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TITLE: SOCIECONOMIC IMPACTS ON BRAZILIAN BIODIESEL PRODUCTION: A COMPARISON BETWEEN SOYBEAN AND CASTOR BEANS ROUTE

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ABSTRACT:

This work presents socioeconomic impacts comparison on B1 scenery between Brazilian soybean biodiesel production route, based on agribusiness, and castor beans based on rural communities. The effects on production level, employment, GDP and subsidies are quantified, using an input-output model with mixed technologies. The results show that, from socioeconomic point of view, there is no expressive difference from take advantage of crude glycerol. Without glycerol commercial revenue and assuming biodiesel replacing diesel from crude oil, on soybean route there would be an increase of US\$ 600 million on production level, would be created 17 thousand new jobs and a small reduction of US\$ 3.2 million on GDP would be perceived. From the same assumption, the impacts on castor beans route would comprise an increase of US\$ 880 million on production level and 169 thousand new jobs (with 156 thousand on castor beans production). Even though necessary subsidy on castor beans route is much higher than soybean, there would be a small increase of US\$ 8.1 million on GDP.