Calculating nitrogen pounds applied per acre from pond drop: approximate method

_____ ft. pond length

_____ ft. pond width

_____ inches drop

_____ acres irrigated

_____ Ammonium (NH_4) N in mg/L
ppm is the same as mg/L

_____ TKN (Total Kjeldahl Nitrogen) in mg/L

**Use total N (TKN), ammonium N or available N concentration. TKN-ammonium N = organic form N. All of the ammonium nitrogen will be immediately available to the crop. Only a portion of the organic nitrogen will be quickly available for crop uptake. Available N includes all the ammonium N plus the portion of the organic form N that is expected to become crop available during the growing season.*

_____mg/L N x 0.22625 = _____lbs N per acre inch

_____ft. pond length x _____ ft. pond width = _____sq ft pond surface area

_____sq ft pond surface area ÷ 43560 sq ft/acre = _____ acres pond surface

_____acres pond surface x _____inches drop = _____acre inches

_____acre inches applied x _____lbs per acre inch = _____total lbs N

_____total lbs N applied ÷ _____acres irrigated = _____lbs N per acre