

no malfunctions, that the failures to feed occurred only when feeding from a full magazine, and that the failure was experienced predominantly by one shooter who is described as having a "heavy shoulder." They feel, therefore, that the percentage of malfunctions with Winchester-Western short magnum loads, and the overall malfunction rate in this test were higher than would have been experienced by average shooters under average conditions.

A method of overcoming this difficulty was presented for consideration. It is believed by Research and Development, subject to confirmation in tests to be performed in the near future, that a change to a flat-wire magazine spring would insure satisfactory loading with the Winchester-Western 2-3/4-inch magnum shells. However, this change would increase the cost of the magazine spring from 2 cents to 6 cents, or approximately \$2,500 per year, and would increase the force required to load shells into the magazine by approximately one pound (roughly 15 per cent).

It was agreed that this change would not be made at this time, but that Sales would keep in close touch with field experience, and that this change would be considered at a later time should complaints on this type of malfunction become widespread.

Rusting of the magazine cap. There have been some reports of rusting on the bright surfaces of the sintered components in the magazine cap assembly. No method is known of giving long-term protection to this bright surface, but the Ilion Plant is investigating various oil or wax emulsion treatments which should give adequate protection until the gun reaches the customer, after which normal gun care, including occasional wiping with an oily rag, should provide adequate protection.

It was pointed out that, because of the number of design changes being incorporated in the Sportsman-58 at the time of its introduction, no formal pilot tests have been run. It is believed that most necessary design changes have now been accomplished and that very shortly the design will be stabilized to the place where