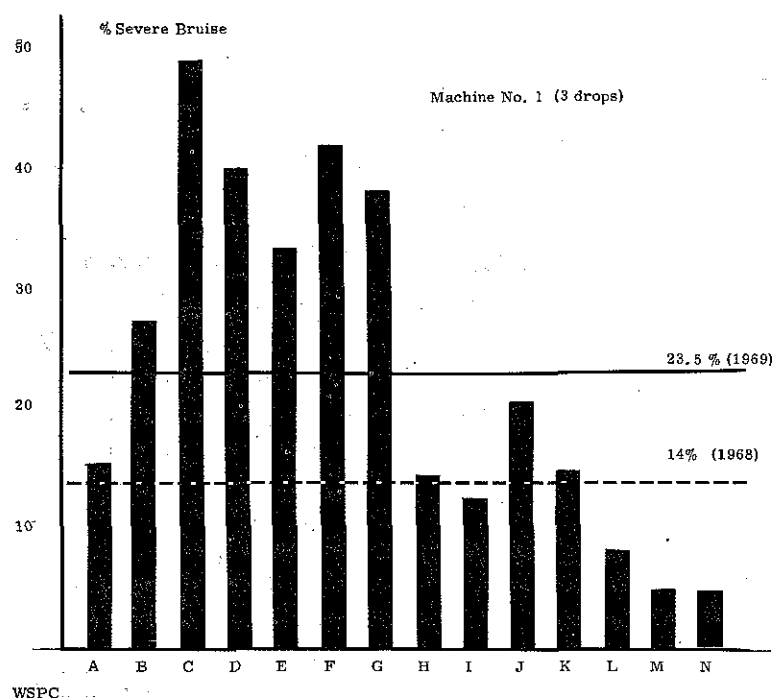


# 1969 BRUISE TESTING REPORT

A. George O'Leary, Administrative Assistant  
Washington State Potato Commission

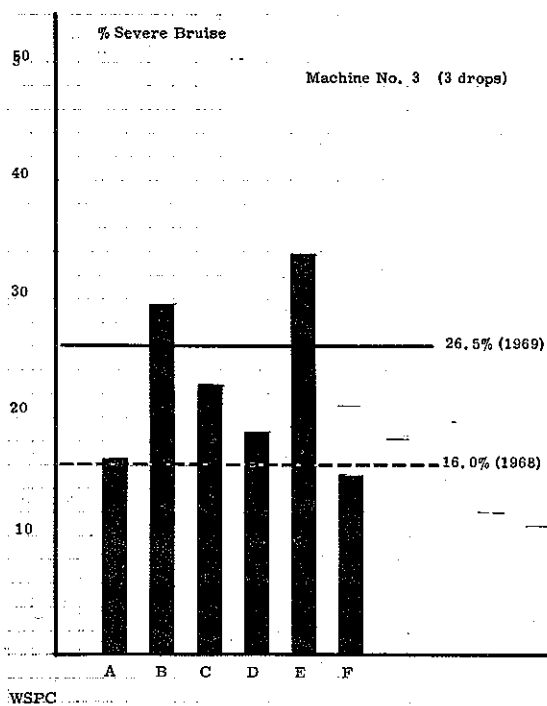
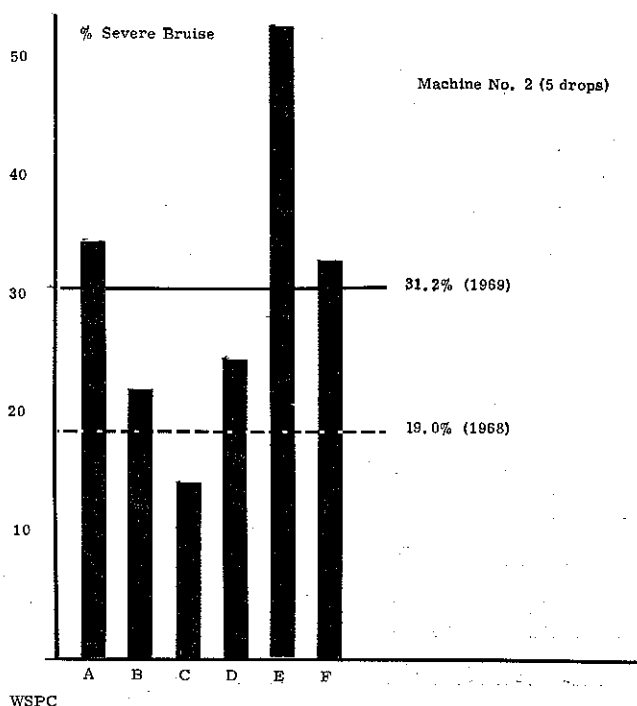
The 1969 bruise testing program was carried out in the Columbia Basin by fieldmen from several of the potato processing plants. Testing was begun on September 24, 1969 and the last report was completed on November 1, 1969. A total of 76 growers were checked and 3,666 samples were recorded. It was found that the average severe bruise was 22% as compared to an average of 17% severe bruise in 1968.

Severe bruising was encountered throughout the harvest period, but was not significantly high on the coldest nights. Yet, on the days thought to have the most ideal temperatures, severe bruising ranged from 44 to 50%. A comparison of machine performance in 1969 with machine performance in 1968 indicates that while machines cause the bruises, the operator is the responsible party. The machines are the same models and in some cases, had the same operators in both years. The high incidence of severe bruise can only be decreased by the operator.



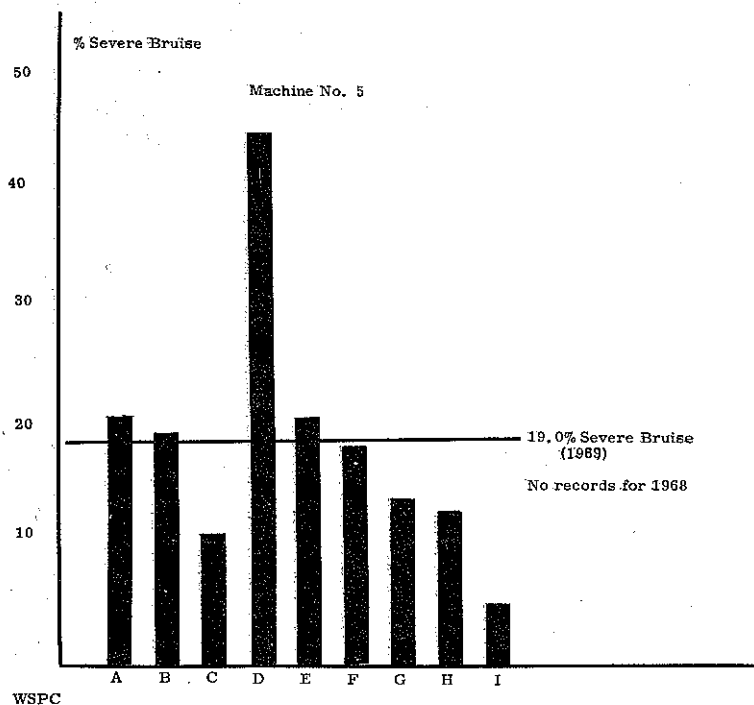
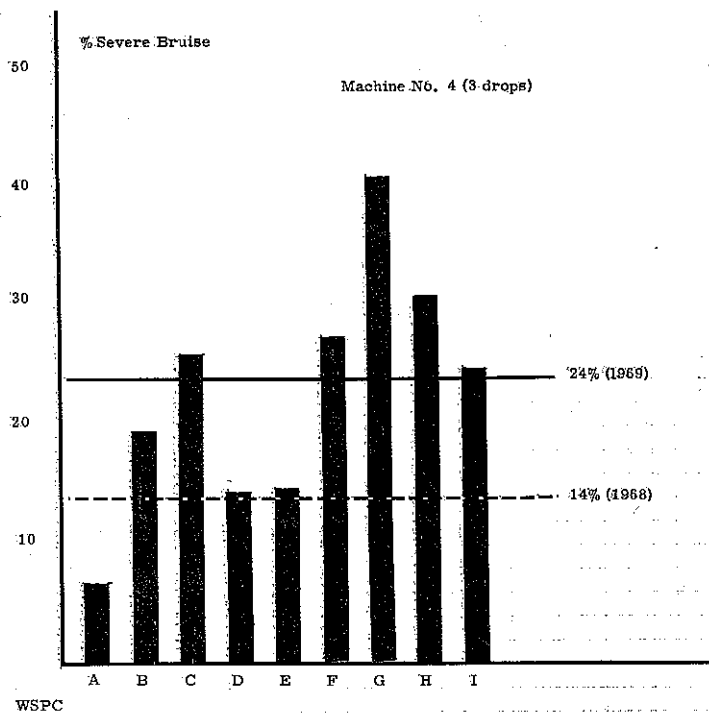
Machine No. 1 shows 14 growers, 7 of whom operated at less than the 14% recorded in 1968. The 1969 average however, is 23.5 or an increase of 9.5% severe bruise. Two operators (M & N) have only 5% severe bruise while one operator (C) had nearly 50% severe bruise.

Machine two increased from 19.0% in 1968 to 31.2% in 1969. Only one operator (C) was below the 1968 average, while the 3 others (A, E & F) exceeded 31.2%. Operator E had 53% severe bruise.



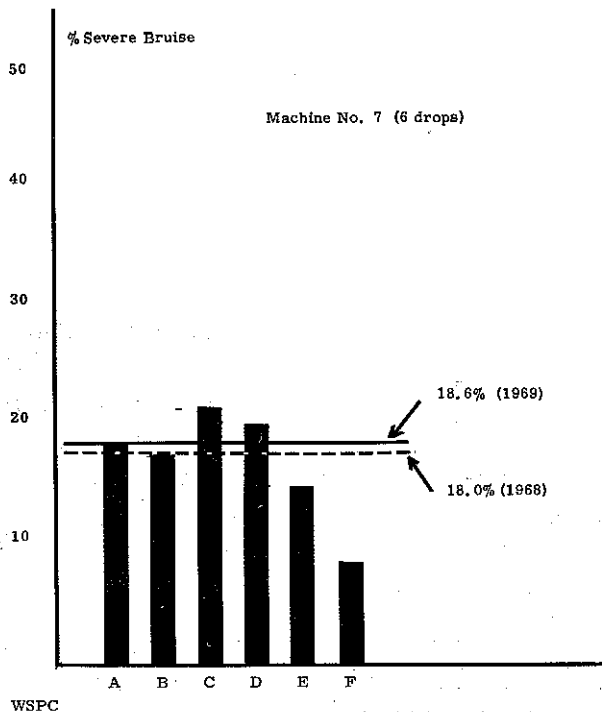
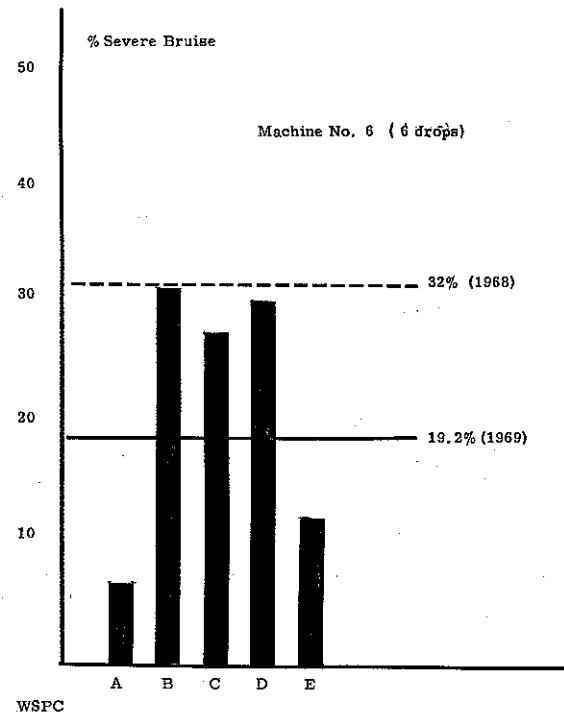
Machine three also ranged higher in severe bruise. No one was able to improve very much on the 1968 figure of 16% and the highest reading was 34% severe bruise on grower E.

Two growers (D & E) equalled the amount of severe bruise in 1968 while grower A held his severe bruise to 7%.



No records were available for this machine for 1968. While the average severe bruise for 1969 was 22% this machine was 3% below the average. Two growers (C & I) were below the 10% mark.

This machine is the only exception to the general pattern set by the other machines. Severe Bruise in 1968 was 32% while in 1969 the average severe bruise is 19.2% or about 3% lower than the average for all machines.



The final machine tested in the 1969 trials was 3.4% less than average severe bruise, and showed a gain of only 0.6% over 1968.