**Appendix 3.** List of collaborators and participating institutions by objective.

**Objective 1: Conduct multidisciplinary conventional and molecular marker-assisted breeding, germplasm enhancement, and early-generation selection research to improve potato productivity and quality for important Eastern US markets.**

Objective 1a. Development of a Collaborative Approach to Potato Breeding, Selection, and Variety Development in the Eastern US. Collaborators: G. Porter (U ME, ME), W. De Jong and D. Halseth (CU, NY), L. Zotarelli and D. Gergela (UFL, FL), B. Christ and M. Peck (PSU, PA), R. Veilleux and J. Freeman (Va Tech, VA), M. Kleinhenz (OSU, OH), C. Yencho and M. Clough (NCSU, NC), K. Haynes (USDA-ARS, MD).

Objective 1b. Quantitative, molecular genetic and biochemical studies to improve processing quality and resistance to internal heat necrosis*.*

Improved Resistance To IHN - Collaborators: R. Veilleux (Va Tech, VA), C. Yencho, M. Clough and B. Sosinksi (NCSU, NC), R. Jones and K. Haynes (USDA, MD).

Objective 1c. Further develop and capitalize on the improved genetic base for long-term cold storage processing ability. Collaborators: K. Haynes (USDA-ARS, MD), W. De Jong and D. Halseth (CU, NY), B. Christ (PSU, PA); G. Porter (U ME, ME).

Objective 1d. Improve the genetic base of specialty potatoes, such as yellow-fleshed and red-skinned types.

Yellow-Fleshed Potatoes - Collaborators: K. Haynes (USDA-ARS, MD), W. De Jong and D. Halseth (CU, NY), M. Kleinhenz (OH), L. Zotarelli (UFL, FL).

Red-Skinned, Purple-Skinned, and Other High-Value Novel-Colored Potatoes - Collaborators: K. Haynes (USDA-ARS, MD), W. De Jong and D. Halseth (CU, NY), C. Yencho and M. Clough (NCSU, NC), G. Porter (U ME, ME).

**Objective 2: Use novel and improved potato germplasm to reduce the impact of economically important potato pests in the Eastern US**

Objective 2a. Improve the resistance of potato to economically significant pests in the East.

Late Blight - Collaborators: K. Haynes and R. Jones (USDA-ARS MD), B.J. Christ (PSU, PA), G. Porte and B. de los Reyes (UME, ME), W. De Jong (CU, NY).

Early Blight - Collaborators: K. Haynes and R. Jones (USDA-ARS, MD), B. Christ and X. Qu (PSU, PA).

Resistance to Scab - Collaborators: K. Haynes and L. Wanner (USDA-ARS, MD), B. Christ (PSU, PA)

Golden Nematode and Gene Mapping for Resistance - Collaborators: W. De Jong (CU, NY) and X. Wang (USDA-ARS)

Colorado Potato Beetle and Potato Leafhopper - Collaborators: W. De Jong (CU, NY), C. Yencho and M. Clough (NCSU, NC).

**Appendix 3 (cont’d).** List of collaborators and participating institutions by objective.

**Objective 3. Evaluate yield, quality, and pest resistance of preliminary and advanced potato breeding lines in experimental- and commercial-scale trials at multiple Eastern locations to aid industry adoption of new varieties.**

Objective 3a. Evaluate Promising Selections in Standardized Trials for Early Maturity, Quality, and Storage Potential.

Seed Increase Procedure for Standardized Regional Variety Trials and Standardized Regional Variety Trial Procedures. Collaborators: G. Porter (U ME, ME), D. Halseth (Cornell, NY), L. Zotarelli and D. Gergela (UFL, FL), B. Christ (PSU, PA), M. Kleinhenz (OH), C. Yencho and M. Clough (NCSU, NC), R. Veilleux (VA TECH, VA).

Processing from Storage.

Collaborators: G. Porter (U ME, ME), D. Halseth (CU, NY), B. Christ (PSU, PA), K. Haynes (USDA-ARS, MD).

Objective 3b. Evaluate Promising Selections for Resistance to Potato Pests.

Early and Late Blight - Collaborators: B. Christ (PSU, PA), G. Porter (U ME, ME), K. Haynes (USDA-ARS, MD).

Scab - Collaborators: A. Murphy (AGC, Canada); W. De Jong (CU, NY); B. Christ (PSU, PA); G. Porter (UME, ME).

Viruses - Collaborators: G. Porter and A. Alyokhin (U ME, ME); K. Perry (Cornell, NY); D. Gergela and L. Zotarelli, (UFL, FL).

Objective 3c. Evaluate promising selections for sensory and nutritional quality. Collaborators: G. Porter, M.E. Camire, and L.B. Perkins (U ME, ME).

Objective 3d. Study cultural practices that optimize the performance of new potato clones and develop more sustainable agricultural systems. Collaborators: D. Halseth (CU, NY), G. Porter (UME, ME), L. Zotarelli and D. Gergela (UFL, FL), C. Yencho and Mark Clough (NCSU, NC), B. Christ (PSU, PA).

**Objective 4. Provide timely and relevant information to stake-holders through various means including the development of a project website and a web-based potato variety performance database for use by researchers, extension, potato growers, and allied industry members.** Collaborators:All project members.