SUBROUTINE UPDATE_EST(RAIN, TOTAL_RAIN, YIELD_EST)

YIELD EST = -(TOTAL RAIN - 40) ** 2 / 16 + 100

DOUBLE PRECISION RAIN, YIELD_EST, TOTAL_RAIN

TOTAL RAIN = TOTAL RAIN + RAIN

Yield increases up to a point

YIELD EST = -TOTAL RAIN + 140

IF(TOTAL_RAIN .le. 40) THEN

Then sharply declines

END SUBROUTINE UPDATE EST

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ELSE

FNDTF