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Environ Pollut Climate Change 2018, Volume 2 DOI: 10.4172/2573-458X-C1-003

JOINT EVENT

5<sup>th</sup> World Conference on

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16th Annual Meeting on

October 04-06, 2018 London, UK

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onventional tillage systems in the production of agricultural crops o en use excessive application of nitrogen fertilizer, which is a source of generation of greenhouse gases (Nd CQ). e information regarding the assessment of greenhouse gases emissions in conventional tillage a system, which is most widely used in the Mexicali Valley, is limited. e aim of this study was to evaluate the Conission, organic carbon and soil nitrogen related to the application of nitrogen fertilizer in a soil cultivated with wheat under conventional tillage in the Mexicali Valley, Baja California. e experimental plot, with a soil AquicHaplotorrert was cultivated with wheat (Triticum durumith applications of doses of nitrogen fertilizer (0, 200 and 400 kg ha-1). Organic carbon was measured by Walkley & Black method. Soil samples were incubated under 65 of eld capacity at a temperature of 30°C. Comanated from the treatments was measured a er 4, 22, 46 and 142 hours of incubation. Nitrogen mineralization (NQ was obtained from KCI extraction and Kjeldahl method. e tendency was described by a lineal function (y = ax + b) and a statistical means trial test was carried out (Tukey a=0.05). Organic carbon values were between 0.87 to 1.02%; no di erence was found at di erent doses. e emission of CO2 was 194, 247 and 238 mg/g/h for doses 0, 200 and 400 Kg N ha-1, respectively, and there was not signi cantly di erence (p>0.05) (Table 1). e magnitude of the nitrogen mineralization was 753, 942 and 1125 mg N for doses 0, 200 and 400 Kg N ha-1, respectively, wi di erences (p>0.05) between them (Table 2). Highest doses of nitrogen applied to the soil does not necessarily correspon to a higher emission of Cor organic carbon, but increase (p<0.05) the nitrogen mineralization, at least under evaluated conditions.

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