

Fig. 20. Fuel use for the NESARE dairy cropping systems in 2011, broken down by diesel used (for custom operations), straight vegetable oil (SVO) used, and excess SVO.

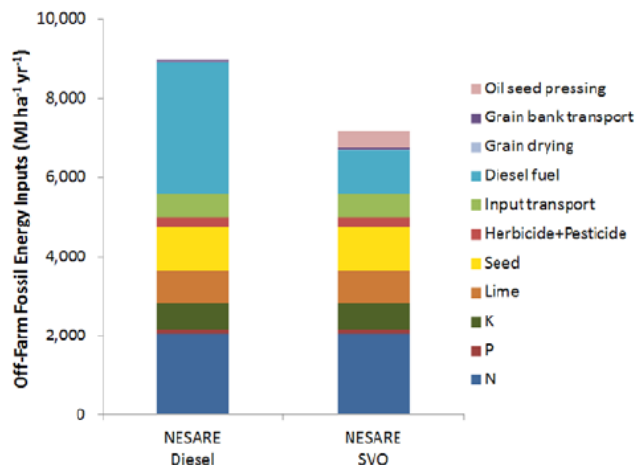


Fig. 21. Fossil energy inputs for the NESARE dairy cropping systems when powered completely by diesel versus when powered by some SVO and some diesel for custom operations.

Table 19. Three scenarios for feeding a 65 milking cow herd in Pennsylvania. The 'Forage + Feed + Fuel' farm represents the NESARE dairy cropping systems farm, while the other two are simulations.

THREE FARMS	Forage	Feed	Fuel	Crop System	Hectares
Forage + Feed + Fuel	On-farm	On-farm	On-farm (2/3 SVO)	No-till (11/12 yrs)	97
Forage + Feed	On-farm	On-farm (grains)	Import	No-till	78
Forage Only	On-farm	Import	Import	No-till	49

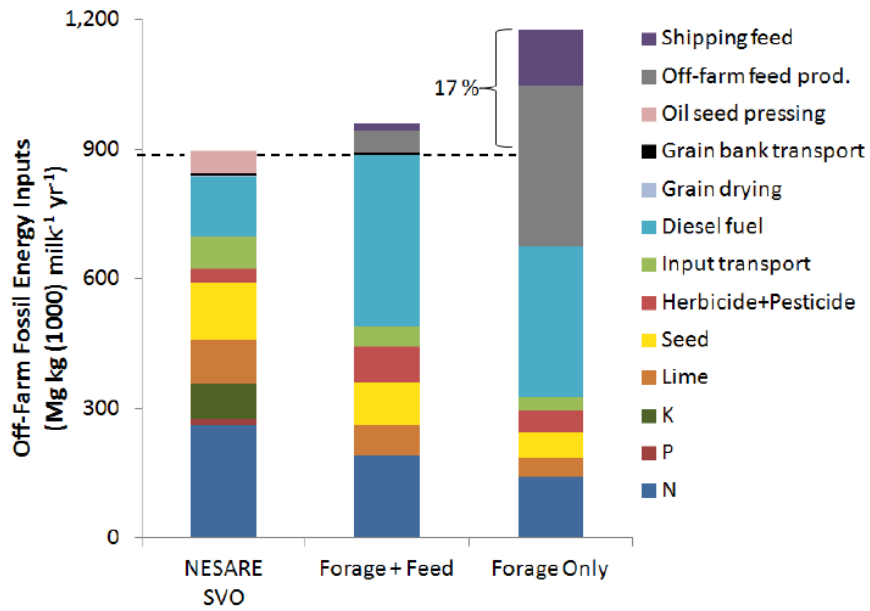


Fig. 22. Fossil energy inputs on a per milk unit produced basis. Milk production is assumed to be the same for all three scenarios, 34 kg/cow/day.