

Light blow drop test indent tests caused either primer reseating or cup head deformation in the Federal primers only. The latter is the more probable because of both their metal softness and their domed contour. The combination of indent and primer head movement (above) was about 25% greater in the Federal primed cases than the indent in either Remington or Winchester primed cases.

No primers fired at either of the light blow conditions of 4" or 2" drop heights with a 2 oz. ball. 83

Drop test data (Table VIII) did not provide sufficient differences in the primer sensitivities that would answer the subject problem. The domed head and softer primer cup metal in the Federal primers apparently combined to produce an \bar{X} sensitivity consistent with the others tested. The CCI primers were the most sensitive.

Finally the primer pocket diameters in 10 each of the 3 competitive shells tested did not reveal any difference either between the three manufacturers or within a product line.

OMS/dss
June 1, 1971