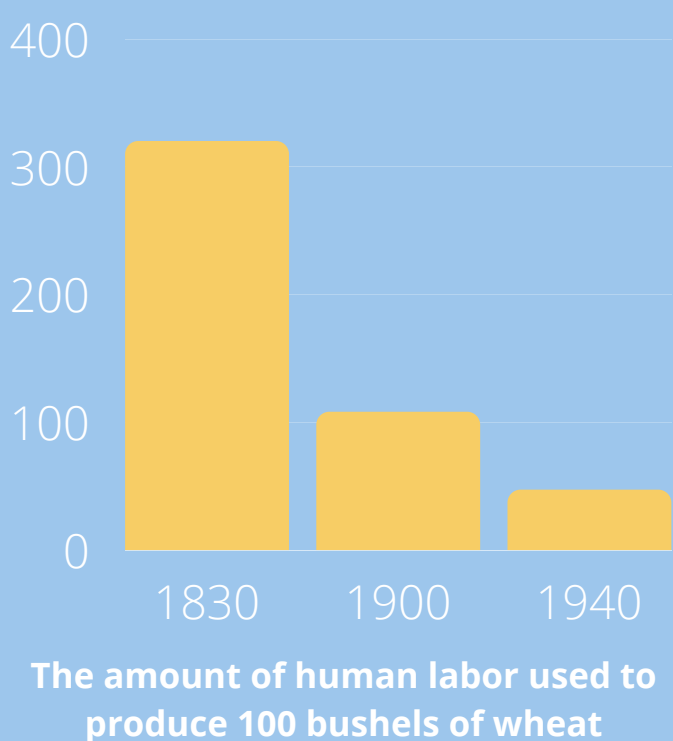


The Effects of Technology in Agriculture

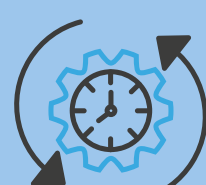
Now, the use of technologies and machines are common in agriculture. They give farmers a lot of benefits. For instance, farmers can improve the quality of their products and grow them much more productively. At the same time, technologies and machines give bad effects on the environment. Some problems are reported. This research analyzes how they give effects in both positive and negative ways, showing why most farmers demand them.

-Aditya, Harsh. "Mechanization of Agriculture: Meaning, Benefits and Progress." Economics Discussion, 18 Aug. 2016, www.economicsdiscussion.net/india/farming/mechanization-of-agriculture-meaning-benefits-and-progress/21655.
 -Ron Smith 1 | Aug 05. "Eight Major Factors That Have Changed Agriculture in the Last 50 Years." Farm Progress, 9 Dec. 2018, www.farmprogress.com/equipment/eight-major-factors-have-changed-agriculture-last-50-years.
 -"Voting with Our Farms and Forks against Climate Catastrophe." Occupy Monsanto, 20 Jan. 2012, occupymonsanto.wordpress.com/2012/01/17/voting-with-our-farms-and-forks-against-climate-catastrophe/.
 -John Upton Follow @johnupton. "Climate Impacts From Farming Are Getting Worse." Climate Central, 14 June 2016, www.climatecentral.org/news/farmings-climate-impact-rises-20445.
 -Chuck Abbott, April 11. "On Average, U.S. Farmers Are Aging, but a Quarter of Them Are Newcomers." Food and Environment Reporting Network, thefern.org/ag_insider/on-average-u-s-farmers-are-aging-but-a-quarter-of-them-are-newcomers/.

The Benefits of Using Technology in Agriculture



Getting data for business



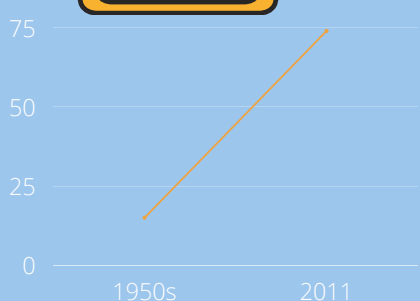
Automation & efficiency



Controlling over the risks



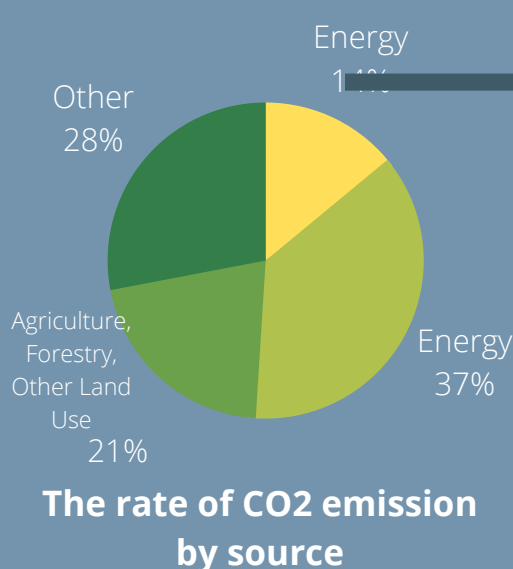
Better products' quality



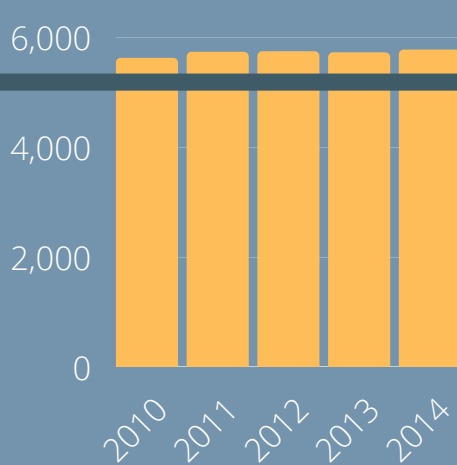
The acreage of soybeans has increased from 15 million in 1950s to 74 million in 2011.

<https://www.economicsdiscussion.net/india/farming/mechanization-of-agriculture-meaning-benefits-and-progress/21655>
<https://www.farmprogress.com/equipment/eight-major-factors-have-changed-agriculture-last-50-years>

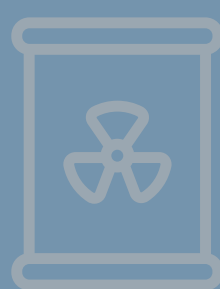
The Negative Effects of Technology or Machines



The use of technologies, especially machines, make the amount of the CO2 emission worse, which can increase the entire CO2 emission.



The heavy use of machines can ruin the quality of soil.



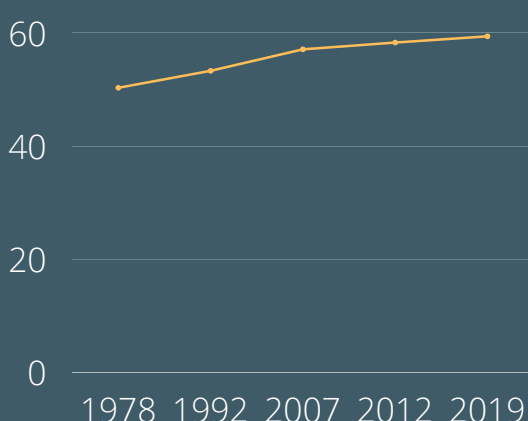
The use of pesticides gives farmers and products bad influences.

Machines or technology can wash nutrition out.



<https://ezproxy.library.astate.edu/login?url=https%3A%2F%2Fwww.proquest.com%2Fdocview%2F1950604114%3Faccountid%3D8363>
<https://occupymonsanto.wordpress.com/2012/01/17/voting-with-our-farms-and-forks-against-climate-catastrophe/>
<http://www.fao.org/uploads/pics/emissions-comparison-2-0.png>
<https://www.climatecentral.org/news/farmings-climate-impact-rises-20445>

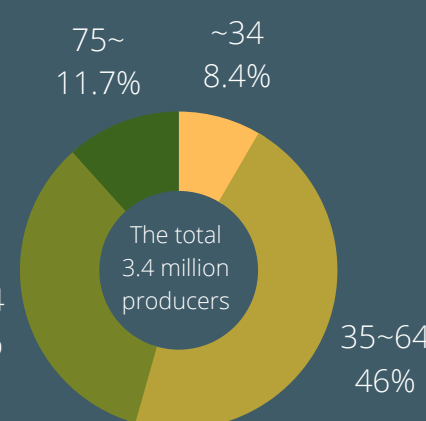
The Demand of Technology in Agriculture



The average age of farmers



Because of the shortage of labors, the demand of technology or machines is getting increased. Not only the labor shortage, but the average of farmers has risen is one of the reasons for it.



The rate of farmers' ages in 2017

https://thefern.org/ag_insider/on-average-u-s-farmers-are-aging-but-a-quarter-of-them-are-newcomers/
<https://www.beefmagazine.com/management/can-we-solve-ag-labor-shortage>