

Influence of Ammonium Sulfate as a Tank Conditioner on Efficacy of Fungicides

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Treatments

Variety Bailey II

Fungicides applied at labelled rates alone or with liquid ammonium sulfate (AMS) at 1 quart per acre as a conditioning agent beginning in early August (well past the best starting date)

Priaxor either alone or with AMS was applied as a follow up 2 weeks later (AMS followed the previous AMS treatments, etc.)

Fungicides: Provost Silver, Miravis plus Elatus, Revytek, or Lucento

AMS applied without fungicides and a non-treated control were included

3 replications in one small-plot trial with one water source

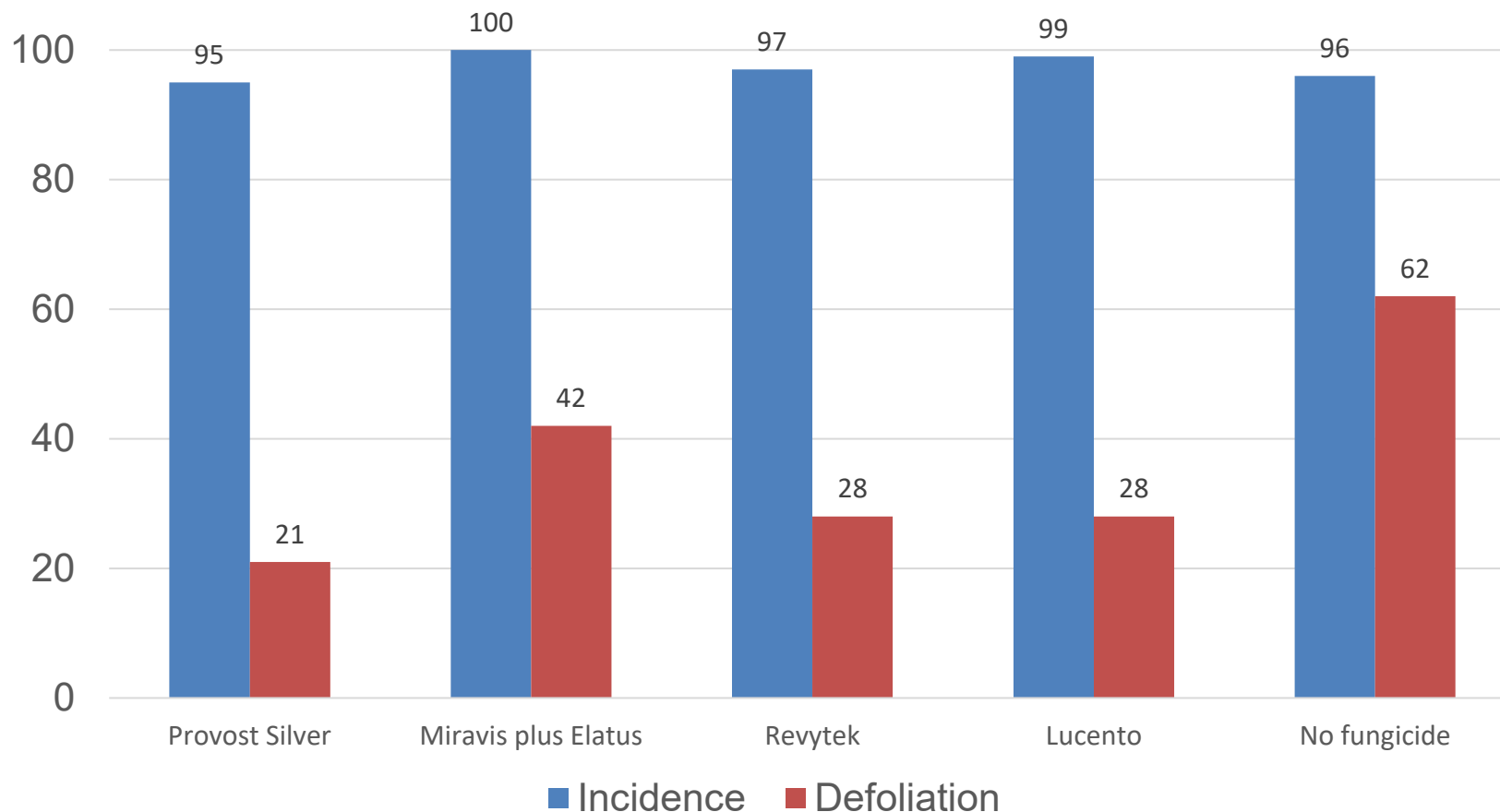
The interaction of fungicide by AMS was not significant, indicating that response to AMS was independent of the fungicide

Incidence of Leaf Spot and Defoliation of Peanut

Percent of Leaves with Lesions or Percent of Peanut Leaves Fallen

Data are pooled over ammonium sulfate treatments

Priaxor sprayed two weeks after these fungicide treatments

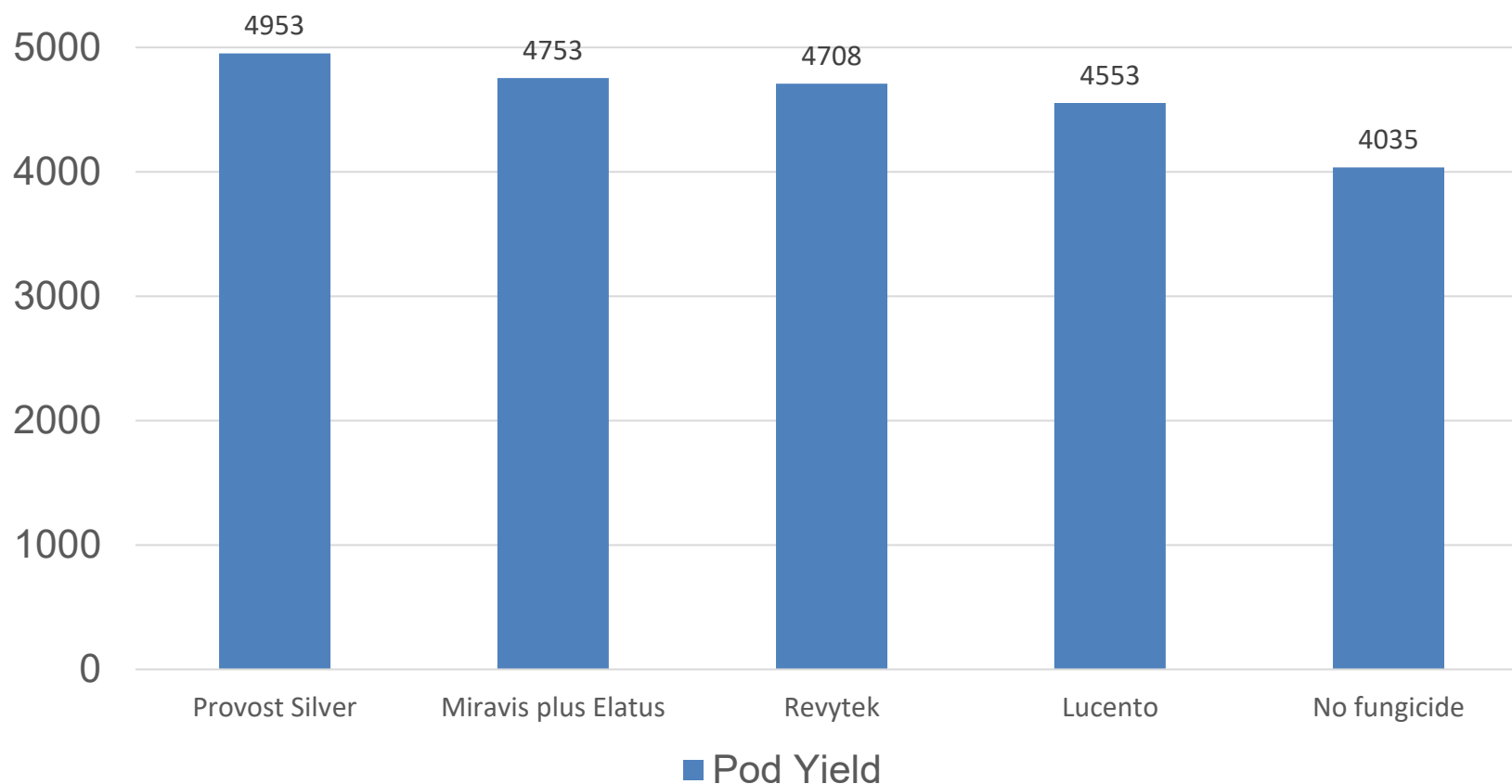


LSD for incidence = NS, $p = 0.5874$

LSD for defoliation = 18, $p = 0.0014$

Peanut Yield in Pounds per Acre

*Data are pooled over ammonium sulfate treatments
Priaxor sprayed 2 weeks after these fungicide treatments*

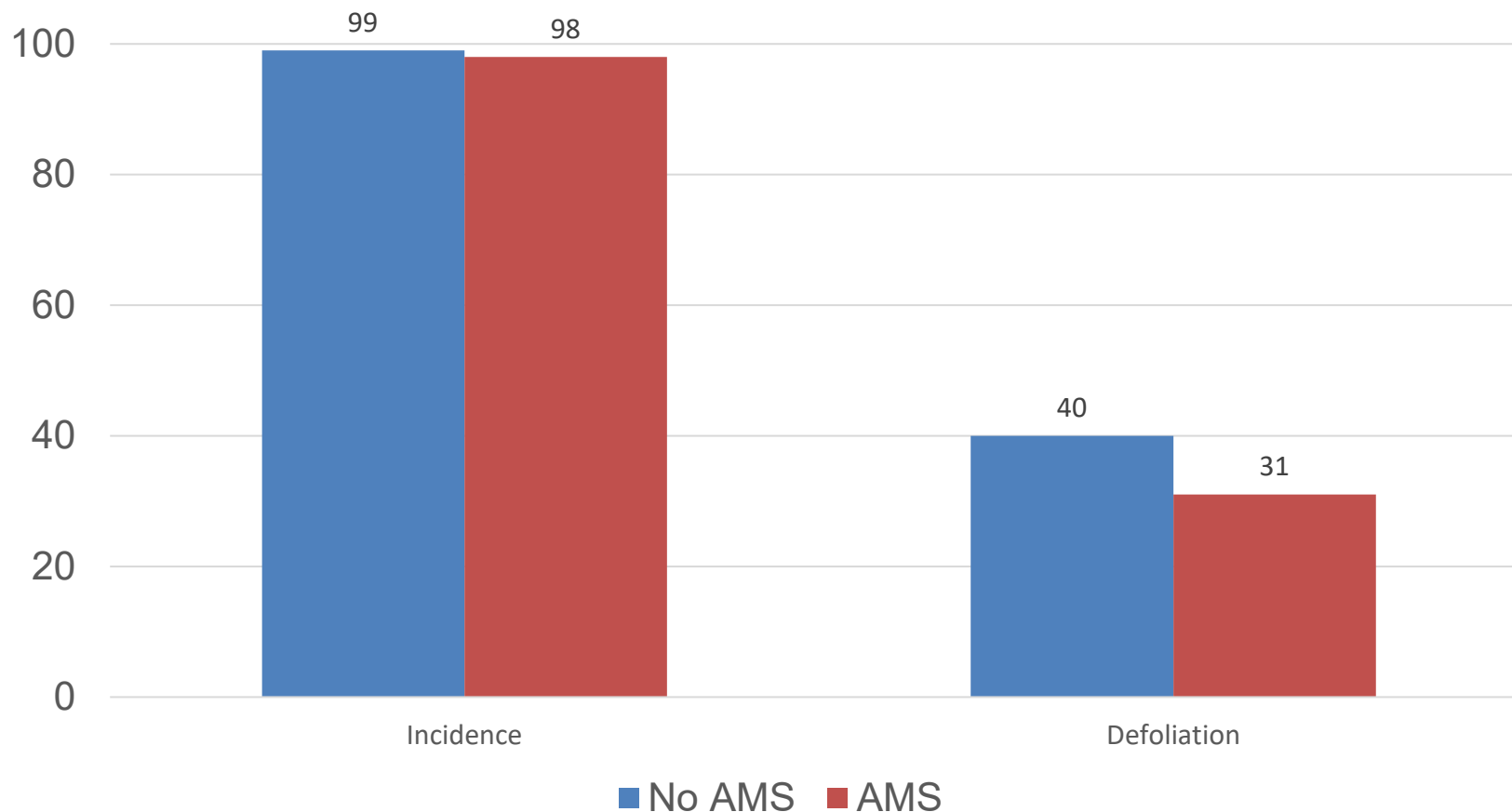


LSD = 610, $p = 0.0515$

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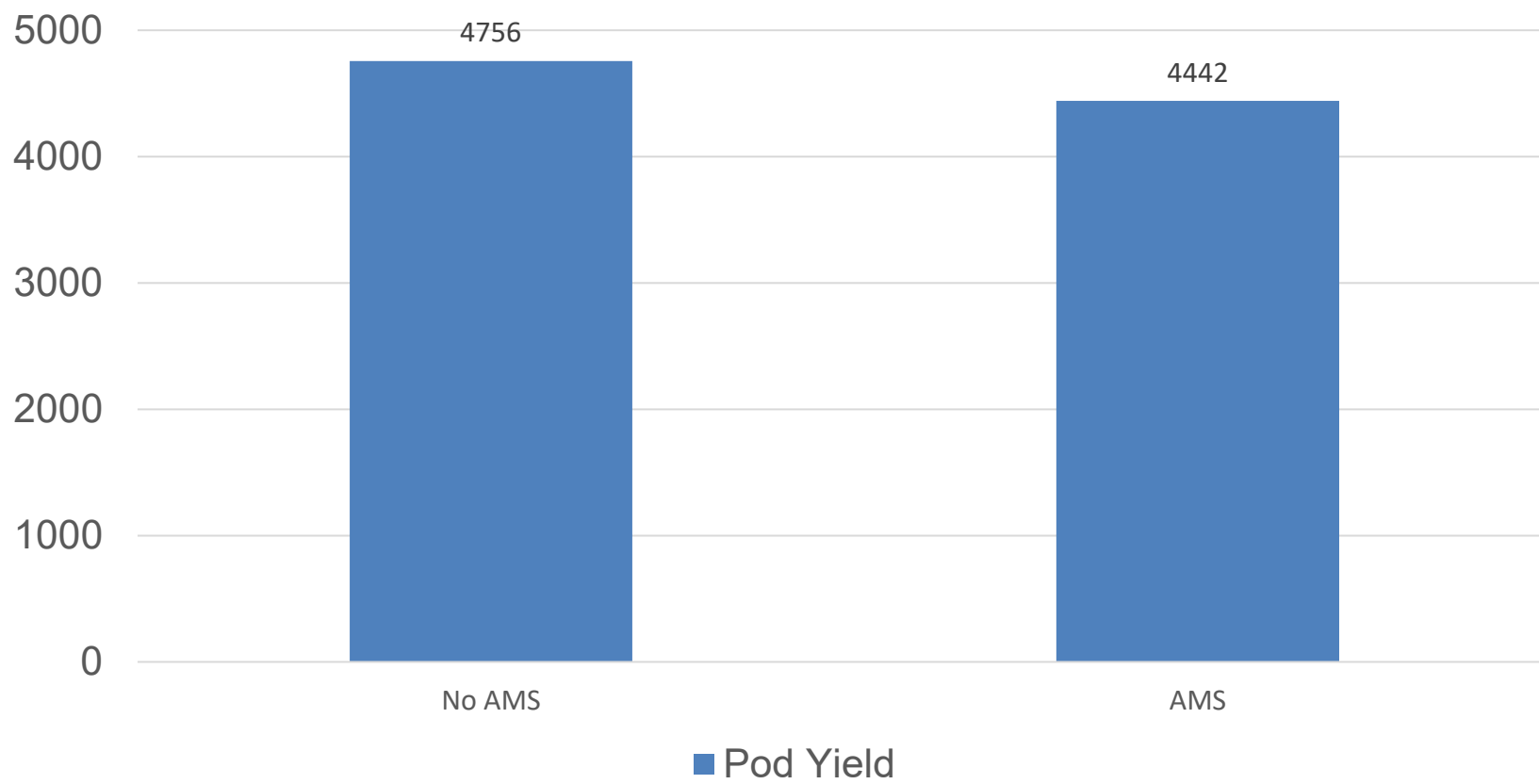


Incidence, $p = 0.5497$

Defoliation, $p = 0.0014$

Peanut Yield in Pounds per Acre

Data are pooled over fungicide treatments



p = 0.1048

Summary

No difference in incidence of leaf spot was observed regardless of fungicide or AMS treatment (however, an earlier evaluation would have been informative)

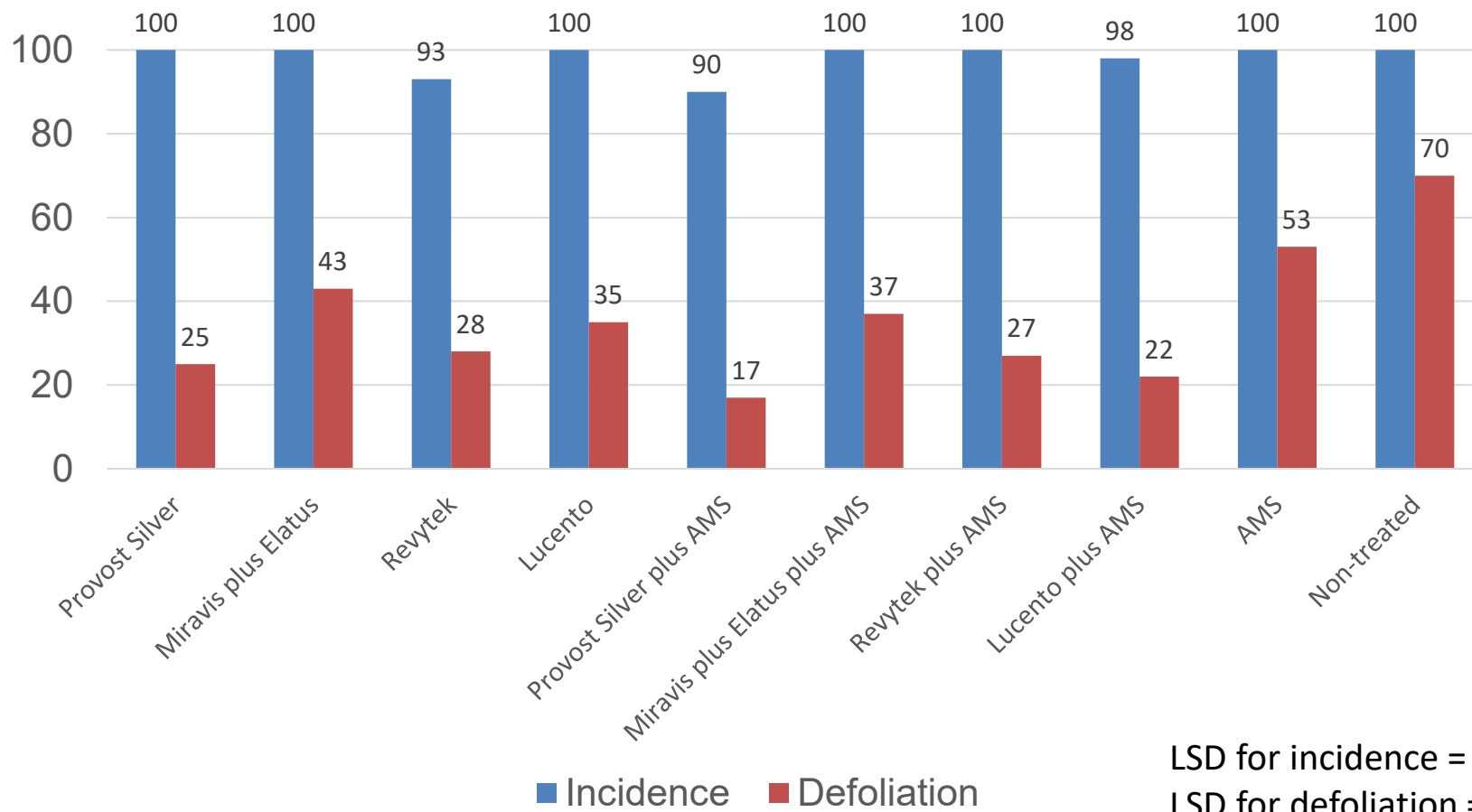
Differences in canopy defoliation and peanut yield were observed when comparing fungicide-treated peanut with non-treated peanuts, specific fungicides, and AMS treatment in an independent manner

This limited data set suggests that AMS as a water conditioner can have an impact on fungicide performance, however, yield was lower when AMS was applied

Additional research in this area is needed before a recommendation can be made

Incidence of Leaf Spot and Defoliation of Peanut

Percent of Leaves with Lesions or Percent of Peanut Leaves Fallen



Peanut Yield in Pounds per Acre

