	Netherlands
PI	589688	Sweet Coppin	United Kingdom
PI	588955	Sweet Delicious	United States
PI	589020	Sweet McIntosh	United States
PI	589906	Sweet Sixteen	United States
PI	589351	Sylvia	Sweden
PI	205707	T-391	Canada
PI	589525	T-3913	Canada
PI	590181	Tahir 3-1	UNKNOWN
PI	589691	Tale Sweet	United Kingdom
GMAL	4806	Talvenaudins	Estonia
PI	175548	Tardive Forestier	United Kingdom
PI	307384	Tasman's Pride	Australia
PI	437049	Tasty	Canada
PI	589551	Tawria	Ukraine
PI	322715	Tayeshnoe	Former Soviet Union
PI	589663	Taylor's	United Kingdom
PI	135499	Tchistaikovka No. 3	UNKNOWN
PI	175549	Teign Harvey	United Kingdom
PI	127370	Teint Fraise	France
PI	506361	Thorgauer Weinapfel	Switzerland
PI	134673	Tilsith	Switzerland
PI	589226	Tioga	United States
PI	383522	Toellisaare	Former Soviet Union
PI	255898	Tohoku 2	Japan
PI	255900	Tohoku 4	Japan
PI	287529	Toko	Japan
PI	588805	Tolman Sweet	United States
PI	125271	Tom Putt	United Kingdom
PI	245145	Toreno	Spain
PI	312810	Torino 31B	Italy
PI	589091	Toshkee	Canada
PI	199532	Toyo	Japan
PI	644169	Trakiiska Ranna	Bulgaria
PI	589433	Trebu	UNKNOWN

Species	Subsp		
PI	262966	Trebu Seklandzis	Latvia
PI	175550	Trembletts Bitter	United Kingdom
PI	589490	Trent	Canada
PI	589538	Tropical Beauty	Israel
PI	588828	Trusevitch I-48-41	Former Soviet Union
PI	588831	Trusevitch I-48-46	Former Soviet Union
PI	588818	Trusevitch II-14-50	Former Soviet Union
PI	588814	Trusevitch V-5-38	Former Soviet Union
PI	589038	Turley	United States
PI	666187	Tuuslar	
PI	589007	Twenty Ounce	United States
PI	175551	Twistbody Jersey	United Kingdom
PI	588855	Tydemans Red (Cooper)	UNKNOWN
PI	241965	Tydemans Early Worcester	United Kingdom
PI	157220	Tydemans Michaelmas Red	United Kingdom
PI	589558	Tytovka	Former Soviet Union
PI	262965	Uljanisceva	Latvia
PI	344554	Undine	Canada
PI	383523	Uralian Butter	Former Soviet Union
PI	383524	Uralian Winter Apple	Former Soviet Union
PI	175552	Vagnon Ascher	United Kingdom
PI	589060	Vandevere	United States
PI	125273	Venus Pippin	United Kingdom
PI	267822	Vered	Israel
PI	352657	Verjisone x Jonathon 55-109-149	Romania
PI	589527	Vienna	UNKNOWN
PI	589434	Viking	United States
PI	589324	Virginia Crab	UNKNOWN
PI	588778	Virginiagold	United States
PI	588819	Vista Bella	United States
PI	188525	Vogelcalville	Netherlands
PI	589545	Vystavochnoye	Former Soviet Union
PI	148503	Wabiskaw	Canada
PI	588988	Wagener	United States
PI	275292	Wainwright	United States
PI	134824	Waldhofler	Switzerland

Species	Subsp		
PI	588820	Wayne	United States
PI	588788	Wealthy	United States
PI	588779	Wealthy Double Red PC-310	United States
PI	588948	Webster	United States
PI	589190	Wedge	United States
PI	590143	Weidners GoldreINETte	Germany
PI	590144	Weisser Winter Taffetapfel	Germany
PI	589097	Welday Jonathan 2-2-4-4	United States
PI	589157	Welday Jonathan 2-4-4-4	United States
PI	589144	Welday Jonathan 4X	United States
PI	589363	Wellington	United States
PI	589094	Wellington Bloomless	United States
PI	349326	Wemmershoek	South Africa
PI	589074	Westchester	United States
PI	589480	Westland	Canada
PI	206034	White Crofton	Ireland
PI	175553	White Jersey	United Kingdom
PI	589194	Whitney Russet King	United States
PI	613818	Wickson	United States
PI	590186	Wijcik McIntosh	Canada
PI	589309	William Crump	United Kingdom
PI	589093	Winchester	United States
PI	588799	Winesap	United States
PI	589675	Winston	United Kingdom
PI	588861	Winter Banana	United States
PI	589645	Winter Majetin	United Kingdom
PI	589001	Winter Sweet Paradise	UNKNOWN
PI	588807	Wolf River	United States
PI	589528	Woodward	United States
PI	206035	Worcester Pearmain	United Kingdom
PI	589632	Wotanda	United States
PI	589326	Wright	United States
PI	589205	Wrixparent 2-4-4-4	United States
PI	127022	Wyken Pippen	United Kingdom
PI	666185	Yagli Elma	Turkey
PI	437064	Yar Mohammadi	Pakistan

Species	Subsp		
PI	383526	Yellow Arkad	Former Soviet Union
PI	589195	Yellow Bellflower	United States
PI	589856	Yellow Delicious	United States
PI	588773	Yellow Newtown	United States
PI	589221	Yellow Red Delicious	United States
PI	589612	Yellow Sweet	Former Soviet Union
PI	588859	Yellow Transparent	Former Soviet Union
PI	644167	Yian Feng	China
PI	644166	Yian Guang	China
PI	589109	Yorking	United States
PI	589021	Young America	United States
PI	483256	YP	Finland
PI	589505	Z 185	Netherlands
PI	589502	Z 71	Netherlands
PI	589496	Z 73	Netherlands
PI	292136	Zabaoani	UNKNOWN
PI	126998	Zigeunerinapfel	The Netherlands
PI	259456	Zimnieje Piervoskhodnoie	Former Soviet Union
PI	589539	Zlatna Resistentna	Former Soviet Union
PI	589925	Zoete Ermgaard	Netherlands
PI	589569	Zuccalmaglio	Germany
doumeri			
Ivp	Ivno	Plant Id	Country
PI	589882		United States
florentina			
Ivp	Ivno	Plant Id	Country
PI	588868		UNKNOWN
PI	589385	Skopje P2	United Kingdom
PI	589402	Skopje P3	UNKNOWN
floribunda			
Ivp	Ivno	Plant Id	Country
PI	49135		United States
PI	590033		UNKNOWN
PI	590089		UNKNOWN
PI	590034		UNKNOWN
PI	588918		UNKNOWN

Species	Subsp		
PI	590035		UNKNOWN
PI	589742		UNKNOWN
PI	589827	821	Japan
PI	344089	Hillieri	United Kingdom
PI	483266	Peachblow	Netherlands
fusca			
Ivp	Ivno	Plant Id	Country
PI	613901		United States
Ivp	Ivno	Plant Id	Country
PI	589319		North America
PI	589936		United States
PI	589938		United States
PI	613861		United States
PI	589937		United States
PI	589939		United States
PI	613820		United States
PI	613903		United States
PI	589975		United States
PI	589275		UNKNOWN
PI	590039		United States
PI	613911		United States
PI	613910		United States
PI	590038		United States
PI	589933		United States
PI	613909		United States
PI	589940		United States
PI	613904		United States
PI	589941		United States
PI	588931		United States
PI	589935		United States
PI	613900		United States
PI	613897		United States
PI	613886		United States
PI	613895		United States
PI	613902		United States
PI	594105		United States

Species	Subsp		
PI	590036		Canada
PI	590037		United States
PI	589283	190 EM	UNKNOWN
PI	589220	F-2	UNKNOWN
PI	589228	F-50	UNKNOWN
PI	613823	No. 2	UNKNOWN
haliana			
Ivp	Ivno	Plant Id	Country
PI	589744		UNKNOWN
PI	594112		China
PI	590091		China
PI	589262		China
PI	589972		UNKNOWN
PI	590029		China
PI	590090		China
PI	590028		China
PI	590092		China
PI	590030		China
PI	589757		UNKNOWN
PI	590032		China
PI	589246	Parkman	Japan
PI	589013	Spontanea	UNKNOWN
honanensis			
Ivp	Ivno	Plant Id	Country
PI	589879		China
PI	594113		China
hupehensis			
Ivp	Ivno	Plant Id	Country
PI	122586		China
PI	613811		Korea
PI	613834		China
PI	590059		China
PI	589522		UNKNOWN
PI	590042		China
PI	613933		China
PI	590040		UNKNOWN

Species	Subsp		
PI	590041		UNKNOWN
PI	589334		UNKNOWN
PI	594098		China
GMAL	4620	CH01-50	China
PI	633807	CH97 03-01	China
GMAL	4369	CH97 03-01	China
GMAL	4373	CH97 03-05	China
GMAL	4398	CH97 04-10	China
PI	633812	CH97 04-13	China
GMAL	4401	CH97 04-13	China
GMAL	4402	CH97 04-14	China
GMAL	4403	CH97 04-15	China
GMAL	4423	CH97 07-02	China
GMAL	4424	CH97 07-04	China
GMAL	4425	CH97 07-05	China
GMAL	4426	CH97 07-06	China
GMAL	4427	CH97 07-07	China
PI	633818	CH97 07-07	China
GMAL	4428	CH97 07-08	China
GMAL	4429	CH97 07-09	China
GMAL	4430	CH97 07-10	China
GMAL	4431	CH97 07-11	China
GMAL	4432	CH97 07-12	China
GMAL	4433	CH97 07-13	China
GMAL	4434	CH97 07-14	China
GMAL	4435	CH97 07-15	China
GMAL	4437	CH97 07-18	China
GMAL	4439	CH97 07-25	China
hybrid			
Ivp	Ivno	Plant Id	Country
PI	589824	Jonsib Crab	United States
GMAL	4856	Milden	United States
PI	589058	September	United States
Ivp	Ivno	Plant Id	Country
PI	589403		United Kingdom
PI	588852		UNKNOWN

Species	Subsp		
PI	589289	183 EM	UNKNOWN
PI	589261	AA852	UNKNOWN
PI	588885	Adams	United States
PI	280022	Adams's Pearmain	United Kingdom
PI	588932	Alamata	UNKNOWN
PI	588824	Almey	Canada
PI	151489	Ames 550	United States
PI	127686	Amsib Crab	United States
PI	589615	Amur	Former Soviet Union
PI	589630	Ann Trio	United States
PI	148703	Arrow	Canada
PI	588899	Athabasca	Canada
PI	148490	Babine	Canada
PI	589314	Barbara Ann	United States
PI	589235	Beauty	United States
PI	589359	Bedford	Canada
PI	589631	Ben Trio	United States
PI	588915	Beverly	UNKNOWN
PI	483267	Bhrens	Netherlands
PI	483268	Butterball	Germany
PI	589290	C-13-30-88	UNKNOWN
PI	589500	Cameron	UNKNOWN
PI	589625	Cappy	United States
PI	589284	Cascade	UNKNOWN
PI	588909	Centennial	United States
PI	589729	Centurion	UNKNOWN
PI	589629	Chance	United States
PI	589381	Cider hybrid	UNKNOWN
PI	280024	Claygate Pearmain	United Kingdom
PI	589338	Columbia	Canada
PI	588957	Columbia Crab	Canada
PI	590191	Co-op 1	United States
PI	590197	Co-op 10	United States
PI	590198	Co-op 11	United States
PI	589951	Co-op 12	United States
PI	590199	Co-op 14	United States

Species	Subsp		
PI	589805	Co-op 15	United States
PI	590200	Co-op 16	United States
PI	589953	Co-op 17	United States
PI	590201	Co-op 18	United States
PI	590202	Co-op 19	United States
PI	590203	Co-op 20	United States
PI	590205	Co-op 24	United States
PI	590207	Co-op 26	United States
PI	589778	Co-op 27	United States
PI	590208	Co-op 28	United States
PI	590192	Co-op 3	United States
PI	590211	Co-op 31	United States
PI	590214	Co-op 34	United States
PI	590216	Co-op 36	United States
PI	590217	Co-op 37	United States
PI	590193	Co-op 6	United States
PI	590194	Co-op 7	United States
PI	590195	Co-op 8	United States
PI	590196	Co-op 9	United States
PI	589057	Cowichan	Canada
PI	589180	Cranberry	United States
PI	588767	Crimson Brilliant	UNKNOWN
PI	589515	Dab 183	Germany
PI	588875	Dab 325	UNKNOWN
PI	589509	Dab 97	Germany
PI	644149	Dainty	Unknown
PI	589084	David	United States
PI	588883	Demir	Turkey
PI	588870	Dolgo	Former Soviet Union
PI	589366	Dorothea	United States
PI	589613	Dwarf Tree	United States
PI	589571	E11-24	United States
PI	589572	E14-32	United States
PI	590071	E29-56	United States
PI	590072	E31-10	United States
PI	589570	E36-7	United States

Species	Subsp		
PI	590069	E7-47	United States
PI	590070	E7-54	United States
PI	589454	Earl	Canada
PI	589642	Eda	United States
PI	307503	Edith	Germany
PI	589364	Eleyi	United Kingdom
PI	590210	Enterprise	United States
PI	589456	Evelyn	United States
PI	590176	Flame	UNKNOWN
PI	589626	Forest King	United States
PI	613969	FORM 181 (35-01)	Kazakhstan
PI	589737	Freeman Hybrid	UNKNOWN
PI	307689	Frettingham Victoria	Netherlands
PI	589510	Garry	Canada
PI	589627	Giant Crab	United States
GMAL	4853	Gibb	United States
PI	589273	Gloriosa	France
PI	213405	Golden Hornet	United Kingdom
PI	589269	Golden Spires	United Kingdom
PI	590218	Goldrush	United States
PI	588902	Gwendolyn	UNKNOWN
PI	589270	Gypsy Gold	UNKNOWN
PI	589507	Hamilton	Canada
PI	589619	Hans Trio	United States
GMAL	4855	Harrison	United States
PI	589731	Henning	UNKNOWN
PI	589251	Henrietta Crosby	United States
PI	589732	Henry F. Dupont	UNKNOWN
PI	588862	Heyer #12	Canada
PI	588990	Hopa	United States
PI	589506	Hoser	UNKNOWN
PI	589912	Hyslop Crab	UNKNOWN
PI	588912	Indian Magic	UNKNOWN
PI	589733	Indian Summer	UNKNOWN
PI	589862	Irene	UNKNOWN
PI	141362	James Kirk	United Kingdom

Species	Subsp		
PI	589245	Jay Darling	France
PI	589343	John Downie	United Kingdom
PI	588900	Jubilee	Canada
PI	588804	Kansas K14	United States
PI	590173	Kelsey	UNKNOWN
PI	588984	Kensib	United States
PI	589618	Keo	United States
PI	588866	Kerr	Canada
PI	589388	Kingsmere	United Kingdom
PI	589604	Kit Trio	United States
PI	589508	Kobenza	Netherlands
PI	135983	Kurosh Siberica x Bellfleur	Former Soviet Union
PI	588795	Lennoxville	UNKNOWN
PI	589608	Lina	United States
PI	589609	Linda Sweet	United States
PI	588864	Liset (Crab)	UNKNOWN
PI	589279	M. rockii	UNKNOWN
PI	589161	M. sieboldii hybrid	UNKNOWN
PI	589959	MA # 8	UNKNOWN
PI	589960	MA # 16	UNKNOWN
PI	589271	Madonna	UNKNOWN
PI	588876	Makamik	Canada
PI	588983	Mary Potter	United States
PI	589274	Masek	UNKNOWN
PI	589633	Max Trio	United States
PI	589459	Maybride	Canada
PI	589634	Mercer	United States
PI	589818	Mildew Immune Seedling	United States
PI	588873	MM.106	United Kingdom
PI	589811	N.J. 100537	United States
PI	589009	NA 40298	United States
PI	499829	Naragansett	United States
PI	148496	Nipissing	Canada
PI	590190	NY 58-22	United States
PI	148708	Okanagan	Canada
PI	280027	Old Nonpareil	France

Species	Subsp		
PI	127702	Olga Crab	Former Soviet Union
PI	136020	Oporto	Ukraine
PI	280028	Orleans Reinette	France
PI	589497	Ormiston Roy	United States
PI	588775	Osman	Canada
PI	590151	Ottawa #1	UNKNOWN
PI	589336	Ottawa 11	Canada
PI	325177	Ottawa 12	Canada
PI	589337	Ottawa 13	Canada
PI	588881	Ottawa 3	Canada
PI	589349	Ottawa 5	Canada
PI	296775	Ottawa 541	Canada
PI	588882	Ottawa 7	Canada
PI	588856	Ottawa 8	Canada
PI	590178	Otterson	UNKNOWN
PI	316495	P.1	Poland
PI	352652	P.1	Poland
PI	589450	Parkland	Canada
PI	589213	Pink Beauty	Canada
PI	588963	Pink Wood	UNKNOWN
PI	589247	Pioneer Scarlet	UNKNOWN
PI	280029	Pitmaston Pine Apple	United Kingdom
PI	589820	Prairie Fire	United States
PI	589720	Prairie Gold	United States
PI	589787	PRI 1033-5 'Viking'	United States
PI	589954	PRI 1042-102	United States
PI	590085	PRI 1176-1	United States
PI	589781	PRI 1214-1	United States
PI	589815	PRI 1228-5	United States
PI	590073	PRI 1236	United States
PI	589791	PRI 1279-9	United States
PI	590075	PRI 1290-2	United States
PI	589783	PRI 1290-3	United States
PI	589813	PRI 1293-100	United States
PI	590074	PRI 1293-102	United States
PI	589808	PRI 1293-3	United States

Species	Subsp		
PI	589817	PRI 1302-1	United States
PI	590079	PRI 1312-6	United States
PI	589776	PRI 1316-1	United States
PI	589785	PRI 1346-2	United States
PI	589782	PRI 14-126	United States
PI	589779	PRI 14-152	United States
PI	589801	PRI 1472-3	United States
PI	589790	PRI 1484-1	United States
PI	589949	PRI 1557-2	United States
PI	590084	PRI 1561-100	United States
PI	589814	PRI 1563-1	United States
PI	589828	PRI 1569-3	United States
PI	589796	PRI 1571-3	United States
PI	589821	PRI 1576-100	United States
PI	590081	PRI 1592	United States
PI	589825	PRI 1660-104	United States
PI	589809	PRI 1660-5	United States
PI	589810	PRI 1660-6	United States
PI	589774	PRI 1661-1	United States
PI	589806	PRI 1661-2	United States
PI	589823	PRI 1703-1	United States
PI	589946	PRI 1732-2	United States
PI	589800	PRI 1743-1	United States
PI	589789	PRI 1744-1	United States
PI	589794	PRI 1754-2	United States
PI	589807	PRI 1773-6	United States
PI	589948	PRI 1841-11	United States
PI	589792	PRI 1850-4	United States
PI	589777	PRI 1918-1	United States
PI	589788	PRI 1957-1	United States
PI	589950	PRI 1983-201	United States
PI	589819	PRI 2050-2	United States
PI	589826	PRI 2175-24	United States
PI	590083	PRI 2190-1	United States
PI	590080	PRI 2331	United States
PI	589812	PRI 2377-1	United States

Species	Subsp		
PI	589775	PRI 2382-1	United States
PI	589804	PRI 2465-9	United States
PI	589795	PRI 2482-100	United States
PI	589803	PRI 2543-1	United States
PI	589798	PRI 258-8	United States
PI	589829	PRI 333-9	United States
PI	589780	PRI 384-1	United States
PI	589784	PRI 478-33	United States
PI	589802	PRI 527-3	United States
PI	589797	PRI 672-1	United States
PI	590076	PRI 674-103	United States
PI	589786	PRI 77-1	United States
PI	590078	PRI 996	United States
PI	589830	PRI F2	United States
PI	589181	Prima	United States
PI	590212	Pristine	United States
PI	307690	Professor Sprenger	Netherlands
PI	588887	Profusion	Netherlands
PI	589499	Purple Wave	United States
PI	588763	Pyramidal	UNKNOWN
PI	588947	Radiant	Canada
PI	589734	Ralph Shay	UNKNOWN
PI	589603	Red and Yellow	United States
PI	589250	Red Jacket	United States
PI	588786	Red Jade	United States
PI	588890	Red Jewel	UNKNOWN
PI	589321	Red Silver	United States
PI	588822	Red Splendor	United States
PI	589624	Red Tip	United States
PI	589610	Red Wild	United States
PI	589010	Redflesh	United States
PI	589360	Rescue	Canada
PI	589280	RMJ 102	UNKNOWN
PI	589282	RMJ 105	UNKNOWN
PI	437057	Roberts Crab	United Kingdom
PI	588891	Robin	Canada

Species	Subsp		
PI	589455	Robinson	United States
PI	589252	Rosedale	UNKNOWN
PI	588823	Royalty	Canada
PI	589514	Rudolph	UNKNOWN
PI	589607	Sasha	United States
PI	590206	Scarlet O'Hara	United States
PI	588974	Scheidecker Crab	Germany
PI	589285	Schinto	UNKNOWN
PI	589628	Scugog	Canada
PI	589460	Selkirk	Canada
PI	589090	Sentinel	United States
PI	589465	Shafer	Canada
PI	437048	Shelley	Canada
PI	148500	Sissipuk	Canada
PI	588910	Snowcap	Canada
PI	588787	Snowdrift	United States
PI	589621	South Dakota Ben	United States
PI	589620	South Dakota Bison	United States
PI	589641	South Dakota Bona	United States
PI	589644	South Dakota Macata	United States
PI	589639	South Dakota Winter	United States
PI	588809	Sparkler	UNKNOWN
PI	437054	Splendour	New Zealand
PI	588913	Spring Snow	UNKNOWN
PI	589341	Spy 227	UNKNOWN
PI	588774	Strathmore	UNKNOWN
PI	588766	Striped Beauty	UNKNOWN
PI	143974	Sugar Crab	Canada
PI	589735	Sugar Thyme	UNKNOWN
PI	230685	Sundog	Canada
PI	589484	Tanner	UNKNOWN
PI	148404	Thomas Roland	United States
PI	151644	Timiskaming	Canada
PI	589339	Trail	Canada
PI	589519	Trailman	Canada
PI	589907	Transcendent Crab	UNKNOWN

Species	Subsp		
PI	589288	Unnamed	UNKNOWN
PI	588869	Van Eseltine	United States
PI	589611	Wakaga	United States
PI	589640	Wakapala	United States
PI	589623	Wamdesa	United States
PI	589617	Waubay	United States
PI	589606	Waziya	United States
PI	589635	Wecota	United States
PI	589622	Wetonka	United States
PI	588992	White Angel	United States
GMAL	4845	White Winter Pearmain	United States
PI	589908	Whitney Crab	United States
PI	589736	Wild Red	UNKNOWN
PI	588755	William Sim	UNKNOWN
PI	590204	Williams' Pride	United States
PI	589467	Winter Gold	Netherlands
PI	589268	Winter Holly	UNKNOWN
PI	589636	Wiyuta	United States
PI	590111	Yellow Autumn Crab Apple	Japan
PI	589614	Zapta	United States
PI	589616	Zelma	United States
ioensis			
lvp	lvno	Plant Id	Country
GMAL	4852		United States
lvp	lvno	Plant Id	Country
PI	588759		United States
PI	589258		United States
PI	613906		United States
PI	613894		United States
PI	613893		United States
PI	613892		United States
PI	613873		United States
PI	613872		United States
PI	589843		United States
PI	613908		United States
PI	590013		United States

Species	Subsp		
PI	589998		United States
PI	589999		United States
PI	590002		United States
PI	590003		United States
PI	590006		United States
PI	590007		United States
PI	590008		United States
PI	590009		United States
PI	590010		United States
PI	590012		United States
PI	589406		United States
PI	590015		United States
PI	588934		United States
PI	588935		UNKNOWN
PI	590016		United States
PI	590004		United States
PI	588991	Bechtel Crab	United States
PI	589426	fimbriata	United States
PI	589243	Fringe Petal Crab	United States
PI	588925	Nova	United States
PI	589241	Prairie Rose	United States
PI	590093	Spinosa	United States
PI	589745	Texana	UNKNOWN
PI	596279	Texana	United States
kansuensis			
Ivp	Ivno	Plant Id	Country
PI	588923		China
PI	594097		China
PI	589401	Calva	United Kingdom
PI	588944	Calva	UNKNOWN
GMAL	4616	CH01-28	China
GMAL	4376	CH97 03-09	China
GMAL	4377	CH97 03-10	China
GMAL	4378	CH97 03-11	China
PI	633809	CH97 03-11	China
GMAL	4379	CH97 03-12	China

Species	Subsp		
GMAL	4380	CH97 03-13	China
GMAL	4382	CH97 03-15	China
GMAL	4383	CH97 03-16	China
PI	633810	CH97 03-20	China
GMAL	4387	CH97 03-20	China
GMAL	4389	CH97 03-22	China
kirghisorum			
lvp	lvno	Plant Id	Country
PI	589380		UNKNOWN
lvp	lvno	Plant Id	Country
PI	590094		Russian Federation
PI	590043		Former Soviet Union
PI	589373		UNKNOWN
PI	613854		Former Soviet Union
PI	613968	FORM 43 (34-01)	Kazakhstan
PI	633798	KAZ 93-42-01	Kyrgyzstan
PI	657000	KAZ 93-43-01	Kyrgyzstan
PI	657001	KAZ 93-44-03	Kyrgyzstan
mandshurica			
lvp	lvno	Plant Id	Country
PI	613804		Latvia
PI	588753		UNKNOWN
PI	588754	Gloriosa	UNKNOWN
micromalus			
lvp	lvno	Plant Id	Country
PI	589753		UNKNOWN
lvp	lvno	Plant Id	Country
PI	594093		UNKNOWN
PI	613822		UNKNOWN
PI	589955		UNKNOWN
PI	589754		UNKNOWN
PI	613839		China
PI	613798		UNKNOWN
PI	613799		UNKNOWN
PI	619190		China
PI	594092		UNKNOWN
PI	613800		UNKNOWN

Species	Subsp		
PI	594096		UNKNOWN
PI	613801		UNKNOWN
PI	316974		Korea, South
PI	588976	Midget Crab	UNKNOWN
ombrophila			
Ivp	Ivno	Plant Id	Country
PI	596281		China
PI	613915		China
PI	596278		China
orientalis			
Ivp	Ivno	Plant Id	Country
PI	594095		Former Soviet Union
PI	594101		Turkey
PI	613853		Former Soviet Union
PI	666183		Turkey
PI	666166	99TU-02-02	Turkey
PI	644252	99TU-06-01	Turkey
PI	666167	99TU-08-02	Turkey
PI	633828	99TU-08-02	Turkey
PI	633829	99TU-16-01	Turkey
PI	666168	99TU-20-01	Turkey
PI	633830	99TU-20-01	Turkey
PI	644253	99TU-21-01	Turkey
PI	666169	99TU-25-02	Turkey
PI	633831	99TU-26-02	Turkey
PI	666170	99TU-27-01	Turkey
PI	666171	99TU-27-01	Turkey
PI	633832	99TU-27-01	Turkey
PI	666172	99TU-33-01	Turkey
PI	666173	99TU-34-01	Turkey
PI	666174	ARM01-095	Armenia
GMAL	4597	ARM01-095	Armenia
PI	666175	ARM01-445	Armenia
GMAL	4598	ARM01-445	Armenia
GMAL	4600	ARM02-066	Armenia
GMAL	4604	ARM02-095	Armenia

Species	Subsp		
GMAL	4601	ARM02-163	Armenia
PI	666176	ARM02-163	Armenia
GMAL	4602	ARM02-168	Armenia
PI	666177	ARM02-168	Armenia
GMAL	4603	ARM02-178	Armenia
PI	666178	GE-2004-056	Georgia
PI	666179	GE-2004-077	Georgia
PI	633819	RUS 98 02-01	Former Soviet Union
PI	666155	RUS 98 02-03	Former Soviet Union
PI	666156	RUS 98 02-04	Former Soviet Union
PI	666157	RUS 98 02-06	Former Soviet Union
PI	666158	RUS 98 03-01	Former Soviet Union
PI	666159	RUS 98 03-03	Former Soviet Union
PI	633820	RUS 98 03-05	Former Soviet Union
PI	666160	RUS 98 03-06	Former Soviet Union
PI	666161	RUS 98 03-07	Former Soviet Union
PI	633821	RUS 98 04-02	Former Soviet Union
PI	666162	RUS 98 04-04	Former Soviet Union
PI	666163	RUS 98 05-01	Former Soviet Union
PI	666164	RUS 98 05-02	Former Soviet Union
PI	633822	RUS 98 05-05	Former Soviet Union
PI	633823	RUS 98 07-01	Former Soviet Union
PI	666165	RUS 98 07-01	Former Soviet Union
orthocarpa			
lvp	lvno	Plant Id	Country
PI	589392		United Kingdom
prattii			
lvp	lvno	Plant Id	Country
PI	588933		UNKNOWN
lvp	lvno	Plant Id	Country
PI	590047		China
PI	633804	CH97 01-26	China
PI	633813	CH97 05-03	China
GMAL	4410	CH97 05-11	China
prunifolia			
lvp	lvno	Plant Id	Country
PI	613927		China

Species	Subsp		
PI	588758		UNKNOWN
PI	613934		China
PI	613930		China
PI	594102		Ukraine
PI	589370		UNKNOWN
PI	613928		China
PI	613824		Korea
PI	613926		China
PI	613923		China
PI	613845		Ukraine
PI	613825		Korea
PI	589816	19651	United States
PI	337434	B-87	Former Soviet Union
PI	589164	DE 229	UNKNOWN
PI	589333	DE 279	Asia
PI	589184	Dulcis	UNKNOWN
PI	588914	Fastigiata	UNKNOWN
PI	307500	Golden Gem	Germany
PI	613848	Inuringo	Japan
PI	594103	Inuringo	Japan
PI	589932	M0-84	Japan
PI	589389	Macrocarpa	United Kingdom
PI	594109	Microcarpa	United States
PI	589930	Nagano	Japan
PI	588889	Pendula	UNKNOWN
PI	613846	Ringo Asami	UNKNOWN
PI	613802	Rinkii	Latvia
PI	588994	Rinkii	UNKNOWN
PI	666192	Seishi	Japan
PI	205559	Sikora (Type 1)	Germany
PI	589832	Xanthocarpa	UNKNOWN
PI	589331	Xanthocarpa NA3604	UNKNOWN
pumila			
lvp	Ivno	Plant Id	Country
PI	594106		China
lvp	Ivno	Plant Id	Country

Species	Subsp		
PI	590097		UNKNOWN
PI	323617		Afghanistan
PI	590096		UNKNOWN
PI	590098		UNKNOWN
PI	651011	Legana A8 (G3)	Australia
PI	589287	Niedzwetzkyana	UNKNOWN
PI	589225	Niedzwetzkyana	UNKNOWN
PI	589857	Niedzwetzkyana	UNKNOWN
PI	589166	Ruberima	UNKNOWN
PI	588827	YP (MB4)	Finland
sargentii			
lvp	lvno	Plant Id	Country
PI	588761		UNKNOWN
PI	613813		Korea
PI	613812		Korea
PI	613876		UNKNOWN
PI	589372		Japan
PI	589412		UNKNOWN
PI	590049		Japan
PI	589416		UNKNOWN
PI	589011		UNKNOWN
PI	590048		Japan
PI	589394		United Kingdom
PI	588782		UNKNOWN
PI	590050		UNKNOWN
PI	588937	Rosea	UNKNOWN
PI	613862	Rosea	UNKNOWN
PI	589400	Rosea	UNKNOWN
PI	588919	Rosea	United States
PI	588770	Rosea	UNKNOWN
sieversii			
lvp	lvno	Plant Id	Country
PI	596283		Kazakhstan
PI	613994	KAZ 96 07-06	Kazakhstan
lvp	lvno	Plant Id	Country
PI	613856		Former Soviet Union

Species	Subsp		
PI	629318		Kazakhstan
PI	629317		Kazakhstan
PI	629315		Tajikistan
PI	629314		Tajikistan
PI	629312		Tajikistan
PI	629310		Uzbekistan
PI	613851		Former Soviet Union
PI	629309		Uzbekistan
PI	629307		Kazakhstan
PI	629319		Kazakhstan
PI	629306		Kazakhstan
PI	629313		Kazakhstan
PI	629305		Kazakhstan
PI	629304		Kazakhstan
PI	629303		Uzbekistan
PI	629300		Uzbekistan
PI	629299		Kazakhstan
PI	629298		Kazakhstan
PI	629297		Uzbekistan
PI	629296		Uzbekistan
PI	596280		Uzbekistan
PI	596282		Tajikistan
PI	629311		Uzbekistan
PI	644172	Dikaya from Gyuen	Turkmenistan
PI	657754	DM 10	Kyrgyzstan
PI	657755	DM 14	Kyrgyzstan
PI	657756	DM 29	Kyrgyzstan
PI	657757	DM 30	Kyrgyzstan
PI	657758	DM 32	Kyrgyzstan
PI	657759	DM 33	Kyrgyzstan
PI	657760	DM 34	Kyrgyzstan
PI	657761	DM 38	Kyrgyzstan
PI	657762	DM 46	Kyrgyzstan
PI	657763	DM 49	Kyrgyzstan
PI	657752	DM 5	Kyrgyzstan
PI	657753	DM 9	Kyrgyzstan

Species	Subsp		
PI	613967	FORM 35 (33-01)	Kazakhstan
PI	650966	GMAL 3606 MN 85-26-66	Kazakhstan
PI	650946	GMAL 3611 MN 85-21-20	Kazakhstan
PI	650960	GMAL 3611 MN 85-25-97	Kazakhstan
PI	650947	GMAL 3619 MN 85-21-27	Kazakhstan
PI	650956	GMAL 3620 MN 85-25-48	Kazakhstan
PI	650952	GMAL 3625 MN 85-23-53	Kazakhstan
PI	650969	GMAL 3626 MN 88-27-62	Kazakhstan
PI	650948	GMAL 3627 MN 85-21-47	Kazakhstan
PI	650965	GMAL 3629 MN 85-26-50	Kazakhstan
PI	650970	GMAL 3629 MN 88-27-73	Kazakhstan
PI	650954	GMAL 3632 MN 85-24-100	Kazakhstan
PI	650964	GMAL 3632 MN 85-26-18	Kazakhstan
PI	650971	GMAL 3634 MN 88-27-121	Kazakhstan
PI	650959	GMAL 3637 MN 85-25-84	Kazakhstan
PI	650972	GMAL 3637 MN 88-28-25	Kazakhstan
PI	650973	GMAL 3640 MN 88-28-59	Kazakhstan
PI	650967	GMAL 3642 MN 85-26-95	Kazakhstan
PI	650968	GMAL 3642 MN 85-26-96	Kazakhstan
PI	650975	GMAL 3642 MN 88-28-121	Kazakhstan
PI	650976	GMAL 3643 MN 88-29-26	Kazakhstan
PI	650977	GMAL 3643 MN 88-29-27	Kazakhstan
PI	651004	GMAL 3646 MN 88-29-42	Kazakhstan
PI	650979	GMAL 3646 MN 88-29-50	Kazakhstan
PI	650980	GMAL 3646 MN 88-29-56	Kazakhstan
PI	650958	GMAL 3683 MN 85-25-77	Kazakhstan
PI	650981	GMAL 3683 MN 88-29-107	Kazakhstan
PI	650982	GMAL 3688 MN 88-30-27	Kazakhstan
PI	650950	GMAL 3689 MN 85-21-86	Kazakhstan
PI	650955	GMAL 3689 MN 85-24-107	Kazakhstan
PI	650983	GMAL 3689 MN 88-30-42	Kazakhstan
PI	650984	GMAL 3689 MN 88-30-43	Kazakhstan
PI	650985	GMAL 3689 MN 88-30-60	Kazakhstan
PI	650986	GMAL 3689 MN 88-30-67	Kazakhstan
PI	650987	GMAL 3690 MN 88-30-74	Kazakhstan
PI	650988	GMAL 3730 MN 88-31-2	Kazakhstan

Species	Subsp		
PI	650949	GMAL 3780 MN 85-21-56	Kazakhstan
PI	650951	GMAL 3797 MN 85-22-81	Kazakhstan
PI	650990	GMAL 3841 MN 88-31-51	Kazakhstan
PI	650991	GMAL 3970 MN 88-31-58	Kazakhstan
PI	650957	GMAL 3979 MN 85-25-61	Kazakhstan
PI	657750	GMAL 3990.k	Kazakhstan
PI	650961	GMAL 3998 MN 85-25-105	Kazakhstan
PI	650962	GMAL 4000 MN 85-25-127	Kazakhstan
PI	650963	GMAL 4000 MN 85-25-128	Kazakhstan
PI	650992	GMAL 4010 MN 80-14-21	Kazakhstan
PI	650994	GMAL 4029 MN 80-15-11	Kazakhstan
PI	650993	GMAL 4029 MN 80-15-5	Kazakhstan
PI	650997	GMAL 4035 MN 80-15-29	Kazakhstan
PI	651006	GMAL 4039 MN 80-15-30	Kazakhstan
PI	651006	GMAL 4039 MN 80-15-30	Kazakhstan
PI	651002	GMAL 4042 MN 80-16-34	Kazakhstan
PI	651003	GMAL 4042 MN 88-28-74	Kazakhstan
PI	651001	GMAL 4047 MN 80-16-29	Kazakhstan
PI	650998	GMAL 4055 MN 80-16-3	Kazakhstan
PI	651000	GMAL 4059 MN 80-16-28	Kazakhstan
PI	656998	KAZ 93-12-02	Kazakhstan
PI	613951	KAZ 93-21-01	Kazakhstan
PI	633797	KAZ 93-24-01	Kazakhstan
PI	656999	KAZ 93-31-07	Kazakhstan
PI	666153	KAZ 95 01-01P-4	Kazakhstan
PI	657062	KAZ 95 05-01P-16	Kazakhstan
PI	657064	KAZ 95 05-01P-22	Kazakhstan
PI	633918	KAZ 95 05-01P-22	Kazakhstan
PI	657065	KAZ 95 05-01P-22	Kazakhstan
PI	657063	KAZ 95 05-01P-22	Kazakhstan
PI	657066	KAZ 95 05-01P-26	Kazakhstan
PI	657059	KAZ 95 05-01P-3	Kazakhstan
PI	657058	KAZ 95 05-01P-3	Kazakhstan
PI	657057	KAZ 95 05-01P-3	Kazakhstan
PI	657060	KAZ 95 05-01P-5	Kazakhstan
PI	657061	KAZ 95 05-01P-5	Kazakhstan

Species	Subsp		
PI	613970	KAZ 95 05-06	Kazakhstan
PI	657002	KAZ 95 06-01	Kazakhstan
PI	613971	KAZ 95 06-01	Kazakhstan
PI	657003	KAZ 95 06-04	Kazakhstan
PI	657004	KAZ 95 06-04	Kazakhstan
PI	657005	KAZ 95 06-08	Kazakhstan
PI	657006	KAZ 95 06-08	Kazakhstan
PI	613972	KAZ 95 06-08	Kazakhstan
PI	657007	KAZ 95 06-08	Kazakhstan
PI	613973	KAZ 95 07-02	Kazakhstan
PI	657009	KAZ 95 07-02	Kazakhstan
PI	657008	KAZ 95 07-02	Kazakhstan
PI	657010	KAZ 95 07-02	Kazakhstan
PI	657012	KAZ 95 07-05	Kazakhstan
PI	657011	KAZ 95 07-05	Kazakhstan
PI	613974	KAZ 95 07-05	Kazakhstan
PI	657014	KAZ 95 08-01	Kazakhstan
PI	657013	KAZ 95 08-01	Kazakhstan
PI	657015	KAZ 95 08-01	Kazakhstan
PI	657016	KAZ 95 08-03	Kazakhstan
PI	613975	KAZ 95 08-04	Kazakhstan
PI	657017	KAZ 95 08-04	Kazakhstan
PI	613976	KAZ 95 08-06	Kazakhstan
PI	657019	KAZ 95 08-06	Kazakhstan
PI	657018	KAZ 95 08-06	Kazakhstan
PI	657022	KAZ 95 09-03F	Kazakhstan
PI	657021	KAZ 95 09-03F	Kazakhstan
PI	657020	KAZ 95 09-03F	Kazakhstan
PI	657023	KAZ 95 09-05F	Kazakhstan
PI	657024	KAZ 95 09-05F	Kazakhstan
PI	666150	KAZ 95 09-05F	Kazakhstan
PI	613977	KAZ 95 10-01L	Kazakhstan
PI	633799	KAZ 95 10-03F	Kazakhstan
PI	657025	KAZ 95 10-03F	Kazakhstan
PI	613978	KAZ 95 10-04F	Kazakhstan
PI	613979	KAZ 95 10-05F	Kazakhstan

Species	Subsp		
PI	657027	KAZ 95 10-06F	Kazakhstan
PI	613980	KAZ 95 12-02	Kazakhstan
PI	613959	KAZ 95 17-14	Kazakhstan
PI	657074	KAZ 95 18-02P-20	Kazakhstan
PI	657072	KAZ 95 18-02P-20	Kazakhstan
PI	657073	KAZ 95 18-02P-20	Kazakhstan
PI	657075	KAZ 95 18-02P-30	Kazakhstan
PI	657076	KAZ 95 18-02P-30	Kazakhstan
PI	657078	KAZ 95 18-02P-31	Kazakhstan
PI	657077	KAZ 95 18-02P-31	Kazakhstan
PI	666154	KAZ 95 18-02P-33	Kazakhstan
PI	657084	KAZ 95 18-02P-33	Kazakhstan
PI	633801	KAZ 95 18-02P-33	Kazakhstan
PI	657083	KAZ 95 18-02P-33	Kazakhstan
PI	657082	KAZ 95 18-02P-33	Kazakhstan
PI	657081	KAZ 95 18-02P-33	Kazakhstan
PI	657080	KAZ 95 18-02P-33	Kazakhstan
PI	657067	KAZ 95 18-02P-6	Kazakhstan
PI	657068	KAZ 95 18-02P-6	Kazakhstan
PI	657069	KAZ 95 18-02P-6	Kazakhstan
PI	657071	KAZ 95 18-02P-6	Kazakhstan
PI	657070	KAZ 95 18-02P-6	Kazakhstan
PI	657030	KAZ 95 18-03	Kazakhstan
PI	657028	KAZ 95 18-03	Kazakhstan
PI	657029	KAZ 95 18-03	Kazakhstan
PI	666151	KAZ 95 18-04	Kazakhstan
PI	657031	KAZ 95 18-04	Kazakhstan
PI	657033	KAZ 95 18-04	Kazakhstan
PI	657034	KAZ 95 18-04	Kazakhstan
PI	657032	KAZ 95 18-04	Kazakhstan
PI	657037	KAZ 95 18-05	Kazakhstan
PI	657035	KAZ 95 18-05	Kazakhstan
PI	657036	KAZ 95 18-05	Kazakhstan
PI	657039	KAZ 95 18-06	Kazakhstan
PI	657040	KAZ 95 18-06	Kazakhstan
PI	657038	KAZ 95 18-06	Kazakhstan

Species	Subsp		
PI	613981	KAZ 95 18-07	Kazakhstan
PI	657041	KAZ 95 18-08	Kazakhstan
PI	657042	KAZ 95 18-08	Kazakhstan
PI	657043	KAZ 95 18-08	Kazakhstan
PI	657044	KAZ 95 18-09	Kazakhstan
PI	657045	KAZ 95 18-09	Kazakhstan
PI	657046	KAZ 95 18-10	Kazakhstan
PI	657048	KAZ 95 18-10	Kazakhstan
PI	633800	KAZ 95 18-10	Kazakhstan
PI	657047	KAZ 95 18-10	Kazakhstan
PI	657049	KAZ 95 18-10	Kazakhstan
PI	657050	KAZ 95 18-10	Kazakhstan
PI	657051	KAZ 95 18-11	Kazakhstan
PI	657052	KAZ 95 18-11	Kazakhstan
PI	666152	KAZ 95 18-11	Kazakhstan
PI	657053	KAZ 95 18-14	Kazakhstan
PI	657054	KAZ 95 18-14	Kazakhstan
PI	657055	KAZ 95 18-14	Kazakhstan
PI	657056	KAZ 95 18-14	Kazakhstan
PI	657104	KAZ 96 01-01P-13	Kazakhstan
PI	657105	KAZ 96 01-01P-20	Kazakhstan
PI	633922	KAZ 96 01-01P-20	Kazakhstan
PI	657085	KAZ 96 01-03	Kazakhstan
PI	657107	KAZ 96 02-01P-11	Kazakhstan
PI	633803	KAZ 96 02-01P-11	Kazakhstan
PI	657106	KAZ 96 02-01P-6	Kazakhstan
PI	657108	KAZ 96 03-01P-7	Kazakhstan
PI	613982	KAZ 96 03-02	Kazakhstan
PI	613983	KAZ 96 03-04	Kazakhstan
PI	613984	KAZ 96 03-05	Kazakhstan
PI	613953	KAZ 96 03-07	Kazakhstan
PI	613985	KAZ 96 03-08	Kazakhstan
PI	613986	KAZ 96 03-09	Kazakhstan
PI	613954	KAZ 96 03-11	Kazakhstan
PI	657086	KAZ 96 03-11	Kazakhstan
PI	613955	KAZ 96 03-12	Kazakhstan

Species	Subsp		
PI	613956	KAZ 96 03-13	Kazakhstan
PI	613957	KAZ 96 03-14	Kazakhstan
PI	657087	KAZ 96 03-15	Kazakhstan
PI	613987	KAZ 96 03-15	Kazakhstan
PI	613988	KAZ 96 05-04	Kazakhstan
PI	633919	KAZ 96 05-05	Kazakhstan
PI	657088	KAZ 96 05-05	Kazakhstan
PI	657109	KAZ 96 06-01P-23	Kazakhstan
PI	657110	KAZ 96 06-01P-26	Kazakhstan
PI	633923	KAZ 96 06-01P-28	Kazakhstan
PI	613989	KAZ 96 06-02	Kazakhstan
PI	613990	KAZ 96 06-03	Kazakhstan
PI	657112	KAZ 96 07-01P-24	Kazakhstan
PI	657111	KAZ 96 07-01P-24	Kazakhstan
PI	613991	KAZ 96 07-03	Kazakhstan
PI	657089	KAZ 96 07-03	Kazakhstan
PI	613992	KAZ 96 07-04	Kazakhstan
PI	613993	KAZ 96 07-05	Kazakhstan
PI	657090	KAZ 96 07-07	Kazakhstan
PI	613958	KAZ 96 07-07	Kazakhstan
PI	657091	KAZ 96 07-08	Kazakhstan
PI	657092	KAZ 96 07-10	Kazakhstan
PI	657093	KAZ 96 07-10	Kazakhstan
PI	657113	KAZ 96 08-01P-11	Kazakhstan
PI	657114	KAZ 96 08-01P-29	Kazakhstan
PI	657115	KAZ 96 08-01P-37	Kazakhstan
PI	657116	KAZ 96 08-01P-37	Kazakhstan
PI	657094	KAZ 96 08-13	Kazakhstan
PI	657096	KAZ 96 08-15	Kazakhstan
PI	613997	KAZ 96 08-15	Kazakhstan
PI	657095	KAZ 96 08-15	Kazakhstan
PI	613998	KAZ 96 08-16	Kazakhstan
PI	650944	KAZ 96 08-17	Kazakhstan
PI	657097	KAZ 96 08-17	Kazakhstan
PI	633802	KAZ 96 08-17	Kazakhstan
PI	657099	KAZ 96 08-17	Kazakhstan

Species	Subsp		
PI	637780	KAZ 96 08-17	Kazakhstan
PI	657117	KAZ 96 09-01P-2	Kazakhstan
PI	657119	KAZ 96 09-01P-2	Kazakhstan
PI	657118	KAZ 96 09-01P-2	Kazakhstan
PI	657120	KAZ 96 09-01P-4	Kazakhstan
PI	657101	KAZ 96 09-02	Kazakhstan
PI	614000	KAZ 96 09-02	Kazakhstan
PI	650945	KAZ 96 09-02	Kazakhstan
PI	657100	KAZ 96 09-02	Kazakhstan
PI	633920	KAZ 96 09-05	Kazakhstan
PI	633921	KAZ 96 09-05	Kazakhstan
PI	657103	KAZ 96 09-05	Kazakhstan
PI	657102	KAZ 96 09-05	Kazakhstan
PI	632626	Ketmen Dessert	Kazakhstan
PI	657765	Kzyl-alma#2	Kazakhstan
PI	644213	MN 80-14-20	United States
PI	644214	MN 80-15-27	United States
PI	644216	MN 80-16-18	United States
PI	644215	MN 80-16-24	United States
PI	644217	MN 80-16-26	United States
PI	644206	MN 85-21-112	United States
PI	644196	MN 85-21-123	United States
PI	644198	MN 85-22-99	United States
PI	644209	MN 85-23-14	United States
PI	644207	MN 85-23-21	United States
PI	644193	MN 85-23-28	United States
PI	644210	MN 85-23-37	United States
PI	644204	MN 85-23-54	United States
PI	644197	MN 85-24-53	United States
PI	644194	MN 85-25-110	United States
PI	644212	MN 85-25-29	United States
PI	644195	MN 85-26-112	United States
PI	644211	MN 85-26-15	United States
PI	644199	MN 85-26-21	United States
PI	644202	MN 85-27-40	United States
PI	644203	MN 85-27-43	United States

Species	Subsp		
PI	644200	MN 85-28-17	United States
PI	644201	MN 85-28-25	United States
PI	644205	MN 85-28-52	United States
PI	644208	MN 88-29-71	United States
PI	657764	Q 36432	Kazakhstan
lvp	lvno	Plant Id	Country
PI	594104		Former Soviet Union
PI	613852		Former Soviet Union
sikkimensis			
lvp	lvno	Plant Id	Country
PI	650943		Former Soviet Union
PI	589089		UNKNOWN
PI	589750		UNKNOWN
PI	590105		UNKNOWN
PI	590104		UNKNOWN
PI	589834		United States
PI	589599		UNKNOWN
PI	590108		UNKNOWN
PI	589377		UNKNOWN
PI	590106		UNKNOWN
PI	613912		China
PI	589390		United Kingdom
PI	590107		UNKNOWN
spectabilis			
lvp	lvno	Plant Id	Country
PI	613836		China
PI	594100		China
PI	588921	Alboplena	UNKNOWN
PI	212643	Clarkes Flowering Crab	United States
PI	588917	Riversii	UNKNOWN
spp.			
lvp	lvno	Plant Id	Country
GMAL	4863	Piel de Sapa (340)	Spain
GMAL	4864	Sangre de Toro (Code 84)	Spain
lvp	lvno	Plant Id	Country
PI	589861		UNKNOWN
PI	589858		UNKNOWN

Species	Subsp		
PI	644178	Almali95-1	Turkmenistan
PI	666191	Alpine Beauty	Russian Federation
PI	644179	Babarabkaturshi	Turkmenistan
GMAL	4880	Blankina	Spain
PI	666188	Collaos	Spain
GMAL	4860	Coloradona	Spain
PI	613941	Coop 41	United States
PI	613944	Coop 44	United States
GMAL	4889	Cristalina	Spain
PI	657745	Inglis	United States
PI	589409	M. bracteata	United States
PI	589396	M. denticulata	UNKNOWN
PI	589413	M. flexilis	UNKNOWN
PI	589417	M. glabrata	United States
PI	589407	M. glaucescens	United States
PI	589420	M. hartwigii	UNKNOWN
PI	589386	M. lancifolia	UNKNOWN
PI	589276	M. laurifolia	UNKNOWN
PI	589411	M. marjorensis 'Formosa'	UNKNOWN
PI	589421	M. rockii	UNKNOWN
PI	589408	M. turesii	UNKNOWN
PI	589008	M. turesii	UNKNOWN
PI	613946	Macfree	Uncertain
PI	657746	Mary Potter	United States
PI	55990	No. 6558	China
PI	136488	Paradisiaca Atrosanguinea	France
PI	590095	Pratt's Crab Apple	China
GMAL	4890	Raxao	Spain
PI	644184	Sidrunkollane Talioun	Estonia
GMAL	4865	Solarina	Spain
GMAL	4857	Tchervena Jubileina	Bulgaria
PI	613936	VII - 252	Nepal
sylvestris			
Ivp	Ivno	Plant Id	Country
PI	619168		Yugoslavia
Ivp	Ivno	Plant Id	Country

Species	Subsp		
PI	369855		Yugoslavia
PI	613866		Yugoslavia
PI	613865		Yugoslavia
PI	613871		Yugoslavia
PI	589382		United Kingdom
PI	613864		Yugoslavia
PI	590061		UNKNOWN
PI	107426		Puerto Rico
PI	392302	1764	Former Soviet Union
GMAL	4859	AWS 3-10	Germany
GMAL	4703	Barenhecke 3	Germany
PI	633825	Barenhecke 3 x Klipphausen	Germany
GMAL	4497	Barenhecke 3 x Klipphausen	Germany
PI	588908	French Crab	UNKNOWN
GMAL	4499	Hartmann-Muhle 1 x Oberwartha 2	Germany
PI	633827	Hartmann-Muhle 1 x Oberwartha 2	Germany
PI	589931	Maruba N1	Japan
PI	633824	Oberwartha 5 x Klipphausen	Germany
GMAL	4495	Oberwartha 5 x Klipphausen	Germany
PI	633826	Oelsen 2 x Hartmann-Muhle 1	Germany
GMAL	4496	Oelsen 5 x Oberwartha 5	Germany
PI	588926	Plena	UNKNOWN
PI	666182	Steckby 3	Germany
PI	101888	Torstein	Norway
GMAL	4858	Tubingen	Germany
toringo			
lvp	lvno	Plant Id	Country
PI	589749		UNKNOWN
lvp	lvno	Plant Id	Country
PI	613859		Japan
PI	613858		Japan
PI	613806		Latvia
PI	594094		Latvia
PI	590051		Japan
PI	613860		Korea
PI	613932		China

Species	Subsp		
PI	589748		UNKNOWN
PI	613838		China
PI	589747		UNKNOWN
PI	590099		UNKNOWN
PI	588892	Arborescens	UNKNOWN
GMAL	4621	CH01-51	China
GMAL	4404	CH97 05-02	China
PI	633814	CH97 05-06	China
GMAL	4406	CH97 05-06	China
PI	633815	CH97 05-08	China
GMAL	4407	CH97 05-08	China
GMAL	4408	CH97 05-09	China
GMAL	4409	CH97 05-10	China
PI	657747	K-255	South Korea
PI	613945	KSW 3696	United States
PI	589958	MA # 4	UNKNOWN
PI	589957	MA #1255	UNKNOWN
PI	590100	Toringo Crab Apple	Japan
PI	590101	Toringo Crab Apple	Japan
PI	590102	Toringo Crab Apple	Japan
transitoria			
Ivp	Ivno	Plant Id	Country
PI	589422		UNKNOWN
PI	589384		United Kingdom
GMAL	4609	CH01-19	China
GMAL	4610	CH01-20	China
GMAL	4611	CH01-21	China
GMAL	4612	CH01-22	China
GMAL	4613	CH01-23	China
GMAL	4614	CH01-24	China
GMAL	4361	CH97 02-03	China
PI	633805	CH97 02-03	China
GMAL	4362	CH97 02-04	China
PI	633806	CH97 02-04	China
GMAL	4363	CH97 02-05	China
GMAL	4365	CH97 02-07	China

Species	Subsp		
GMAL	4366	CH97 02-08	China
tschonoskii			
Ivp	Ivno	Plant Id	Country
PI	589395		United Kingdom
PI	589752		UNKNOWN
PI	589313		Japan
x adstringens			
Ivp	Ivno	Plant Id	Country
PI	588898		UNKNOWN
PI	148709	Simcoe	Canada
x arnoldiana			
Ivp	Ivno	Plant Id	Country
PI	589222	Arnold Crab	United States
PI	589085	Cardinal	United States
x astracanica			
Ivp	Ivno	Plant Id	Country
PI	588895		United States
x atrosanguinea			
Ivp	Ivno	Plant Id	Country
PI	590221	804	
PI	589253	Carmine Crab	UNKNOWN
x dawsoniana			
Ivp	Ivno	Plant Id	Country
PI	483254		France
PI	589260		UNKNOWN
x hartwigii			
Ivp	Ivno	Plant Id	Country
PI	589868		UNKNOWN
PI	589867		Latvia
PI	589866		Latvia
PI	589864		Latvia
PI	588757		UNKNOWN
x magdeburgensis			
Ivp	Ivno	Plant Id	Country
PI	588959		Germany
x moerlandsii			
Ivp	Ivno	Plant Id	Country

Species	Subsp		
PI	437056		United Kingdom
PI	589449	Profusion	Netherlands
x platycarpa			
Ivp	Ivno	Plant Id	Country
PI	588847		United States
PI	589746		UNKNOWN
PI	588752		UNKNOWN
PI	589356		UNKNOWN
PI	589427	Hoopesii	United States
PI	589415	Hoopesii	United States
x purpurea			
Ivp	Ivno	Plant Id	Country
PI	588888	Kobendza	UNKNOWN
PI	588911	Kornicensis	Poland
PI	78034	Lemoine	France
x robusta			
Ivp	Ivno	Plant Id	Country
PI	215542	Yellow Siberian	United Kingdom
Ivp	Ivno	Plant Id	Country
PI	588993		UNKNOWN
PI	588904	Cherry Crab	UNKNOWN
PI	588936	Erecta	UNKNOWN
PI	589286	Fastigiata	United States
PI	589003	Korea	UNKNOWN
PI	589278	Leucocarpa	UNKNOWN
PI	590068	Persicifolia	UNKNOWN
PI	589383	Persicifolia	UNKNOWN
PI	589424	Persicifolia	UNKNOWN
PI	588825	Robusta 5	Canada
x scheideckeri			
Ivp	Ivno	Plant Id	Country
PI	589418		UNKNOWN
x soulardii			
Ivp	Ivno	Plant Id	Country
PI	589391		United Kingdom
PI	588897		UNKNOWN
x sublobata			

Species	Subsp		
Ivp	Ivno	Plant Id	Country
PI	590060		UNKNOWN
Ivp	Ivno	Plant Id	Country
PI	589755		UNKNOWN
PI	590174	Novole	United States
PI	588922	Yellow Autumn Crab	UNKNOWN
x zumi			
Ivp	Ivno	Plant Id	Country
PI	589840	Calocarpa	UNKNOWN
PI	589259	Calocarpa	Japan
PI	588905	Zumi Crab	Japan
yunnanensis			
Ivp	Ivno	Plant Id	Country
PI	589399		United Kingdom
Ivp	Ivno	Plant Id	Country
PI	590066		China
PI	590065		China
PI	589369		China
PI	590063		China
PI	589759		UNKNOWN
PI	590114		China
PI	589974	Veitchii	UNKNOWN
PI	590115	Veitchii	China
PI	271831	Vilmorin	China
zhaojiaoensis			
Ivp	Ivno	Plant Id	Country
GMAL	4411	CH97 06-01	China
PI	633816	CH97 06-02	China
GMAL	4412	CH97 06-02	China
GMAL	4413	CH97 06-03	China
GMAL	4414	CH97 06-04	China
GMAL	4415	CH97 06-05	China
GMAL	4416	CH97 06-06	China
PI	633817	CH97 06-07	China
GMAL	4417	CH97 06-07	China
GMAL	4419	CH97 06-09	China
GMAL	4421	CH97 06-11	China