

**BUSINESS AFFAIRS & HUMAN RESOURCES**  
**JUNE 21, 2012**

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**UNIVERSITY OF IDAHO**

**SUBJECT**

Request for approval of public/private, collaborative research and marketing agreement.

**REFERENCE**

April 2012                      Information Item

**APPLICABLE STATUTE, RULE, OR POLICY**

Idaho State Board of Education Governing Policies & Procedures, Section V.I. Real and Personal Property and Services

**BACKGROUND/DISCUSSION**

The University of Idaho seeks to enter into a five year contract with Limagrain Cereal Seeds, LLC to establish a reciprocal joint wheat breeding program where the University and Limagrain combine their respective repositories of wheat germplasm to collaboratively create and market new wheat varieties. The University will contribute access to its existing germplasm developed in Pacific Northwest region and Limagrain will contribute its European origin germplasm.

All jointly created germplasm and any wheat varieties developed from the germplasm will be jointly owned by the University and Limagrain. Successful varieties will be marketed throughout Idaho, the Pacific Northwest and beyond through Limagrain's marketing arm with the University and Limagrain sharing net royalty revenues based on the amount of their respective germplasm in each variety.

Over the initial 5 year period, Limagrain will also contribute approximately \$500,000 to fund research endowments at the University and graduate student research support. This funding will allow the University to utilize existing employment lines to continue faculty research positions (from current budgeted faculty lines) which will enhance research in cropping systems and agronomic research for other crops grown in rotation with wheat. The collaboration will result in a comprehensive research, extension and teaching program for small grain cereals at the UI.

Under the contract, University faculty and graduate student researchers will work collaboratively with Limagrain researchers in the development of varieties from the combined germplasm repositories. This will enhance the work the University will be doing under the recently announced faculty research endowments created by the Idaho Wheat Commission. The University's collaboration with Limagrain is strongly endorsed by the Wheat Commission.

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**IMPACT**

Funding from Limagrain under the contract, along with the Wheat Commission funding, will allow the University to continue and enhance its wheat breeding program that recently suffered the loss of the University's wheat for soft white winter wheat. The collaborative program is also anticipated to generate revenues from newly created varieties from the joint germplasm repositories, utilizing Limagrain's superior marketing arm to enhance royalty revenues to the University which will further support research in this area.

**ATTACHMENTS**

Attachment 1 – Proposed Contract

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**STAFF COMMENTS AND RECOMMENDATIONS**

This agenda item was received after the agenda deadline, but the institution asked that it be included as a late item on the agenda. Staff did not have an opportunity to review the contract prior to mail out of the agenda, so any staff comments and/or recommendations will be provided at the meeting.

**BOARD ACTION**

I move to approve the request by the University of Idaho to enter into the collaborative research and marketing agreement with Limagrain Cereal Seeds, LLC in substantial conformance to the form submitted to the Board in Attachment 1, and to authorize the university's Vice President for Finance and Administration to execute the Agreement and all necessary documents ancillary to the Agreement.

Moved by \_\_\_\_\_ Seconded by \_\_\_\_\_ Carried Yes \_\_\_\_\_ No \_\_\_\_\_

**AGREEMENT FOR JOINT ACCESS TO RESEARCH MATERIAL,  
MUTUAL BREEDING SERVICES AND SUPPORT, AND  
INTELLECTUAL PROPERTY LICENSING  
BETWEEN  
THE BOARD OF REGENTS OF THE UNIVERSITY OF IDAHO  
AND  
LIMAGRAIN CEREAL SEEDS, LLC.**

THIS AGREEMENT is made and entered into by and between the Board of Regents of the University of Idaho, a public corporation, state educational institution, and a body politic and corporate organized and existing under the Constitution and laws of the state of Idaho (“UNIVERSITY”), and Limagrain Cereal Seeds, LLC (“LCS”), a Delaware limited liability company, having an office at 2040 SE Frontage Rd., Fort Collins, CO. 80525. UNIVERSITY and LCS will be referred to jointly as “PARTIES” and individually as “PARTY”.

**1. DEFINITIONS**

**AFFILIATES:** in relation to LCS, any existing and future legal entity which directly or indirectly Controls, is Controlled by, or is under common Control with LCS, where “Control” (including the terms “Controls”, “Controlled by” and “under common Control with”) shall mean the direct or indirect ownership of fifty percent (50%) or more of the voting stock of an entity and with respect to any other legal entity, ownership of fifty percent (50%) or more of total equity interests or otherwise the possession, directly or indirectly, of the power to direct or cause the direction of the management and policies of an entity, or the power to veto major policy decisions of any such entity through the ownership of voting securities.

**BREEDING:** any and all means by which a new plant variety is created and developed, including, but not limited to, crossing of GERMPLASM research, testing and selection of GERMPLASM, use of molecular marking or any genetic marking techniques to identify genotype or genetic inheritance, but excluding genetic modification, manipulation, or alteration other than through crossing of GERMPLASM.

**COMMERCIAL PURPOSES:** the production, promotion, importation, exportation, sale, offer to sale, lease, license, market, distribution or other commercial exploitation of LCS or UNIVERSITY GERMPLASM, or JOINTLY OWNED GERMPLASM for financial gain or other commercial benefit by a PARTY. COMMERCIAL PURPOSES shall also include RECIPIENT uses of GERMPLASM provided by the other PARTY under this Agreement, or JOINTLY OWNED GERMPLASM to conduct collaborative contract research that result in any sale, lease, license, or transfer of such GERMPLASM, or JOINTLY OWNED GERMPLASM or information derived from such GERMPLASM, to a for-profit organization. However, academic research funded by THIRD PARTY commercial entities involving ORIGINATOR’s GERMPLASM, or JOINTLY OWNED GERMPLASM, shall not be considered a COMMERCIAL PURPOSE per se, unless any of the above conditions are met.

**CONFIDENTIAL INFORMATION:** any and all proprietary information (including without limitation, information relating to technical, business, financial information and intellectual property matters), know-how, data, techniques, methods, GERMPLASM, KNOW-HOW, COLLABORATIVE BREEDING EFFORT, PROGENY, INTELLECTUAL PROPERTY, other seed and germplasm and biological material owned or held by either PARTY to this Agreement, which has been disclosed by either PARTY to the other in connection

with this Agreement or which may be disclosed by either PARTY to the other in connection with this Agreement in oral, written, electronic or any other form.

EFFECTIVE DATE: the latest date of signature of this Agreement by the Parties.

EXPORT CONTROLS: U.S. export administration laws and regulations, including but not limited to, the International Traffic In Arms Regulations, 22 C.F.R. §§120-130, implemented by authority granted under the Arms Export Control Act, as amended, and the Export Administration Regulations, 15 C.F.R. §§730-799, implemented by authority granted under Export Administration Act of 1979, as amended.

FISCAL YEAR: the twelve month period beginning each July 1<sup>st</sup> and ending the following June 30<sup>th</sup>.

INTELLECTUAL PROPERTY: any and all intellectual property rights of any description including but not limited to patents, copyright, plant variety protection (PVP) rights, trademarks, trade and business names, database rights and any other intellectual property rights in information, data, technical processes and KNOW-HOW, GERMPLASM, , software, trade secrets, discoveries, improvements, algorithms, studies, procedures, formulae, methods, techniques and specifications, in each case, whether registered or unregistered, and regardless of the form or medium in which they are developed, disclosed or stored.

COLLABORATIVE BREEDING EFFORT: has the meaning ascribed to it in the article 2.

JOINT KNOW-HOW: any and all KNOW-HOW discovered, identified, conceived, created, developed or acquired by any of PARTY or the AFFILIATES under the COLLABORATIVE BREEDING EFFORT.

JOINTLY OWNED GERMPLASM: any and all GERMPLASM and JOINT VARIETIES identified, conceived, created, invented, reduced to practice or otherwise developed by the PARTIES or any AFFILIATE under the COLLABORATIVE BREEDING EFFORT:

- 1) in which the genetic contribution of each PARTY's GERMPLASM represents twenty-five per cent (25%) or more, assessed by pedigree or, if necessary, by use of a set of molecular markers agreed by both PARTIES; or
- 2) which is a unique LINE selected from among SEGREGATING MATERIAL received from the other PARTY; or
- 3) which has been selected from among LINES received from the other PARTY in accordance with a written authorization to make such selection given by the ORIGINATOR

JOINT VARIETY: any LINE (including any improvements and modifications thereto) identified, conceived, created, invented, reduced to practice or otherwise developed by the PARTIES or any AFFILIATE through the use of JOINTLY OWNED GERMPLASM under the COLLABORATIVE BREEDING EFFORT.

KNOW-HOW: any and all proprietary or licensed information, technology and know-how, including without limitation formulae, specifications, techniques, methods, systems, software programs, components, manuals, tests reports, assays, analysis, procedures and information relating thereto or used in connection therewith.

LINE: any wheat inbred line that has been given a final breeder's code, whether or not morphologically described or genetically fingerprinted.

LCS GERMPLASM: the GERMPLASM owned by LCS or to which LCS has full rights and authority to grant the rights herein for the purpose of this Agreement and which is listed under the *EXHIBIT B* attached to this Agreement (as may be amended from time to time, consistent with the terms of this Agreement, to consider any adjunction or withdrawal).

GERMPLASM: any genetic material including without limitation varieties, LINES, parental lines, populations, SEGREGATING MATERIAL, and other genetic materials that comprise or are comprised of plants, plants parts, tissues, pollen or seeds or other component thereof, as well as any progeny derived therefrom.

NET ROYALTY: the amount of royalties actually received by either PARTY, or any of its AFFILIATES, from the sale and other commercial disposition of JOINT GERMPLASM and/or JOINT VARIETIES paid by customers (e.g. farmers ) on either the amount of any class of seeds (e.g. breeder, foundation, registered, certified, or other) or on "farm save seeds," less deduction of royalties paid to any THIRD PARTY in consideration for use of such THIRD PARTY's MATERIAL or technologies.

NORTHWEST TERRITORY: the States of Idaho, Oregon and Washington.

ORIGINATOR: PARTY providing GERMPLASM subject to the terms of this Agreement.

RECIPIENT: PARTY receiving GERMPLASM subject to the terms of this Agreement.

RELEASE: to make a variety available for COMMERCIAL PURPOSES as defined herein.

SEGREGATING MATERIAL: any and all GERMPLASM or other genetic material contained in wheat plant or seeds which is not a LINE or a VARIETY.

TERM: Duration of this Agreement, as defined by section 10.1, and limited by section 10.2.

THIRD PARTY: means any entity other than the UNIVERSITY, LCS and its AFFILIATES.

UNIVERSITY GERMPLASM: the GERMPLASM owned by UNIVERSITY or to which UNIVERSITY has full rights and authority to grant the rights herein for the purpose of this Agreement and which is listed under the *EXHIBIT C* attached to this Agreement (as may be amended from time to time, consistent with the terms of this Agreement, to consider any adjunction or withdrawal).

UNIVERSITY ORIGINAL VARIETY : any wheat LINE or variety of the UNIVERSITY that the UNIVERSITY owns or for which the UNIVERSITY has full rights and authority to license but which is not UNIVERSITY GERMPLASM or JOINTLY OWNED GERMPLASM subject to the terms of this Agreement.

## **2. COLLABORATION PURPOSE**

UNIVERSITY and LCS desire to create a mutual collaboration for wheat research, BREEDING, and educational purposes in the NORTHWEST TERRITORY which will maximize the utilization of both UNIVERSITY's and LCS's wheat research facilities, technologies, and GERMPLASM stocks, promote intellectual synergies between UNIVERSITY and LCS researchers to engage in such activities for the

betterment of the state of Idaho and the development of new performing wheat varieties as set out under this Agreement (“COLLABORATIVE BREEDING EFFORT”).

Each PARTY has unique capabilities and resources to bring to bear in the collaboration and each PARTY wishes to make these available to the other PARTY in order to advance wheat BREEDING research and education and facilitate transfer and commercialization of wheat.

### 3. ACCESS AND USE OF GERMPLOASM

#### 3.1 GRANT OF LICENSES.

3.1.1 Subject to the terms and conditions of this Agreement, UNIVERSITY agrees to grant and does hereby grant LCS and its AFFILIATES:

- (i) a non-exclusive, worldwide, non-commercial, non-transferable, royalty-free license to use UNIVERSITY GERMPLOASM, the JOINTLY OWNED GERMPLOASM and the JOINT KNOW-HOW, during the term of this Agreement and solely for BREEDING purposes to create and develop JOINT VARIETIES under the COLLABORATIVE BREEDING EFFORT, provided that LCS and its AFFILIATES shall avoid initiating any BREEDING activities in which UNIVERSITY’S LINE or VARIETY represents more than seventy-five percent (75%) of the genetic pedigree of the breeding population, unless otherwise expressly agreed in writing by the UNIVERSITY;
- (ii) an exclusive, worldwide including the NORTHWEST TERRITORY, royalty-bearing license UNIVERSITY rights in and to JOINT VARIETIES, with the right to sub-license, in order to test, produce, promote, and commercialize the seeds of the JOINT VARIETIES, identified in *EXHIBIT A*, under the conditions set forth under this Agreement, provided that, if LCS or any of its AFFILIATES expressly decline, such declination to be provided to UNIVERSITY in writing no later than ninety (90) days after determination to RELEASE a JOINT VARIETY, those commercial license rights as set forth under this paragraph with regards to any JOINT VARIETY, LCS and UNIVERSITY shall negotiate in good faith to execute a commercial license with a THIRD PARTY with respect to such JOINT VARIETY.

With respect to the rights granted to LCS under this Section 3.1.1(ii), each JOINT VARIETY shall be considered to be independently licensed to LCS and its Affiliates, effective upon the decision of the PARTIES to RELEASE a JOINT VARIETY, consistent with Section 4.3.2, and the inclusion of that JOINT VARIETY in *EXHIBIT A* of this Agreement.

- (iii) with respect to any exclusive license granted by UNIVERSITY to LCS under Section 3.1.1(ii), UNIVERSITY reserves the right to:
  - (1) Publish the scientific findings from research related to the licensed rights, consistent with obligations under Sections 3.6 and 12; and
  - (2) Make, have made, and use the licensed rights for teaching, research, education, and other educationally-related purposes of UNIVERSITY
- (iv) with respect to any exclusive license granted by UNIVERSITY to LCS under Section 3.1.1(ii), if federal funds were used by the University in developing the licensed JOINT VARIETY, the United States Government may be entitled, as a right, under the provisions of 35 U.S.C.

§202-212 and applicable regulations of Title 37 of the Code of Federal Regulations, to a nonexclusive, nontransferable, irrevocable, paid-up license rights in the licensed JOINT VARIETY for governmental purposes, and in instances where the aforementioned federal law applies, any license granted to LCS shall be subject to such government rights.

3.1.2 Subject to the terms and conditions of this Agreement, LCS agrees to grant and does hereby grant UNIVERSITY:

- (i) a non exclusive, non-commercial, non-transferable, royalty-free license to use LCS GERMPLASM, the JOINTLY OWNED GERMPLASM and the JOINT KNOW-HOW, during the term of this Agreement and solely for BREEDING purposes, to create and develop JOINT VARIETIES under the COLLABORATIVE BREEDING EFFORT, provided that UNIVERSITY shall avoid initiating any BREEDING activities in which LCS'S LINE or VARIETY represents more than seventy five percent (75%) of the genetic pedigree of the breeding population, unless otherwise expressly agreed in writing by LCS;

3.1.3 UNIVERSITY shall inform LCS, through the Steering Committee described in Section 4.1, of any UNIVERSITY ORIGINAL VARIETY available for licensing and commercialization. LCS may enter into negotiations with the UNIVERSITY Office of Technology Transfer for commercial licenses to UNIVERSITY ORIGINAL VARIETIES under separate agreement.

**3.2 LIMITATIONS ON LICENSES.**

The PARTIES agree that those licenses described in and granted under Section 3.1 above shall be limited as follows:

Neither PARTY shall be authorized to use the GERMPLASM received from the other PARTY for any other purpose than as expressly provided under Section 3.1 of this Agreement.

Each PARTY agrees that the licenses granted to it by the other PARTY do not constitute a license, either express or implied, to use or make available to THIRD PARTIES for BREEDING and/or COMMERCIAL PURPOSES the GERMPLASM of the other PARTY.

Except as expressly provided under section 3.1 -, neither PARTY may assign, transfer, give, sublicense or otherwise make available the license rights granted by the other PARTY under this Agreement to any THIRD PARTY other than the AFFILIATES without the prior written authorization of the other PARTY.

Unless expressly stated to the contrary in this Agreement, either PARTY may grant use of its GERMPLASM to private entities or public institutions, including land-grant Universities and USDA-ARS, for any purpose whatsoever, including non-commercial research and BREEDING purposes.

Except as expressly provided under section 3.1, neither PARTY may assign, transfer, give, sublicense or otherwise make available the JOINTLY OWNED GERMPLASM and JOINT KNOW-HOW to any THIRD PARTY without the prior written authorization of the other PARTY. For purpose of clarity, any use of JOINTLY OWNED GERMPLASM or JOINT KNOW-HOW by an LCS AFFILIATE shall be considered a COLLABORATIVE BREEDING EFFORT activity and shall be subject to the rights and obligations assumed by LCS under this Agreement.

Each Parties shall be authorized to use molecular marking or any genetic marking techniques including any genomic and biometrical techniques in order to identify the GERMPLASM and JOINT VARIETIES genotype or the genetic inheritance or any trait inheritance of the GERMPLASM and JOINT VARIETIES received from the other PARTY.

**3.3 RESTRICTIONS ON USE AND TRANSFER OF GERMPLASM UNDER LICENSES.**

Each transfer of GERMPLASM from a PARTY to the other under this Agreement shall be evidenced by an Implementing Letter, the template for which is provided as *EXHIBIT D*, which specifies the GERMPLASM to be transferred.

Each PARTY shall restrict access and use of the other PARTY's GERMPLASM to its personnel, students, AFFILIATES or authorized subcontractors who are engaged in performing the COLLABORATIVE BREEDING EFFORT under the RECIPIENT's supervision. RECIPIENT may not store or use GERMPLASM provided by the other PARTY at any facility outside the control of the RECIPIENT, any of its AFFILIATES or their authorized subcontractors.

Each PARTY shall procure and be responsible for the adherence and compliance of its personnel, students, AFFILIATES or authorized subcontractors to the terms and conditions of this Agreement.

**3.4 UPDATES TO EXHIBITS.**

At least once per year during the TERM of this AGREEMENT, UNIVERSITY and LCS agree to update *EXHIBIT A*, after consideration of any adjunction of any JOINT VARIETY, and *EXHIBITS B* and *C*, after consideration of any adjunction or withdrawal of any GERMPLASM. All modifications to any part of this Agreement must be made in writing and signed by both PARTIES.

**3.5 REPORTING.**

At least once per year, at the occasion of the planning sessions required by section 4.3, each PARTY shall provide to the other PARTY a summary report of results obtained though use of other PARTY's GERMPLASM, including a list of JOINTLY OWNED GERMPLASM, JOINT VARIETIES, and JOINT KNOW-HOW developed during the preceding FISCAL YEAR and disclosed pursuant to Section 6.3, INTELLECTUAL PROPERTY RIGHTS.

**3.6 CONFIDENTIAL INFORMATION.**

Either PARTY shall keep strictly confidential and shall not disclose to any THIRD PARTY, other than an AFFILIATE, all or part of the CONFIDENTIAL INFORMATION received in accordance with the present Agreement, subject to the terms of Section 12.

Either PARTY shall take all reasonable measures with respect to maintaining the foregoing confidentiality of such information by its personnel and, with respect to LCS, those of its AFFILIATES, participating in the execution of either PARTY's obligations in accordance with the present Agreement. Either PARTY undertakes to have its personnel comply with the present confidentiality obligation.

The obligations of the PARTIES as stated in the present article shall not apply to such information which:

- (a) is disclosed in a printed publication available to the public or is otherwise in the public domain at the time of disclosure;
- (b) becomes known through disclosure by sources other than the PARTY and having the right to disclose such CONFIDENTIAL INFORMATION ;



- (c) was acquired by the non-disclosing PARTY prior to its disclosure as evidenced by the non-disclosing PARTY's written records; or
- (d) is subsequently acquired from any THIRD PARTY, provided such THIRD PARTY did not acquire the information from the non-disclosing PARTY under this obligation of confidentiality.

The obligation as stated in the present article shall not prevent either PARTY from disclosing such information or part thereof to any governmental or other authority or regulatory body or private party as is required by law, provided that the receiving PARTY shall immediately inform the disclosing PARTY and cooperate with the disclosing PARTY, at the disclosing PARTY's expense, in interposing an objection to such requirement, if permitted under mandatory applicable law. The PARTIES agree that UNIVERSITY'S obligations under this section 3.6 are subject to the limitations and conditions of the Idaho Public Records Law (IC 9-337-9-350).

The obligations as stated in the present section 3.6 shall bind either PARTY hereto throughout the duration of this Agreement and for a period of three (3) years from the date of termination or expiration of this Agreement, whatever the reason for termination may be.

**3.7 COMPLIANCE WITH LAWS.**

3.7.1 The PARTIES agree to use the GERMPLASM, JOINT OWNED GERMPLASM, and JOINT VARIETIES and to otherwise act during the performance of this Agreement in compliance with all applicable statutes, regulations, laws and guidelines, such as those of the Public Health Service, the National Institute of Health, the Animal Plant Health and Inspection Service, and the Center for Disease Control.

3.7.2 EXPORT CONTROL. The PARTIES shall adhere to the U.S. export administration laws and regulations ("EXPORT CONTROLS"). In the event that any technology, technical data, or other information to be provided under this Agreement is subject to EXPORT CONTROLS, the PARTY that intends to supply the controlled item or information shall send the other PARTY written notice identifying the export-controlled nature of each item. The PARTY to receive the export-controlled item or information shall have the right to reject transfer or receipt of any export-controlled item or information, and such rejection shall not be deemed a breach of this Agreement.

**4. WHEAT BREEDING PROGRAM: PERSONNEL, FACILITIES, TECHNOLOGIES, AND PLANNING**

**4.1 LCS PERSONNEL AND PROGRAM SUPPORT.**

During the TERM of this Agreement, LCS or any of its AFFILIATES shall employ an experienced wheat breeder ("LCS WHEAT BREEDER"), who shall direct LCS development, selection, and testing of JOINT VARIETIES as stated under this Agreement. LCS may, at its discretion and upon written notice to UNIVERSITY, identify another individual to serve in the capacity of LCS WHEAT BREEDER for purposes of this Agreement. Such LCS WHEAT BREEDER shall have responsibility for managing the reception, traceability and use of UNIVERSITY GERMPLASM provided to LCS under this Agreement. LCS, or any of its AFFILIATES, shall also employ at least one Research Assistant to assist the LCS WHEAT BREEDER in its missions. This shall not prevent the LCS WHEAT BREEDER and Research Assistant from undertaking any other activities for LCS.

LCS shall make all reasonable efforts to provide its LCS WHEAT BREEDER and Research Assistant with operating funds, equipment, and hourly labor, as necessary, to support the COLLABORATIVE BREEDING EFFORT under this Agreement. LCS shall make available a minimum of five (5) field test sites each year

for the COLLABORATIVE BREEDING EFFORT, with trials to be conducted by LCS personnel, or authorized subcontractors of LCS and/or its AFFILIATES.

LCS shall utilize the LCS GERMPLASM and related INTELLECTUAL PROPERTY under the COLLABORATIVE BREEDING EFFORT as provided under this Agreement.

LCS shall be authorized to use molecular marking and/or any other technologies within the COLLABORATIVE BREEDING EFFORT on the UNIVERSITY GERMPLASM and JOINTLY OWNED GERMPLASM including, but not limited to, any genomic and biometrical techniques, doubled haploids technology, and DNA-based molecular markers.

**4.2 UNIVERSITY PERSONNEL AND PROGRAM SUPPORT.**

During the TERM of this Agreement, UNIVERSITY shall employ an experienced wheat breeder (“UNIVERSITY WHEAT BREEDER”) who shall direct UNIVERSITY development, selection, and testing of JOINT VARIETIES as stated under this Agreement. UNIVERSITY may, at its discretion and upon written notice to LCS, identify a different or additional qualified individual to serve in the capacity of UNIVERSITY WHEAT BREEDER for purposes of this Agreement. Such UNIVERSITY WHEAT BREEDER shall have responsibility for managing the reception, traceability and use of LCS GERMPLASM provided to UNIVERSITY under this Agreement.

UNIVERSITY also agrees to employ, during term of this Agreement, a support scientist to advance the COLLABORATIVE BREEDING EFFORT in Northern Idaho. This shall not prevent the UNIVERSITY WHEAT BREEDER and support scientist from undertaking any other activities for the UNIVERSITY.

UNIVERSITY shall make all reasonable efforts to provide its UNIVERSITY WHEAT BREEDER and support scientist with operating funds, equipment, and hourly labor, as necessary, to support the COLLABORATIVE BREEDING EFFORT under this Agreement. UNIVERSITY shall make available a minimum of five (5) field test sites each year for the COLLABORATIVE BREEDING EFFORT, with trials to be conducted by UNIVERSITY personnel, or authorized subcontractors of UNIVERSITY.

**4.3. PROJECT MANAGEMENT**

**4.3.1 STEERING COMMITTEE**

The Parties will form a Steering Committee comprised of four individuals, two designated by each PARTY. Each PARTY may, in its sole discretion, replace its assigned representatives at any time as necessary, by providing written notice to the other PARTY of such change. In addition each PARTY shall be entitled, but not bound, to appoint one (1) to three (3) additional individuals to the Steering Committee to act as observers. An observer appointed in such a manner shall be entitled to attend, but not vote, at meetings of the Steering Committee. All significant matters relating to the COLLABORATIVE BREEDING EFFORT will be decided upon by the Steering Committee which will, without limitation:

- (i) determine and coordinate the annual budgets allocated by the PARTIES to the COLLABORATIVE BREEDING EFFORT and administer the COLLABORATIVE BREEDING EFFORT, detailing the personnel, facilities, activities, and technologies required during the course of the upcoming FISCAL YEAR;
- (ii) define, evaluate, and propose the BREEDING strategies for the COLLABORATIVE BREEDING EFFORT;
- (iii) monitor and review the project strategy as well as the progress, results and achievements of the COLLABORATIVE BREEDING EFFORT and the report on use, during the preceding

FISCAL YEAR, of each PARTY'S GERMPASM and JOINTLY OWNED GERMPASM, in accordance with the terms contained herein, in particular those set forth under Sections 3.2, 3.3, 3.6, and 12.

- (iv) identify, evaluate and propose RELEASE of any JOINT VARIETIES, and identify BREEDING lead for those JOINT VARIETIES proposed for RELEASE.
- (v) communicate to LCS any UNIVERSITY ORIGINAL VARIETIES available from UNIVERSITY for commercialization and licensing
- (vi) recommend to the UNIVERSITY Office of Technology Transfer and LCS Chief Operating Officer, the royalty rate to be applied under Section 8 with respect to the commercialization of licensed JOINT VARIETIES outside the United States, if the PARTIES mutually agree that the royalty rate schedule set forth in *EXHIBIT D* is not appropriate for such international commercialization; final determination on an alternate royalty rate to be applied under Section 8 with respect to the commercialization of licensed JOINT VARIETIES outside the United States shall be reached by mutual agreement by UNIVERSITY and LCS and effected by amendment of this Agreement.
- (vii) review proposals by LCS and UNIVERSITY for joint sponsored research to be covered by separate agreements.

The STEERING COMMITTEE shall meet no less frequently than three (3) times per year and its meetings may occur by telephone or in-person, as may be appropriate and agreed upon by the STEERING COMMITTEE. Minutes of the meetings of the STEERING COMMITTEE shall be alternatively drafted by each PARTY's representative and transmitted to the other PARTY as soon as practicable and in any event within thirty (30) days of the meeting. The minutes shall be considered as accepted by the PARTIES after signature by both of them. Decisions shall be made by unanimous vote.

**4.3.2 RELEASE OF JOINT VARIETIES**

RELEASE of any JOINT VARIETY shall require joint approval of the Director of the Idaho Agricultural Experiment Station (IAES) of the UNIVERSITY and LCS VP for Research, with consideration of input from the STEERING COMMITTEE, and UNIVERSITY variety release committee. If no agreement is reached between the Director of IAES and LCS VP for Research, with respect to a JOINT VARIETY proposed for RELEASE, the PARTIES may:

- (i) delay the RELEASE of the JOINT VARIETY in question for one (1) year; or
- (ii) allow, by mutual agreement of the PARTIES, LCS and/or any of its AFFILIATES or UNIVERSITY to independently RELEASE such JOINT VARIETY. For purpose of clarity, any independent RELEASE by LCS and/or its AFFILIATES under this Section 4.3.2(ii) shall be subject to the exclusive, royalty-bearing license granted to LCS by UNIVERSITY for JOINT VARIETIES under Section 3.1.1(ii) and the use of UNIVERSITY name, trademarks, or other designations in connection with such release shall be expressly prohibited. Independent release by UNIVERSITY under this Section 4.3.2(ii) shall be treated as a waiver of the exclusive license granted by UNIVERSITY to LCS under Section 3.1.1(ii), a grant of an exclusive, royalty-bearing license by LCS to UNIVERSITY for the JOINT VARIETY, which license terms shall be the same as those granted by UNIVERSITY to LCS under Section 3.1.1(ii).

**5. EDUCATIONAL SUPPORT AND TRAINING**

**5.1 LCS GRADUATE RESEARCH ASSISTANTSHIP AND SUPPORT.**

During the term of this Agreement, LCS agrees to provide funds, not to exceed forty thousand dollars (\$40,000) each year, to support up to two (2) Graduate Research Assistantships for masters- or doctoral-level students to conduct research in areas of mutual interest to LCS and UNIVERSITY, including pathology, entomology, cropping systems, BREEDING, genetic, or related multidisciplinary research (“Graduate Research”). Awarding of the Graduate Research Assistantship and choice of research project will be common decision of the PARTIES, based on recommendations made by the Steering Committee. At the discretion of UNIVERSITY, LCS WHEAT BREEDER may serve as a representative on the GRA advisory committees.

In consideration of the support granted by LCS, UNIVERSITY shall promptly report to LCS any and all results arising from, developed and/or generated by the Graduate Research Assistants within their research project supported by LCS (“Graduate Research Results”).

Ownership and licensing of any INTELLECTUAL PROPERTY discovered or developed within their research project by Graduate Research Assistant supported by LCS shall be determined according to and governed by: University of Idaho Board of Regents policy, as set forth in the Idaho State Board of Education Policies and Procedures, Section V., Financial Affairs, Subsection M., Intellectual Property, and UNIVERSITY policy, as set forth in the University of Idaho Faculty Staff Handbook Section 5300, as amended from time to time; ownership of INTELLECTUAL PROPERTY as recognized by and established by the terms of this Agreement; licenses granted under this Agreement in Section 3.1 by the PARTIES with respect to INTELLECTUAL PROPERTY. For purpose of clarity, neither this Section 5.1 nor other Sections of this Agreement shall grant to LCS ownership of or licensed rights in INTELLECTUAL PROPERTY arising from Graduate Research Results when LCS GERMPLOID, JOINTLY OWNED GERMPLOID, or JOINT VARIETIES were not used in the development of such INTELLECTUAL PROPERTY.

UNIVERSITY agrees to execute with each masters- or doctoral-level students involved in the Graduate Research Assistantships supported by LCS as provided herein a written agreement containing confidentiality and Intellectual Property terms and conditions not less stringent than those contained under the present Agreement and, also, each aforesaid masters- or doctoral-level students shall assign to UNIVERSITY any intellectual property rights over any inventions discovered during the course of their projects conducted under Graduate Research Assistantships supported by LCS.

LCS also agrees to consider UNIVERSITY undergraduate and graduate students for potential internships or research and training opportunities at LCS and/or its AFFILIATES. For purposes of clarity, this paragraph is not intended to obligate LCS or its AFFILIATES to any specific performance or action with regards to this subject matter.

**5.2 ENDOWMENT FOR CROPPING SYSTEMS RESEARCH.**

LCS shall contribute a total of three hundred thousand dollars (\$300,000) to an endowment established at the University of Idaho Foundation to support cropping systems research. Endowment funds to be contributed by LCS shall be paid over a period of four (4) years per the schedule below:

<u>Date</u>	<u>Year</u>	<u>LCS Contribution</u>
Within 30 days of Execution hereof	2012	\$50,000
July 1	2013	\$100,000
July 1	2014	\$100,000
July 1	2015	\$50,000

The obligations assumed by LCS under this section 5.2, respecting contribution by LCS to a UNIVERSITY endowment, shall bind LCS hereto throughout the duration of this Agreement and shall survive termination of this Agreement, unless the Agreement is terminated by UNIVERSITY, consistent with Section 10 . or is breached by UNIVERSITY prior to July 1, 2015.

**5.3. ADJUNCT FACULTY – LCS WHEAT BREEDER.**

Subject to appropriate academic considerations and consistent with University policy, LCS shall assign the LCS WHEAT BREEDER to UNIVERSITY for the purpose of advising students and serving on graduate students’ supervisory committees, with approval by the College of Graduate Studies, within the College of Agricultural and Life Sciences, and shall be designated by UNIVERSITY as an adjunct faculty member. The LCS WHEAT BREEDER serving in the capacity of adjunct faculty shall at all times relevant to this Agreement be an employee of LCS. LCS agrees during the term of this Agreement to pay all compensation to which the LCS WHEAT BREEDER is entitled as an LCS employee, including without limitation full salary and benefits. LCS is solely responsible for payment of income, social security, and other employment taxes, and agrees to indemnify, defend, and hold University harmless from any and all liabilities, losses, claims or judgments relating to the payment of these taxes.

At no time during the performance of this Agreement shall LCS WHEAT BREEDER act in accordance with instructions from, or at the direction of, LCS regarding the work performed on behalf of University as adjunct faculty. LCS WHEAT BREEDER shall to perform duties and assignments associated with his/her adjunct faculty status in accordance with all applicable Department and University policies and procedures, except that University’s dismissal and grievance policies shall not apply. LCS and LCS WHEAT BREEDER understand and agree that any failure to adequately perform, as determined by University in its sole discretion, or termination of employment of LCS WHEAT BREEDER by LCS may result in termination of LCS WHEAT BREEDER’s assignment under this Section 5.3. Such termination by either PARTY shall not be considered a breach of or termination of this Agreement.

**6. INTELLECTUAL PROPERTY RIGHTS**

**6.1 OWNERSHIP OF PARTY GERMPASM.**

The UNIVERSITY GERMPASM and any and all INTELLECTUAL PROPERTY rights related thereto shall remain the sole ownership of the UNIVERSITY, subject to any third party’s rights. UNIVERSITY shall own all rights, title, and interest in intellectual property created solely by UNIVERSITY, including without limitation UNIVERSITY GERMPASM and INTELLECTUAL PROPERTY. UNIVERSITY may apply, at its sole discretion and at its own costs, for registration and protection of the UNIVERSITY GERMPASM and /or INTELLECTUAL PROPERTY related to it.

Respectively, LCS GERMPASM and any and all INTELLECTUAL PROPERTY rights related thereto shall remain the sole ownership of LCS, subject to any third party’s rights. LCS shall own all rights, title, and interest in intellectual property created solely by LCS and/or its AFFILIATES, including without limitation LCS GERMPASM and INTELLECTUAL PROPERTY. LCS may apply, at its sole discretion and at its own costs, for registration and protection of the LCS GERMPASM and /or INTELLECTUAL PROPERTY related to it.

Notwithstanding the foregoing, prior to first offering for sale any LINE created and developed by either PARTY under this Agreement which is not a JOINTLY OWNED GERMPASM, the PARTY that has created and developed such LINE shall give notice to the other PARTY, including in reasonable detail such

information as may be required to trace back such LINE to the JOINTLY OWNED MATERIAL it was selected from.

**6.2 COMMON DISPOSITIONS**

The PARTIES will not undertake any activity that may have the effect, directly or indirectly, of challenging or circumventing the other PARTY's proprietary rights in that PARTY's GERMPASM. The PARTIES shall inform each other about any claim or action brought by any THIRD PARTY who could prevent one PARTY, or both PARTIES, having entire possession of the rights granted hereby.

Each Party shall promptly notify the other in writing of any violation of any and all intellectual and proprietary rights licensed hereunder or unauthorized disclosure of CONFIDENTIAL INFORMATION of which it becomes aware.

LCS is not granted any right of enforcement for the UNIVERSITY GERMPASM intellectual property rights, and UNIVERSITY is not granted any right of enforcement for the LCS GERMPASM intellectual property rights. Any and all enforcement of such rights shall be in the sole discretion of each PARTY.

**6.3 OWNERSHIP OF THE JOINTLY OWNED GERMPASM.**

UNIVERSITY and LCS shall each own an undivided one-half interest in any JOINTLY OWNED GERMPASM, including but not limited to JOINT VARIETIES, and JOINT KNOW-HOW. During the term of this Agreement, such JOINTLY OWNED GERMPASM and JOINT KNOW-HOW shall be within the scope of the licenses granted by the PARTIES to each other pursuant to section 3.1.

Any PARTY that identifies any JOINTLY OWNED GERMPASM and JOINT KNOW-HOW or other intellectual property generated pursuant to the COLLABORATIVE BREEDING EFFORT shall promptly disclose the same to the other PARTY indicating the respective role of UNIVERSITY GERMPASM and LCS GERMPASM and contribution of the PARTIES in creation of such JOINTLY OWNED GERMPASM and JOINT KNOW-HOW or other intellectual property.

**6.4 PROTECTION OF JOINT INTELLECTUAL PROPERTY.**

**6.4.1 INTELLECTUAL PROPERTY REGISTRATION**

LCS and UNIVERSITY shall be co-owners of the JOINT VARIETIES and identified as such on the PVP or patent application, unless one PARTY declines ownership as communicated to the other PARTY in writing within sixty (60) days of approval for co-release.

LCS shall have the right to independently apply for, prosecute, file and maintain Intellectual Property protection such as PVP or patent rights over JOINT VARIETIES and other JOINTLY OWNED GERMPASM, provided that LCS shall be listed as applicant and LCS and UNIVERSITY as co-breeders/co-inventors and co-owners.

UNIVERSITY shall, at the request of LCS, give technical help and assistance to LCS necessary for the submission of an application for registration and/or official testing and/or certification of JOINT VARIETIES as well as permission to use the UNIVERSITY GERMPASM under this Agreement. Costs associated with preparing (including but not limited to testing and certifying of JOINT VARIETIES), prosecuting, filing and maintaining Intellectual Property rights over JOINTLY OWNED GERMPASM and JOINT KNOW-HOW shall be borne by LCS.

Each PARTY shall execute and cause to be executed by its Affiliates, employees and agents all documents and other instruments (including any assignment of rights in and to JOINTLY OWNED GERMPLASM and JOINT KNOW-HOW) and take and cause its Affiliates, employees and agents to take all such other actions as may be necessary or desirable to effectuate the intent of this Agreement.

Without limiting the foregoing, each PARTY shall assist in applying for, prosecuting and maintaining PVP registration or patent, including without limitation by permitting such PVP or patent applications, certificates or filings to be made in such PARTY's name and delivering such instruments and documents as may necessary to confirm the ownership of the JOINTLY OWNED GERMPLASM and JOINT KNOW-HOW in accordance with this Agreement.

**6.4.2 CLAIMS AGAINST THE PARTIES**

In the event of the institution of any suit by a THIRD PARTY against UNIVERSITY, LCS or any of its AFFILIATES for infringement of any INTELLECTUAL PROPERTY rights involving the COLLABORATIVE BREEDING EFFORT or the JOINTLY OWNED GERMPLASM, the PARTY sued shall promptly notify the other PARTY in writing. Each PARTY shall separately defend any suit brought by a THIRD PARTY for any infringement claims based on its separate INTELLECTUAL PROPERTY contributed to the COLLABORATIVE BREEDING EFFORT. The PARTIES shall jointly control the defense of and support equally the costs for any infringement suit based on JOINTLY OWNED GERMPLASM or JOINT VARIETIES.

**6.4.3 THIRD PARTY INFRINGEMENT**

In the event either PARTY becomes aware of any actual or threatened infringement by a THIRD PARTY of any INTELLECTUAL PROPERTY rights with respect to the JOINTLY OWNED GERMPLASM or of any unauthorized disclosure of CONFIDENTIAL INFORMATION, such PARTY shall promptly notify the other PARTY in writing.

LCS shall have the first right, but not the obligation, to bring a suit or legal proceedings against any THIRD PARTY to prevent or stop such infringement or disclosure ("Infringement"), and UNIVERSITY shall have the right, at its own expenses, to be represented in any such suit by counsel of its own choice. If LCS fails to bring a suit or otherwise take action with respect to any such Infringement within one hundred and twenty (120) days following receipt of notice of the alleged Infringement, UNIVERSITY shall have the right to bring suit or otherwise take action with respect to such Infringement at its own expenses and by counsel of its own choice.

The PARTY conducting such action shall have full control over its conduct, including settlement thereof, provided neither PARTY may enter into any agreement or make any admission with respect to the enforceability or validity of any rights in, to or under INTELLECTUAL PROPERTY owned by the other PARTY without the prior written consent of such PARTY. In any event, each Party shall cooperate with and provide to the other Party enforcing any rights under this Section 6.4.3 reasonable assistance in such enforcement, at such enforcing Party's request and expense. The enforcing Party under this section 6.4 shall keep the other Party regularly informed of the status and progress of such enforcement efforts, and shall reasonably consider the other Party's comments on any such efforts.

Any recovery obtained by either or both Parties in connection with or as a result of any action to enforce any Infringement, whether by settlement or otherwise, shall first be applied to reimburse the costs and expenses of the Party that brought and controlled such action and then to reimburse the costs and expenses of the other Party in connection with such action, if any; and any amounts remaining after such reimbursement shall be retained by the Party that brought and controlled such action.

## 7. IDAHO WHEAT COMMISSION (“IWC”)

The PARTIES agree to seek, together or separately, funding from the IWC to support, directly or indirectly, collaborative research and BREEDING including, but not limited to, BREEDING, germplasm development, agronomic and cropping systems research, disease and insect research, and variety development. The terms and conditions of each funding agreement shall direct application and use of IWC funds and ownership of any property acquired through IWC project funds.

## 8. COMMERCIALIZATION AND ROYALTY

### 8.1. ROYALTIES.

8.1.1 In consideration of the licenses granted pursuant to Section 3.1.1 (ii), LCS shall pay to UNIVERSITY a royalty fee equal to a percentage, as determined in accordance with *EXHIBIT D* attached hereto, of the NET ROYALTY received or collected for licensed JOINT VARIETIES that LCS and its AFFILIATES commercialize. The royalty rate schedule set forth in *EXHIBIT D* shall govern the commercialization of all licensed JOINT VARIETIES, unless the PARTIES mutually agree in writing to modify *EXHIBIT D* to establish alternate royalty rates to be applied to the commercialization of licensed JOINT VARIETIES outside the UNITED STATES. Any such alternate royalty rates shall be recommended by the STEERING COMMITTEE, to the UNIVERSITY Office of Technology Transfer and LCS Chief Operating Officer, consistent with Section 4.3.1., and incorporated under a written amendment to this Agreement signed by both PARTIES.

8.1.1.1 Clearfield Varieties. LCS acknowledges that any wheat varieties containing the Clearfield gene(s), developed either jointly or solely by UNIVERSITY, are licensed to Clearfield Seed Associates under the Tri-State Clearfield Agreement and are subject to a commercial license agreement to be signed between LCS and BASF. Royalty share on jointly developed Clearfield varieties shall be divided between UNIVERSITY and LCS according to the relative contribution of each PARTY, per *EXHIBIT D* attached hereto.

8.1.2 Unless otherwise agreed between the PARTIES, the royalty fee shall be due and payable in US dollars currency on or before January 31 for sales achieved during the preceding FISCAL YEAR. Any royalty fees that remain unpaid more than sixty (60) days after they are due to the UNIVERSITY shall accrue interest at one and one-half percent (1.5%). In no event shall this interest provision be construed as a grant of permission for any payment delays.

8.1.3 LCS shall be entitled to withhold from all amounts due to UNIVERSITY under this Agreement, any tax in the nature of an income tax, which LCS is legally required to withhold and pay to the tax authorities. If such income taxes are withheld by LCS, LCS shall forthwith deliver to UNIVERSITY a statement showing the amount of taxes withheld, the date of payment of the tax, the reference to the statutory language on the basis of which the tax was withheld, and a receipt of payment issued by the government authority to which such tax was paid.

UNIVERSITY is exempt from paying income taxes under U.S. law. Therefore, all payments due under this Agreement shall be made by LCS without deduction for taxes, assessments, or other charges of any kind that may be imposed on UNIVERSITY by any government outside of the United States or any political subdivision of such government with respect to any amounts payable to UNIVERSITY pursuant to this Agreement. All such taxes, assessments, or other charges shall be assumed by LCS.



8.1.4 Each PARTY shall keep full, true and accurate books of records containing particulars that may be necessary for the purpose of showing the amounts of royalty fees payable to the other PARTY from time to time under this Agreement.

8.1.5 LCS shall remit to the UNIVERSITY before January 31 each year a report containing, country by country, quantities of unit sold per each VARIETY as well as the NET ROYALTIES received or collected per VARIETY for the preceding year ("Annual Report"). This report shall also include a full accounting showing how any royalty fees due to UNIVERSITY under Section 8.1.1 have been calculated.

8.1.6 UNIVERSITY shall examine the information received under section 8.1.5 above and shall be authorized by the other to inspect LCS's financial records of the last FISCAL YEAR in order to verify the information contained in the Annual Report. Such verification shall be performed by the UNIVERSITY's accredited auditor at LCS's place of business. Access to such LCS's place of business shall be granted by it to the UNIVERSITY upon fifteen (15) days prior written notice. It is agreed that the auditor performing the verification shall be held not to disclose any confidential information regarding THE audited PARTY to a THIRD PARTY.

8.1.7 If a royalty payment deficiency is determined, LCS shall pay the royalty deficiency outstanding within thirty (30) days of receiving written notice thereof.

**8.2 REGISTRATION.**

8.2.1 LCS and/or its AFFILIATES are responsible for the registration of the licensed JOINT VARIETIES in the official catalogue or any equivalent that may be required in any country when such registration is required for use of the JOINT VARIETIES for COMMERCIAL PURPOSES by LCS and/or its AFFILIATES. UNIVERSITY shall fully cooperate with LCS and/or its AFFILIATES in applying for, prosecuting and maintaining such registration and/or other similar filings.

**8.3 COMMERCIALIZATION, PROMOTION, AND ADVERTISING.**

LCS, and/or its AFFILIATES, shall earnestly and diligently endeavor to commercialize, develop and promote each licensed JOINT VARIETIES within two (2) years after the license for each JOINT VARIETY becomes effective, and each year thereafter, and in sufficient quantities to meet market demand for each JOINT VARIETY, provided however that each JOINT VARIETY is able to properly compete with THIRD PARTY varieties already available for commercialization on the market. For purposes of clarity, market demand shall be considered the total demand, verifiable by reasonable and customary business practices, for a given licensed JOINT VARIETY. Consistent with Section 10.3, either PARTY may terminate a license granted under section 3.1.1 (ii) for any licensed JOINT VARIETY for which LCS did not realize any sale during a continuous period of twenty-four (24) months.

LCS may distribute and sell the licensed JOINT VARIETIES hereunder through its Affiliates, distributors, partners or agents for its own account, provided that LCS shall remain responsible for the compliance of such Affiliate, distributor, partner or agent with any and all provisions of this Agreement.

Unless otherwise agreed in writing between the Parties, LCS will be responsible for commercial seed production of the licensed JOINT VARIETIES. Notwithstanding the foregoing, the PARTIES agree that Breeder and Foundation seed stocks necessary for production of the basic and commercial seeds which will be marketed and sold by LCS may be produced by Idaho Foundation Seed Program or any other entity the PARTIES may agree in writing. LCS will be responsible for the production of all other

subsequent generations of seed, and purification and maintenance of the wheat varieties for which it has received a license hereunder.

During the term of this Agreement, LCS agrees to consult the UNIVERSITY for the packaging, literature and other promotional materials relating to the licensed JOINT VARIETIES, provided that LCS shall have final decision. UNIVERSITY and LCS agree to do their best endeavors to negotiate in good faith possible variety name, label, or other identification recognizing or acknowledging contributions of both PARTIES under the COLLABORATIVE BREEDING EFFORT.

UNIVERSITY agrees that data and information from UNIVERSITY research and trials can be used in advertising, promotion, and extension publications for licensed JOINT VARIETIES. LCS agrees that data and information from LCS research and trials can be used in advertising, promotion, and extension publications for JOINT VARIETIES.

Nonetheless, per Section 12, neither UNIVERSITY nor LCS shall use the name, trade name, trademark, or other designation of the other, or any contraction, abbreviation, or simulation of any of the foregoing, in any advertisement, publication, or any commercial or promotional purpose without the other's prior written consent in each case, with deadline of thirty (30) days to respond to such requests.

## **9. REPRESENTATIONS AND WARRANTIES; INSURANCE**

### **9.1 REPRESENTATIONS AND WARRANTIES**

Each PARTY warrants that it has full power and authority to enter into this Agreement and to grant the licence and the rights as provided hereunder.

Each PARTY warrants that, to the best of its knowledge, the GERMPLASM provided by it to the other PARTY is not infringing any third party's intellectual property rights.

Neither PARTY makes any representations or warranties of any kind, either express or implied, as to any matter, including without limitation, any warranties of usefulness, efficiency, purity, safety, merchantability, accuracy, performance or fitness of the GERMPLASM supplied to the other PARTY for any particular purpose.

Except for obligations assumed by the PARTIES pursuant to Section 6.6 and to the extent caused by a breach of warranty, gross negligence, or wilful misconduct by the other PARTY, each PARTY agrees to be solely responsible for any and all demands, claims, causes of action or damages, including but not limited to consequential damages, reasonable attorneys fees and expenses, arising out of, resulting from or related to the use of the GERMPLASM received from the other PARTY, the JOINTLY OWNED GERMPLASM and JOINT KNOW-HOW under this Agreement.

Subject to obligations assumed by the PARTIES under Section 6.6, it is further expressly agreed that each PARTY shall hold harmless and indemnify the other PARTY, its AFFILIATES, its Directors, its Officers, its employees and agents from and against any liabilities or claims arising from any material breach of this Agreement by it or its Directors, Officers, employees and agents, or any use of the GERMPLASM received from the other PARTY, the JOINTLY OWNED GERMPLASM and JOINT KNOW-HOW under this Agreement. With respect to UNIVERSITY, limits of liability and this indemnification are \$500,000 Combined Single Limits, which amount is the University's limit of liability under the Idaho Tort Claims Act.

Except to the extent caused by a breach of warranty as set forth herein, neither PARTY shall be liable in contract, tort, or otherwise to the other, or any third PARTY for special, incidental, indirect or consequential damages, including, without limitation, loss of profits or revenue, suffered or incurred by the other PARTY or its AFFILIATES in connection directly or indirectly with this agreement.

**9.2 INSURANCE** LCS is required to carry the types and limits of insurance shown in this insurance clause, and to provide University with a Certificate of Insurance executed by a duly authorized representative of each insurer listed below, showing compliance with the insurance requirements set forth below. If LCS is self-insured, equivalent coverage shall be maintained and evidence of equivalent coverage shall be provided. Certificates shall be provided (30) thirty days after the effective date of this Agreement and annually no later than January 31 of each calendar year.

All insurers shall have a Best's rating of AV or better, or its equivalent at the time of policy subscription, and be licensed and admitted in Idaho. In the event LCS renews a policy when the Best's rating for the policy issuer is below a B+V rating, the University shall have the option to terminate this agreement. All required policies shall be written as primary policies of LCS and not contributing to nor in excess of any coverage UNIVERSITY may choose to maintain.

Additionally and at its option, UNIVERSITY may request certified copies of required policies and endorsements. Such copies shall be provided within (10) ten days of the UNIVERSITY's request.

Failure of UNIVERSITY to demand such certificate or other evidence of full compliance with these insurance requirements or failure of UNIVERSITY to identify a deficiency from evidence that is provided shall not be construed as a waiver of LCS's obligation to maintain such insurance. Failure to maintain the required insurance may result in termination of this Agreement at UNIVERSITY's option.

No Representation of Coverage Adequacy. By requiring insurance herein, UNIVERSITY does not represent that coverage and limits will necessarily be adequate to protect LCS, and such coverage and limits shall not be deemed as a limitation on LCS's liability under the indemnities granted to UNIVERSITY in this Agreement.

LCS shall obtain insurance of the types and in the amounts described below:

Commercial General and Umbrella Liability Insurance: LCS shall maintain commercial general liability (CGL) and, if necessary, commercial umbrella insurance with a limit of not less than \$1,000,000 each occurrence and in the aggregate. CGL insurance shall be written on standard ISO occurrence form (or a substitute form providing equivalent coverage) and shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal injury and advertising injury.

Personal property: LCS shall purchase insurance to cover LCS's personal property. In no event shall University be liable for any damage to or loss of personal property sustained by LCS, whether or not insured, even if such loss is caused by the negligence of University, its employees, officers or agents.

Workers' Compensation: Where required by law, LCS shall maintain all statutorily required coverages including Employer's Liability.

**10. TERM AND TERMINATION.**

**10.1 TERM.**

The TERM of this Agreement shall be from the EFFECTIVE DATE until July 1, 2015, unless earlier terminated according to section 10.2.

This Agreement will be renewable for additional periods of time upon the mutual consent of the PARTIES by either a new agreement or by an amendment hereto expressed in writing signed by both PARTIES.

**10.2 TERMINATION OF AGREEMENT.**

Each PARTY shall have the right at any time by giving notice in writing to the other PARTY to terminate this Agreement forthwith, without indemnity and without prior award, judgment or any other legal formality, in any of the following events:

- (a) if the other PARTY becomes bankrupt or insolvent, enters into a debt rescheduling or discharge arrangement with its creditors or goes into liquidation; or
- (b) if there is a Change of Control of the other PARTY;
- (c) if the other PARTY commits a material breach of any of the terms or conditions of this Agreement and fails to remedy such breach within sixty (60) days from the date of notification of the breach by the terminating PARTY (such cure period applying provided that the breach is capable of remedy).

For any avoidance of doubt, the failure by either PARTY to maintain the personnel or facilities expressly identified in Section 4 of this Agreement shall constitute a material breach of the terms contained in this Agreement.

The PARTIES acknowledge that UNIVERSITY cannot obligate appropriated funds of the state of Idaho beyond the term of any appropriation and, in the event funding from the state of Idaho is reduced and UNIVERSITY is unable to maintain funding for personnel or facilities, as described in Section 4, the sole remedy shall be termination of this Agreement by LCS pursuant to the provisions set forth in section 10.2 (c).

The PARTIES further agree that any failure by LCS to meet its obligations in connection with JOINT VARIETIES licensed pursuant to Section 3.1.1(ii), which failures constitute the basis for termination of exclusive licenses to JOINT VARIETIES under Section 10.3, shall constitute a material breach of the terms contained in this Agreement.

**10.3 TERMINATION OF EXCLUSIVE LICENSES**

If LCS at any time defaults in the timely payment of any monies due to UNIVERSITY under or fails to meet the diligence requirements established by Section 8 for JOINT VARIETIES licensed pursuant to Section 3.1.1(ii), or commits any material breach of any other covenant herein contained, and LCS fails to remedy any such breach or default within sixty days (60) days, or thirty (30) days in the event of non-payment, after written notice thereof by UNIVERSITY, UNIVERSITY may, at its option, and by giving thirty notice of termination to LCS:

- (a) terminate the license for the JOINT VARIETY that was the basis for the breach or default;
- (b) terminate all licenses to JOINT VARIETIES granted to LCS by UNIVERSITY under Section 3.1.1(ii); and/or
- (c) terminate, consistent with Section 10.2, this Agreement.

LCS may terminate any license to a JOINT VARIETY at any time by giving at least one hundred and eighty (180) days written and unambiguous notice of such termination to UNIVERSITY. Such a notice shall be accompanied by a statement of the reasons for termination. Upon such termination of a license to a JOINT VARIETY by LCS, each PARTY may agree to license its respective rights in the terminated JOINT VARIETY to a THIRD PARTY.

Upon the termination of any license(s), LCS shall remain obligated to provide an accounting for and to pay royalties earned up to the date of the termination.

**10.4 EFFECTS OF TERMINATION**

Upon termination of this Agreement:

- (a) each PARTY shall promptly destroy or return, according to the other PARTY's instructions all seed stocks of all remaining GERMPLASM and related CONFIDENTIAL INFORMATION received from the other PARTY in its possession. The RECIPIENT shall certify in writing, within thirty (30) days following the date of termination of this Agreement, that it has complied with the provisions of the present article;
- (b) any remaining seed stocks of JOINTLY OWNED GERMPLASM shall be shared equally between UNIVERSITY and LCS; and
- (c) LCS shall retain commercial license rights as set forth under section 3.1.1 (ii) with respect to the JOINT VARIETIES RELEASED during the TERM of this Agreement, subject to royalty payment to UNIVERSITY in accordance with Section 8, except for any license(s) to JOINT VARIETIES that the UNIVERSITY has terminated consistent with Section 10.3.

In case of termination of this Agreement, the Sections 3.1, 3.6, 3.7, 5.2, 6, 8, 9, 10.3, 12 and 15 shall remain in full force and effect.

**11. NOTICES.**

Any notice, disclosure, or communication required or permitted under this Agreement shall be delivered in person, by overnight courier, or by registered or certified mail, postage prepaid and addressed to the PARTY to receive such notice at the address given below or such other address as may hereafter be designated by notice in writing. Notice given hereunder shall be effective as of the date of the recipient of such notice:

UNIVERSITY:  
Office of Technology Transfer  
P. O. Box 443003  
Morrill Hall 414  
University of Idaho  
Moscow, ID 83844-3003  
Attn: Gaylene Anderson, Licensing Associate

LCS: Limagrain Cereal Seeds LLC  
2040 SE Frontage Rd  
Fort Collins, CO 80525

Attn: Legal Department

**12. PUBLICATION.**

Notwithstanding section 3.6, UNIVERSITY may publish, otherwise publically disclose, or submit for publication an article, manuscript, abstract, report, poster, presentation, or other material that exclusively relates to the use of UNIVERSITY GERMPPLASM in research and identifying information regarding the UNIVERSITY GERMPPLASM, as would be reasonably be required for purposes of publication in a peer-reviewed scientific journal. Notwithstanding section 3.6, LCS may publish, otherwise publically disclose, or submit for publication an article, manuscript, abstract, report, poster, presentation, or other material that exclusively relates to the use of LCS GERMPPLASM in research and identifying information regarding the LCS GERMPPLASM, as would be reasonably be required for purposes of publication in a peer-reviewed scientific journal.

UNIVERSITY may publish, otherwise publically disclose, or submit for publication an article, manuscript, abstract, report, poster, presentation, or other material that includes the results of the use of LCS GERMPPLASM, JOINTLY OWNED GERMPPLASM, JOINT VARIETIES, or JOINT KNOW-HOW in research and identifying information regarding the LCS GERMPPLASM, JOINTLY OWNED GERMPPLASM, JOINT VARIETIES, or JOINT KNOW-HOW, as would be reasonably be required for purposes of publication in a peer-reviewed scientific journal, subject to prior review by LCS.

Any proposed publication or communication shall be submitted by UNIVERSITY to LCS in writing for review. LCS will then have forty-five (45) days to review and give its opinion. Should LCS determine the publication contains confidential information, UNIVERSITY shall accordingly revise the publication, codify certain information, or delay such publication, in order to avoid disclosure of confidential information. If LCS does not identify for UNIVERSITY confidential information contained in the publication during such forty-five (45) review period, its consent to publication will be deemed to have been given.

The obligations as stated in the present Section shall bind either PARTY hereto throughout the Term of this Agreement and for a period of three (3) years after its termination or expiration, whatever the reason may be.

**13. NON-USE OF NAMES AND TRADEMARKS.**

Neither UNIVERSITY nor LCS shall use the name, trade name, trademark, or other designation of the other, or any contraction, abbreviation, or simulation of any of the foregoing, in any advertisement, or any commercial or promotional purpose without the other's prior written consent in each case.

**14. PUBLICITY.**

Neither PARTY shall use the name of the other PARTY, nor any member of the other PARTY's employees, nor either PARTY's Trademarks in any publicity, advertising, sales, promotion, news release, nor other publicity matter without the prior written approval of an authorized representative of the PARTY. The authorized representative shall be person signing this Agreement by the PARTY, unless another individual is otherwise designated in writing.

**15. GOVERNING LAW AND DISPUTE RESOLUTION.**

15.1 This Agreement shall be subject to and governed by the laws of the **State of Idaho**, without regard to the conflict of laws principles thereof.

**15.2** Any and all claims, disputes or controversies arising under, out of, or in connection with this Agreement and any subsequent amendments of this Agreement, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims which the PARTIES hereto shall be unable to resolve within sixty (60) days ('Dispute'), shall be submitted to mediation in accordance with the present clause.

A Party claiming that a Dispute has arisen must notify the other Party to the Dispute giving details of the Dispute ('Notification'). On receipt of a Notification each Party shall endeavor in good faith to resolve the Dispute within thirty (30) days or within a longer period as may be agreed between the Parties following the Notification ("Mediation Period") and, if necessary to resolve the Dispute, involve the Chief Executive Officers or other delegated senior officers of the Parties directly in those negotiations.

If the Dispute involves technical matters and has not been resolved by negotiations under the previous paragraph within the specified time, any Party may refer the Dispute for determination by an independent expert agreed by the Parties or in the absence of agreement with respect to appointment of a single independent expert each Party shall select an independent expert, which experts shall then appoint a third independent expert. Together, these experts shall form a panel to assist in the resolution of the Dispute. The independent expert or panel will have thirty (30) days from formal appointment to form an opinion and assist in resolution of the Dispute. Such independent expert or panel shall act as an expert and not as an arbitrator.

The determination made by the expert or panel shall not be binding upon the parties. The language to be used in the expert determination shall be English.

If the Dispute is not resolved pursuant to the Mediation clause above within the Mediation Period, the Dispute shall be finally settled by arbitration pursuant to the rules and principles set forth hereinafter.

**15.3** The arbitration shall be conducted in accordance with the rules of the American Arbitration Association (AAA) in effect at the time of arbitration, except as modified herein or by mutual agreement of the Parties.

Arbitrators. The arbitration shall be conducted by three arbitrators. The party initiating arbitration (the "Claimant") shall appoint its arbitrator in its request for arbitration (the "Request"). The other party (or the other parties, acting jointly, if there is more than one) (the "Respondent") shall appoint its arbitrator within thirty (30) days of receipt of the Request and shall notify the Claimant of such appointment in writing. If the Respondent fails to appoint an arbitrator within such thirty (30)-day period, the arbitrator named in the Request shall decide the controversy or claim as a sole arbitrator. Otherwise, the two arbitrators appointed by the Parties shall appoint a third arbitrator within thirty (30) days after the Respondent has notified Claimant of the appointment of the Respondent's arbitrator. When the arbitrators appointed by the Claimant and Respondent have appointed a third arbitrator and the third arbitrator has accepted the appointment, the two arbitrators shall promptly notify the Parties of the appointment of the third arbitrator. If the two arbitrators appointed by the Parties fail or are unable so to appoint a third arbitrator or so to notify the Parties, then the appointment of a neutral third arbitrator shall be made by the AAA, which shall promptly notify the Parties of the appointment of the third arbitrator. The third arbitrator shall act as chairman of the panel.

The seat of the arbitration shall be in Moscow, ID (USA), in the event that LCS is the Claimant, and in Fort Collins, CO (USA), in the event that UNIVERSITY is the Claimant, provided that the arbitrators may hold

hearings in such other locations as the arbitrators determine to be most convenient and efficient for all the Parties under the circumstances. Unless otherwise agreed by the Parties, all arbitration proceedings shall be conducted in English.

Award. Any award rendered by the arbitrators shall be in writing and shall be final and binding upon the Parties, and may include an award of costs, including without limitation reasonable attorneys' fees and disbursements. Judgment upon the award rendered may be entered by any court having jurisdiction thereof or having jurisdiction over the Parties or their assets.

**16. SEVERABILITY.**

If any provision of this Agreement or any provision of any document incorporated by reference shall be held invalid, such invalidity shall not affect the other provisions of this Agreement which can be given effect without the invalid provision, if such remainder conforms to the requirements of applicable law and the fundamental purpose of this Agreement, and to this end the provisions of this Agreement are declared to be severable.

**17. NO JOINT VENTURE.**

Nothing contained in this Agreement shall be construed as creating a joint venture, partnership, or agency relationship between the parties.

**18. FORCE MAJEURE.**

Any prevention, delay or stoppage due to strikes, lockouts, labor disputes, acts of God, inability to obtain labor or GERMPLASM or reasonable substitutes therefore, governmental restrictions, governmental regulations, governmental controls, enemy or hostile governmental action, civil commotion, fire or other casualty, and other causes beyond the reasonable control of the PARTY obligated to perform (except for financial ability), shall excuse the performance, except for the payment of money, by such PARTY for a period equal to any such prevention, delay or stoppage.

**19. SURVIVAL.**

This Agreement contains all the terms and conditions agreed upon by the PARTIES. No other understandings, oral or otherwise, regarding the subject matter of this Agreement shall be deemed to exist or to bind any of the PARTIES hereto.



**IN WITNESS WHEREOF**, the PARTIES hereto have caused this Agreement to be executed as of the date set forth herein by their duly authorized representatives.

**UNIVERSITY OF IDAHO**

Signature:

Name: John K. McIver

Title: Vice President for Research and Economic Development

Date:

Acknowledged by:

Signature:

Name: John Hammel

Title: Dean, College of Agricultural and Life Sciences

Date:

**LIMAGRAIN CEREAL SEEDS**

Signature:

Name: Michel Debrand

Title: Chief Executive Officer, Limagrain Cereal Seeds, and  
Head, International Business Development, Limagrain Group Holding

Date:

**EXHIBIT A**

[JOINT VARIETIES AND JOINTLY OWNED GERMPLOASM TEMPLATE TO BE INSERTED]



**EXHIBIT B**

**LCS GERMPPLASM**

[LCS GERMPPLASM LIST TO BE INSERTED]

## LCS EU Y3-1 (FrV)

Nursery	Entry	Rep1	Rep2	Selection	2011 Source	
					Nursery	GEN
LCS EU Y3-1 (FrV)	1	2501	2561	Stephens	J-B Y3N	check
LCS EU Y3-1 (FrV)	2	2502	2552	Skiles	J-B Y3N	check
LCS EU Y3-1 (FrV)	3	2503	2560	Azimet	J-B Y3N	check
LCS EU Y3-1 (FrV)	4	2504	2553	Norwest 553	J-B Y3N	check
LCS EU Y3-1 (FrV)	5	2505	2544	NSA 2153A	J-B Y3N	check
LCS EU Y3-1 (FrV)	6	2506	2567	NSA09-5211	J-B Y3N	90
LCS EU Y3-1 (FrV)	7	2507	2549	NSA10-8409	J-B Y3N	1016
LCS EU Y3-1 (FrV)	8	2508	2539	NSA10-7471	J-B Y3N	1017
LCS EU Y3-1 (FrV)	9	2509	2537	NSA10-7015	J-B Y3N	1018
LCS EU Y3-1 (FrV)	10	2510	2569	NSA10-7379	J-B Y3N	1020
LCS EU Y3-1 (FrV)	11	2511	2538	NSA10-4621	J-B Y3N	1023
LCS EU Y3-1 (FrV)	12	2512	2554	NSA10-4891	J-B Y3N	1031
LCS EU Y3-1 (FrV)	13	2513	2562	NSA10-4708-A	J-B Y3N	1036
LCS EU Y3-1 (FrV)	14	2514	2547	NSA10-4709	J-B Y3N	1037
LCS EU Y3-1 (FrV)	15	2515	2545	NSA10-8546	J-B Y3N	1039
LCS EU Y3-1 (FrV)	16	2516	2555	NSA10-4074	J-B Y3N	1041
LCS EU Y3-1 (FrV)	17	2517	2565	NSA10-7023	J-B Y3N	1066
LCS EU Y3-1 (FrV)	18	2518	2536	NSA10-8124	J-B Y3N	1215
LCS EU Y3-1 (FrV)	19	2519	2570	NSA10-8111	J-B Y3N	1244
LCS EU Y3-1 (FrV)	20	2520	2566	NSA10-4526	J-B Y3N	1251
LCS EU Y3-1 (FrV)	21	2521	2541	NSA10-4228	J-B Y3N	1261
LCS EU Y3-1 (FrV)	22	2522	2551	NSA10-4072	J-B Y3N	1262
LCS EU Y3-1 (FrV)	23	2523	2558	NSA10-4710	J-B Y3N	1263
LCS EU Y3-1 (FrV)	24	2524	2550	NSA10-5113	J-B Y3N	1267
LCS EU Y3-1 (FrV)	25	2525	2563	NSA10-8544	J-B Y3N	1268
LCS EU Y3-1 (FrV)	26	2526	2546	NSA10-8223	J-B Y3N	1270
LCS EU Y3-1 (FrV)	27	2527	2548	NSA10-5110-B	J-B Y3N	1314
LCS EU Y3-1 (FrV)	28	2528	2568	NSA10-7208	J-B Y3N	1317
LCS EU Y3-1 (FrV)	29	2529	2542	NSA10-4044	J-B Y3N	1341
LCS EU Y3-1 (FrV)	30	2530	2557	NSA10-8259	J-B Y3N	1353
LCS EU Y3-1 (FrV)	31	2531	2564	NSA10-8494	J-B Y3N	1354
LCS EU Y3-1 (FrV)	32	2532	2556	NSA10-7473	J-B Y3N	1363
LCS EU Y3-1 (FrV)	33	2533	2543	NSA10-7090	J-B Y3N	1365
LCS EU Y3-1 (FrV)	34	2534	2559	NSA10-7434	J-B Y3N	1369
LCS EU Y3-1 (FrV)	35	2535	2540	NSA10-7116	J-B Y3N	1382

## LCS EU Y3-2 (Cz)

Nursery	Entry	Rep1	Rep2	2011 Source		
				Selection	Nursery	Stage
LCS EU Y3-2 (Cz)	1	2601	2637	Stephens	Check	Check
LCS EU Y3-2 (Cz)	2	2602	2658	Skiles	Check	Check
LCS EU Y3-2 (Cz)	3	2603	2638	Azimut	Check	Check
LCS EU Y3-2 (Cz)	4	2604	2649	Norwest 553	Check	Check
LCS EU Y3-2 (Cz)	5	2605	2665	NSA 2153A	Check	Check
LCS EU Y3-2 (Cz)	6	2606	2666	Brundage 96	Check	Check
LCS EU Y3-2 (Cz)	7	2607	2652	F04098/1.44	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	8	2608	2656	D04352/1.48	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	9	2609	2636	D04375/1.37	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	10	2610	2642	D04500/1.64	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	11	2611	2662	W03055/70-11	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	12	2612	2663	D03148/50-26	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	13	2613	2667	HEUK5646/1-3.46	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	14	2614	2647	HE9583/35.1	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	15	2615	2650	HE9586/71.2	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	16	2616	2659	HE9625/30.3	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	17	2617	2640	HE9710/46.3	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	18	2618	2644	HE9722/18.2	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	19	2619	2643	HE9760/47.1	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	20	2620	2668	HE9817/1.2	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	21	2621	2664	HE9819/26.1	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	22	2622	2648	HE9819/26.3	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	23	2623	2651	HE9840/37.1	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	24	2624	2653	HE9841/51.1	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	25	2625	2657	HE9871/17.1	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	26	2626	2654	HE116-B	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	27	2627	2670	HE243-B	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	28	2628	2645	HE366-A	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	29	2629	2660	HE380-B	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	30	2630	2661	HE549	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	31	2631	2646	HE03308/1.16-2.5	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	32	2632	2655	B00071-0320-3.13	Czech	Prelim Obs T
LCS EU Y3-2 (Cz)	33	2633	2639	HE 00070	Czech	Obs 2
LCS EU Y3-2 (Cz)	34	2634	2669	HE 98066	Czech	Obs 2
LCS EU Y3-2 (Cz)	35	2635	2641	HE 8352	Czech	Obs 2

					2011 Source	
Nursery	Entry	Rep1	Rep2	Selection	Nursery	Stage 2012
LCS EU Y3-3 (FrC)	1	2701	2808	Skiles	Check	Check
LCS EU Y3-3 (FrC)	2	2702	2766	Azimut	Check	Check
LCS EU Y3-3 (FrC)	3	2703	2763	Norwest 553	Check	Check
LCS EU Y3-3 (FrC)	4	2704	2759	NSA 2153A	Check	Check
LCS EU Y3-3 (FrC)	5	2705	2810	NSA09-0045	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	6	2706	2782	NSA09-0165A	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	7	2707	2788	NSA09-0545	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	8	2708	2792	NSA09-0552	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	9	2709	2764	NSA09-0729	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	10	2710	2760	NSA09-0734	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	11	2711	2771	NSA09-0738	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	12	2712	2799	NSA09-0922	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	13	2713	2796	NSA10-0105	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	14	2714	2785	NSA10-0256	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	15	2715	2762	NSA10-0262	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	16	2716	2804	NSA10-0336	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	17	2717	2790	NSA10-0507	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	18	2718	2793	NSA10-0510	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	19	2719	2784	NSA10-0511	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	20	2720	2775	NSA10-0577	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	21	2721	2797	NSA10-0611	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	22	2722	2798	NSA10-0678	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	23	2723	2767	NSA10-2816	JAYNE CVIL	Y3N
LCS EU Y3-3 (FrC)	24	2724	2769	NSA09-0398	JAYNE CVIL	Y3N+S
LCS EU Y3-3 (FrC)	25	2725	2756	NSA09-0874	JAYNE CVIL	Y3N+S
LCS EU Y3-3 (FrC)	26	2726	2791	NSA10-0121	JAYNE CVIL	Y3N+S
LCS EU Y3-3 (FrC)	27	2727	2801	SA10-0639 (pas xin	JAYNE CVIL	Y3N+S
LCS EU Y3-3 (FrC)	28	2728	2779	NSA10-2192	JAYNE CVIL	Y3N+S
LCS EU Y3-3 (FrC)	29	2729	2783	NSA10-2530	JAYNE CVIL	Y3N+S
LCS EU Y3-3 (FrC)	30	2730	2806	NSA10-2605	JAYNE CVIL	Y3N+S
LCS EU Y3-3 (FrC)	31	2731	2789	NSA09-0805	JAYNE CVIL	Y3N+S+ESP
LCS EU Y3-3 (FrC)	32	2732	2805	NSA10-0739	JAYNE CVIL	Y3N+S+ESP
LCS EU Y3-3 (FrC)	33	2733	2772	NSA10-0740	JAYNE CVIL	Y3N+S+ESP
LCS EU Y3-3 (FrC)	34	2734	2776	NSA10-2190	JAYNE CVIL	Y3N+S+ESP
LCS EU Y3-3 (FrC)	35	2735	2781	NSA10-2196	JAYNE CVIL	Y3N+S+ESP
LCS EU Y3-3 (FrC)	36	2736	2765	NSA10-2298	JAYNE CVIL	Y3N+S+ESP
LCS EU Y3-3 (FrC)	37	2737	2778	NSA09-0386	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	38	2738	2780	NSA09-0796	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	39	2739	2777	NSA10-0075	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	40	2740	2794	NSA10-0108	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	41	2741	2809	NSA10-0109	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	42	2742	2802	NSA10-0135	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	43	2743	2761	NSA10-0798	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	44	2744	2786	NSA10-2141	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	45	2745	2787	NSA10-2154	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	46	2746	2773	NSA10-2216	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	47	2747	2768	W3343-05043-0601	JAYNE CVIL	Y3S
LCS EU Y3-3 (FrC)	48	2748	2803	NSA09-0111	JAYNE CVIL	Y3S+ESP
LCS EU Y3-3 (FrC)	49	2749	2758	NSA09-0603	JAYNE CVIL	Y3S+ESP
LCS EU Y3-3 (FrC)	50	2750	2800	NSA10-2010	JAYNE CVIL	Y3S+ESP
LCS EU Y3-3 (FrC)	51	2751	2770	NSA10-2160	JAYNE CVIL	Y3S+ESP
LCS EU Y3-3 (FrC)	52	2752	2774	NSA10-2169	JAYNE CVIL	Y3S+ESP
LCS EU Y3-3 (FrC)	53	2753	2757	NSA10-2297	JAYNE CVIL	Y3S+ESP
LCS EU Y3-3 (FrC)	54	2754	2795	NHY10-0015-01	JAYNE CVIL	HYBRID
LCS EU Y3-3 (FrC)	55	2755	2807	NHY10-0015-02	JAYNE CVIL	HYBRID

## LCS EU Y3-4 (Gr)

					2011 Source
Nursery	Entry	Rep1	Rep2	Selection	Nursery
LCS EU Y3-4 (Gr)	1	2901	2939	Stephens	Check
LCS EU Y3-4 (Gr)	2	2902	2927	Skiles	Check
LCS EU Y3-4 (Gr)	3	2903	2943	Azimut	Check
LCS EU Y3-4 (Gr)	4	2904	2928	Norwest 553	Check
LCS EU Y3-4 (Gr)	5	2905	2935	NSA 2153A	Check
LCS EU Y3-4 (Gr)	6	2906	2947	NIC04-3377-A	Deutschland
LCS EU Y3-4 (Gr)	7	2907	2944	NIC08-6537-A	Deutschland
LCS EU Y3-4 (Gr)	8	2908	2940	NIC08-6539-A	Deutschland
LCS EU Y3-4 (Gr)	9	2909	2926	NIC09-6840-SB	Deutschland
LCS EU Y3-4 (Gr)	10	2910	2950	NIC08-4039-A	Deutschland
LCS EU Y3-4 (Gr)	11	2911	2948	NIC05-4897-A	Deutschland
LCS EU Y3-4 (Gr)	12	2912	2931	NIC08-4107-SB	Deutschland
LCS EU Y3-4 (Gr)	13	2913	2945	NIC08-4108-SB	Deutschland
LCS EU Y3-4 (Gr)	14	2914	2934	NIC09-6276-B	Deutschland
LCS EU Y3-4 (Gr)	15	2915	2946	NIC08-3622-A	Deutschland
LCS EU Y3-4 (Gr)	16	2916	2936	NIC09-3872-A	Deutschland
LCS EU Y3-4 (Gr)	17	2917	2932	NIC09-3872-B	Deutschland
LCS EU Y3-4 (Gr)	18	2918	2937	NIC09-3873-B	Deutschland
LCS EU Y3-4 (Gr)	19	2919	2941	NIC09-3906-A	Deutschland
LCS EU Y3-4 (Gr)	20	2920	2949	NIC09-6969-SA	Deutschland
LCS EU Y3-4 (Gr)	21	2921	2942	NIC09-6969-SB	Deutschland
LCS EU Y3-4 (Gr)	22	2922	2930	NIC09-6912-SB	Deutschland
LCS EU Y3-4 (Gr)	23	2923	2933	HE 00070	Czech
LCS EU Y3-4 (Gr)	24	2924	2929	HE 98066	Czech
LCS EU Y3-4 (Gr)	25	2925	2938	HE 8352	Czech



				2011 Source	
Nursery	Entry	Rep1	Selection	Nursery	
LCS Spain PYT	1	3001	Stephens	check	check
LCS Spain PYT	2	3002	BERDUN	Spain Varities	winter
LCS Spain PYT	3	3003	CRAKLIN	Spain Varities	winter
LCS Spain PYT	4	3004	ANDELOS	Spain Varities	winter
LCS Spain PYT	5	3005	CAMPEADOR	Spain Varities	winter
LCS Spain PYT	6	3006	BOTTICELLI	Spain Varities	winter
LCS Spain PYT	7	3007	ANDINO	Spain Varities	winter
LCS Spain PYT	8	3008	CHAMBO	Spain Varities	winter
LCS Spain PYT	9	3009	CCINGENIO	Spain Varities	winter
LCS Spain PYT	10	3010	PALEDOR	Spain Varities	winter
LCS Spain PYT	11	3011	NOGAL	Spain Varities	winter
LCS Spain PYT	12	3012	CEZANNE	Spain Varities	winter
LCS Spain PYT	13	3013	AGUILA	Spain Varities	winter
LCS Spain PYT	14	3014	BANDERA	Spain Varities	winter
LCS Spain PYT	15	3015	CAMARGO	Spain Varities	winter
LCS Spain PYT	16	3016	AREZZO	Spain Varities	winter
LCS Spain PYT	17	3017	<b>10-SI-0691</b>	Spain Y2	winter
LCS Spain PYT	18	3018	<b>10-SI-0697</b>	Spain Y2	winter
LCS Spain PYT	19	3019	<b>10-SI-0701</b>	Spain Y2	winter
LCS Spain PYT	20	3020	<b>10-SI-0709</b>	Spain Y2	winter
LCS Spain PYT	21	3021	<b>10-SI-0710</b>	Spain Y2	winter
LCS Spain PYT	22	3022	<b>10-SI-0711</b>	Spain Y2	winter
LCS Spain PYT	23	3023	<b>10-SI-0712</b>	Spain Y2	winter
LCS Spain PYT	24	3024	<b>10-SI-0713</b>	Spain Y2	winter
LCS Spain PYT	25	3025	Skiles	check	check
LCS Spain PYT	26	3026	<b>10-SI-0629</b>	Spain Y2	winter
LCS Spain PYT	27	3027	<b>10-SI-0630</b>	Spain Y2	winter
LCS Spain PYT	28	3028	<b>10-SI-0631</b>	Spain Y2	winter
LCS Spain PYT	29	3029	<b>10-SI-0640</b>	Spain Y2	winter
LCS Spain PYT	30	3030	<b>10-SI-0620</b>	Spain Y2	winter
LCS Spain PYT	31	3031	<b>10-SI-0621</b>	Spain Y2	winter
LCS Spain PYT	32	3032	<b>10-SI-0686</b>	Spain Y2	winter
LCS Spain PYT	33	3033	<b>10-SI-0687</b>	Spain Y2	winter
LCS Spain PYT	34	3034	<b>10-SI-0664</b>	Spain Y2	winter
LCS Spain PYT	35	3035	<b>10-SI-0666</b>	Spain Y2	winter
LCS Spain PYT	36	3036	<b>10-SI-0669</b>	Spain Y2	winter
LCS Spain PYT	37	3037	<b>10-SI-0670</b>	Spain Y2	winter
LCS Spain PYT	38	3038	<b>10-SI-0673</b>	Spain Y2	winter
LCS Spain PYT	39	3039	<b>10-SI-0676</b>	Spain Y2	winter
LCS Spain PYT	40	3040	<b>10-SI-0678</b>	Spain Y2	winter
LCS Spain PYT	41	3041	<b>10-SI-0656</b>	Spain Y2	winter
LCS Spain PYT	42	3042	<b>10-SI-0661</b>	Spain Y2	winter
LCS Spain PYT	43	3043	<b>10-SI-0662</b>	Spain Y2	winter
LCS Spain PYT	44	3044	<b>10-SI-0230</b>	Spain Y2	winter
LCS Spain PYT	45	3045	<b>10-SI-0231</b>	Spain Y2	winter
LCS Spain PYT	46	3046	<b>10-SI-0222</b>	Spain Y2	winter

				2011 Source	
Nursery	Entry	Rep1	Selection	Nursery	
LCS Spain PYT	47	3047	<b>10-SI-0256</b>	Spain Y2	winter
LCS Spain PYT	48	3048	<b>10-SI-0258</b>	Spain Y2	winter
LCS Spain PYT	49	3049	<b>10-SI-0259</b>	Spain Y2	winter
LCS Spain PYT	50	3050	Azimut	check	check
LCS Spain PYT	51	3051	<b>10-SI-0260</b>	Spain Y2	winter
LCS Spain PYT	52	3052	<b>10-SI-0247</b>	Spain Y2	winter
LCS Spain PYT	53	3053	<b>10-SI-0248</b>	Spain Y2	winter
LCS Spain PYT	54	3054	<b>10-SI-0366</b>	Spain Y2	winter
LCS Spain PYT	55	3055	<b>10-SI-0370</b>	Spain Y2	winter
LCS Spain PYT	56	3056	<b>10-SI-0371</b>	Spain Y2	winter
LCS Spain PYT	57	3057	<b>10-SI-0427</b>	Spain Y2	winter
LCS Spain PYT	58	3058	<b>10-SI-0428</b>	Spain Y2	winter
LCS Spain PYT	59	3059	<b>10-SI-0430</b>	Spain Y2	winter
LCS Spain PYT	60	3060	<b>10-SI-0447</b>	Spain Y2	winter
LCS Spain PYT	61	3061	<b>10-SI-0549</b>	Spain Y2	winter
LCS Spain PYT	62	3062	<b>10-SI-0538</b>	Spain Y2	winter
LCS Spain PYT	63	3063	<b>10-SI-0542</b>	Spain Y2	winter
LCS Spain PYT	64	3064	<b>10-SI-0550</b>	Spain Y2	winter
LCS Spain PYT	65	3065	<b>10-SI-0551</b>	Spain Y2	winter
LCS Spain PYT	66	3066	<b>10-SI-0557</b>	Spain Y2	winter
LCS Spain PYT	67	3067	<b>10-SI-0559</b>	Spain Y2	winter
LCS Spain PYT	68	3068	<b>10-SI-0560</b>	Spain Y2	winter
LCS Spain PYT	69	3069	<b>10-SI-0506</b>	Spain Y2	winter
LCS Spain PYT	70	3070	<b>10-SI-0507</b>	Spain Y2	winter
LCS Spain PYT	71	3071	<b>10-SI-0468</b>	Spain Y2	winter
LCS Spain PYT	72	3072	<b>10-SI-0469</b>	Spain Y2	winter
LCS Spain PYT	73	3073	<b>10-SI-0470</b>	Spain Y2	winter
LCS Spain PYT	74	3074	<b>10-SI-0471</b>	Spain Y2	winter
LCS Spain PYT	75	3075	Norwest 553	check	check
LCS Spain PYT	76	3076	<b>10-SI-0472</b>	Spain Y2	winter
LCS Spain PYT	77	3077	<b>10-SI-0473</b>	Spain Y2	winter
LCS Spain PYT	78	3078	<b>10-SI-0474</b>	Spain Y2	winter
LCS Spain PYT	79	3079	<b>10-SI-0476</b>	Spain Y2	winter
LCS Spain PYT	80	3080	<b>10-SI-0485</b>	Spain Y2	winter
LCS Spain PYT	81	3081	<b>10-SI-0489</b>	Spain Y2	winter
LCS Spain PYT	82	3082	<b>10-SI-0494</b>	Spain Y2	winter
LCS Spain PYT	83	3083	<b>10-SI-0451</b>	Spain Y2	winter
LCS Spain PYT	84	3084	<b>10-SI-0452</b>	Spain Y2	winter
LCS Spain PYT	85	3085	<b>10-SI-0453</b>	Spain Y2	winter
LCS Spain PYT	86	3086	<b>10-SI-0454</b>	Spain Y2	winter
LCS Spain PYT	87	3087	<b>10-SI-0457</b>	Spain Y2	winter
LCS Spain PYT	88	3088	<b>10-SI-0460</b>	Spain Y2	winter
LCS Spain PYT	89	3089	<b>10-SI-0461</b>	Spain Y2	winter
LCS Spain PYT	90	3090	<b>10-SI-0464</b>	Spain Y2	winter
LCS Spain PYT	91	3091	<b>10-SI-0465</b>	Spain Y2	winter
LCS Spain PYT	92	3092	<b>10-SI-0466</b>	Spain Y2	winter

				2011 Source	
Nursery	Entry	Rep1	Selection	Nursery	
LCS Spain PYT	93	3093	<b>10-SI-0123</b>	Spain Y2	winter
LCS Spain PYT	94	3094	<b>10-SI-0561</b>	Spain Y2	winter
LCS Spain PYT	95	3095	<b>10-SI-0562</b>	Spain Y2	winter
LCS Spain PYT	96	3096	<b>10-SI-0563</b>	Spain Y2	winter
LCS Spain PYT	97	3097	<b>10-SI-0564</b>	Spain Y2	winter
LCS Spain PYT	98	3098	<b>10-SI-0566</b>	Spain Y2	winter
LCS Spain PYT	99	3099	<b>10-SI-0522</b>	Spain Y2	winter
LCS Spain PYT	100	3100	NSA 2153A	check	check
LCS Spain PYT	101	3101	<b>10-SI-0593</b>	Spain Y2	winter
LCS Spain PYT	102	3102	<b>10-SI-0597</b>	Spain Y2	winter
LCS Spain PYT	103	3103	<b>10-SI-0600</b>	Spain Y2	winter
LCS Spain PYT	104	3104	<b>10-SI-0354</b>	Spain Y2	winter
LCS Spain PYT	105	3105	<b>10-SI-0344</b>	Spain Y2	winter
LCS Spain PYT	106	3106	<b>10-SI-0345</b>	Spain Y2	winter
LCS Spain PYT	107	3107	<b>10-SI-0349</b>	Spain Y2	winter
LCS Spain PYT	108	3108	<b>10-SI-0342</b>	Spain Y2	winter
LCS Spain PYT	109	3109	<b>10-SI-0418</b>	Spain Y2	winter
LCS Spain PYT	110	3110	<b>10-SI-0411</b>	Spain Y2	winter
LCS Spain PYT	111	3111	<b>10-SI-0379</b>	Spain Y2	winter
LCS Spain PYT	112	3112	<b>10-SI-0378</b>	Spain Y2	winter
LCS Spain PYT	113	3113	<b>10-SI-0090</b>	Spain Y2	winter
LCS Spain PYT	114	3114	<b>10-SI-0092</b>	Spain Y2	winter
LCS Spain PYT	115	3115	<b>10-SI-0093</b>	Spain Y2	winter
LCS Spain PYT	116	3116	<b>10-SI-0085</b>	Spain Y2	winter
LCS Spain PYT	117	3117	<b>10-SI-0071</b>	Spain Y2	winter
LCS Spain PYT	118	3118	<b>10-SI-0083</b>	Spain Y2	winter
LCS Spain PYT	119	3119	<b>10-SI-0031</b>	Spain Y2	winter
LCS Spain PYT	120	3120	<b>10-SI-0032</b>	Spain Y2	winter
LCS Spain PYT	121	3121	<b>10-SI-0036</b>	Spain Y2	winter
LCS Spain PYT	122	3122	<b>10-SI-0041</b>	Spain Y2	winter
LCS Spain PYT	123	3123	<b>10-SI-0042</b>	Spain Y2	winter
LCS Spain PYT	124	3124	<b>10-SI-0043</b>	Spain Y2	winter
LCS Spain PYT	125	3125	Brundage 96	check	check
LCS Spain PYT	126	3126	<b>10-SI-0044</b>	Spain Y2	winter
LCS Spain PYT	127	3127	<b>10-SI-0045</b>	Spain Y2	winter
LCS Spain PYT	128	3128	<b>10-SI-0046</b>	Spain Y2	winter
LCS Spain PYT	129	3129	<b>10-SI-0047</b>	Spain Y2	winter
LCS Spain PYT	130	3130	<b>10-SI-0048</b>	Spain Y2	winter
LCS Spain PYT	131	3131	<b>10-SI-0050</b>	Spain Y2	winter
LCS Spain PYT	132	3132	<b>10-SI-0053</b>	Spain Y2	winter
LCS Spain PYT	133	3133	<b>10-SI-0056</b>	Spain Y2	winter
LCS Spain PYT	134	3134	<b>10-SI-0063</b>	Spain Y2	winter
LCS Spain PYT	135	3135	<b>10-SI-0064</b>	Spain Y2	winter
LCS Spain PYT	136	3136	<b>10-SI-0068</b>	Spain Y2	winter
LCS Spain PYT	137	3137	<b>10-SI-0013</b>	Spain Y2	winter
LCS Spain PYT	138	3138	<b>10-SI-0014</b>	Spain Y2	winter

				2011 Source	
Nursery	Entry	Rep1	Selection	Nursery	
LCS Spain PYT	139	3139	<b>10-SI-0015</b>	Spain Y2	winter
LCS Spain PYT	140	3140	<b>10-SI-0026</b>	Spain Y2	winter
LCS Spain PYT	141	3141	<b>10-SI-0027</b>	Spain Y2	winter
LCS Spain PYT	142	3142	<b>10-SI-0029</b>	Spain Y2	winter
LCS Spain PYT	143	3143	<b>10-SI-0018</b>	Spain Y2	winter
LCS Spain PYT	144	3144	<b>10-SI-0019</b>	Spain Y2	winter
LCS Spain PYT	145	3145	<b>10-SI-0020</b>	Spain Y2	winter
LCS Spain PYT	146	3146	<b>10-SI-0021</b>	Spain Y2	winter
LCS Spain PYT	147	3147	<b>10-SI-0022</b>	Spain Y2	winter
LCS Spain PYT	148	3148	<b>10-SI-0002</b>	Spain Y2	winter
LCS Spain PYT	149	3149	<b>10-SI-0006</b>	Spain Y2	winter
LCS Spain PYT	150	3150	Skiles	check	check
LCS Spain PYT	151	3151	<b>10-SI-0007</b>	Spain Y2	winter
LCS Spain PYT	152	3152	<b>10-SI-0008</b>	Spain Y2	winter
LCS Spain PYT	153	3153	<b>10-SI-0009</b>	Spain Y2	winter
LCS Spain PYT	154	3154	<b>10-SI-0010</b>	Spain Y2	winter
LCS Spain PYT	155	3155	<b>10-SI-0196</b>	Spain Y2	winter
LCS Spain PYT	156	3156	<b>10-SI-0203</b>	Spain Y2	winter
LCS Spain PYT	157	3157	<b>10-SI-0209</b>	Spain Y2	winter
LCS Spain PYT	158	3158	<b>10-SI-0324</b>	Spain Y2	winter
LCS Spain PYT	159	3159	<b>10-SI-0327</b>	Spain Y2	winter
LCS Spain PYT	160	3160	<b>10-SI-0292</b>	Spain Y2	winter
LCS Spain PYT	161	3161	<b>10-SI-0295</b>	Spain Y2	winter
LCS Spain PYT	162	3162	<b>10-SI-0339</b>	Spain Y2	winter
LCS Spain PYT	163	3163	<b>10-SI-0269</b>	Spain Y2	winter
LCS Spain PYT	164	3164	<b>10-SI-0271</b>	Spain Y2	winter
LCS Spain PYT	165	3165	<b>10-SI-0141</b>	Spain Y2	winter
LCS Spain PYT	166	3166	<b>10-SI-0142</b>	Spain Y2	winter
LCS Spain PYT	167	3167	<b>10-SI-0143</b>	Spain Y2	winter
LCS Spain PYT	168	3168	<b>10-SI-0145</b>	Spain Y2	winter
LCS Spain PYT	169	3169	<b>10-SI-0155</b>	Spain Y2	winter
LCS Spain PYT	170	3170	<b>10-SI-0163</b>	Spain Y2	winter
LCS Spain PYT	171	3171	<b>10-SI-0189</b>	Spain Y2	winter
LCS Spain PYT	172	3172	<b>10-SI-0128</b>	Spain Y2	winter
LCS Spain PYT	173	3173	<b>10-SI-0130</b>	Spain Y2	winter
LCS Spain PYT	174	3174	<b>10-SI-0131</b>	Spain Y2	winter
LCS Spain PYT	175	3175	<b>10-SI-0132</b>	Spain Y2	winter
LCS Spain PYT	176	3176	<b>10-SI-0133</b>	Spain Y2	winter
LCS Spain PYT	177	3177	<b>10-SI-0136</b>	Spain Y2	winter
LCS Spain PYT	178	3178	<b>10-SI-0137</b>	Spain Y2	winter
LCS Spain PYT	179	3179	<b>10-SI-0138</b>	Spain Y2	winter
LCS Spain PYT	180	3180	Norwest 553	check	check

					2011 Source	
Nursery	Entry	Rep1	Rep2	Selection	Nursery	origin
LCS EU Y3-5 (Blgm)	1	3201	3304	Stephens	check	check
LCS EU Y3-5 (Blgm)	2	3202	3258	Skiles	check	check
LCS EU Y3-5 (Blgm)	3	3203	3294	Azimut	check	check
LCS EU Y3-5 (Blgm)	4	3204	3256	Norwest 553	check	check
LCS EU Y3-5 (Blgm)	5	3205	3299	NSA 2153A	check	check
LCS EU Y3-5 (Blgm)	6	3206	3289	Brundage 96	check	check
LCS EU Y3-5 (Blgm)	7	3207	3285	Altigo	check	check
LCS EU Y3-5 (Blgm)	8	3208	3300	ORPHEUS	Belgium	E1 '10
LCS EU Y3-5 (Blgm)	9	3209	3281	CM 6325	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	10	3210	3260	SALOMO	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	11	3211	3269	MOZES	Belgium	E1 '11
LCS EU Y3-5 (Blgm)	12	3212	3275	SPIRIT	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	13	3213	3290	UNICUM	Belgium	KVP '10
LCS EU Y3-5 (Blgm)	14	3214	3266	CM 2813	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	15	3215	3288	CM 7206	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	16	3216	3303	CM 8201	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	17	3217	3259	CM 13222	Belgium	KVP '11mp
LCS EU Y3-5 (Blgm)	18	3218	3270	CM 13509	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	19	3219	3286	CM 2212	Belgium	E0 '11
LCS EU Y3-5 (Blgm)	20	3220	3280	CM 2807	Belgium	E0 '11
LCS EU Y3-5 (Blgm)	21	3221	3263	CM 3553	Belgium	E0 '11
LCS EU Y3-5 (Blgm)	22	3222	3306	CM 2515	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	23	3223	3279	CM 3201	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	24	3224	3282	CM 8007	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	25	3225	3264	CM 8302	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	26	3226	3302	CM 8408	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	27	3227	3276	CM 8501	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	28	3228	3293	CM 8633	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	29	3229	3274	CM 9013	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	30	3230	3291	CM 9016	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	31	3231	3272	10409124A	Belgium	CMY201/TITI-1204
LCS EU Y3-5 (Blgm)	32	3232	3309	10409124B	Belgium	CMY201/TITI-1205
LCS EU Y3-5 (Blgm)	33	3233	3295	CM 10809	Belgium	KVP '11
LCS EU Y3-5 (Blgm)	34	3234	3265	HOMEROS	Belgium	E3 '10
LCS EU Y3-5 (Blgm)	35	3235	3268	ELIPSA	Belgium	E1 '09
LCS EU Y3-5 (Blgm)	36	3236	3267	AZZERTI	Belgium	KVP '10
LCS EU Y3-5 (Blgm)	37	3237	3296	CM 10501004	Belgium	CMY201/TITI-1208
LCS EU Y3-5 (Blgm)	38	3238	3257	CM 10501301	Belgium	CMY201/TITI-1211
LCS EU Y3-5 (Blgm)	39	3239	3277	CM10501313	Belgium	CMY201/TITI-1213
LCS EU Y3-5 (Blgm)	40	3240	3283	CM10504309	Belgium	CMY201/TITI-1233
LCS EU Y3-5 (Blgm)	41	3241	3310	CM10504314	Belgium	CMY201/TITI-1234
LCS EU Y3-5 (Blgm)	42	3242	3305	CM10504405	Belgium	CMY201/TITI-1236
LCS EU Y3-5 (Blgm)	43	3243	3261	CM1050696A	Belgium	CMY202/TITI-1309
LCS EU Y3-5 (Blgm)	44	3244	3278	CM10507041	Belgium	CMY202/TITI-1313
LCS EU Y3-5 (Blgm)	45	3245	3271	CM10508506	Belgium	CMY202/TITI-1321
LCS EU Y3-5 (Blgm)	46	3246	3262	CM10508608	Belgium	CMY202/TITI-1325
LCS EU Y3-5 (Blgm)	47	3247	3284	CM10508609A	Belgium	CMY202/TITI-1326
LCS EU Y3-5 (Blgm)	48	3248	3308	CM10508609B	Belgium	CMY202/TITI-1327
LCS EU Y3-5 (Blgm)	49	3249	3273	CM10508611	Belgium	CMY202/TITI-1328
LCS EU Y3-5 (Blgm)	50	3250	3287	CM10508613C	Belgium	CMY202/TITI-1330
LCS EU Y3-5 (Blgm)	51	3251	3307	CM10508640	Belgium	CMY202/TITI-1333
LCS EU Y3-5 (Blgm)	52	3252	3297	CM10509510	Belgium	CMY203/TITI-1413
LCS EU Y3-5 (Blgm)	53	3253	3292	CM10509514	Belgium	CMY203/TITI-1414
LCS EU Y3-5 (Blgm)	54	3254	3298	CM10511302	Belgium	CMY203/TITI-1420
LCS EU Y3-5 (Blgm)	55	3255	3301	CM10515009	Belgium	CMY203/TITI-1428

Trial	Name	Entry	Selection	Rep1	Rep2	
LCS EU Y3-6 (UK)	UK Y3	1	Norwest 553	4001	4200	Check
LCS EU Y3-6 (UK)	UK Y3	2	LWW12-7001	4002	4206	
LCS EU Y3-6 (UK)	UK Y3	3	LWW12-7002	4003	4133	
LCS EU Y3-6 (UK)	UK Y3	4	LWW12-7003	4004	4140	
LCS EU Y3-6 (UK)	UK Y3	5	LWW12-7004	4005	4178	
LCS EU Y3-6 (UK)	UK Y3	6	LWW12-7006	4006	4166	
LCS EU Y3-6 (UK)	UK Y3	7	LWW12-7011	4007	4244	
LCS EU Y3-6 (UK)	UK Y3	8	LWW12-7012	4008	4142	
LCS EU Y3-6 (UK)	UK Y3	9	LWW12-7013	4009	4250	
LCS EU Y3-6 (UK)	UK Y3	10	LWW12-7014	4010	4211	
LCS EU Y3-6 (UK)	UK Y3	11	LWW12-7015	4011	4131	
LCS EU Y3-6 (UK)	UK Y3	12	LWW12-7017	4012	4174	
LCS EU Y3-6 (UK)	UK Y3	13	LWW12-7018	4013	4187	
LCS EU Y3-6 (UK)	UK Y3	14	LWW12-7019	4014	4241	
LCS EU Y3-6 (UK)	UK Y3	15	LWW12-7020	4015	4158	
LCS EU Y3-6 (UK)	UK Y3	16	LWW12-7021	4016	4191	
LCS EU Y3-6 (UK)	UK Y3	17	LWW12-7022	4017	4149	
LCS EU Y3-6 (UK)	UK Y3	18	LWW12-7024	4018	4204	
LCS EU Y3-6 (UK)	UK Y3	19	LWW12-7025	4019	4249	
LCS EU Y3-6 (UK)	UK Y3	20	LWW12-7026	4020	4242	
LCS EU Y3-6 (UK)	UK Y3	21	LWW12-7027	4021	4155	
LCS EU Y3-6 (UK)	UK Y3	22	LWW12-7028	4022	4127	
LCS EU Y3-6 (UK)	UK Y3	23	LWW12-7029	4023	4245	
LCS EU Y3-6 (UK)	UK Y3	24	LWW12-7034	4024	4229	
LCS EU Y3-6 (UK)	UK Y3	25	Stephens	4025	4197	Check
LCS EU Y3-6 (UK)	UK Y3	26	LWW12-7037	4026	4223	
LCS EU Y3-6 (UK)	UK Y3	27	LWW12-7038	4027	4181	
LCS EU Y3-6 (UK)	UK Y3	28	LWW12-7039	4028	4147	
LCS EU Y3-6 (UK)	UK Y3	29	LWW12-7040	4029	4182	
LCS EU Y3-6 (UK)	UK Y3	30	LWW12-7041	4030	4188	
LCS EU Y3-6 (UK)	UK Y3	31	LWW12-7042	4031	4173	
LCS EU Y3-6 (UK)	UK Y3	32	LWW12-7043	4032	4202	
LCS EU Y3-6 (UK)	UK Y3	33	LWW12-7044	4033	4221	
LCS EU Y3-6 (UK)	UK Y3	34	LWW12-7045	4034	4225	
LCS EU Y3-6 (UK)	UK Y3	35	LWW12-7046	4035	4152	
LCS EU Y3-6 (UK)	UK Y3	36	LWW12-7047	4036	4175	
LCS EU Y3-6 (UK)	UK Y3	37	LWW12-7048	4037	4231	
LCS EU Y3-6 (UK)	UK Y3	38	LWW12-7049	4038	4207	
LCS EU Y3-6 (UK)	UK Y3	39	LWW12-7050	4039	4193	
LCS EU Y3-6 (UK)	UK Y3	40	LWW12-7051	4040	4145	
LCS EU Y3-6 (UK)	UK Y3	41	LWW12-7052	4041	4238	
LCS EU Y3-6 (UK)	UK Y3	42	LWW12-7053	4042	4198	
LCS EU Y3-6 (UK)	UK Y3	43	LWW12-7054	4043	4224	

LCS EU Y3-6 (UK)	UK Y3	44	LWW12-7055	4044	4203	
LCS EU Y3-6 (UK)	UK Y3	45	LWW12-7056	4045	4184	
LCS EU Y3-6 (UK)	UK Y3	46	LWW12-7057	4046	4148	
LCS EU Y3-6 (UK)	UK Y3	47	LWW12-7058	4047	4137	
LCS EU Y3-6 (UK)	UK Y3	48	LWW12-7059	4048	4136	
LCS EU Y3-6 (UK)	UK Y3	49	LWW12-7060	4049	4134	
LCS EU Y3-6 (UK)	UK Y3	50	Norwest 553	4050	4159	Check
LCS EU Y3-6 (UK)	UK Y3	51	LWW12-7061	4051	4226	
LCS EU Y3-6 (UK)	UK Y3	52	LWW12-7062	4052	4228	
LCS EU Y3-6 (UK)	UK Y3	53	LWW12-7063	4053	4132	
LCS EU Y3-6 (UK)	UK Y3	54	LWW12-7064	4054	4243	
LCS EU Y3-6 (UK)	UK Y3	55	LWW12-7065	4055	4167	
LCS EU Y3-6 (UK)	UK Y3	56	LWW12-7067	4056	4189	
LCS EU Y3-6 (UK)	UK Y3	57	LWW12-7068	4057	4194	
LCS EU Y3-6 (UK)	UK Y3	58	LWW12-7069	4058	4234	
LCS EU Y3-6 (UK)	UK Y3	59	LWW12-7070	4059	4222	
LCS EU Y3-6 (UK)	UK Y3	60	LWW12-7074	4060	4179	
LCS EU Y3-6 (UK)	UK Y3	61	LWW12-7075	4061	4141	
LCS EU Y3-6 (UK)	UK Y3	62	LWW12-7076	4062	4128	
LCS EU Y3-6 (UK)	UK Y3	63	LWW12-7077	4063	4247	
LCS EU Y3-6 (UK)	UK Y3	64	LWW12-7078	4064	4209	
LCS EU Y3-6 (UK)	UK Y3	65	LWW12-7079	4065	4169	
LCS EU Y3-6 (UK)	UK Y3	66	LWW12-7080	4066	4212	
LCS EU Y3-6 (UK)	UK Y3	67	LWW12-7081	4067	4160	
LCS EU Y3-6 (UK)	UK Y3	68	LWW12-7082	4068	4161	
LCS EU Y3-6 (UK)	UK Y3	69	LWW12-7083	4069	4176	
LCS EU Y3-6 (UK)	UK Y3	70	LWW12-7084	4070	4246	
LCS EU Y3-6 (UK)	UK Y3	71	LWW12-7085	4071	4227	
LCS EU Y3-6 (UK)	UK Y3	72	LWW12-7086	4072	4135	
LCS EU Y3-6 (UK)	UK Y3	73	LWW12-7088	4073	4138	
LCS EU Y3-6 (UK)	UK Y3	74	LWW12-7089	4074	4156	
LCS EU Y3-6 (UK)	UK Y3	75	Stephens	4075	4192	Check
LCS EU Y3-6 (UK)	UK Y3	76	LWW12-7090	4076	4150	
LCS EU Y3-6 (UK)	UK Y3	77	LWW12-7091	4077	4177	
LCS EU Y3-6 (UK)	UK Y3	78	LWW12-7092	4078	4185	
LCS EU Y3-6 (UK)	UK Y3	79	LWW12-7093	4079	4248	
LCS EU Y3-6 (UK)	UK Y3	80	LWW12-7094	4080	4157	
LCS EU Y3-6 (UK)	UK Y3	81	LWW12-7095	4081	4215	
LCS EU Y3-6 (UK)	UK Y3	82	LWW12-7096	4082	4170	
LCS EU Y3-6 (UK)	UK Y3	83	LWW12-7097	4083	4171	
LCS EU Y3-6 (UK)	UK Y3	84	LWW12-7098	4084	4186	
LCS EU Y3-6 (UK)	UK Y3	85	LWW12-7099	4085	4230	
LCS EU Y3-6 (UK)	UK Y3	86	LWW12-7100	4086	4164	
LCS EU Y3-6 (UK)	UK Y3	87	LWW12-7101	4087	4162	

LCS EU Y3-6 (UK)	UK Y3	88	LWW12-7102	4088	4199	
LCS EU Y3-6 (UK)	UK Y3	89	LWW12-7103	4089	4129	
LCS EU Y3-6 (UK)	UK Y3	90	LWW12-7104	4090	4180	
LCS EU Y3-6 (UK)	UK Y3	91	LWW12-7105	4091	4143	
LCS EU Y3-6 (UK)	UK Y3	92	LWW12-7106	4092	4196	
LCS EU Y3-6 (UK)	UK Y3	93	LWW12-7107	4093	4216	
LCS EU Y3-6 (UK)	UK Y3	94	LWW12-7108	4094	4144	
LCS EU Y3-6 (UK)	UK Y3	95	LWW12-7109	4095	4172	
LCS EU Y3-6 (UK)	UK Y3	96	LWW12-7110	4096	4220	
LCS EU Y3-6 (UK)	UK Y3	97	LWW12-7111	4097	4240	
LCS EU Y3-6 (UK)	UK Y3	98	LWW12-7115	4098	4126	
LCS EU Y3-6 (UK)	UK Y3	99	LWW12-7116	4099	4210	
LCS EU Y3-6 (UK)	UK Y3	100	Norwest 553	4100	4217	Check
LCS EU Y3-6 (UK)	UK Y3	101	LWW12-7117	4101	4168	
LCS EU Y3-6 (UK)	UK Y3	102	LWW12-7118	4102	4130	
LCS EU Y3-6 (UK)	UK Y3	103	LWW12-7119	4103	4151	
LCS EU Y3-6 (UK)	UK Y3	104	LWW12-7120	4104	4213	
LCS EU Y3-6 (UK)	UK Y3	105	LWW12-7121	4105	4237	
LCS EU Y3-6 (UK)	UK Y3	106	LWW12-7122	4106	4239	
LCS EU Y3-6 (UK)	UK Y3	107	LWW12-7123	4107	4183	
LCS EU Y3-6 (UK)	UK Y3	108	LWW12-7124	4108	4146	
LCS EU Y3-6 (UK)	UK Y3	109	LWW12-7125	4109	4153	
LCS EU Y3-6 (UK)	UK Y3	110	LWW12-7126	4110	4205	
LCS EU Y3-6 (UK)	UK Y3	111	LWW12-7127	4111	4190	
LCS EU Y3-6 (UK)	UK Y3	112	LWW12-7128	4112	4163	
LCS EU Y3-6 (UK)	UK Y3	113	LWW12-7129	4113	4154	
LCS EU Y3-6 (UK)	UK Y3	114	LWW12-7130	4114	4214	
LCS EU Y3-6 (UK)	UK Y3	115	LWW12-7131	4115	4233	
LCS EU Y3-6 (UK)	UK Y3	116	LWW12-7132	4116	4195	
LCS EU Y3-6 (UK)	UK Y3	117	LWW12-7133	4117	4232	
LCS EU Y3-6 (UK)	UK Y3	118	LWW12-7134	4118	4208	
LCS EU Y3-6 (UK)	UK Y3	119	LWW12-7135	4119	4236	
LCS EU Y3-6 (UK)	UK Y3	120	LWW12-7137	4120	4235	
LCS EU Y3-6 (UK)	UK Y3	121	LWW12-7138	4121	4139	
LCS EU Y3-6 (UK)	UK Y3	122	LWW12-7141	4122	4165	
LCS EU Y3-6 (UK)	UK Y3	123		4123	4218	
LCS EU Y3-6 (UK)	UK Y3	124		4124	4219	
LCS EU Y3-6 (UK)	UK Y3	125	Stephens	4125	4201	Check



## 2012 LCS PNW Elite

Nursery	Entry	Rep1	Rep2	Rep3	Selection	2011 Source		
						Nursery	Plot	Entry
LCS PNW Elite	1	1101	1160	1171	Stephens	McP Adv-1	1501	1
LCS PNW Elite	2	1102	1142	1172	Brundage 96	McP Adv-1	1502	2
LCS PNW Elite	3	1103	1148	1167	Skiles	McP Adv-1	1503	3
LCS PNW Elite	4	1104	1146	1163	Madsen	McP Adv-1	1504	4
LCS PNW Elite	5	1105	1135	1170	OR08047P94	swadv-3	49	49
LCS PNW Elite	6	1106	1150	1164	NSA 05-2153A	FSD		
LCS PNW Elite	7	1107	1149	1168	87-WW-149	McP Adv-1	1505	5
LCS PNW Elite	8	1108	1131	1181	91-WW-55	McP Adv-1	1506	6
LCS PNW Elite	9	1109	1157	1186	97-WW-255	McP Adv-1	1507	7
LCS PNW Elite	10	1110	1153	1182	97-WW-155-102[1]	McP Adv-1	1508	8
LCS PNW Elite	11	1111	1132	1173	97-WW-155-114[1]	McP Adv-1	1509	9
LCS PNW Elite	12	1112	1145	1185	97-WW-155-159[1]	McP Adv-1	1510	10
LCS PNW Elite	13	1113	1154	1180	01-WW-1015	McP Adv-1	1514	14
LCS PNW Elite	14	1114	1133	1183	01-WW-1110	McP Adv-1	1519	19
LCS PNW Elite	15	1115	1156	1165	01-WW-1130	McP Adv-1	1521	21
LCS PNW Elite	16	1116	1144	1179	02-WW-2069	McP Adv-1	1531	31
LCS PNW Elite	17	1117	1151	1178	04-WW-4009	McP Adv-2	1705	5
LCS PNW Elite	18	1118	1134	1188	05-WW-5003	McP Adv-3	1709	9
LCS PNW Elite	19	1119	1158	1166	05-WW-5029	McP Adv-4	1710	10
LCS PNW Elite	20	1120	1141	1177	07-WW-7047	McP Adv-5	1721	21
LCS PNW Elite	21	1121	1139	1174	07-WW-7054	McP Adv-6	1723	23
LCS PNW Elite	22	1122	1159	1175	07-WW-7129	McP Adv-7	1733	33
LCS PNW Elite	23	1123	1140	1169	Fac / WW slh//Mac-1 /// 2*	McP Adv-8	1734	34
LCS PNW Elite	24	1124	1136	1161	10-WW-1005	McP Prelim	1906	6
LCS PNW Elite	25	1125	1137	1187	10-WW-1018	McP Prelim	1920	20
LCS PNW Elite	26	1126	1155	1189	10-WW-1059	McP Prelim	1964	64
LCS PNW Elite	27	1127	1152	1176	10-WW-1060	McP Prelim	1965	65
LCS PNW Elite	28	1128	1143	1184	P.-LH403H7001	K-Elite	1210	10
LCS PNW Elite	29	1129	1138	1190	KW023 (KW970022SW023)	K-Elite	1212	12
LCS PNW Elite	30	1130	1147	1162	KW027	Incr. Strips	Strip	

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							Source		
	Entry	Rep1	Rep2	Rep3	Line Name	Origin	Nursery	Entry	Plot
LCS EU Elite	1	1501	1565	1616	Stephens	Check			
LCS EU Elite	2	1502	1569	1588	Skiles	Check			
LCS EU Elite	3	1503	1567	1589	NSA-05-2153A	Check			
LCS EU Elite	4	1504	1576	1606	Norwest 553	Check			
LCS EU Elite	5	1505	1580	1592	Azimut	Check			
LCS EU Elite	6	1506	1551	1581	ALTAMIRA	FR	EEU Elite	6	2306
LCS EU Elite	7	1507	1541	1619	ALTIGO	FR	EEU Elite	7	2307
LCS EU Elite	8	1508	1544	1615	APRILIO	FR	EEU Elite	10	2310
LCS EU Elite	9	1509	1578	1612	ARAMIS	FR	EEU Elite	11	2311
LCS EU Elite	10	1510	1561	1597	ARROCCO	FR	EEU Elite	13	2313
LCS EU Elite	11	1511	1546	1603	ATTITUDE	FR	EEU Elite	14	2314
LCS EU Elite	12	1512	1572	1617	BOTICELLI	FR	EEU Elite	15	2315
LCS EU Elite	13	1513	1566	1601	NAS08-5291	FR	EEU Elite	18	2318
LCS EU Elite	14	1514	1552	1602	<b>NAS08-7208</b>	FR	EEU Elite	19	2319
LCS EU Elite	15	1515	1555	1604	<b>NASA06-4663</b>	FR	EEU Elite	20	2320
LCS EU Elite	16	1516	1549	1587	NSA06-7068	FR	EEU Elite	21	2321
LCS EU Elite	17	1517	1579	1608	<b>NSA07-4398</b>	FR	EEU Elite	24	2324
LCS EU Elite	18	1518	1556	1582	NSA07-7065	FR	EEU Elite	26	2326
LCS EU Elite	19	1519	1559	1585	EDGAR	GDR	EEU Elite	30	2330
LCS EU Elite	20	1520	1550	1609	HERMANN	GDR	EEU Elite	31	2331
LCS EU Elite	21	1521	1573	1610	KALAHARI	GDR	EEU Elite	32	2332
LCS EU Elite	22	1522	1545	1595	KEPLER	GDR	EEU Elite	33	2333
LCS EU Elite	23	1523	1560	1593	NIC05-4711-B	GDR	EEU Elite	36	2336
LCS EU Elite	24	1524	1543	1620	NIC06-4688-SA	GDR	EEU Elite	37	2337
LCS EU Elite	25	1525	1570	1591	NIC06-5210-B	GDR	EEU Elite	38	2338
LCS EU Elite	26	1526	1557	1590	NIC06-5211-B	GDR	EEU Elite	39	2339
LCS EU Elite	27	1527	1571	1614	NIC08-6580-A	GDR	EEU Elite	42	2342
LCS EU Elite	28	1528	1574	1586	OPERETKA	GDR	EEU Elite	44	2344
LCS EU Elite	29	1529	1553	1598	04-si-0456	Spain	SPWW Elite	13	13
LCS EU Elite	30	1530	1563	1583	NSA08-0033	Y3N+S	Jayne's Y3	1	
LCS EU Elite	31	1531	1562	1594	NSA07-0025	Y3S	Jayne's Y3	7	
LCS EU Elite	32	1532	1568	1618	NSA09-0582	Y3N+S	Jayne's Y3	24	
LCS EU Elite	33	1533	1554	1611	NSA09-0698	Y3N	Jayne's Y3	25	
LCS EU Elite	34	1534	1547	1599	NSA09-0855	Y3N	Jayne's Y3	30	
LCS EU Elite	35	1535	1542	1605	NSA08-4083	Fr - Vrn	EU Prelim	3002	
LCS EU Elite	36	1536	1575	1607	NSA09-5098	Fr - Vrn	EU Prelim	3030	

# 2012 LCS EU Elite

## ATTACHMENT 1

							Source		
	Entry	Rep1	Rep2	Rep3	Line Name	Origin	Nursery	Entry	Plot
LCS EU Elite	37	1537	1577	1596	NSA09-5211	Fr - Vrn	EU Prelim	3031	
LCS EU Elite	38	1538	1564	1613	NSA09-5449	Fr - Vrn	EU Prelim	3034	
LCS EU Elite	39	1539	1548	1584	NSA09-5594	Fr - Vrn	EU Prelim	3037	
LCS EU Elite	40	1540	1558	1600	NSA09-5599	Fr - Vrn	EU Prelim	3038	

						2011 Source	
Nursery	Entry	Rep1	Rep2	Rep3		Nursery	Plot
PNW HW Adv 1	1	1301	1344	1389	Norwest 553	McP HRW	1853
PNW HW Adv 1	2	1302	1360	1384	Azumit		
PNW HW Adv 1	3	1303	1340	1372	Whetstone	W Reg	1102
PNW HW Adv 1	4	1304	1348	1364	OR2080111H	W REg	1107
PNW HW Adv 1	5	1305	1353	1374	04-HWW-4008	McP HRW	1857
PNW HW Adv 1	6	1306	1335	1390	04-HWW-4013	McP HRW	1859
PNW HW Adv 1	7	1307	1359	1381	04-HWW-4014	McP HRW	1860
PNW HW Adv 1	8	1308	1354	1378	04-HWW-4033	McP HRW	1863
PNW HW Adv 1	9	1309	1336	1382	04-HWW-4035	McP HRW	1864
PNW HW Adv 1	10	1310	1349	1369	04-HWW-4045	McP HRW	1866
PNW HW Adv 1	11	1311	1332	1379	10-HRW-1024	PB1- HRW Prelim	2126
PNW HW Adv 1	12	1312	1355	1361	10-HRW-1031	PB1- HRW Prelim	2134
PNW HW Adv 1	13	1313	1341	1380	10-HRW-1036	PB1- HRW Prelim	2139
PNW HW Adv 1	14	1314	1356	1385	10-HRW-1038	PB1- HRW Prelim	2141
PNW HW Adv 1	15	1315	1331	1375	10-HRW-1043	PB1- HRW Prelim	2147
PNW HW Adv 1	16	1316	1345	1367	10-HRW-1049	PB1- HRW Prelim	2153
PNW HW Adv 1	17	1317	1337	1383	10-HRW-1050	PB1- HRW Prelim	2154
PNW HW Adv 1	18	1318	1352	1365	10-HRW-1055	PB1- HRW Prelim	2159
PNW HW Adv 1	19	1319	1350	1376	10-HRW-1062	PB1- HRW Prelim	2167
PNW HW Adv 1	20	1320	1351	1388	10-HRW-1065	PB1- HRW Prelim	2170
PNW HW Adv 1	21	1321	1357	1377	10-HRW-1066	PB1- HRW Prelim	2171
PNW HW Adv 1	22	1322	1346	1366	10-HRW-1067	PB1- HRW Prelim	2172
PNW HW Adv 1	23	1323	1338	1368	10-HRW-1068	PB1- HRW Prelim	2173
PNW HW Adv 1	24	1324	1342	1386	10-HRW-1070	PB1- HRW Prelim	2176
PNW HW Adv 1	25	1325	1343	1370	10-HRW-1071	PB1- HRW Prelim	2177
PNW HW Adv 1	26	1326	1358	1363	10-HRW-1075	PB1- HRW Prelim	2181
PNW HW Adv 1	27	1327	1347	1387	10-HRW-1077	PB1- HRW Prelim	2183
PNW HW Adv 1	28	1328	1339	1371	10-HRW-1081	PB1- HRW Prelim	2187
PNW HW Adv 1	29	1329	1333	1373	10-HRW-1084	PB1- HRW Prelim	2191
PNW HW Adv 1	30	1330	1334	1362	10-HRW-1086	PB1- HRW Prelim	2193

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Nusery	entry	Rep 1	Rep 2	Rep 3	Entery	Origin	Nusery	Entry
PNW EU Adv 1	1	1701	1775	1850	Stephens	Check		
PNW EU Adv 1	2	1702	1782	1872	Skiles	Check		
PNW EU Adv 1	3	1703	1818	1870	NSA-05-2153A	Check		
PNW EU Adv 1	4	1704	1816	1874	Norwest 553	Check		
PNW EU Adv 1	5	1705	1805	1867	Azimut	Check		
PNW EU Adv 1	6	1706	1774	1868	W07-10213	Fr - Vrn	EU Prelim	3001
PNW EU Adv 1	7	1707	1789	1891	NSA08-7219	Fr - Vrn	EU Prelim	3005
PNW EU Adv 1	8	1708	1798	1889	NSA08-8160	Fr - Vrn	EU Prelim	3007
PNW EU Adv 1	9	1709	1772	1886	NSA08-8540	Fr - Vrn	EU Prelim	3009
PNW EU Adv 1	10	1710	1784	1846	NSA08-8549	Fr - Vrn	EU Prelim	3010
PNW EU Adv 1	11	1711	1810	1840	NSA08-8555	Fr - Vrn	EU Prelim	3011
PNW EU Adv 1	12	1712	1802	1852	NSA08-8558	Fr - Vrn	EU Prelim	3012
PNW EU Adv 1	13	1713	1795	1843	NSA09-4144A	Fr - Vrn	EU Prelim	3015
PNW EU Adv 1	14	1714	1819	1864	NSA09-4156B	Fr - Vrn	EU Prelim	3016
PNW EU Adv 1	15	1715	1777	1831	NSA09-4245A	Fr - Vrn	EU Prelim	3017
PNW EU Adv 1	16	1716	1791	1849	NSA09-4350	Fr - Vrn	EU Prelim	3019
PNW EU Adv 1	17	1717	1824	1871	NSA09-4701	Fr - Vrn	EU Prelim	3022
PNW EU Adv 1	18	1718	1825	1863	NSA09-4789	Fr - Vrn	EU Prelim	3023
PNW EU Adv 1	19	1719	1785	1853	NSA09-4866B	Fr - Vrn	EU Prelim	3027
PNW EU Adv 1	20	1720	1799	1855	NSA09-4934	Fr - Vrn	EU Prelim	3028
PNW EU Adv 1	21	1721	1803	1865	NSA09-4942	Fr - Vrn	EU Prelim	3029
PNW EU Adv 1	22	1722	1811	1847	NSA09-5388A	Fr - Vrn	EU Prelim	3033
PNW EU Adv 1	23	1723	1773	1873	NSA09-5510	Fr - Vrn	EU Prelim	3036
PNW EU Adv 1	24	1724	1814	1878	NSA09-5635B	Fr - Vrn	EU Prelim	3039
PNW EU Adv 1	25	1725	1828	1859	NSA09-5708	Fr - Vrn	EU Prelim	3040
PNW EU Adv 1	26	1726	1796	1894	NSA08-0283B	Y3S	Jayne's Y3	2
PNW EU Adv 1	27	1727	1771	1857	NSA09-0053	Y3N+S	Jayne's Y3	3
PNW EU Adv 1	28	1728	1801	1881	NSA09-0219	Y3S	Jayne's Y3	4
PNW EU Adv 1	29	1729	1769	1887	NSA09-0788	Y3S	Jayne's Y3	5
PNW EU Adv 1	30	1730	1820	1888	NSA09-1109	Y3N+S	Jayne's Y3	6
PNW EU Adv 1	31	1731	1797	1844	NSA07-2321 B	Y3S	Jayne's Y3	8
PNW EU Adv 1	32	1732	1780	1851	NSA08-0092	Y3N+S	Jayne's Y3	9
PNW EU Adv 1	33	1733	1783	1884	NSA08-0626	Y3S (voir N)	Jayne's Y3	12
PNW EU Adv 1	34	1734	1778	1841	NSA08-0684	Y3N+S	Jayne's Y3	14
PNW EU Adv 1	35	1735	1792	1834	W3343-05043-0604	Y3S	Jayne's Y3	15
PNW EU Adv 1	36	1736	1826	1869	NSA08-0258	Y3N+S+Esp	Jayne's Y3	16
PNW EU Adv 1	37	1737	1779	1848	NSA08-0328	Y3N	Jayne's Y3	18
PNW EU Adv 1	38	1738	1815	1866	NSA08-2019	Y3N+S	Jayne's Y3	20
PNW EU Adv 1	39	1739	1767	1892	NSA09-0710	Y3N	Jayne's Y3	26
PNW EU Adv 1	40	1740	1766	1882	NSA09-0903	Y3N+S	Jayne's Y3	31
PNW EU Adv 1	41	1741	1806	1879	NSA07-0529B	Y3N	Jayne's Y3	36
PNW EU Adv 1	42	1742	1793	1860	B074-0331-0403-2	Y3N+S	Jayne's Y3	39
PNW EU Adv 1	43	1743	1809	1858	Andelos	Spain	SPWW Elite	2
PNW EU Adv 1	44	1744	1804	1832	06-si-812	Spain	SPWW Elite	14
PNW EU Adv 1	45	1745	1827	1875	06-si-0824	Spain	SPWW Elite	17
PNW EU Adv 1	46	1746	1817	1835	06-si-0842	Spain	SPWW Elite	18
PNW EU Adv 1	47	1747	1781	1895	NSA-04-2002	Spain	SPWW Elite	20
PNW EU Adv 1	48	1748	1787	1861	07-si-1067	Spain	SPWW-1	5
PNW EU Adv 1	49	1749	1768	1845	07-si-1219	Spain	SPWW-1	8
PNW EU Adv 1	50	1750	1829	1836	08-si-1534	Spain	SPWW-1	11
PNW EU Adv 1	51	1751	1800	1854	08-si-1535	Spain	SPWW-1	12
PNW EU Adv 1	52	1752	1807	1837	08-si-1542	Spain	SPWW-1	14
PNW EU Adv 1	53	1753	1821	1890	08-si-1314	Spain	SPWW-1	18
PNW EU Adv 1	54	1754	1812	1833	08-si-1322	Spain	SPWW-1	19
PNW EU Adv 1	55	1755	1790	1856	08-si-1374	Spain	SPWW-1	21
PNW EU Adv 1	56	1756	1822	1876	08-si-1377	Spain	SPWW-1	22
PNW EU Adv 1	57	1757	1786	1838	08-si-1440	Spain	SPWW-1	27
PNW EU Adv 1	58	1758	1813	1880	08-si-1476	Spain	SPWW-1	30
PNW EU Adv 1	59	1759	1788	1885	08-si-1477	Spain	SPWW-1	31
PNW EU Adv 1	60	1760	1830	1883	08-si-1502	Spain	SPWW-1	32
PNW EU Adv 1	61	1761	1776	1893	08-si-1504	Spain	SPWW-1	33
PNW EU Adv 1	62	1762	1808	1862	08-si-1509	Spain	SPWW-1	34
PNW EU Adv 1	63	1763	1794	1839	09-si-1648	Spain	SPWW-1	48
PNW EU Adv 1	64	1764	1808	1877	09-si-1654	Spain	SPWW-1	49
PNW EU Adv 1	65	1765	1770	1842	09-si-1680	Spain	SPWW-1	51

## 2012 LCS PNW Adv-1

Nursery	Entry	Rep1	Rep2	Rep3	Selection	2011 Source		
						Nursery	Plot	Entry
LCS PNW Adv-1	1	1201	1255	1261	Stephens	McP Adv-2	1501	1
LCS PNW Adv-1	2	1202	1248	1262	Brundage 96	McP Adv-2	1502	2
LCS PNW Adv-1	3	1203	1231	1286	Skiles	McP Adv-2	1503	3
LCS PNW Adv-1	4	1204	1232	1267	Madsen	McP Adv-2	1504	4
LCS PNW Adv-1	5	1205	1235	1287	OR08047P94	swadv-3	49	49
LCS PNW Adv-1	6	1206	1245	1265	NSA 05-2153A			
LCS PNW Adv-1	7	1207	1246	1290	KW05060 h9001	K-Prelim	1404	4
LCS PNW Adv-1	8	1208	1240	1268	KW05060 h9003	K-Prelim	1405	5
LCS PNW Adv-1	9	1209	1259	1269	KW05060 hr002	K-Prelim	1438	38
LCS PNW Adv-1	10	1210	1238	1281	KW006	K-Prelim	1444	44
LCS PNW Adv-1	11	1211	1241	1282	KW90216 hr016	K-Prelim	1451	51
LCS PNW Adv-1	12	1212	1244	1278	10-WW-1007	McP Prelim	1908	8
LCS PNW Adv-1	13	1213	1249	1279	10-WW-1008	McP Prelim	1909	9
LCS PNW Adv-1	14	1214	1251	1284	10-WW-1009	McP Prelim	1910	10
LCS PNW Adv-1	15	1215	1250	1274	10-WW-1016	McP Prelim	1918	18
LCS PNW Adv-1	16	1216	1239	1280	10-WW-1017	McP Prelim	1919	19
LCS PNW Adv-1	17	1217	1260	1285	10-WW-1020	McP Prelim	1922	22
LCS PNW Adv-1	18	1218	1243	1289	10-WW-1026	McP Prelim	1928	28
LCS PNW Adv-1	19	1219	1252	1288	10-WW-1037	McP Prelim	1940	40
LCS PNW Adv-1	20	1220	1237	1266	10-WW-1056	McP Prelim	1961	61
LCS PNW Adv-1	21	1221	1253	1283	10-WW-1057	McP Prelim	1962	62
LCS PNW Adv-1	22	1222	1254	1272	10-WW-1071	McP Prelim	1977	77
LCS PNW Adv-1	23	1223	1257	1270	10-WW-1073	McP Prelim	1979	79
LCS PNW Adv-1	24	1224	1258	1263	10-WW-1078	McP Prelim	1984	84
LCS PNW Adv-1	25	1225	1256	1264	10-WW-1080	McP Prelim	1986	86
LCS PNW Adv-1	26	1226	1236	1275	10-WW-1082	McP Prelim	1988	88
LCS PNW Adv-1	27	1227	1233	1276	10-WW-1090	McP Prelim	1997	97
LCS PNW Adv-1	28	1228	1242	1273	10-WW-1091	McP Prelim	1998	98
LCS PNW Adv-1	29	1229	1234	1271	10-WW-1098	McP Prelim	2006	106
LCS PNW Adv-1	30	1230	1247	1277	10-WW-1099	McP Prelim	2007	107

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## 2012 PNW EU Adv 2

## ATTACHMENT 1

							Source	
	Entry	Rep 1	Rep 2	Rep 3	Entery	Origin	Nusery	Entry
PNW EU Adv 2	1	2001	2072	2183	Stephens	Check		
PNW EU Adv 2	2	2002	2110	2192	09-si-1684	Spain	SPWW-1	52
PNW EU Adv 2	3	2003	2103	2148	09-si-2045	Spain	SPWW-1	54
PNW EU Adv 2	4	2004	2066	2165	09-si-2053	Spain	SPWW-1	55
PNW EU Adv 2	5	2005	2118	2160	09-si-2058	Spain	SPWW-1	56
PNW EU Adv 2	6	2006	2085	2180	09-si-2092	Spain	SPWW-1	58
PNW EU Adv 2	7	2007	2123	2136	09-si-2111	Spain	SPWW-1	59
PNW EU Adv 2	8	2008	2067	2152	09-si-2120	Spain	SPWW-1	60
PNW EU Adv 2	9	2009	2081	2151	09-si-2128	Spain	SPWW-1	62
PNW EU Adv 2	10	2010	2113	2161	09-si-2131	Spain	SPWW-1	63
PNW EU Adv 2	11	2011	2095	2159	09-si-2138	Spain	SPWW-1	64
PNW EU Adv 2	12	2012	2082	2138	09-si-2163	Spain	SPWW-1	67
PNW EU Adv 2	13	2013	2075	2166	09-si-2172	Spain	SPWW-1	68
PNW EU Adv 2	14	2014	2124	2169	09-si-2174	Spain	SPWW-1	69
PNW EU Adv 2	15	2015	2106	2133	Skiles	Check		
PNW EU Adv 2	16	2016	2086	2175	09-si-2197	Spain	SPWW-1	70
PNW EU Adv 2	17	2017	2104	2170	09-si-2221	Spain	SPWW-1	74
PNW EU Adv 2	18	2018	2102	2139	09-si-2223	Spain	SPWW-1	75
PNW EU Adv 2	19	2019	2107	2194	09-si-2237	Spain	SPWW-1	78
PNW EU Adv 2	20	2020	2114	2140	09-si-2248	Spain	SPWW-1	79
PNW EU Adv 2	21	2021	2128	2142	09-si-2252	Spain	SPWW-1	80
PNW EU Adv 2	22	2022	2117	2153	09-si-2254	Spain	SPWW-1	81
PNW EU Adv 2	23	2023	2111	2189	09-si-2259	Spain	SPWW-1	82
PNW EU Adv 2	24	2024	2122	2195	09-si-2266	Spain	SPWW-1	83
PNW EU Adv 2	25	2025	2087	2178	09-si-2309	Spain	SPWW-1	89
PNW EU Adv 2	26	2026	2099	2173	09-si-2374	Spain	SPWW-1	92
PNW EU Adv 2	27	2027	2129	2186	09-si-2395	Spain	SPWW-1	95
PNW EU Adv 2	28	2028	2068	2174	09-si-2405	Spain	SPWW-1	97
PNW EU Adv 2	29	2029	2101	2146	09-si-2437	Spain	SPWW-1	98
PNW EU Adv 2	30	2030	2098	2149	NSA-05-2153A	Check		
PNW EU Adv 2	31	2031	2130	2145	09-si-2448	Spain	SPWW-1	100
PNW EU Adv 2	32	2032	2092	2187	09-si-2458	Spain	SPWW-1	101
PNW EU Adv 2	33	2033	2094	2167	09-si-2485	Spain	SPWW-1	102
PNW EU Adv 2	34	2034	2071	2171	09-si-2489	Spain	SPWW-1	103
PNW EU Adv 2	35	2035	2091	2137	09-si-2619	Spain	SPWW-1	118
PNW EU Adv 2	36	2036	2126	2154	09-si-2620	Spain	SPWW-1	119
PNW EU Adv 2	37	2037	2108	2162	09-si-2633	Spain	SPWW-1	120

LATE ITEM - BARR - SECTION II

## 2012 PNW EU Adv 2

## ATTACHMENT 1

	Entry	Rep 1	Rep 2	Rep 3	Entry	Origin	Source	
							Nusery	Entry
PNW EU Adv 2	38	2038	2127	2131	09-si-2640	Spain	SPWW-1	122
PNW EU Adv 2	39	2039	2074	2156	09-si-2658	Spain	SPWW-1	123
PNW EU Adv 2	40	2040	2083	2190	09-si-2678	Spain	SPWW-1	126
PNW EU Adv 2	41	2041	2119	2163	09-si-2687	Spain	SPWW-1	127
PNW EU Adv 2	42	2042	2093	2134	09-si-2691	Spain	SPWW-1	128
PNW EU Adv 2	43	2043	2077	2176	09-si-2704	Spain	SPWW-1	129
PNW EU Adv 2	44	2044	2120	2181	10SB0011	Sp. Spring	SPWWP-2	5
PNW EU Adv 2	45	2045	2112	2141	Norwest 553	Check		
PNW EU Adv 2	46	2046	2100	2155	10SB0008	Sp. Spring	SPWWP-2	7
PNW EU Adv 2	47	2047	2069	2143	08SB0169.A.2	Sp. Spring	SPWWP-2	10
PNW EU Adv 2	48	2048	2088	2177	08SB0124.B.2	Sp. Spring	SPWWP-2	12
PNW EU Adv 2	49	2049	2090	2188	08SB0101.B.3	Sp. Spring	SPWWP-2	13
PNW EU Adv 2	50	2050	2073	2179	08SB0008.B.2	Sp. Spring	SPWWP-2	15
PNW EU Adv 2	51	2051	2076	2193	10SB0028	Sp. Spring	SPWWP-2	28
PNW EU Adv 2	52	2052	2105	2191	10SB0122	Sp. Spring	SPWWP-2	33
PNW EU Adv 2	53	2053	2121	2172	10SB0121	Sp. Spring	SPWWP-2	34
PNW EU Adv 2	54	2054	2097	2157	10SB0120	Sp. Spring	SPWWP-2	35
PNW EU Adv 2	55	2055	2070	2184	10SB0064	Sp. Spring	SPWWP-2	41
PNW EU Adv 2	56	2056	2078	2185	10SB0060	Sp. Spring	SPWWP-2	42
PNW EU Adv 2	57	2057	2079	2168	10SB0056	Sp. Spring	SPWWP-2	44
PNW EU Adv 2	58	2058	2084	2150	10SB0054	Sp. Spring	SPWWP-2	45
PNW EU Adv 2	59	2059	2125	2135	10SB0167	Sp. Spring	SPWWP-2	54
PNW EU Adv 2	60	2060	2080	2144	Azimet	Check		
PNW EU Adv 2	61	2061	2109	2147	10SB0148	Sp. Spring	SPWWP-2	56
PNW EU Adv 2	62	2062	2115	2164	10SB0226	Sp. Spring	SPWWP-2	61
PNW EU Adv 2	63	2063	2116	2158	10SB0225	Sp. Spring	SPWWP-2	62
PNW EU Adv 2	64	2064	2089	2182	10SB0228	Sp. Spring	SPWWP-2	89
PNW EU Adv 2	65	2065	2096	2132	10SB0227	Sp. Spring	SPWWP-2	90



## PNW HW Adv-2

						2011 Source	
Nursery	Entry	Rep1	Rep2	Rep3	Selection	Nursery	Plot
PNW HW Adv 2	1	1401	1435	1484	Norwest 553	McP HRW	1853
PNW HW Adv 2	2	1402	1433	1471	Azunit		
PNW HW Adv 2	3	1403	1450	1481	Whetstone	W Reg	1102
PNW HW Adv 2	4	1404	1457	1467	OR2080111H	W REg	1107
PNW HW Adv 2	5	1405	1441	1489	10-HRW-1089	PB1- HRW Prelim	2196
PNW HW Adv 2	6	1406	1439	1461	10-HRW-1090	PB1- HRW Prelim	2197
PNW HW Adv 2	7	1407	1455	1462	10-HRW-1091	PB1- HRW Prelim	2198
PNW HW Adv 2	8	1408	1453	1478	10-HRW-1094	PB1- HRW Prelim	2201
PNW HW Adv 2	9	1409	1446	1490	10-HRW-1096	PB1- HRW Prelim	2203
PNW HW Adv 2	10	1410	1448	1483	10-HRW-1097	PB1- HRW Prelim	2205
PNW HW Adv 2	11	1411	1456	1472	10-HRW-1098	PB1- HRW Prelim	2206
PNW HW Adv 2	12	1412	1443	1488	10-HRW-1100	PB1- HRW Prelim	2208
PNW HW Adv 2	13	1413	1451	1485	kw05016 H7002	K-Elite	1215
PNW HW Adv 2	14	1414	1436	1474	KW90108	K-Elite	1216
PNW HW Adv 2	15	1415	1434	1475	Pilova-TTW037	K-Elite	1218
PNW HW Adv 2	16	1416	1438	1476	KW05025 hr035	K-Elite	1223
PNW HW Adv 2	17	1417	1458	1464	KW90751	K-Elite	1229
PNW HW Adv 2	18	1418	1444	1479	KW90759	K-Elite	1230
PNW HW Adv 2	19	1419	1440	1486	KW90767	K-Elite	1231
PNW HW Adv 2	20	1420	1452	1470	KW9079 h9020	K-Prel	1403
PNW HW Adv 2	21	1421	1445	1468	KW9077 hr001	K-Prel	1420
PNW HW Adv 2	22	1422	1431	1482	KW9077 hr002	K-Prel	1421
PNW HW Adv 2	23	1423	1449	1480	KW9077 hr003	K-Prel	1422
PNW HW Adv 2	24	1424	1447	1465	KW9077 hr004	K-Prel	1424
PNW HW Adv 2	25	1425	1437	1473	KW90225 hr025	K-Prel	1437
PNW HW Adv 2	26	1426	1432	1463	KW90225 hr010	K-Prel	1456
PNW HW Adv 2	27	1427	1454	1469	KW90225 hr017	K-Prel	1459
PNW HW Adv 2	28	1428	1459	1466	KW90225 hr027	K-Prel	1461
PNW HW Adv 2	29	1429	1442	1487	KW90225 hr034	K-Prel	1463
PNW HW Adv 2	30	1430	1460	1477	KW90225 hr036	K-Prel	1464

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**EXHIBIT C**

**UNIVERSITY GERmplasm**

[UNIVERSITY GERmplasm LIST TO BE INSERTED]

**ATTACHMENT 1**

nursery		Entry #	Entry	Pedigree, CI/PI, or PVP No.	
dry land	both	1	Stephens	CI 013740	Check
dry land		2	Madsen		Check
dry land	both	3	Brundage 96	Stephens/Geneva - reselection	Check
dry land	both	4	Bruneau (93-64901A)	85-01008 / 85-02012	
dry land		5	03-22404A	96-07205A / 95-46402A	
dry land		6	03-33604A	91-34302A-Simon // 89-60320A / J99C0009	
dry land	both	7	99-06202A	ID-B-96w / 10085-5	
dry land		8	03-28404A	J99C0009 // J99C0009 / Brundage 96	
dry land	both	9	01-10704A	92-13003A / ID-B-96	
dry land	both	10	02-29001A	Brundage 96 // 94-38506A / OR939526	
dry land	both	11	01-30105A	93-21103A / 93-46907A	
dry land		12	03-26001A	Madsen // S86-375 / 94-24206A	
dry land		13	02-11201A	OR941904 / 91-34302A	
dry land	both	14	03-11404A	J99C0009 / 89-54607A	
dry land		15	03-28702A	J99C0009 // J99C0009 / 89-60308A	
dry land	both	16	02-08806A	89-54607A / 94-58503A	
dry land		17	03-23706A	Finch / Lambert // Brundage 96	
dry land		18	03-08206A	98 Nickerson OSU / Finch WA7853	
dry land	both	19	01-49001A	ID-B-96 // Sultan 95 / ID-B-96	
dry land	both	20	02-10606A	93-64901A / 91-34302A	
dry land	both	21	02-04004A	MT 3528 / Weatherford	
dry land	both	22	98-19502A	Brundage 96 / 89-18102A	
dry land	both	23	02-12901A	91-20503A / 93-64901A	
dry land	both	24	02-45803A	92-22407A // Weatherford / 89-54607A	
dry land	both	25	01-14302A	92-13003A / 87-52814A	
dry land		26	02-09506A	89-60308A / 92-22407A	
dry land		27	03-03605A	Brundage 96 / Rossini-OSU	
dry land	both	28	00-10701A	89-17113A / 92-16705A	
dry land	both	29	03-32407B	91-34302A-Simon // J99C0009 / Brundage 96	
dry land	both	30	96-16702A	86-09015 / Houser // 86-14502B	
dry land		31	02-12304A	Finch / 89-60320A	
dry land		32	02-12005A	89-60320A / ID 92-27511AD	
dry land		33	00-35401A	S86-375 / 89-17113A // 89-17113A	
dry land	both	34	03-29902A	J99C0009 // 93-64901A / J99C0009	
dry land	both	35	04-29505A	91-32502A-16 / 96-09601A	
dry land	both	36	04-26706A	94-32505A / 91-20503A Dune	
dry land	both	37	04-28401A	92-16004A / 93-64901A	
dry land	both	38	04-29307A	Tubbs / 96-09601A	
dry land	both	39	04-30004A	96-09606A / 93-40702A	
dry land	both	40	04-21901AC	Chukar / 99-14407C	
dry land	both	41	04-45704A	92-16004A // J98C0001 / 87-52814A	
dry land	both	42	04-24006A	94-32505A / Brundage 96	
dry land	both	43	04-15805A	Brundage 96 / 96-09601A	
dry land	both	44	04-39601B	Brundage 96 // Brundage 96 / Rossini	

nursery		Entry #	Entry	Pedigree, CI/PI, or PVP No.	
irrigated		1	Brundage	Stephens/Geneva	Check
irrigated	both	2	Brundage 96	Stephens/Geneva - reselection	Check
irrigated	both	3	Stephens	CI 013740	Check
irrigated	both	4	Bruneau (93-64901A)	85-01008 / 85-02012	Check
irrigated	both	5	96-16702A	86-09015 / Houser // 86-14502B	
irrigated	both	6	02-10606A	93-64901A / 91-34302A	
irrigated	both	7	02-04004A	MT 3528 / Weatherford	
irrigated	both	8	98-19502A	Brundage 96 / 89-18102A	
irrigated		9	03-31106A	87-52814A / J99C0009 // 87-52814A	
irrigated	both	10	03-29902A	J99C0009 // 93-64901A / J99C0009	
irrigated	both	11	01-10704A	92-13003A / ID-B-96	
irrigated	both	12	02-29001A	Brundage 96 // 94-38506A / OR939526	
irrigated		13	96-51506A	Lewjain / 87-00314A // 87-00314A	
irrigated	both	14	03-11404A	J99C0009 / 89-54607A	
irrigated		15	99-22705A	ID-B-96w // Brundage / 89-54508A	
irrigated		16	99-07904A	ID-B-96t / 87-52814A	
irrigated	both	17	00-10701A	89-17113A / 92-16705A	
irrigated	both	18	01-14302A	92-13003A / 87-52814A	
irrigated	both	19	99-06202A	ID-B-96w / 10085-5	
irrigated		20	00-34702A	86-10420A / 89-54607A // 89-17113A	
irrigated		21	03-30704A	94-58503A / J99C0009 // J99C0009	
irrigated	both	22	01-49001A	ID-B-96 // Sultan 95 / ID-B-96	
irrigated	both	23	02-08806A	89-54607A / 94-58503A	
irrigated	both	24	03-32407B	91-34302A-Simon // J99C0009 / Brundage 96	
irrigated	both	25	02-45803A	92-22407A // Weatherford / 89-54607A	
irrigated	both	26	02-12901A	91-20503A / 93-64901A	
irrigated		27	00-31501A	ID-B-96w // 88-32103A / ID-B-96t	
irrigated	both	28	01-30105A	93-21103A / 93-46907A	
irrigated	both	29	04-29505A	91-32502A-16 / 96-09601A	
irrigated	both	30	04-26706A	94-32505A / 91-20503A Dune	
irrigated	both	31	04-28401A	92-16004A / 93-64901A	
irrigated	both	32	04-29307A	Tubbs / 96-09601A	
irrigated	both	33	04-30004A	96-09606A / 93-40702A	
irrigated	both	34	04-21901AC	Chukar / 99-14407C	
irrigated	both	35	04-45704A	92-16004A // J98C0001 / 87-52814A	
irrigated	both	36	04-24006A	94-32505A / Brundage 96	
irrigated	both	37	04-15805A	Brundage 96 / 96-09601A	
irrigated		38	04-35804A	Simon // Claire / Lambert	
irrigated	both	39	04-39601B	Brundage 96 // Brundage 96 / Rossini	
irrigated		40	04-39703B	Brundage 96 / 98 Nickerson // Brundage 96	
irrigated		41	04-00405B	94-10902A / J99C0009	
irrigated		42	04-13702A	92-16004A / 96-09103A	
irrigated		43	04-49101A	94-10902A / 96-09608A	
irrigated		44	04-01703A	94-32505A / J99C0009	
irrigated		45	04-10001A	93-64901A / 94-10902A	
irrigated		46	04-09601A	94-10902A / Brundage 96	
irrigated		47	04-28402A	92-16004A / 93-64901A	
irrigated		48	04-16901A	96-09606A / Brundage 96	
irrigated		49	04-29302A	93-64901A / 93-40702A	
irrigated		50	04-24105A	91-32502A-16 / Brundage 96	
irrigated		51	04-09107A	94-10902A / 96-09608A	
irrigated		52	04-31902A	96-09607A / Brundage 96	
irrigated		53	04-19502A	96-09608A / 93-40702A	
irrigated		54	04-18002A	96-09607A / Brundage 96	
irrigated		55	04-29704A	Tubbs / 96-09606A	

UI F3

1112 plot #	09 crosses	pedigree
1	09-001	Simon / Xerpha
2	09-005	99-06202A / Simon
3	09-006	Simon / 99-07904A
4	09-007	99-22501A / Simon
5	09-008	99-22705A / Simon
6	09-009	R04-200 / Simon
7	09-010	5J030662-6 WSU / Simon
8	09-011	Simon / WA 8066
9	09-012	WA 8065 / Simon
10	09-013	WA 8064 / Simon
11	09-014	WA 8093 / Simon
12	09-015	Xerpha / Brundage 96
13	09-016	ORCF-103 / Brundage 96
14	09-017	Brundage 96 / 99-22501A
15	09-018	Brundage 96 / 99-22705A
16	09-019	R04-200 / Brundage 96
17	09-020	5J030662-6 WSU / Brundage 96
18	09-021	Brundage 96 / WA 8066
19	09-022	Brundage 96 / WA 8065
20	09-023	WA 8064 / Brundage 96
21	09-024	WA 8093 / Brundage 96
22	09-026	99-22501A / ID-D-05
23	09-027	R04-200 / ID-D-05
24	09-030	WA 8065 / ID-D-05
25	09-032	WA 8093 / ID-D-05
26	09-033	Xerpha / Bitterroot
27	09-034	Xerpha / 93-64901A
28	09-037	97-09701A / Xerpha
29	09-038	96-282A-1D / Xerpha
30	09-039	Xerpha / 99-06202A
31	09-040	Xerpha / 99-07904A
32	09-041	Xerpha / 99-22501A
33	09-042	Xerpha / 99-22705A
34	09-043	R04-200 / Xerpha
35	09-044	ORCF-103 / 02-859
36	09-045	ORCF-103 / 00-475-2DH
37	09-046	99-22501A / ORCF-103
38	09-047	99-22501A / 92-16004A
39	09-048	99-22705A / 92-16004A
40	09-049	R04-200 / 92-16004A
41	09-050	92-16004A / 5J030662-6 WSU
42	09-051	WA 8066 / 92-16004A
43	09-053	WA 8064 / 92-16004A
44	09-054	WA 8093 / 92-16004A

45	09-055	99-22501A / Bitterroot
46	09-056	99-22705A / Bitterroot
47	09-057	R04-200 / Bitterroot
48	09-058	5J030662-6 WSU / Bitterroot
49	09-059	WA 8066 / Bitterroot
50	09-060	Bitterroot / WA 8065
51	09-061	WA 8064 / Bitterroot
52	09-063	99-22501A / 93-64901A
53	09-064	99-22705A / 93-64901A
54	09-065	R04-200 / 93-64901A
55	09-066	5J030662-6 WSU / 93-64901A
56	09-067	93-64901A / WA 8066
57	09-068	WA 8065 / 93-64901A
58	09-069	WA 8064 / 93-64901A
59	09-070	93-64901A / WA 8093
60	09-071	5J030662-6 WSU / 02-859
61	09-073	WA 8065 / 02-859
62	09-075	WA 8093 / 02-859
63	09-076	5J030662-6 WSU / 00-475-2DH
64	09-077	WA 8066 / 00-475-2DH
65	09-078	WA 8065 / 00-475-2DH
66	09-080	WA 8093 / 00-475-2DH
67	09-081	99-06202A / 96-51506A
68	09-082	99-22501A / 96-51506A
69	09-083	99-22705A / 96-51506A
70	09-084	R04-200 / 96-51506A
71	09-085	5J030662-6 WSU / 96-51506A
72	09-089	WA 8093 / 96-51506A
73	09-090	99-06202A / 98-19010A
74	09-091	99-22501A / 98-19010A
75	09-092	99-22705A / 98-19010A
76	09-093	R04-200 / 98-19010A
77	09-095	WA 8066 / 98-19010A
78	09-099	97-09701A / 99-22501A
79	09-100	97-09701A / 99-22705A
80	09-101	R04-200 / 97-09701A
81	09-102	97-09701A / 5J030662-6 WSU
82	09-103	97-09701A / WA 8066
83	09-104	WA 8065 / 97-09701A
84	09-105	WA 8064 / 97-09701A
85	09-106	97-09701A / WA 8093
86	09-107	96-282A-1D / 99-22501A
87	09-108	96-282A-1D / 99-22705A
88	09-109	R04-200 / 96-282A-1D
89	09-110	96-282A-1D / 5J030662-6 WSU
90	09-111	96-282A-1D / WA 8066
91	09-112	96-282A-1D / WA 8065

92	09-115	99-06202A / 99-22501A
93	09-116	99-22705A / 99-06202A
94	09-117	R04-200 / 99-06202A
95	09-118	5J030662-6 / 99-06202A
96	09-119	WA 8066 / 99-06202A
97	09-120	WA 8065 / 99-06202A
98	09-121	WA 8064 / 99-06202A
99	09-122	WA 8093 / 99-06202A
100	09-123	99-07904A / 99-22501A
101	09-124	99-07904A / 99-22705A
102	09-125	R04-200 / 99-07904A
103	09-126	99-07904A / 5J030662-6 WSU
104	09-127	99-07904A / WA 8066
105	09-128	WA 8065 / 99-07904A
106	09-129	WA 8064 / 99-07904A
107	09-130	99-07904A / WA 8093
108	09-131	99-22705A / 99-22501A
109	09-132	R04-200 / 99-22501A
110	09-133	5J030662-6 WSU / 99-22501A
111	09-134	99-22501A / WA 8066
112	09-137	99-22501A / WA 8093
113	09-138	R04-200 / 99-22705A
114	09-139	99-22705A / 5J030662-6 WSU
115	09-140	WA 8066 / 99-22705A
116	09-141	WA 8065 / 99-22705A
117	09-142	WA 8064 / 99-22705A
118	09-143	99-22705A / WA 8093
119	09-144	R04-200 / 5J030662-6
120	09-145	R04-200 / WA 8066
121	09-146	R04-200 / WA 8065
122	09-147	R04-200 / WA 8064
123	09-148	R04-200 / WA 8093
124	09-149	98-19010A / Simon // Simon
125	09-150	97-10806A / Simon // Simon
126	09-151	R04-200 / Simon // Simon
127	09-155	R04-200 / 96-51506A // Simon
128	09-156	Simon // 98-19010A / Hubbard
129	09-157	R04-200 / Brundage 96 // Brundage 96
130	09-158	98-19010A / ID-D-05 // Brundage 96
131	09-159	R04-200 / ID-D-05 // Brundage 96
132	09-160	98-19010A / Bitterroot // Brundage 96
133	09-161	R04-200 / Bitterroot // Brundage 96
134	09-162	98-19010A / 96-09103A // Brundage 96
135	09-163	96-51506A / 98-19010A // Brundage 96
136	09-164	R04-200 / 96-51506A // Brundage 96
137	09-165	Brundage 96 // 96-282A-1D / 98-19010A
138	09-166	R04-200 / 98-19010A // Brundage 96

139	09-167	98-19010A / Hubbard // Brundage 96
140	09-168	96-282A-1D / R04-200 // Brundage 96
141	09-169	R04-200 / Simon // ID-D-05
142	09-170	98-19010A / Brundage 96 // ID-D-05
143	09-171	R04-200 / Brundage 96 // ID-D-05
144	09-173	R04-200 / ID-D-05 // ID-D-05
145	09-174	98-19010A / Bitterroot // ID-D-05
146	09-175	R04-200 / Bitterroot // ID-D-05
147	09-176	96-16702A / 98-19010A // ID-D-05
148	09-177	R04-200 / 96-16702A // ID-D-05
149	09-178	R04-200 / 98-19010A // ID-D-05
150	09-179	96-282A-1D / R04-200 // ID-D-05
151	09-180	92-16004A // 98-19010A / Simon
152	09-181	92-16004A // 97-10806A / Simon
153	09-183	98-19010A / Bitterroot // Bitterroot
154	09-184	R04-200 / Bitterroot // Bitterroot
155	09-186	96-282A-1D / 96-09103A // 96-51506A
156	09-189	R04-200 / 96-51506A // 96-51506A
157	09-192	98-19010A / ID-D-05 // 98-19010A
158	09-193	98-19010A / Bitterroot // 98-19010A
159	09-199	R04-200 / 98-19010A // 98-19010A
160	09-200	98-19010A / Hubbard // 98-19010A
161	09-201	96-282A-1D / 96-09103A // 96-282A-1D
162	09-203	96-282A-1D / R04-200 // 96-282A-1D
163	09-204	98-19010A / Simon // 99-22501A
164	09-205	99-22501A // 97-10806A / Simon
165	09-206	R04-200 / Simon // 99-22501A
166	09-207	99-22501A // 98-19010A / Bitterroot
167	09-208	99-22501A // 98-19010A / 96-09103A
168	09-209	99-22501A // 96-282A-1D / 96-09103A
169	09-210	99-22501A // 96-16702A / 98-19010A
170	09-211	R04-200 / 96-51506A // 99-22501A
171	09-212	99-22501A // 97-10806A / 98-19010A
172	09-213	R04-200 / Simon // R04-200
173	09-214	R04-200 // R04-200 / ID-D-05
174	09-215	R04-200 // R04-200 / Bitterroot
175	09-216	R04-200 // R04-200 / 96-16702A
176	09-217	R04-200 // R04-200 / 96-51506A
177	09-218	R04-200 // 97-10806A / 98-19010A
178	09-219	R04-200 // R04-200 / 98-19010A
179	09-220	R04-200 // 98-19010A / Hubbard
180	09-221	96-282A-1D / R04-200 // R04-200



UI F6

Entry #	entry
1	05-00903A
2	05-01701A
3	05-06403A
4	05-06601A
5	05-06602A
6	05-06701A
7	05-07002A
8	05-07103A
9	05-07106A
10	05-07107A
11	05-07201A
12	05-07303A
13	05-08303A
14	05-08309A
15	05-08503A
16	05-10401A
17	05-14008A
18	98-19010A
19	05-15201A
20	05-15402A
21	05-16301A
22	05-20502A
23	05-20801A
24	05-27804A
25	05-29201A
26	05-29204A
27	05-30702A
28	05-30704A
29	05-31405A
30	05-32601A
31	05-32602A
32	05-33106A
33	05-35501A
34	05-35507A
35	05-36804A
36	05-36802B
37	05-41503A
38	05-41604A
39	05-41801A
40	05-43102A
41	05-43406A
42	05-43501A
43	05-45402A
44	05-48102A

new

45 05-48106A  
46 05-48203A  
47 05-48501A  
48 05-49507A  
49 05-51301A  
50 05-51502A  
51 05-51903A  
52 05-52101A  
53 05-52501A  
54 05-52601A  
55 05-52802A  
56 05-52901A  
57 05-53101A  
58 Brundage 96  
59 Bruneau  
60 Skiles

UI F5

list #	Entry #	gp #	KOB #	1011Family LINE	pedigree	Sib#
1	1	1	1	1 06-001	Tubbs / 94-26010AD	06-00101A
2	2	1	6	2 06-002	R-316 / Tubbs	06-00203A
3	3	1	10	3 06-003	Tubbs / R-528	06-00302A
4	4	1	25	6 06-006	ORHO10085 / Tubbs	06-00605A
5	5	1	30	7 06-007	Simon / Dune 05	06-00704A
6	6	1	33	8 06-008	Simon / 96-16702A	06-00802A
7	7	1	38	9 06-009	Simon / 96-32901A	06-00904A
8	8	1	42	10 06-010	Simon / 97-01003A	06-01004A
9	9	1	45	11 06-011	Simon / 98-09101A	06-01103A
10	10	1	49	12 06-012	Simon / 98-12607B	06-01202B
11	11	1	52	13 06-013	Simon / 98-19502A	06-01302A
12	12	1	53	14 06-014	Simon / R-316	06-01401A
13	13	1	61	16 06-018	Simon / 99-00208A	06-01801A
14	14	1	67	18 06-020	Simon / 02F A-188	06-02003A
15	15	1	72	20 06-022	Simon / 02F C24	06-02203A
16	16	1	75	21 06-023	02F D-27 / Simon	06-02303A
17	17	1	77	22 06-024	Simon / 02F D-194	06-02402B
18	18	1	81	25 06-028	Simon // Skauz / Hatusha	06-02802A
19	19	1	86	26 06-029	96-16702A / Brundage 96	06-02903B
20	20	1	88	27 06-030A	96-32901A / Brundage 96	06-030A02A
21	21	1	91	29 06-031	97-01003A / Brundage 96	06-03101B
22	22	1	96	30 06-032A	98-09101A / Brundage 96	06-032A04A
23	23	1	100	31 06-032B	98-09101A / Brundage 96	06-032B02B
24	24	1	106	32 06-033	98-12607B / Brundage 96	06-03303B
25	25	1	107	33 06-035	Brundage 96 / R-316	06-03501B
26	26	1	111	34 06-036	R-454 / Brundage 96	06-03601BC
27	27	1	119	35 06-037	R-482 / Brundage 96	06-03703BC
28	28	1	124	36 06-038	R-528 / Brundage 96	06-03803A
29	29	1	125	37 06-038	R-528 / Brundage 96	06-03801B
30	30	1	130	38 06-039	99-00208A / Brundage 96	06-03904A
31	31	1	132	39 06-039	99-00208A / Brundage 96	06-03901B
32	32	1	137	40 06-040	Brundage 96 / 02F A-15	06-04002B
33	33	1	143	41 06-041	Brundage 96 / 02F A-188	06-04103B
34	34	1	147	42 06-042	Brundage 96 / 02F B-114	06-04203B
35	1	2	149	43 06-043	Brundage 96 / 02F C24	06-04302B
36	2	2	152	44 06-044	Brundage 96 / 02F D-27	06-04402A
37	3	2	156	45 06-044	Brundage 96 / 02F D-27	06-04403B
38	4	2	160	46 06-045	Brundage 96 / 02F D-194	06-04503B
39	5	2	170	47 06-046	ORHO12183 / Brundage 96	06-04609A
40	6	2	173	48 06-047	Brundage 96 / ORHO10085	06-04703A
41	7	2	176	50 06-049	Skauz / Hatusha // Brundage 96	06-04902A
42	8	2	183	52 06-051	R-482 / 96-14407C	06-05104C
43	9	2	184	53 06-052	96-16702A / 92-16004A	06-05201A
44	10	2	185	54 06-055	98-09101A / 92-16004A	06-05501A
45	11	2	186	55 06-056	92-16004A / 98-12607B	06-05601B
46	12	2	187	56 06-057	98-19502A / 92-16004A	06-05701A
47	13	2	193	57 06-058	R-316 / 92-16004A	06-05802A
48	14	2	197	58 06-059	92-16004A / R-528	06-05904A
49	15	2	206	62 06-065	92-16004A / 02F D-27	06-06502A
50	16	2	210	64 06-067	ORHO12183 / 92-16004A	06-06702A
51	17	2	212	65 06-068	ORHO10085 / 92-16004A	06-06801A
52	18	2	215	66 06-070	92-16004A // Skauz / Hatusha	06-07002A

53	19	2	220	67 06-071	Dune 05 / 92-22407A	06-07103A
54	20	2	222	68 06-072	92-22407A / 96-16702A	06-07202A
55	21	2	223	69 06-073	92-22407A / 96-32901A	06-07301A
56	22	2	225	70 06-074	92-22407A / 97-01003A	06-07401A
57	23	2	226	71 06-075	98-09101A / 92-22407A	06-07501A
58	24	2	230	72 06-076	92-22407A / 98-12607B	06-07601B
59	25	2	232	73 06-077	92-22407A / 98-19502A	06-07702A
60	26	2	234	74 06-078	R-316 / 92-22407A	06-07801A
61	27	2	238	75 06-079	92-22407A / R-528	06-07902A
62	28	2	241	76 06-080	92-22407A / 99-00208A	06-08002A
63	29	2	243	77 06-081	02F A-15 / 92-22407A	06-08102B
64	30	2	246	78 06-082	02F A-188 / 92-22407A	06-08203A
65	31	2	248	79 06-083	02F B-114 / 92-22407A	06-08301A
66	32	2	253	80 06-085	92-22407A / 02F D-27	06-08502A
67	33	2	257	81 06-086	02F D-194 / 92-22407A	06-08603A
68	34	2	260	82 06-087	ORHO12183 / 92-22407A	06-08702A
69	1	3	262	83 06-088	ORHO10085 / 92-22407A	06-08802A
70	2	3	271	86 06-092	93-64901A / 96-16702A	06-09201A
71	3	3	273	87 06-093	96-32901A / 93-64901A	06-09302A
72	4	3	275	88 06-094	97-01003A / 93-64901A	06-09401A
73	5	3	282	90 06-096	98-12607B / 93-64901A	06-09603B
74	6	3	283	91 06-097	93-64901A / 98-19502A	06-09701A
75	7	3	288	92 06-099	93-64901A / R-528	06-09902A
76	8	3	292	94 06-101	02F A-15 / 93-64901A	06-10101B
77	9	3	294	95 06-102	02F A-188 / 93-64901A	06-10201A
78	10	3	297	96 06-103	02F B-114 / 93-64901A	06-10302A
79	11	3	300	97 06-104	93-64901A / 02F C24	06-10401A
80	12	3	309	99 06-107	93-64901A / ORHO12183	06-10704A
81	13	3	314	100 06-108	ORHO10085 / 93-64901A	06-10804A
82	14	3	316	101 06-109	95-35802-o / 93-64901A	06-10901A
83	15	3	318	102 06-113	94-32505A / 96-32901A	06-11301A
84	16	3	319	103 06-114	94-32505A / 97-01003A	06-11401A
85	17	3	323	104 06-115	98-09101A / 94-32505A	06-11503A
86	18	3	324	105 06-116	98-12607B / 94-32505A	06-11601B
87	19	3	327	106 06-117	94-32505A / 98-19502A	06-11702A
88	20	3	339	111 06-123	02F B-114 / 94-32505A	06-12303A
89	21	3	340	112 06-125	94-32505A / 02F D-27	06-12501A
90	22	3	346	113 06-127	ORHO12183 / 94-32505A	06-12703A
91	23	3	347	114 06-128	ORHO10085 / 94-32505A	06-12801A
92	24	3	350	115 06-130	94-32505A // Skauz / Hatusha	06-13002A
93	25	3	351	116 06-134	95-32807A / 98-09101A	06-13401A
94	26	3	365	124 06-144	95-32807A / 02F D-27	06-14402A
95	27	3	367	125 06-145	95-32807A / 02F D-194	06-14501B
96	28	3	369	126 06-146	95-32807A / ORHO12183	06-14601A
97	29	3	372	127 06-147	95-32807A / ORHO10085	06-14703A
98	30	3	381	131 06-153	98-09101A / 94-10902A	06-15303A
99	31	3	385	132 06-154	98-12607B / 94-10902A	06-15401B
100	32	3	387	133 06-155	94-10902A / 98-19502A	06-15502A
101	33	3	390	134 06-156	R-316 / 94-10902A	06-15601A
102	34	3	392	135 06-157	94-10902A / R-528	06-15702A
103	1	4	394	136 06-158	94-10902A / 99-00208A	06-15801A
104	2	4	399	137 06-161	94-10902A / 02F B-114	06-16102A
105	3	4	401	138 06-164	94-10902A / 02F D-194	06-16401B
106	4	4	411	141 06-175	R-316 / 95-40401A	06-17502A
107	5	4	417	142 06-176	R-528 / 95-40401A	06-17604A

1

**ATTACHMENT 1**

108	6	4	419	143 06-180	95-40401A / 02F B-114	06-18002A
109	7	4	423	144 06-181	95-40401A / 02F C24	06-18102A
110	8	4	428	145 06-182	95-40401A / 02F D-27	06-18204A
111	9	4	432	146 06-184	ORHO12183 / 95-40401A	06-18402A
112	10	4	443	150 06-190	94-26010AD / 97-01003A	06-19002A
113	11	4	446	151 06-191	98-09101A / 94-26010AD	06-19103A
114	12	4	450	152 06-193	98-19502A / 94-26010AD	06-19302A
115	13	4	453	153 06-194	R-316 / 94-26010AD	06-19402B
116	14	4	457	154 06-195	94-26010AD / R-528	06-19504A
117	15	4	459	155 06-196	99-00208A / 94-26010AD	06-19601A
118	16	4	463	156 06-197	94-26010AD / 02F A-15	06-19704B
119	17	4	464	157 06-199	94-26010AD / 02F B-114	06-19901A
120	18	4	468	158 06-201	02F D-27 / 94-26010AD	06-20103A
121	19	4	470	160 06-203	ORHO12183 / 94-26010AD	06-20301A
122	20	4	479	162 06-207	96-09103A / Dune 05	06-20705A
123	21	4	485	164 06-212	96-09103A / 98-12607B	06-21202B
124	22	4	486	165 06-213	98-19502A / 96-09103A	06-21301A
125	23	4	488	166 06-214	96-09103A / R-528	06-21401A
126	24	4	490	166 06-214	96-09103A / R-528	06-21403A
127	25	4	496	169 06-220	96-09103A / 02F D-27	06-22004A
128	26	4	504	172 06-224	97-01003A / 96-16702A	06-22402A
129	27	4	507	173 06-225	96-16702A / 98-09101A	06-22502A
130	28	4	508	174 06-226	98-12607B / 96-16702A	06-22601B
131	29	4	512	175 06-227	98-19502A / 96-16702A	06-22703A
132	30	4	513	176 06-228	96-16702A / R-316	06-22801B
133	31	4	517	178 06-231	02F A-15 / 96-16702A	06-23103A
134	32	4	529	184 06-240	98-12607B / 96-32901A	06-24001B
135	33	4	534	185 06-241	98-19502A / 96-32901A	06-24102A
136	34	4	535	186 06-242	R-316 / 96-32901A	06-24201A
137	1	5	536	187 06-243	96-32901A / R-528	06-24301A
138	2	5	542	189 06-245	96-32901A / 02F A-15	06-24502B
139	3	5	546	190 06-246	96-32901A / 02F A-188	06-24604B
140	4	5	552	193 06-249	02F D-27 / 96-32901A	06-24901A
141	5	5	555	194 06-250	96-32901A / 02F D-194	06-25002B
142	6	5	557	195 06-251	95-35802-o / 96-32901A	06-25102A
143	7	5	558	196 06-253	97-01003A / 98-12607B	06-25301B
144	8	5	562	197 06-254	97-01003A / 98-19502A	06-25402A
145	9	5	567	199 06-256	R-454 / 97-01003A	06-25603AC
146	10	5	569	200 06-257	R-482 / 97-01003A	06-25702BC
147	11	5	570	200 06-257	R-482 / 97-01003A	06-25703BC
148	12	5	579	204 06-261	97-01003A / 02F A-15	06-26101B
149	13	5	584	206 06-263	97-01003A / 02F B-114	06-26301A
150	14	5	586	206 06-263	97-01003A / 02F B-114	06-26303A
151	15	5	590	208 06-265	97-01003A / 02F D-27	06-26502A
152	16	5	593	209 06-266	97-01003A / 02F D-194	06-26602B
153	17	5	597	210 06-268	98-09101A / 98-12607B	06-26803B
154	18	5	598	211 06-269	98-19502A / 98-09101A	06-26901A
155	19	5	601	212 06-270	R-316 / 98-09101A	06-27003B
156	20	5	604	213 06-271	R-528 / 98-09101A	06-27103A
157	21	5	609	215 06-273	98-09101A / Claire	06-27301B
158	22	5	612	216 06-274	98-09101A / 02F A-15	06-27403B
159	23	5	613	217 06-275	02F A-188 / 98-09101A	06-27501B
160	24	5	616	218 06-276	98-09101A / 02F B-114	06-27603A
161	25	5	619	219 06-278	02F D-27 / 98-09101A	06-27803A
162	26	5	620	220 06-279	02F D-194 / 98-09101A	06-27901B

# ATTACHMENT 1

163	27	5	624	221 06-281A	98-12607B / 98-19502A	06-281A03A
164	28	5	625	222 06-281B	98-12607B / 98-19502A	06-281B01B
165	29	5	627	224 06-283	98-12607B / R-528	06-28301B
166	30	5	631	225 06-284	99-00208A / 98-12607B	06-28403B
167	31	5	633	226 06-285	98-12607B / Claire	06-28502B
168	32	5	636	227 06-286	98-12607B / 02F A-15	06-28603B
169	33	5	637	228 06-287	98-12607B / 02F A-188	06-28701B
170	34	5	640	229 06-288	02F B-114 / 98-12607B	06-28801A
171	1	6	643	230 06-288	02F B-114 / 98-12607B	06-28801B
172	2	6	646	231 06-289	02F C24 / 98-12607B	06-28902B
173	3	6	649	232 06-290A	98-12607B / 02F D-27	06-290A02A
174	4	6	652	233 06-290B	98-12607B / 02F D-27	06-290B02B
175	5	6	655	234 06-291	02F D-194 / 98-12607B	06-29102B
176	6	6	657	235 06-292	98-19502A / R-316	06-29201A
177	7	6	661	236 06-293	98-19502A / R-528	06-29302A
178	8	6	663	237 06-294	98-19502A / Claire	06-29402A
179	9	6	667	238 06-295	98-19502A / 02F A-15	06-29501B
180	10	6	669	239 06-296	98-19502A / 02F A-188	06-29601B
181	11	6	671	240 06-297	98-19502A / 02F B-114	06-29701A
182	12	6	675	241 06-299	02F D-27 / 98-19502A	06-29902A
183	13	6	678	242 06-300	02F D-194 / 98-19502A	06-30002B
184	14	6	682	245 06-304	99-00208A / 02F B-114	06-30401A
185	15	6	684	246 06-306	99-00208A / 02F D-27	06-30601A
186	16	6	687	248 06-309	99-00208A / ORHO10085	06-30901A
187	17	6	692	252 06-315	Claire / 02F C24	06-31502A
188	18	6	693	253 06-315	Claire / 02F C24	06-31501B
189	19	6	694	254 06-316	02F D-27 / Claire	06-31601A
190	20	6	697	257 06-319	Claire / ORHO10085	06-31901A
191	21	6	698	258 06-321	Claire // Skauz / Hatusha	06-32101B
192	22	6	699	259 06-323	95-35802-o / ORHO10085	06-32301A
193	23	6	705	262 06-327	Istabraq / Simon // Simon	06-32702A
194	24	6	708	264 06-330	Claire / 92-22407A // Simon	06-33002A
195	25	6	711	265 06-332	92-22407A / J99C0009 // Simon	06-33203A
196	26	6	713	266 06-333	92-22407A / W1-3 (OSU) // Simor	06-33301A
197	27	6	716	267 06-334	93-19804A / Claire // Simon	06-33402A
198	28	6	719	268 06-335	93-19804A / J99C0009 // Simon	06-33501A
199	29	6	721	269 06-336	93-19804A / 25R26 // Simon	06-33601A
200	30	6	725	270 06-337	93-19804A / Istabraq // Simon	06-33704A
201	31	6	727	271 06-338	Simon // 93-19804A / W1-3 (OSU)	06-33802A
202	32	6	731	272 06-339	93-64901A / Claire // Simon	06-33903A
203	33	6	734	273 06-340	100 Nickerson / 93-64901A // Sirr	06-34003A
204	34	6	737	274 06-341	Simon // 93-64901A / J99C0009	06-34101A
205	1	7	739	275 06-342	94-32505A / Claire // Simon	06-34201A
206	2	7	742	276 06-343	94-32505A / 98 Nickerson // Simc	06-34302A
207	3	7	746	277 06-344	J99C0009 / 94-32505A // Simon	06-34402A
208	4	7	749	278 06-345	Simon // 95-32807A / Claire	06-34503A
209	5	7	754	279 06-346	94-10902A / Claire // Simon	06-34602B
210	6	7	756	280 06-347	94-10902A / 98 Nickerson // Simc	06-34701A
211	7	7	758	281 06-349	Claire / 94-23607AD // Simon	06-34901A
212	8	7	764	283 06-354	J99C0009 / 95-40401A // Simon	06-35401A
213	9	7	766	284 06-355	Simon // 94-26010AD / Claire	06-35502A
214	10	7	771	285 06-355	Simon // 94-26010AD / Claire	06-35502B
215	11	7	774	286 06-356	96-09103A / 02-CAMR5 // Simon	06-35601A
216	12	7	777	288 06-359	96-09103A / W1-7 (OSU) // Simor	06-35902A
217	13	7	778	289 06-363	97-01001A / Claire // Simon	06-36301A

**ATTACHMENT 1**

218	14	7	782	290 06-364	97-06106A / Claire // Simon	06-36403A
219	15	7	786	291 06-365	Claire / 97-07203A // Simon	06-36502A
220	16	7	787	292 06-368	98 Nickerson / 97-01001A // Simc	06-36801A
221	17	7	792	293 06-369	97-06106A / 98 Nickerson // Simc	06-36904A
222	18	7	793	294 06-370	Simon // 97-07203A / 98 Nickersc	06-37001A
223	19	7	796	295 06-373	Brundage 96 / 02-CAMR5 // Brun	06-37303B
224	20	7	798	296 06-374	25R26 / Brundage 96 // Brundage	06-37401B
225	21	7	799	297 06-375	Istabraq / Brundage 96 // Brunda	06-37501B
226	22	7	801	298 06-377	Brundage 96 // 25R26 / Dune	06-37701B
227	23	7	805	299 06-378	Dune / Istabraq // Brundage 96	06-37803B
228	24	7	807	300 06-379	W1-3 (OSU) / Dune // Brundage 9	06-37902B
229	25	7	820	306 06-388	100 Nickerson / 99-03403C // 96-	06-38803CA
230	26	7	826	308 06-391	Claire / 92-22407A // 92-22407A	06-39101A
231	27	7	828	309 06-392	92-22407A / 98-Nickerson // 92-2	06-39201A
232	28	7	832	312 06-395	92-22407A // 92-22407A / W1-3	(06-39501A
233	29	7	834	313 06-396	93-64901A // 93-64901A / Claire	06-39601A
234	30	7	836	314 06-396	93-64901A // 93-64901A / Claire	06-39601B
235	31	7	837	315 06-397	93-64901A // 98 Nickerson / 93-6	06-39701A
236	32	7	840	316 06-398	93-64901A / J99C0009 // 93-649	06-39801A
237	33	7	844	317 06-399	93-64901A / 25R26 // 93-64901A	06-39901A
238	34	7	849	319 06-401	94-32505A // 94-32505A / Claire	06-40102A
239	1	8	852	320 06-402	94-32505A // 94-32505A / 98 Nicl	06-40203A
240	2	8	855	321 06-403	J99C0009 / 94-32505A // 94-325	06-40301A
241	3	8	856	322 06-405	94-32505A // 94-32505A / 25R26	06-40501A
242	4	8	857	323 06-408	95-32807A // 98 Nickerson / 95-3	06-40801A
243	5	8	861	324 06-409	95-32807A // 95-32807A / J99C0	06-40901A
244	6	8	864	325 06-411	94-10902A / Claire // 94-10902A	06-41102A
245	7	8	865	326 06-412	94-10902A / 98 Nickerson // 94-1	06-41201A
246	8	8	869	327 06-413	94-10902A / J99C0009 // 94-109	06-41301A
247	9	8	872	328 06-415	94-10902A / W1-3 (OSU) // 94-10	06-41502A
248	10	8	877	332 06-420	94-26010AD / Claire // 94-26010	06-42001B
249	11	8	880	333 06-421	94-26010AD // 98 Nickerson / 94-	06-42103A
250	12	8	882	334 06-422	94-26010AD // 94-26010AD / 02-	06-42201A
251	13	8	884	336 06-425	96-09103A / Istabraq // 96-09103	06-42501A
252	14	8	887	338 06-427	96-09103A // 96-09103A / W1-16	06-42702A
253	15	8	890	339 06-428	Claire / Hiller // R-454	06-42803CB
254	16	8	893	340 06-430	99-03403C / 96-53804C // R-454	06-43003CA
255	17	8	895	341 06-431	Claire / 96-53804C // R-454	06-43102CA
256	18	8	897	342 06-432	R-454 // 98 Nickerson / 96-53804	06-43201CA
257	19	8	899	343 06-433	99-03403C / 96-14407C // R-454	06-43301CA
258	20	8	901	344 06-434	R-454 // 98 Nickerson / 99-03403	06-43402CB
259	21	8	906	348 06-439	R-482 // 98 Nickerson / 96-53804	06-43901CB
260	22	8	911	351 06-442	99-03403C / J99C0009 // R-482	06-44204CB
261	23	8	912	352 06-446	92-22407A / J99C0009 // Dune 05	06-44601A
262	24	8	915	353 06-447	Dune 05 // Istabraq / 92-22407A	06-44701A
263	25	8	918	356 06-450	Dune 05 // 93-19804A / Istabraq	06-45001B
264	26	8	922	357 06-452	93-64901A / Claire // Dune 05	06-45203A
265	27	8	923	358 06-453	Dune 05 // 98 Nickerson / 93-649	06-45301A
266	28	8	934	362 06-458	Dune 05 // 94-32505A / 98 Nicke	06-45802A
267	29	8	938	363 06-459	J99C0009 / 94-32505A // Dune 05	06-45902A
268	30	8	943	366 06-463	Dune 05 // 98 Nickerson / 94-236	06-46302A
269	31	8	945	367 07-047	92-16004A / 98-09602A	07-04702A
270	32	8	949	368 07-160	Simon /// 92-16004A // Skauz / Hat	07-16003A
271	33	8	953	369 07-214	Simon // Claire / 99-00208A	07-21404A
272	34	8	956	370 07-247	Claire / 99-00208A // Brundage 96	07-24703B

UI F4 from '08 cross		
plot #	pedigree	Total cups
1 08-004	98-19502A / Simon	60
2 08-007	97-10806A / Simon	60
3 08-008	Simon / 98-19504B	60
4 08-010	R04-200 / Simon	60
5 08-011	Simon / ORHO10927	59
6 08-012	Simon / ORHO40728	59
7 08-014	96-51506A/ Brundage 96	60
8 08-016	98-19504B / Brundage 96	60
9 08-017	96-282A-1D / Brundage 96	60
10 08-018	R04-200 / Brundage 96	48
11 08-019	ORHO10927 / Brundage 96	60
12 08-026	ID-D-05 / 98-19504B	48
13 08-028	R04-200 / ID-D-05	60
14 08-032	98-19010A / Bitterroot	60
15 08-033	R04-200 / Bitterroot	60
16 08-035	ORHO40728 / Bitterroot	60
17 08-036	ORHO20651 / Bitterroot	60
18 08-037	93-64901A / 96-51506A	60
19 08-038	98-19010A / 93-64901A	60
20 08-039	R04-200 / 93-64901A	60
21 08-040	ORHO10927 / 93-64901A	60
22 08-041	93-64901A / ORHO40728	60
23 08-042	ORHO20651 / 93-64901A	60
24 08-045	R04-200 / 96-09103A	60
25 08-047	ORHO40728 / 96-09103A	60
26 08-048	ORHO20651 / 96-09103A	59
27 08-051	96-282A-1D / 96-16702A	60
28 08-052	R04-200 / 96-16702A	60
29 08-053	ORHO10927 / 96-16702A	60
30 08-054	ORHO40728 / 96-16702A	60
31 08-055	ORHO20651 / 96-16702A	60
32 08-058	97-10806A / 96-51506A	60
33 08-065	98-19502A / 97-10806A	60
34 08-066	96-282A-1D / 98-19502A	60
35 08-067	R04-200 / 98-19502A	60
36 08-069	ORHO40728 / 98-19502A	60
37 08-070	ORHO20651 / 98-19502A	60
38 08-072	98-15306A / 97-10806A	60
39 08-073	98-15306A / 98-19504B	60
40 08-073	98-15306A / 98-19504B	60
41 08-077	ORHO40728 / 98-15306A	60
42 08-080	98-19504B / 98-19010A	60
43 08-087	97-10806A / 98-19504B	60
44 08-088	96-282A-1D / 97-10806A	59
45 08-089	R04-200 / 97-10806A	57



46 08-091	ORHO40728 / 97-10806A	51
47 08-093	R04-200 / 98-19504B	60
48 08-094	96-282A-1D / R04-200	60
49 08-095	96-282A-1D / ORHO10927	60
50 08-096	96-282A-1D / ORHO40728	60
51 08-097	ORHO10927 / R04-200	41
52 08-098	R04-200 / ORHO40728	48
53 08-099	R04-200 / ORHO20651	42
54 08-100	98-19010A / Simon // ID-D-05 /	60
55 08-101	Tubbs 06/ Simon // 98-19010A /	59
56 08-107	98-19010A / Simon // Simon	60
57 08-109	Simon // Brundage 96 / ORHO10	60
58 08-111	Simon // ID-D-05 / ORHO10920	60
59 08-112	Simon // ID-D-05 / 02F B-114	60
60 08-113	98-15306A / 92-16004A // Simo	60
61 08-115	92-16004A / ORHO10920 // Sim	60
62 08-117	92-22407A / 98-19010A // Simo	60
63 08-118	92-22407A / ORHO10920 // Sim	60
64 08-119	98-15306A / 93-64901A // Simo	60
65 08-120	Simon // 93-64901A / 98-19010.	60
66 08-121	Simon // 93-64901A / ORHO109	60
67 08-124	Simon // 94-32505A / ORHO109	60
68 08-129	Simon // 95-40401A / 98-15306.	59
69 08-130	95-40401A / 98-19010A // Simo	36
70 08-131	98-15306A / 96-51506A // Simo	60
71 08-133	Simon // 98-19010A / 98-15306.	60
72 08-135	Simon // 98-15306A / ORHO100	47
73 08-139	98-19010A / 02F C24 // Simon	47
74 08-140	Tubbs 06 / ID-D-05 // Brundage	60
75 08-141	Brundage 96 / ORHO10920 // Br	60
76 08-143	Tubbs 06 / Simon // ID-D-05	60
77 08-149	92-16004A / ORHO10920 // ID-D	60
78 08-150	92-16004A / ORHO10920 // Bitt	60
79 08-151	92-22407A / 98-15306A // Bitter	48
80 08-152	92-22407A / 98-19010A // Bitter	60
81 08-153	92-22407A / ORHO10920 // Bitt	60
82 08-157	93-64901A / 98-19010A // 93-64	60
83 08-158	93-64901A / ORHO10920 // 93-64	60
84 08-159	92-22407A / 98-19010A // 96-09	48
85 08-160	96-09103A // 92-22407A / ORHO	44
86 08-167	96-15306A / Simon // 98-15306.	60
87 08-168	98-15306A / ID-D-05 // 98-1530	60
88 08-170	98-15306A / 93-64901A // 98-15	38
89 08-177	98-15306A / ORHO10920 // 98-15	49
90 08-178	98-15306A / ORHO10085 // 98-15	39
91 08-191	98-19010A // 98-15306A / 93-64	60
92 08-193	98-19010A // 93-64901A / ORHO	60

93	08-209	98-19504B // 98-19010A / Brundage 96 / ORI	60
94	08-210	98-19504B // Brundage 96 / ORI	60
95	08-213	R04-200 // 96-282A-1D / Tubbs	60
96	08-214	R04-200 // 98-15306A / Simon	48
97	08-235	R04-200 // 98-19010A / ORHO101	47
98	08-216	R04-200 // Brundage 96 / ORHO	60
99	08-216	R04-200 // Brundage 96 / ORHO	60
100	08-217	R04-200 // ID-D-05 / 02F B-114	60
101	08-218	R04-200 // 98-15306A / 92-1600	60
102	08-220	R04-200 // 92-22407A / 98-15306A	58
103	08-221	R04-200 // 92-22407A / ORHO101	60
104	08-223	R04-200 // 94-32505A / 98-15306A	48
105	08-226	R04-200 // 95-32807A / 98-15306A	31
106	08-227	R04-200 // 95-32807A / 98-19010A	39
107	08-228	R04-200 // 94-10902A / 96-51506A	48
108	08-229	R04-200 // 94-10902A / 98-15306A	41
109	08-230	96-282A-1D / 95-40401A // R04-200	60
110	08-231	98-15306A / 96-51506A // R04-200	60
111	08-232	R04-200 // 98-19010A / 98-15306A	60
112	08-233	R04-200 // 98-15306A / ORHO101	52
113	08-234	R04-200 // 98-15306A / ORHO101	54

UI F4 from '07 cross			
Line #	pedigree	Head	Total cups
07 cross			
1	07-006 Tubbs 06 / 93-64901A	A	48
2	07-007 Tubbs 06 / 94-32505A	A	32
3	07-015 Tubbs 06 / 98-09101A	A	48
4	07-018 Tubbs 06 / 98-09602A	A	48
5	07-023 Simon / 98-09602A	A	48
6	07-027 98-15306A / Brundage 96	A	54 ????
7	07-027 98-15306A / Brundage 96	B	54 ????
8	07-029 Brundage 96 / 98-09602A	A	24
9	07-029 Brundage 96 / 98-09602A	B	42
10	07-031 Brundage 96 / ORHO10920	A	54
11	07-031 Brundage 96 / ORHO10920	B	60
12	07-037 96-16702A / ID-D-05	A	36
13	07-048 96-282A-1D / 92-16004A	A	24
14	07-050 92-22407A / 96-51506A	A	24
15	07-051 92-22407A / 98-15306A	A	24
16	07-053 92-22407A / 98-09602A	A	24
17	07-054 96-282A-1D / 92-22407A	A	24
18	07-057 98-15306A / 93-64901A	A	48
19	07-059 93-64901A / 98-09602A	A	48
20	07-061 93-64901A / ORHO10920	A	48
21	07-062 94-32505A / 96-51506A	A	24
22	07-063 94-32505A / 98-15306A	A	24
23	07-065 94-32505A / 98-09602A	A	24
24	07-067 94-32505A / ORHO10920	A	24
25	07-077 94-10902A / 98-09602A	A	24
26	07-078 96-282A-1D / 94-10902A	A	36
27	07-079 94-10902A / ORHO10920	A	48
28	07-091 94-26010AD / ORHO10920	A	48
29	07-049 92-16004A / ORHO10920	A	54
30	07-093 96-16702A / 96-51506A	A	54
31	07-094 98-15306A / 96-16702A	A	48
32	07-095 98-19010A / 96-16702A	A	54
33	07-096 98-09602A / 96-16702A	A	48
34	07-098 ORHO10920 / 96-16702A	A	24
35	07-101 98-09602A / 96-51506A	A	24
36	07-104 96-51506A / ORHO10085	A	60
37	07-107 98-19502A / 98-15306A	A	24
38	07-108 98-19010A / 98-19502A	A	54
39	07-109 98-09602A / 98-19502A	A	24
40	07-110 96-282A-1D / 98-19502A	A	24
41	07-111 ORHO10920 / 98-19502A	A	48
42	07-112 02F B-114 / 98-19502A	A	48
43	07-114 98-15306A / 98-09101A	A	24
44	07-116 98-09602A / 98-09101A	A	30

45	07-117	96-282A-1D / 98-09101A	A	24
46	07-118	98-09101A / ORHO10920	A	48
47	07-120	98-15306A / 98-09602A	A	30
48	07-122	98-15306A / ORHO10920	A	30
49	07-123	98-15306A / ORHO10085	A	54
50	07-124	98-15306A / 02F B-114	A	48
51	07-130	98-19010A / 02F B-114	A	48
52	07-092	96-09103A / 96-51506A	A	24
53	07-133	98-09602A / ORHO10920	A	48
54	07-137	96-282A-1D / ORHO10920	A	48
55	07-138	96-282A-1D / ORHO10085	A	48
56	07-141	ORHO10920 / 02F B-114	A	54
57	07-143	02F B-114 / ORHO10085	A	54
58	07-145	Tubbs // Brundage 96 / 02F D-27	A	48
59	07-146	Tubbs // 02F D-194 / 98-19502A	A	48
60	<b>07-147</b>	<b>Simon // Simon / 02F A-15</b>	<b>A</b>	48
61	07-148	Simon // Simon / 02F A-188	A	48
62	07-149	Simon // 02F D-27 / Simon	A	54
63	07-150	Simon // Simon / 02F D-194	A	48
64	<b>07-152</b>	<b>Simon // Brundage 96 / 02F A-15</b>	<b>A</b>	48
65	07-152	Simon // Brundage 96 / 02F A-15	B	24
66	07-153	Simon // Brundage 96 / 02F A-188	A	48
67	07-153	Simon // Brundage 96 / 02F A-188	B	24
68	07-154	Simon // Brundage 96 / 02F D-27	A	24
69	<b>07-154</b>	<b>Simon // Brundage 96 / 02F D-27</b>	<b>B</b>	48
70	07-156	Simon // 92-16004A / 02F A-15	A	24
71	07-158	Simon // 92-16004A / 02F D-27	A	24
72	07-159	Simon // 02F D-194 / 92-16004A	A	24
73	07-159	Simon // 02F D-194 / 92-16004A	B	30
74	07-132	96-282A-1D / 98-09602A	A	48
75	07-163	Simon // 92-22407A / 02F D-27	A	48
76	07-164	Simon // 02F D-194 / 92-22407A	A	42
77	07-165	Skauz / Hatusha // 92-22407A /// Sim	A	48
78	07-166	Simon // 02F A-15 / 93-64901A	A	48
79	07-166	Simon // 02F A-15 / 93-64901A	B	24
80	07-167	Simon // 02F A-188 / 93-64901A	A	48
81	07-167	Simon // 02F A-188 / 93-64901A	B	30
82	<b>07-168</b>	<b>Simon // 02F D-27 / 93-64901A</b>	<b>A</b>	48
83	07-170	Simon /// Skauz / Hatusha // 93-64901A	A	48
84	07-171	Simon // 02F A-15 / 94-32505A	A	48
85	<b>07-173</b>	<b>Simon // 94-32505A / 02F D-27</b>	<b>A</b>	48
86	07-174	Simon // 94-32505A / 02F D-194	A	24
87	07-175	Simon /// 94-32505A // Skauz / Hatu:A	A	36
88	07-176	Simon // 95-32807A / 02F A-15	A	48
89	07-177	95-32807A / 02F A-188 // Simon	A	48
90	07-178	Simon // 95-32807A / 02F D-27	A	48
91	07-182	Simon // 02F A-188 / 94-10902A	A	24

92	07-183	02F D-27 / 94-10902A // Simon	A	24
93	07-187	Simon // 95-40401A / 02F A-188	A	30
94	07-193	02F D-27 / 94-26010AD // Simon	A	48
95	07-196	Simon // 96-09103A / 02F A-188	B	24
96	07-198	Simon // 02F D-194 / 96-09103A	A	48
97	07-198	Simon // 02F D-194 / 96-09103A	B	24
98	07-162	Simon // 02F A-188 / 92-22407A	A	48
99	07-199	02F A-15 / 96-16702A // Simon	B	24
100	07-200	Simon // 96-16702A / 02F A-188	B	24
101	07-201	Simon // 02F D-27 / 96-16702A	A	48
102	07-202	Simon // 96-16702A / 02F D-194	A	54
103	07-202	Simon // 96-16702A / 02F D-194	B	24
104	07-205	98-09101A / 02F A-15 // Simon	A	48
105	07-205	98-09101A / 02F A-15 // Simon	B	24
106	<b>07-206</b>	<b>Simon // 02F D-27 / 98-09101A</b>	<b>A</b>	48
107	07-207	Simon // 02F D-194 / 98-09101A	A	48
108	07-209	Simon // 98-19502A / Claire	A	48
109	07-210	98-19502A / 02F A-15 // Simon	A	30
110	07-210	98-19502A / 02F A-15 // Simon	B	24
111	07-211	Simon // 98-19502A / 02F A-188	A	24
112	07-212	Simon // 02F D-27 / 98-19502A	A	48
113	07-213	Simon // 02F D-194 / 98-19502A	A	48
114	07-213	Simon // 02F D-194 / 98-19502A	B	24
115	07-214	Simon// Claire/ 99-00208A	B	36
116	07-216	02F A-188 / Claire // Simon	A	24
117	07-217	Simon // Claire / 02F B-114	A	36
118	07-217	Simon // Claire / 02F B-114	B	24
119	07-220	Claire / 02F D-194 // Simon	A	36
120	07-220	Claire / 02F D-194 // Simon	B	30
121	07-226	Brundage 96 / 02F A-15 // Brundage	B	54
122	07-228	Brundage 96 / 02F D-27 // Brundage	B	54
123	07-199	02F A-15 / 96-16702A // Simon	A	24
124	07-230	Brundage 96 // 92-16004A // Skauz /	B	54
125	07-231	Brundage 96 /// Skauz / Hatusha // 9	A	54
126	07-231	Brundage 96 /// Skauz / Hatusha // 9	B	24
127	07-232	Skauz / Hatusha // 93-64901A /// Bru	A	48
128	<b>07-232</b>	<b>Skauz / Hatusha // 93-64901A /// Bru</b>	<b>B</b>	54
129	07-233	94-32505A // Skauz / Hatusha /// Bru	A	54
130	07-233	94-32505A // Skauz / Hatusha /// Bru	B	48
131	07-237	Brundage 96 /// 94-26010AD // Skau:	A	48
132	07-237	Brundage 96 /// 94-26010AD // Skau:	B	54
133	07-238	96-09103A / 02F A-15 // Brundage 96	A	54
134	07-239	96-09103A / 02F A-188 // Brundage	B	48
135	07-240	96-09103A / 02F D-27 // Brundage 96	A	48
136	07-240	96-09103A / 02F D-27 // Brundage 96	B	54
137	<b>07-241</b>	<b>02F D-194 / 96-09103A // Brundage</b>	<b>A</b>	54
138	07-241	02F D-194 / 96-09103A // Brundage	B	24

139	07-242	Brundage 96 // 97-01003A / Claire	A	24
140	07-242	Brundage 96 // 97-01003A / Claire	B	15
141	07-245	Brundage 96 // 98-19502A / Claire	A	48
142	07-245	Brundage 96 // 98-19502A / Claire	B	48
143	07-248	Brundage 96 /// 99-00208A // Skauz , A		54
144	07-249	Claire // Skauz / Hatusha /// Brundag	B	24
145	07-255	02F D-194 / 96-09103A // ID-D-05	A	48
146	07-259	98-19502A / 02F A-15 // ID-D-05	A	54
147	07-229	Brundage 96 / 02F D-194 // Brundage	B	42
148	07-264	Simon / 02F A-188 // 92-16004A	A	48
149	07-266	92-16004A // Simon / 02F D-194	A	48
150	07-268	Brundage 96 / 02F A-15 // 92-16004A	A	48
151	07-268	Brundage 96 / 02F A-15 // 92-16004A	B	30
152	07-269	92-16004A // Brundage 96 / 02F A-15	A	54
153	07-270	Brundage 96 / 02F D-27 // 92-16004A	A	48
154	07-271	92-16004A // Brundage 96 / 02F D-194	A	24
155	<b>07-271</b>	<b>92-16004A // Brundage 96 / 02F D-194</b>	<b>B</b>	42
156	07-272	92-16004A / 02F A-15 // 92-16004A	A	30
157	07-273	92-16004A / 02F A-188 // 92-16004A	A	24
158	07-273	92-16004A / 02F A-188 // 92-16004A	B	24
159	07-274	92-16004A / 02F D-27 // 92-16004A	A	30
160	07-276	92-16004A // Skauz / Hatusha /// 92- A		30
161	07-278	02F A-188 / 92-22407A // 92-16004A	A	48
162	07-278	02F A-188 / 92-22407A // 92-16004A	B	24
163	07-279	92-16004A // 92-22407A / 02F D-27	A	54
164	<b>07-280</b>	<b>92-16004A // 02F D-194 / 92-22407A</b>	<b>A</b>	54
165	<b>07-280</b>	<b>92-16004A // 02F D-194 / 92-22407A</b>	<b>B</b>	48
166	07-281	92-16004A // 02F A-15 / 93-64901A	A	24
167	07-282	02F D-27 / 93-64901A // 92-16004A	A	30
168	07-284	92-16004A // 02F A-15 / 94-32505A	A	54
169	07-285	02F A-188 / 94-32505A // 92-16004A	A	24
170	07-286	92-16004A // 94-32505A / 02F D-27	A	24
171	07-287	92-16004A // 94-32505A / 02F D-194	A	30
172	07-288	95-32807A / 02F A-15 // 92-16004A	A	54
173	07-291	94-10902A / 02F A-15 // 92-16004A	A	24
174	07-292	92-16004A // 02F A-188 / 94-10902A	A	24
175	07-293	02F D-27 / 94-10902A // 92-16004A	A	54
176	07-294	92-16004A // 94-10902A / 02F D-194	A	54
177	07-294	92-16004A // 94-10902A / 02F D-194	B	24
178	07-299	92-16004A // 94-26010AD / 02F A-15	A	24
179	07-301	92-16004A // 02F D-27 / 94-26010AD	A	30
180	07-303	92-16004A // 02F A-15 / 96-16702A	A	30
181	07-306	92-16004A // 96-16702A / 02F D-194	A	48
182	07-307	92-16004A // 97-01003A / Claire	A	24
183	07-309	92-16004A // 98-09101A / 02F A-15	A	30
184	<b>07-311</b>	<b>92-16004A // 02F D-27 / 98-09101A</b>	<b>A</b>	54
185	07-314	92-16004A // 98-19502A / Claire	A	48

186	07-316	92-16004A // 98-19502A / 02F A-188 A	24
187	07-319	Claire / 99-00208A // 92-16004A A	42
188	07-321	02F A-188 / Claire // 92-16004A B	30
189	07-329	Claire // Skauz / Hatusha /// 92-1600 A	18
190	07-332	92-22407A // 02F D-27 / Simon A	24
191	07-333	92-22407A // Simon / 02F D-194 A	24
192	07-335	92-22407A // Brundage 96 / 02F A-15 B	46
193	07-336	Brundage 96 / 02F A-188 // 92-22407B	48
194	07-337	92-22407A // Brundage 96 / 02F D-27 A	48
195	07-337	92-22407A // Brundage 96 / 02F D-27 B	30
196	07-338	92-22407A // Brundage 96 / 02F D-15 A	30
197	07-338	92-22407A // Brundage 96 / 02F D-15 B	24
198	07-341	92-22407A // 92-16004A / 02F D-27 A	48
199	<b>07-342</b>	<b>92-22407A // 02F D-194 / 92-16004A A</b>	54
200	<b>07-344</b>	<b>02F A-15 / 92-22407A // 92-22407A A</b>	30
201	07-346	92-22407A // 92-22407A / 02F D-27 A	24
202	07-347	92-22407A // 02F D-194 / 92-22407A A	24
203	07-350	92-22407A // 02F A-188 / 93-64901A A	30
204	<b>07-351</b>	<b>92-22407A // 02F D-27 / 93-64901A A</b>	54
205	07-353	92-22407A /// Skauz / Hatusha // 93- A	48
206	07-354	92-22407A // 02F A-15 / 94-32505A A	30
207	07-357	92-22407A // 94-32505A / 02F D-194 A	30
208	<b>07-360</b>	<b>92-22407A // 95-32807A / 02F A-188 A</b>	48
209	07-367	92-22407A // 94-10902A / 02F D-194 A	24
210	07-335	92-22407A // Brundage 96 / 02F A-15 B	30
211	07-376	02F D-27 / 94-26010AD // 92-22407A A	30
212	07-379	92-22407A // 02F A-15 / 96-16702A A	24
213	07-385	92-22407A // 98-09101A / 02F A-15 A	24
214	<b>07-386</b>	<b>92-22407A // 02F D-194 / 98-09101A A</b>	54
215	07-387	92-22407A // 98-12607B / Claire B	54
216	07-390	92-22407A // 98-19502A / 02F A-188 A	24
217	07-391	92-22407A // 02F D-27 / 98-19502A A	24
218	07-392	92-22407A // 02F D-194 / 98-19502A A	54
219	07-394	92-22407A // 02F A-15 / Claire A	54
220	07-397	92-22407A // Claire / 02F C24 A	24
221	07-398	02F D-27 / Claire // 92-22407A A	24
222	07-402	92-22407A /// Claire // Skauz / Hatus A	54
223	07-404	02F A-188 / 93-64901A // 93-64901A B	54
224	<b>07-405</b>	<b>02F D-27 / 93-64901A // 93-64901A A</b>	48
225	07-406	93-64901A / 02F D-194 // 93-64901A A	48
226	07-409	94-32505A /// Skauz / Hatusha // 93- A	24
227	<b>07-410</b>	<b>02F A-15 / 94-32505A // 94-32505A A</b>	30
228	07-413	94-32505A // 94-32505A / 02F D-194 A	30
229	07-422	02F A-188 / 94-10902A // 94-10902A A	48
230	07-428	95-40401A / 02F D-27 // 94-10902A A	48
231	07-438	96-09103A // Simon / 02F D-194 A	54
232	07-442	96-09103A // Brundage 96 / 02F D-15 B	24

233	07-445	96-09103A // 02F A-15 / 92-22407A	B	24
234	07-448	96-09103A // 02F A-188 / 93-64901A	A	54
235	07-454	96-09103A // 95-32807A / 02F D-27	A	30
236	07-455	02F A-188 / 94-10902A // 96-09103A	A	24
237	07-457	96-09103A // 95-40401A / 02F A-15	A	48
238	07-460	94-26010AD / 02F A-15 // 96-09103A	B	30
239	07-463	96-09103A // 94-26010AD / 02F D-19	A	48
240	07-466	96-09103A // 96-09103A / 02F D-27	A	24
241	07-468	96-09103A // 02F A-15 / 96-16702A	A	30
242	07-469	96-09103A // 96-16702A / 02F A-188	A	30
243	07-470	96-09103A // 02F D-27 / 96-16702A	A	48
244	07-472	96-09103A // 98-09101A / Claire	A	12
245	07-476	96-09103A // 98-19502A / 02F A-188	A	24
246	07-479	96-16702A // 02F A-15 / 96-16702A	A	24
247	07-485	98-19502A / 02F A-15 // 98-19502A	A	30
248	07-486	98-19502A / 02F A-188 // 98-19502A	A	24
249	07-488	02F D-194 / 98-19502A // 98-19502A	A	24
250	07-492	02F A-188 / 98-09101A // 98-09101A	A	30
251	07-492	02F A-188 / 98-09101A // 98-09101A	B	30
252	<b>07-493</b>	<b>02F D-27 / 98-09101A // 98-09101A</b>	<b>A</b>	24
253	07-496	02F A-188 / Claire // 02F B-114	B	48
254	07-502	Claire / ORHO10085 // 02F B-114	A	54
255	<b>07-502</b>	<b>Claire / ORHO10085 // 02F B-114</b>	<b>B</b>	48



Entry	Source	Mkt	ID	Pedigree	KWT
1206	INC	HWS	IDO696		38.1
1207	Border	HWS	IDO858		35.1
1208	1203	HWS	IDO855	Lolo/HJ98	32.9
1209	1206	HWS	A02734S	JFSN//Verde/IDO470	31.2
1210	1210	HWS	A02646S	IDO593/IDO594	40.2
1211	1217	HWS	A03145S	IDO594*2/IDO545	33.0
1212	1218	HWS	A03148S-I	IDO594/2*JFSN	34.3
1213	1219	HWS	A03107S	IDO602/IDO594	35.9
1214	1222	HWS	A03155S	JFSN/2*IDO470*2//IDO545	49.6
1215	1223	HWS	A03699S	JFSN/2*IDO470//IDO594	38.3
1216	1229	HWS	A01523S-3B	Sunstate/JFSN	38.2
1217	1231	HWS	A05967D	UCRD01-5(1A.1D2+12-2/3*WB881)/Kronos	41.8
1218	1237	HWS	A04819S	BZ998-447WP/IDO612	48.9
1219	1239	HWS	A04701S	Keystone/Ivan, CA-901-735//2*IDO594	33.3
1220	1253	HWS	A040164S	UC1361/2*IDO594	37.0
1221	1261	HWS	A02652S	IDO594//JFSN/2*IDO470	37.6
1222	1262	HWS	A02652S	IDO594//JFSN/2*IDO470	36.6
1223	1263	HWS	A02652S	IDO594//JFSN/2*IDO470	39.7
1224	1270	HWS	A00029S-D-2B	Treasure/Express//IDO555	39.4
1225	1272	HWS	IDO594	Pristine/IDO470	35.2
1226	1278	HWS	A06064S	Lolo Fuerte*2//Yr5/6*Avocet	37.6
1227	1279	HWS	A05859S	Lochsa/Yr15/6*Avocet	33.8
1228	2210	HWS	Lolo Fuerte-26	[McNeal/Lolo]F3 seln//2*Lolo	34.0
1229	2212	HWS	Lolo Fuerte-36	[McNeal/Lolo]F3 seln//2*Lolo	36.8
1230	2215	HWS	Lolo Fuerte-41	[McNeal/Lolo]F3 seln//2*Lolo	36.8
1231	2232	HWS	Lolo Brazo-33	[McNeal/Lolo]F3 seln//2*Lolo	30.0
1232	2233	HWS	Lolo Brazo-33	[McNeal/Lolo]F3 seln//2*Lolo	32.4
1233	2259	HWS	A06064S	Lolo Fuerte*2//Yr5/6*Avocet	39.9
1234	2267	HWS	A04871S	IDO560/HardRedCalcutta//3*Lolo	33.3
1235	2271	HWS	A01508S-5	IDO584/Jerome	37.6
1236	2272	HWS	A01517S-6	IDO586/Jerome	34.1
1237	2273	HWS	A01517S-3-1	IDO586/Jerome (NIL selec)	32.7
1238	2276	HWS	A01517S-6-1	IDO586/Jerome	31.0
1239	2278	HWS	A01517S-6-3	IDO586/Jerome	35.2
1240	Composite from F5	HWS	IDO694c	Blanca Grande/Jerome	32.0

Entry	Source	Mkt	ID	Pedigree	KWT	
1301	1301	HRS	Lassik		31.3	Check
1302	1302	HRS	Jefferson	JFSN	35.9	Check
1303	1304	HRS	UI Winchester	WPB926/WA7702	39.1	Check
1305	1309	HRS	IDO865	IDO558*2/JFSN	36.1	
1306	1310	HRS	A00009S-9	JFSN*2/IDO557	32.3	
1307	1312	HRS	IDO868	JFSN*4/IDO584	33.3	
1308	1313	HRS	IDO867	JFSN*2/Alsen	34.8	
1310	1315	HRS	A03813S-A-6	[McNeal/JFSN]F3 seln//2*JFSN	33.6	
1311	1323	HRS	A00618S-2	96WY51407/Jerome	37.6	
1312	1324	HRS	A00070S-3	Hank//Minivet/2*Sunstar 1/3/IDO558	28.7	
1313	1328	HRS	A040286S	[[JFSN*3/4/P29/IDO521//Lolo/3/ID DO545] F2(+/-)/JFSN]F2/JFSN	35.6	
1314	1348	HRS	A040239S	UC1037HGP/IDO592	33.7	
1315	1353	HRS	A06037S	JFSN*2//Yr5/6*Avocet	38.9	
1316	1354	HRS	A06054S	IDO647*2//Yr15/6*Avocet	33.1	
1319	1363	HRS	A03767S-IJ-3	JFSN*4/IDO584	34.6	
1320	1364	HRS	A03813S-A-1	[McNeal/JFSN]F3 seln//2*JFSN	35.7	
1322	1380+81	HRS	IDO703com (IDO703-7+8)	Jerome/JFSN	34.7	
1323	1386	HRS	IDO862L (IDO862- 1)	Hank/JFSN//IDO558	32.2	
1324	1387+90	HRS	IDO862E (IDO862- 2 + 5)	Hank/JFSN//IDO558	32.0	
1325	1388+89	HRS	IDO862T (IDO862- 3 + 4)	Hank/JFSN//IDO558	34.6	
1327	2312	HRS	A06038S	JFSN*2//Yr5/6*Avocet	36.4	
1328	2313	HRS	A06038S	JFSN*2//Yr5/6*Avocet	34.5	
1329	2314	HRS	A06054S	IDO647*2//Yr15/6*Avocet	35.2	
1330	2315	HRS	A06061S	IDO626//Yr15/6*Avocet/3/Jerome	35.5	
1332	2317	HRS	A05393S	JFSN*2/Alsen(++)//2*JFSN	38.7	
1333	2318	HRS	A05845S	Yr5/6*Avocet//Jubilee Lr47	32.0	
1335	2322	HRS	A03767S-IJ-3	JFSN*4/IDO584	37.0	
1336	2323	HRS	A03767S-IJ-3	JFSN*4/IDO584	32.1	
1337	2324	HRS	A03813S-A-6	[McNeal/JFSN]F3 seln//2*JFSN	36.2	
1338	2327	HRS	A03812S-C-4	[McNeal/JFSN]F3 seln//2*JFSN	39.7	

Entry	Source	Mkt	ID	Pedigree	KWT
1101	1104	SWS	Alturas	Whitebird/CNTL	30.6
1102	1105	SWS	UI Pettit	Pomerelle*2/Fujimi Komugi	26.0
1103	1107	SWS	IDO671	Alturas*2/WPB936	32.2
1104	1109	SWS	IDO850	Alturas*2/Hank	35.3
1105	1110	SWS	IDO687	Alturas//IDO541/Vanna	33.9
1106	1111	SWS	IDO851	Alturas*2/Cadoux	33.6
1107	1112	SWSC	A00057S-1	IDO556*2/WA7854	29.4
1108	1113	SWS	IDO686	Js-12-Mu-6/Jubilee (F3 Seln)//Jubilee	31.4
1109	1115	SWS	IDO688	IDO581/Alturas	38.5
1110	1116	SWS	IDO854	Alturas/IDO582	36.3
1111	1117	SWS	A01017S-13	Alturas*2/AC PHIL	32.4
1112	1118	SWS	A01423S-6	Katunga/2*Alturas	30.8
1113	1119	SWS	IDO599	Pomerelle*2/Tui	32.0
1114	1120	SWS	A01910S-1	IDO599/IDO569	28.9
1115	1124	SWS	A01017S-1	Alturas*2/AC PHIL	34.6
1116	1131	SWS	A01476S-N-Resel	Jubilee/Sunstate	35.6
1117	1133	SWS	A01501S-5	IDO583/Alturas	34.5
1118	1134	SWS	A02695S-1	IDO599/IDO556	28.4
1119	1137	SWS	A01423S-11	Katunga/2*Alturas	33.8
1120	1138	SWS	A01027S	Blanca Grande/Jubilee	32.9
1121	1140	SWS	A00050S-E-3B	Alturas/4/Tan/Vee//Opata/3/2*Galvez/5/IDO541	36.0
1122	1144	SWS	A03629S	IDO606/IDO599	30.9
1123	1148	SWS	A03672S	M2/IDO470//IDO488/3/Alturas	31.8
1124	1149	SWS	A01804S	Alsen/JFSN	29.3
1125	1152	SWS	A02707S	Challis/IDO598	30.9
1126	1153	SWS	A02707S	Challis/IDO598	32.6
1127	1154	SWS	A040130S	CNTL*2/Sava*2//IDO599	32.2
1129	2105	SWS	A04716S	IDO495/P29//Treasure/3/IDO624	35.8
1135	2131	SWS	A06027S	IDO646*2//Yr5/6*Avocet	33.5
1136	2132	SWS	A06027S	IDO646*2//Yr5/6*Avocet	29.7
1138	2138	SWS	A05804S	IDO646//Yr5/6*Avocet	33.9
1142	2151	SWS	A05880S	Jubilee Lr47//Yr5/6*Avocet	30.5
1144	2160	SWS	A040264S	Jubilee*2/MT9959/3/IDO507/P29//IDO506/4/IDO506//IDO495/P29/3/2*Jubilee/5/Jubilee/6/IDO560*2/MT9958/3/P29/IDO521//Lolo/7/2*Jubilee	28.8
1146	2166	SWS	A06045S	Jubilee/Sunstate(++)//2*IDO645/3/IDO599	31.6
1147	2169	SWS	A06045S	Jubilee/Sunstate(++)//2*IDO645/3/IDO599	33.3
1148	2174	SWS	A01344WS-1-2	Kanto 79/2*IDO488//I8917113	30.6
1149	2179	SWS	A06056S	Pettit/3/Jubilee/Sunstate(++)//2*IDO645	30.7
1150	2182	SWS	Alturas09	Reselection in 2009 and need to plant them in 2011	32.1
1151	2183	SWS	Cataldo09	Reselection in 2009 and need to plant them in 2011	33.8
1154	2189	SWS	A05847S	Yr5/6*Avocet//IDO645	30.5

# ATTACHMENT 1

UI Small increases  
Planted at Walla Walla

B96-1	B96-1	B96-1	B96-1	B96-1	B96-1			02-106	02-106	02-106	02-106	02-106	02-106	02-106
B96-2	B96-2	B96-2	B96-2	B96-2	B96-2			02-106	02-106	02-106	02-106	02-106	02-106	02-106
CFB-3	CFB-3	CFB-3	CFB-3	CFB-3	CFB-3			Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau
CFB-4	CFB-4	CFB-4	CFB-4	CFB-4	CFB-4			Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau
CFB-5	CFB-5	CFB-5	CFB-5	CFB-5	CFB-5			Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau
CFB-6	CFB-6	CFB-6	CFB-6	CFB-6	CFB-6	BLANK AREA		Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau	Bruneau
02-095	02-095	02-095	02-095	02-095	02-095			Lambert	Lambert	Lambert	Lambert	Lambert	Lambert	Lambert
02-123	02-123	02-123	02-123	02-123	02-123			01-107	01-107	01-107	01-107	01-107	01-107	01-107
03-299	03-299	03-299	03-299	03-299	03-299			03-284	03-284	03-284	03-284	03-284	03-284	03-284
96-167	96-167	96-167	96-167	96-167	96-167			00-315	00-315	00-315	00-315	00-315	00-315	00-315
96-167	96-167	96-167	96-167	96-167	96-167			99-227	99-227	99-227	99-227	99-227	99-227	99-227
00-354	00-354	00-354	00-354	00-354	00-354			00-107	00-107	00-107	00-107	00-107	00-107	00-107
99-062	99-062	99-062	99-062	99-062	99-062			02-129	02-129	02-129	02-129	02-129	02-129	02-129
99-062	99-062	99-062	99-062	99-062	99-062			Brundage	Brundage	Brundage	Brundage	Brundage	Brundage	Brundage
Bitterroot	Bitterroot	Bitterroot	Bitterroot	Bitterroot	Bitterroot			Simon	Simon	Simon	Simon	Simon	Simon	Simon
Bitterroot	Bitterroot	Bitterroot	Bitterroot	Bitterroot	Bitterroot			CFL	CFL	CFL	CFL	CFL	CFL	CFL

## EXHIBIT D

**ROYALTY SHARING BETWEEN PARTIES  
FOR JOINT VARIETIES AND LICENSED UNIVERSITY ORIGINAL VARIETIES**

<i>Material</i>	<i>BREEDING LEAD</i>	<i>MARKETING LEAD</i>	<i>Share of Royalty (%) UNIVERSITY / LCS</i>
<i>UNIVERSITY GERMPLASM</i>	<i>UNIVERSITY</i>	<i>UNIVERSITY</i>	<i>100 / 0</i>
<i>JOINT VARIETY</i>	<i>UNIVERSITY</i>	<i>LCS/AFFILIATES</i>	<i>50 / 50</i>
<i>JOINT VARIETY</i>	<i>LCS/AFFILIATES</i>	<i>LCS/AFFILIATES</i>	<i>40 / 60</i>
<i>LCS GERMPLASM</i>	<i>LCS/AFFILIATES</i>	<i>LCS/AFFILIATES</i>	<i>0 / 100</i>

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