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**HERMAN DARLEY**, owner of Darley's Plantation at West Stayton has added another piece of equipment to his chain of modern

farm machinery. The newest innovation, pictured above, combines several field jobs into one operation. (Lloyd Sidwell Photo.)

## Darley's modern plantation adds labor saving device

By LOYD SIDWELL

■ In keeping with improved farming methods of savings in time, labor, materials and added efficiency, Herman Darley, owner of Darley's plantation, West Stayton, has added another important link to his growing chain of modern farm machinery.

Newest innovation is a combined series of equipment that prepares the seed bed, applies fertilizers, places weed and grass killers, plants four rows corn or other vegetables and firms the soil over the implanted seed all in one operation.

The above mentioned process formerly required seven complete operations over each field. Now with the new equipment, much of it constructed or modified in Darley's machinery shed, he is able to realize a considerable savings over outmoded methods of farming.

As an example of savings, it used to require four passes

over each field just to correctly use the grass killer Eptam, once to apply the chemical and three times to properly mix it with the soil.

Darley moves his equipment with a turbo-charger D-19. Two liquid tanks added to forepart of tractor, hold a mixture of potash, nitrogen, sulphur, Eptam (grass killer) and Atrazine, a weed killer.

This is all piped to a rotovator manufactured only on order by Northwest Equipment company, Yakima, Wash. Chemicals are placed only in the row area rather than over the entire field thus cutting cost of materials from about fifteen dollars an acre to eight dollars per acre. The rotovator then mixes the chemicals within the top three inches of soil of the previously plowed and leveled ground.

Immediately following the rotovator is a planter with additional liquid chemicals that apply an 8-24 mixture of nitrogen and phosphate, imbeds the

seeds and firms soil over the row.

In addition to savings of seven dollars per acre cost in chemicals Darley feels he is reducing his application and seeding costs an additional eleven dollars an acre. Also to be considered are the intangible benefits of faster field coverage when crop plantings have been delayed because of rain such as the Willamette valley has experienced this year.

Two acres can be covered each hour including service time for equipment.