Statement of Work

Planting/Harvesting Tractor

Title: Tractor for planting/harvesting with forklift attachment

Objective: Replacement of current planting/harvesting tractor, John Deere 2355 (1989), to minimize the cost of frequent repairs to old tractor

Background: The Potato Pathology program at the USDA ARS research site in Prosser, WA, conducts field trials each year to screen for disease-resistant potato clones and to improve our understanding of particular pathogens and pests that cause economically important damage to commercial potato grown in the region. In particular, the program maintains a field of *Paratrichodorus allius* (stubby root nematode) infected with Tobacco rattle virus to enable mission-critical work screening germplasm from the Tri-State Breeding Program for resistance to the virus. In addition, the plant pathology program is working to generate other disease fields, including *Spongospora subterranea* infected with Potato mop-top virus and *Meloidogyne chitwoodi* (Columbia root knot nematode), in order to screen for resistance to these pathogens in the future and conduct controlled experiments. The field work conducted each year by the Potato programs relies on decades old farm equipment that often requires expensive repairs. We request a new planting/harvesting tractor to ultimately reduce cost associated with the old equipment and to ensure proper planting and harvest of the field trials and small plot research.

CONTRACTOR REQUIREMENTS
Technical Requirements/Tasks:

Minimum HP requirements greater or equal to 55
68" center to center wheel spacing
Tire width cannot exceed 14"
Must have gear ratios to allow ground speeds of less than 1mph (creeper gear)
Must have ROPS
Must be capable of having an Edwards Forklift mounted to the front

Shipped to TTFVRU POC: Kylie Swisher Grimm, USDA/ARS, 24106 N. Bunn Road Prosser WA 99350 (509) 786-9362

The following equipment has been found to meet the needs above with modifications, this is provided as an example and not intended to imply a brand name requirement. 5067E Open Operator Station Utility Tractor with Dual Mid Valves with Mechanical Joystick Control, 16.9-30 In. 6PR R1 Bias, Canopy, Creeper gear, 2nd Rear SCV for OOS, Horn, LED ROPS mounted rear work lights, and Open Market Tire Swap with 75% Bio for Width Requirements and Requested Weight.