

**Photos detailing the roller pump system, designed by the Rich Earth Institute for
the application of urine-derived fertilizers to row crops.**

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Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.



Photo 1: IBC on front forks with infeed hose bringing urine from front to back of tractor to the roller pump.

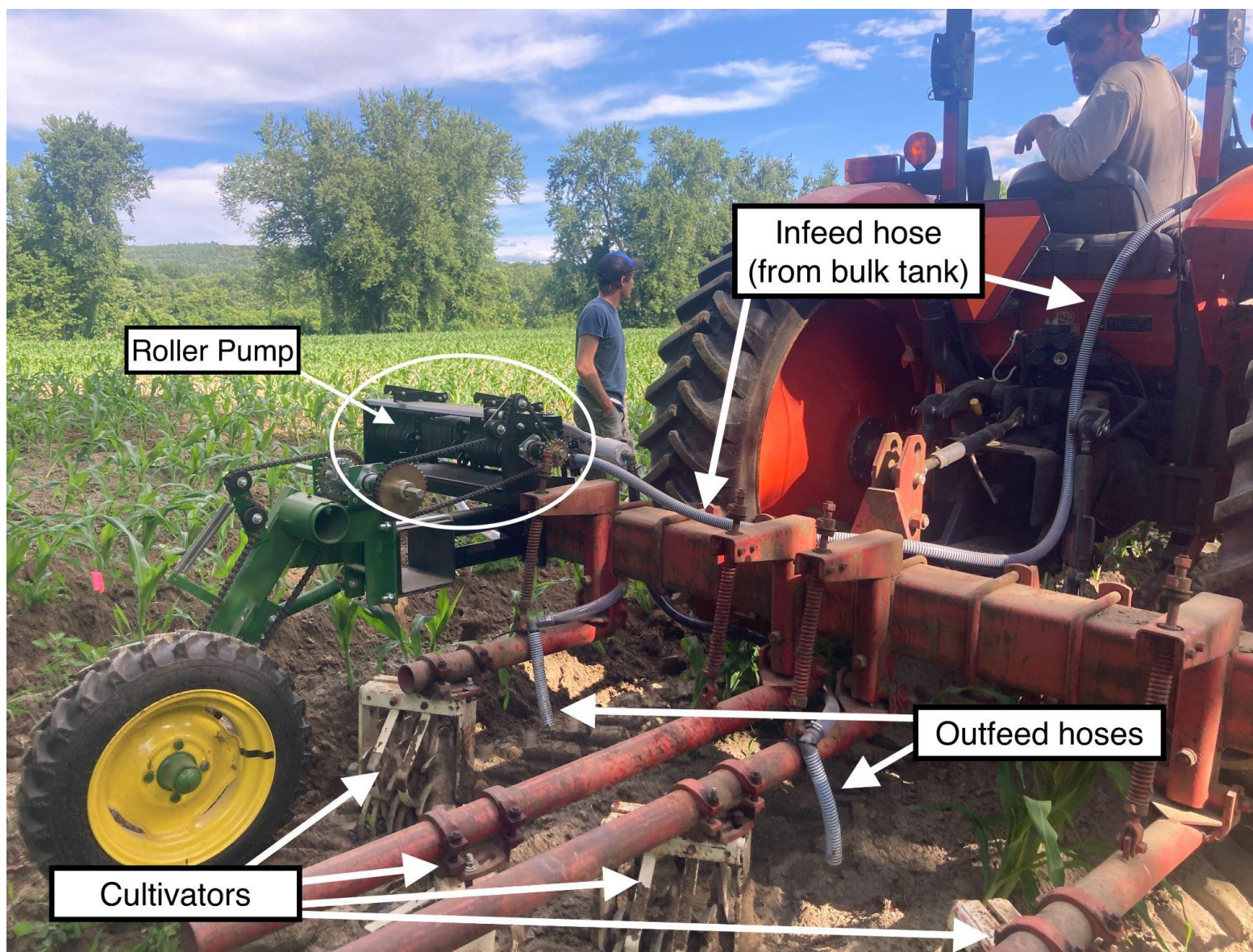


Photo 2: Infeed hose goes to roller pump and outfeed hoses attached to cultivator to direct fertilizer to corn rows.

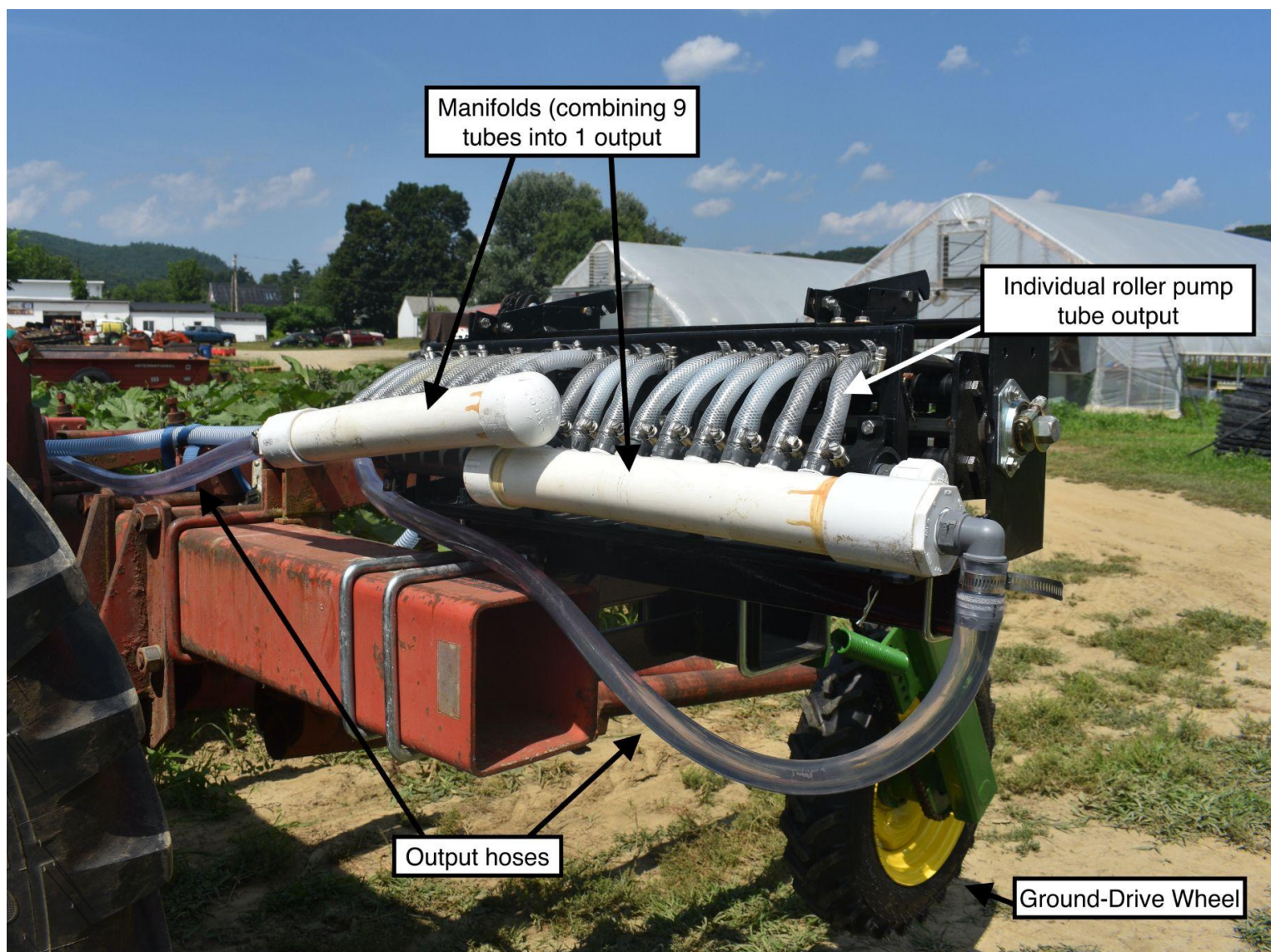


Photo 3: Manifolds combining 18 roller pump tubes into 2 separate outfeed hoses.

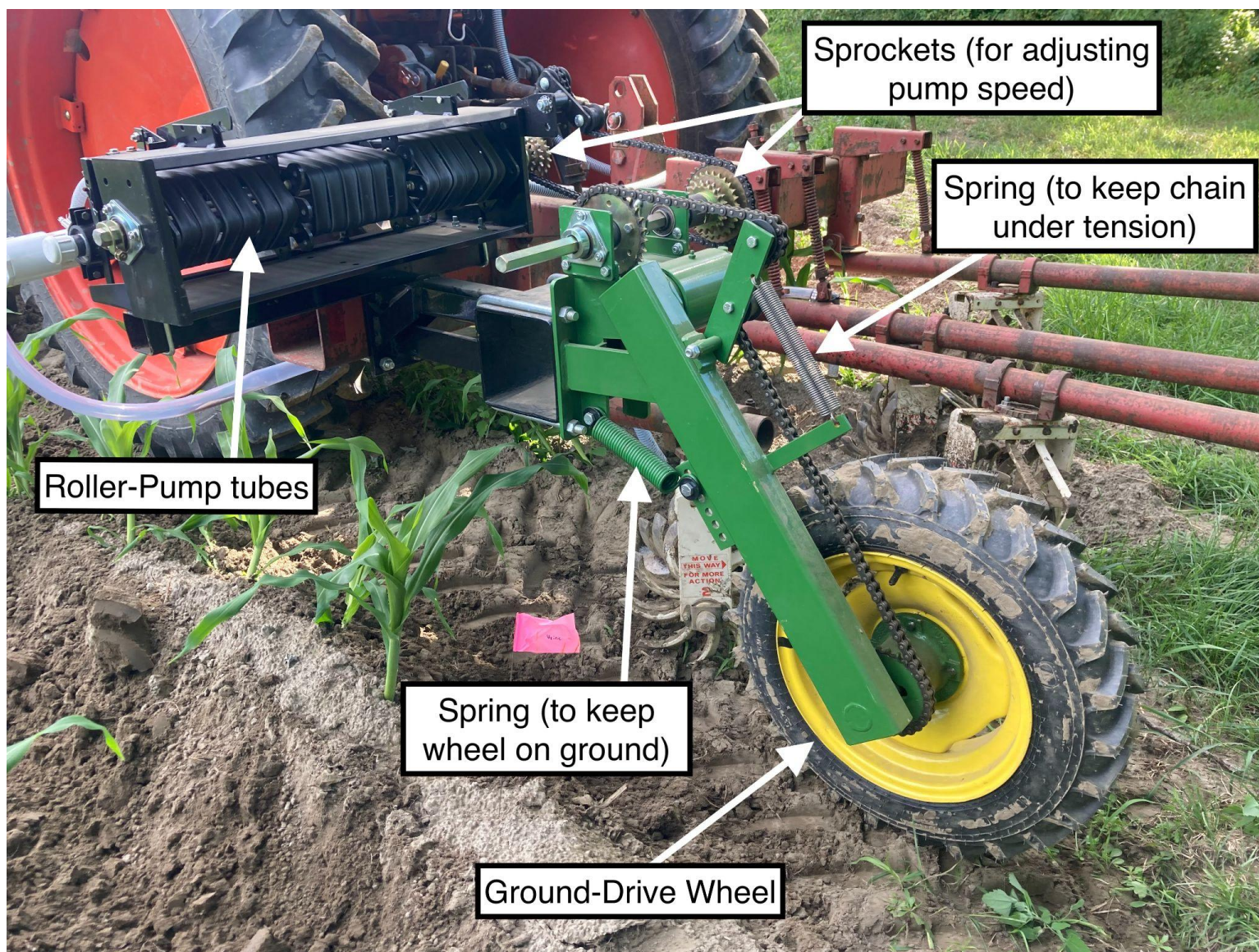


Photo 4: Close-up of roller pump assembly with ground-drive wheel, chains, & sprockets.

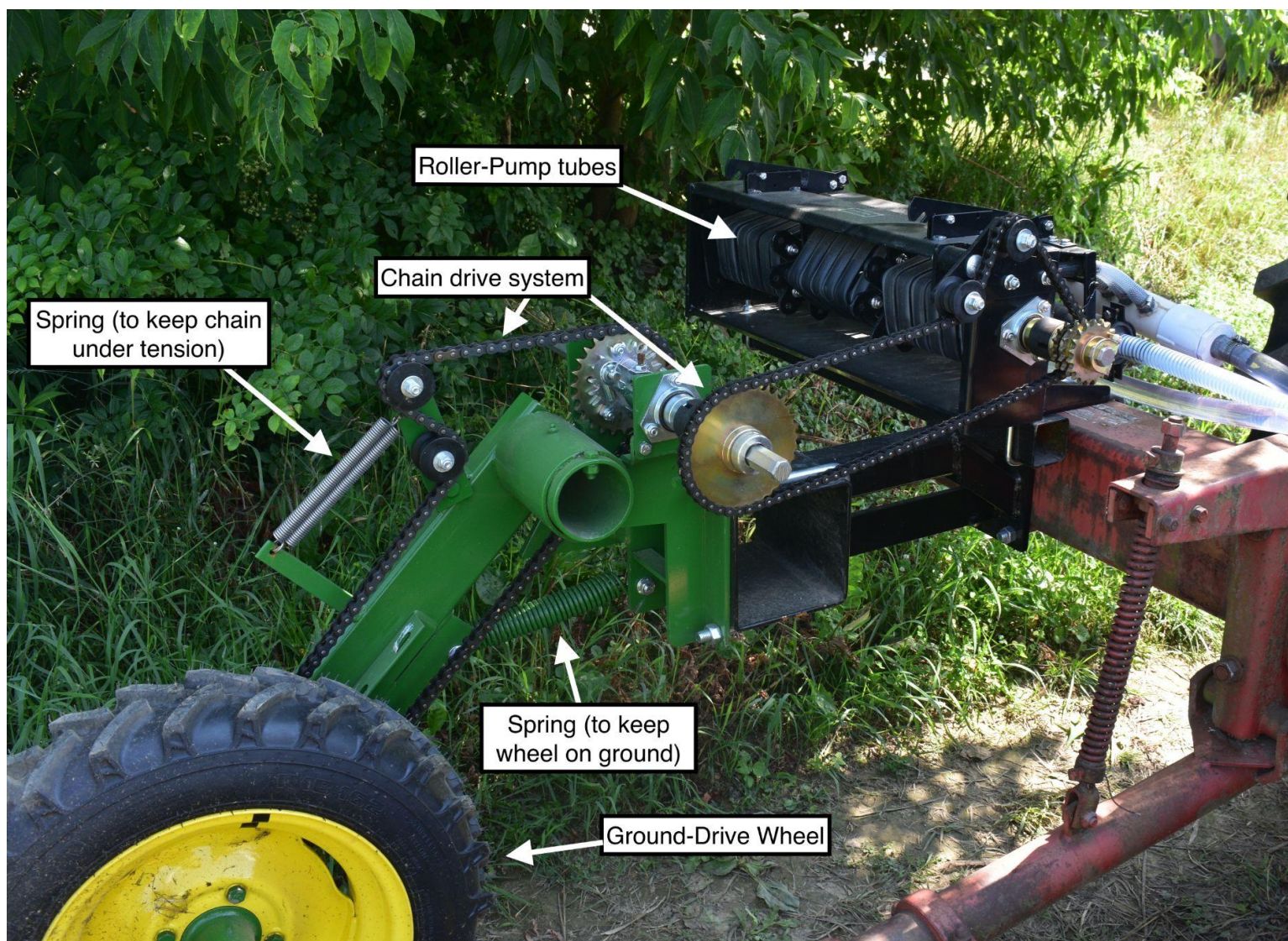


Photo 5: Close-up of roller pump assembly with ground-drive wheel, chains, & sprockets.