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TITLE: INDUSTRIAL POLLUTION AND INTERNATIONAL TRADE: AN UPDATE OF THE BRAZILIAN EXPERIENCE

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ABSTRACT:

This paper estimates air and water emissions resulting from export oriented activities in Brazil, re-examining previous studies that identified an association between the expansion of export oriented industrial activities and the increase of potential pollutants emission. The analysis is based on an input-output model which connects exports to the whole activity chain necessary for their production, using the most recent Input Output tables available (2000 and 2005). The parameters refer to local pollutants, including water (BOD and heavy metals) and air (particulate matter, SO₂, NO_x and HC) pollution, and global problems, through estimates of CO₂ emission. The results confirm the previous results that export oriented activities, considered in a life cycle approach, remain more intensive in emissions than the average of the economy. However, the difference has been reduced to the potential pollutants emissions from the domestic oriented output, indicating a structural change in the trends of the composition of industrial production in terms of their natural resource intensiveness.