

Elevator Load Receipt Problem Statement

During grain harvest in the Palouse region much of the harvested crop is transported to commercial grain elevators in the region. These elevators provide intermediate storage of the crop prior to the sale of the grain. These elevators accept grain from multiple growers a truckload at a time.

At receipt of a load the elevator will record the class of the crop (e.g. soft white winter, hard red winter, soft white spring etc. for wheat) and the gross weight of the truck (truck full), the tare weight of the truck (truck empty) and from that calculate the net weight of the crop received. They also sample the received crop to determine bushel weight, moisture content and protein percentage. This information is included in the receipt provided to the truck driver who then provides it to the grower.

Growers, landlords, shippers, harvesters and the elevator operators all have a vested interest in knowing the information about each load delivered as well as aggregate information grouping all loads as appropriate by stakeholder.

The problem to be addressed in this project is to collect the data gathered and generated at the elevators and compile it into customized data sources specific to each type of interest stakeholder.