Impact of the COVID-19 Pandemic on Agriculture and Food Security in India: Baseline Survey Results

20th May 2020



Study Team

Lindsay Jaacks Divya Veluguri Rajesh Serupally

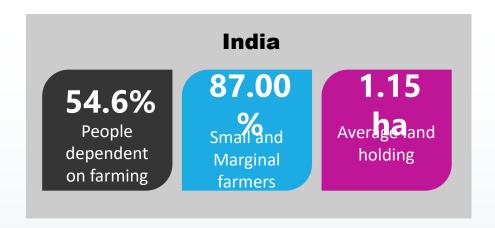


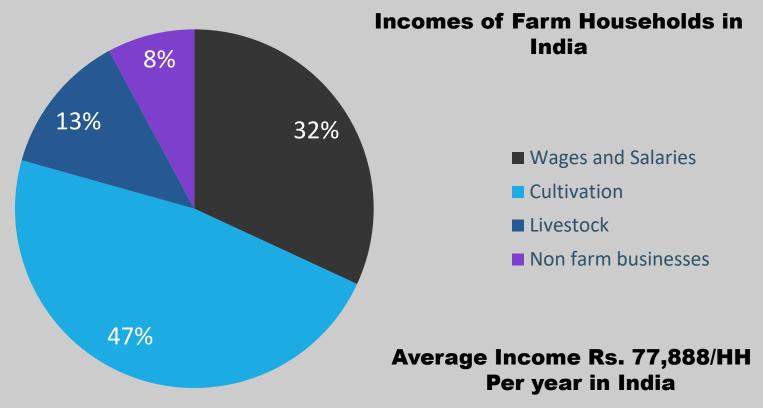
GV Ramanjaneyulu

Aditi Roy Poornima Prabhakaran

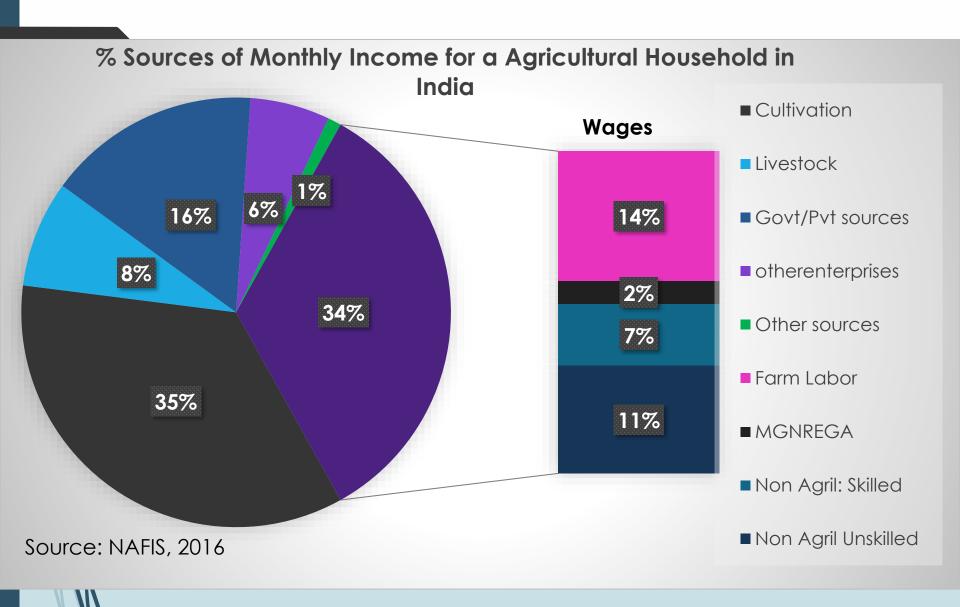


PUBLIC HEALTH FOUNDATION OF INDIA





Source: NSSO, 2014



Objectives

The aim of the study was

- To evaluate the impact of the COVID-19 pandemic, including especially the lockdown, on agricultural production, livelihoods,
- Food security, diet diversity,
- Awareness and receipt of government support during this challenging time
- Barriers to sowing in the coming season

Study team -Enumerators

Andhra Pradesh	Suresh Gaddala
Andhra Pradesh	Akhil Ravella
Telangana	Hari Krishna Nuole
Karnataka	Karan Peer
Maharashtra	Rahul Khare
Gujarat	Jahnavi Kanabar
Rajasthan	Pooja Jhorar
Punjab	Vikramjit Singh
Haryana	Diksha Pandey
Uttar Pradesh	Md. Shazib Siddique
Madhya Pradesh	Awadesh Kumar
Bihar	Shakir Ali
West Bengal	Aparna Bhagat
Uttar Pradesh,	
Madhya Pradesh	Prakash Shukla

Thank You

- Foundation for Ecological Security (FES), multiple states
- SOIL, Karnataka
- Area Networking and Development Initiatives (ANANDI), Gujarat
- Satvik Promoting Ecological Farming, Gujarat
- Sampark Samaj Sevi Sanstha, MP
- Sangtin Kisan Mazdoor Sanghatan (SKMS), UP
- Mazdoor Kisan Shakti Sanghatan (MKSS), Rajasthan
- Sarva Sewa Samiti Sanstha, WB, UP, Bihar
- Vikas Anwesh Foundation, Gujarat
- Rythu Swarajya Vedika (RSV), Telangana
- Kheti Virasat Mission (KVM), Punjab

Thank you .. continued

- Andhra Pradesh: Balu Gadi, Rajesh, Rohit Gutta, Jayshree,
 Sudharshan Rao, Prasad
- Maharastra: Sheethal, Sudhir Paliwal, Rahul Maganti, Shatakshi, Hema Vishnavi
- Karnataka: Nupur, Sajay, Manoj Kumar
- Uttar Pradesh: Arundharthi Druv, Meera Sangamitra
- West Bengal: Anil, Anuradha Talwar, Devashish Paul, Sunil Kumar Hembram, Somnath Mukherjee
- Haryana: Tushar Dhara, Shreshta Sharma, Amith, Aryaman.
- Rajasthan: Pallavi Laungani,
- Madhya Pradesh: Sunilam, Mahender
- Pratap Goswami,, Rohit Parakh,, Nandini, Pardasardhi,
 Ganesh Chari, Arup Rakshi, Amith, Sharath, Ajay Etikala,



Agricultural production

Harvest, transportation, sale Upcoming season





Livestock income



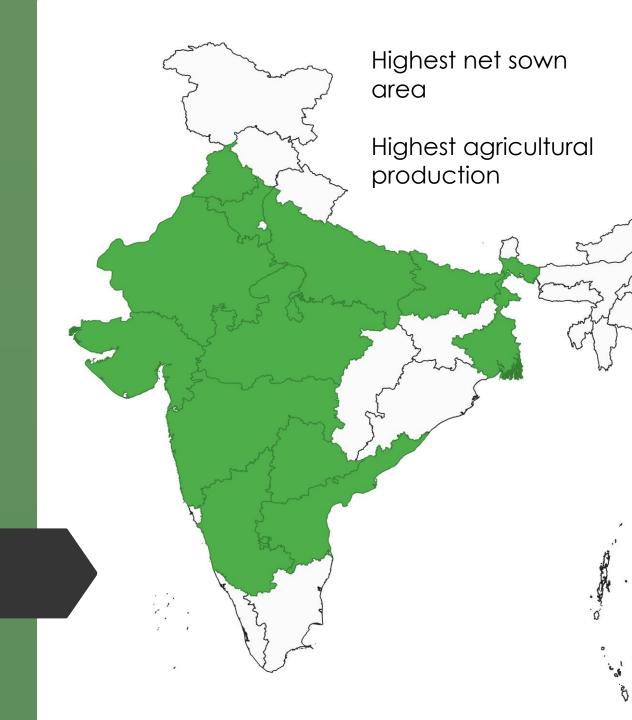
Wage income



Food insecurity and diet diversity

Andhra Pradesh
Bihar
Gujarat
Haryana
Karnataka
Madhya Pradesh
Maharashtra
Punjab
Rajasthan
Telangana
Uttar Pradesh
West Bengal

12 states





Contacts from civil society networks

Snowball Sampling



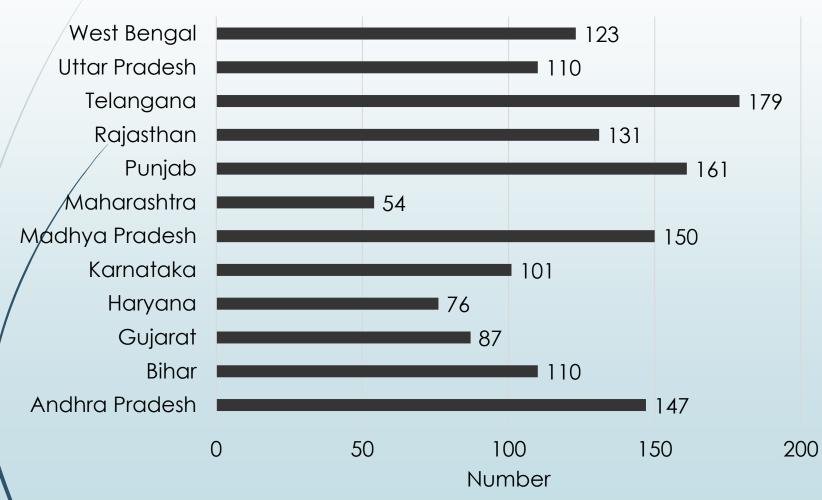
Called up to four additional respondents

Response rate: 76%

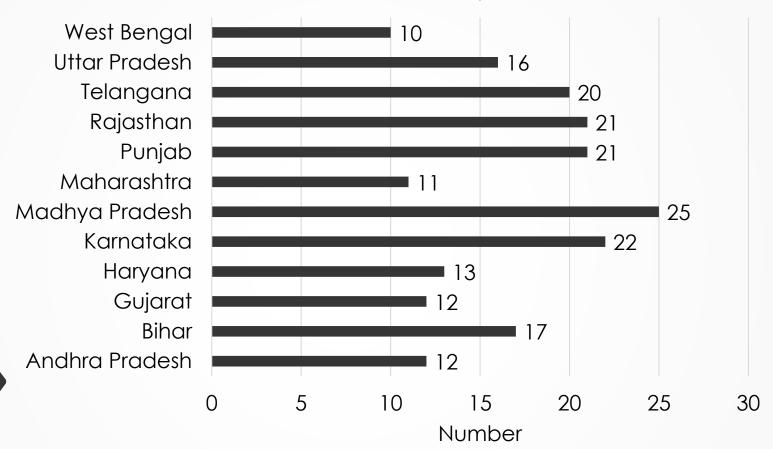
Collected from May 3rd to May 15th

12 states and 1,429 surveys







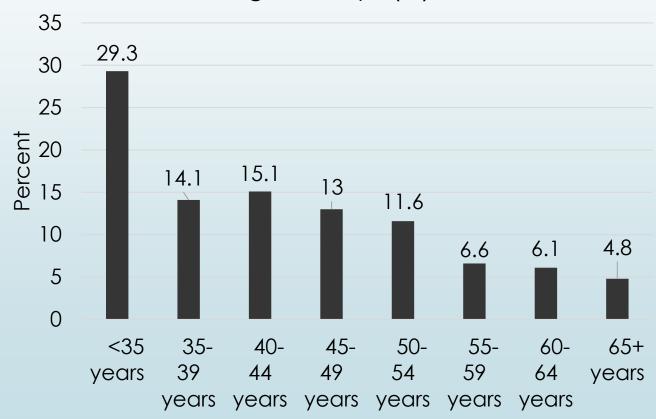


Participants from 200 Districts

Respondent Profile

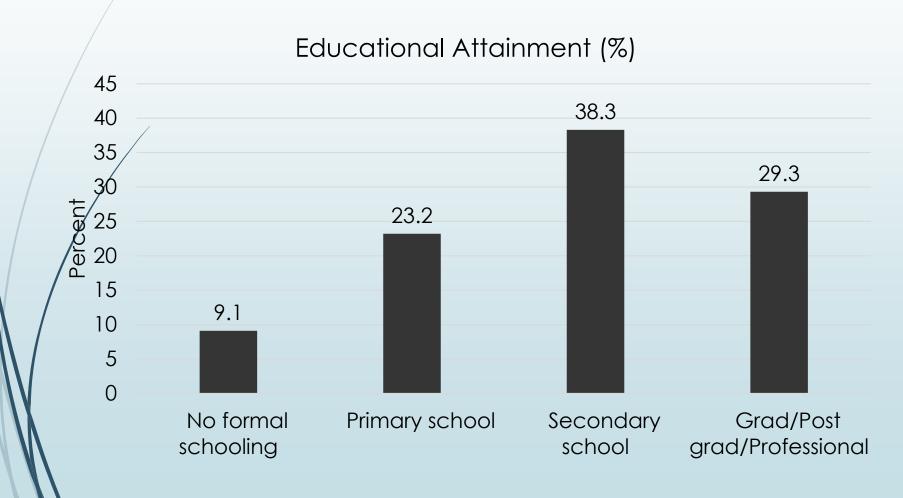




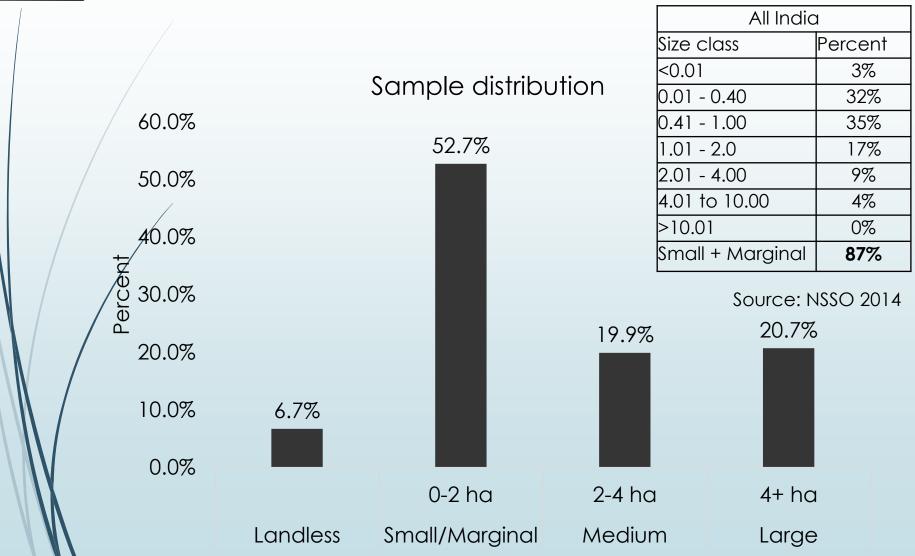


Respondent Profile

High educational attainment



Distribution by land-size



Production - Harvest



63% of respondents harvested a crop in the past month



26% reported out of season

Harvest related



10% could not harvest due to lock-down related issues



Reasons

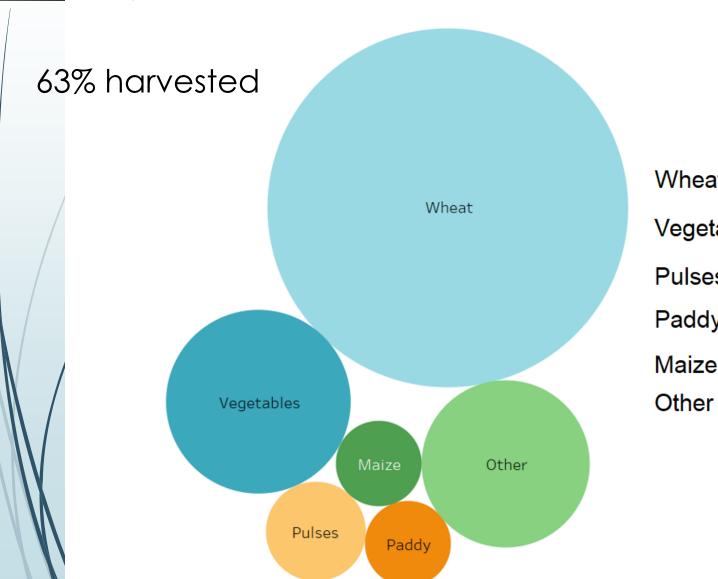
Market price

Market access

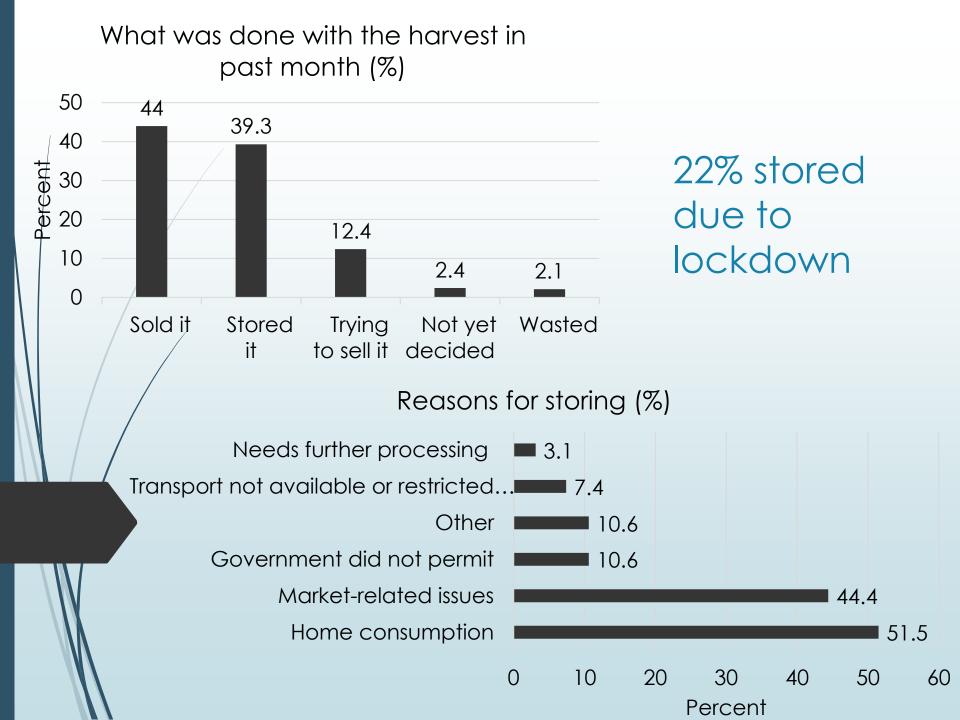
Government restrictions

Labour and machinery

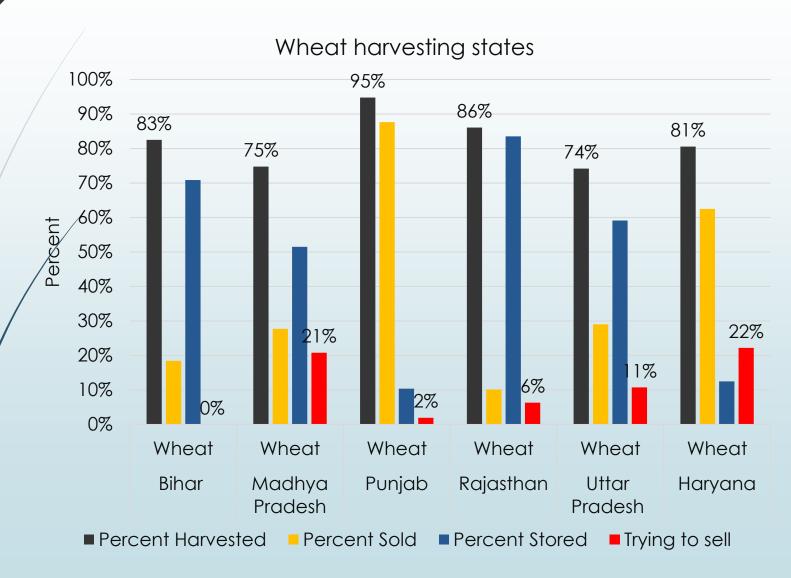
Primary crops harvested last month



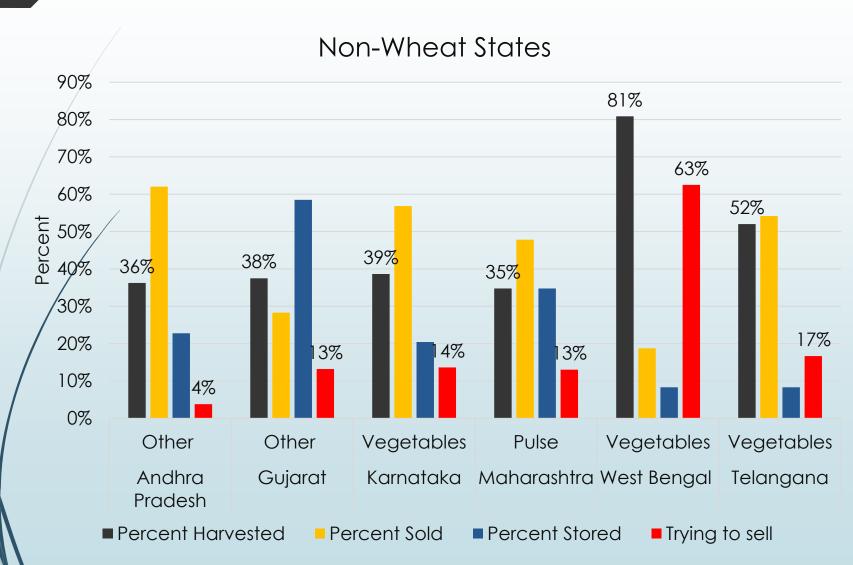
Wheat 59.9
Vegetables 15.7
Pulses 4.6
Paddy 3.4
Maize 3.4
Other 13



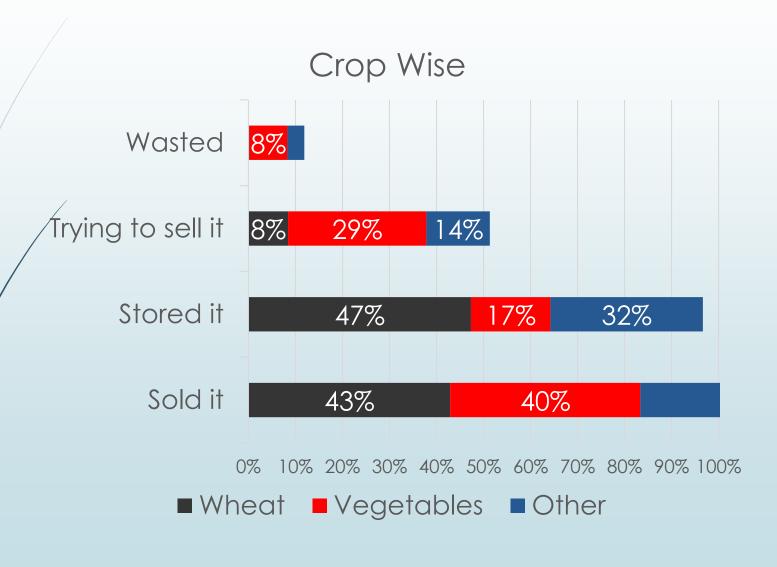
State-trends



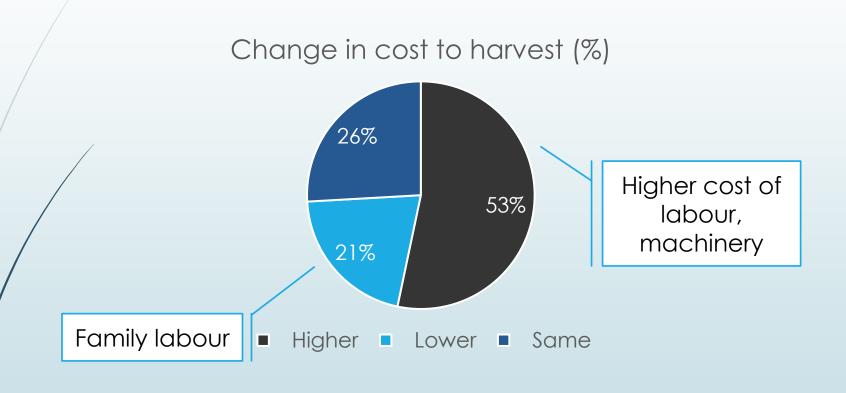
State-trends



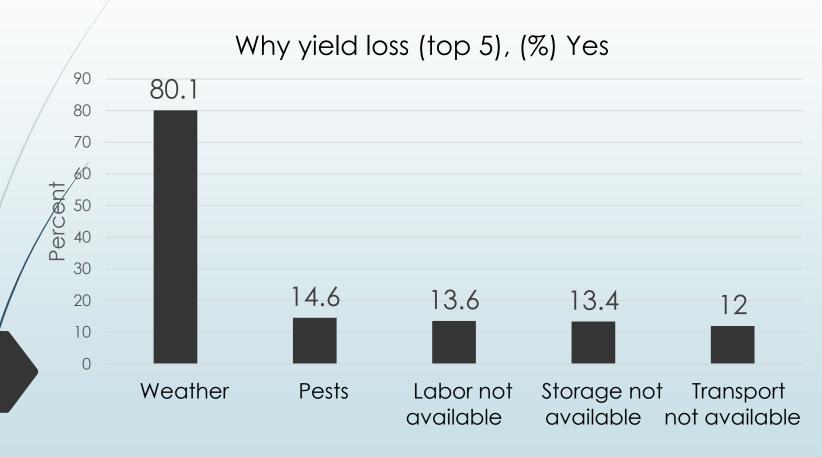
Crop-wise



Change in harvest costs (%)



60% reported yield loss compared to last season



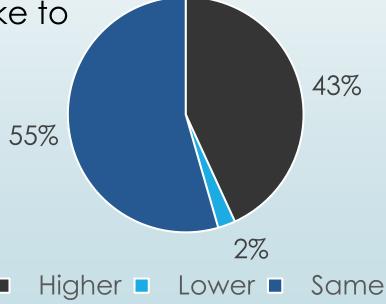
lockdown-related issues

Multiple reasons chosen: Nearly 40% reported

Change in transportation costs (%)

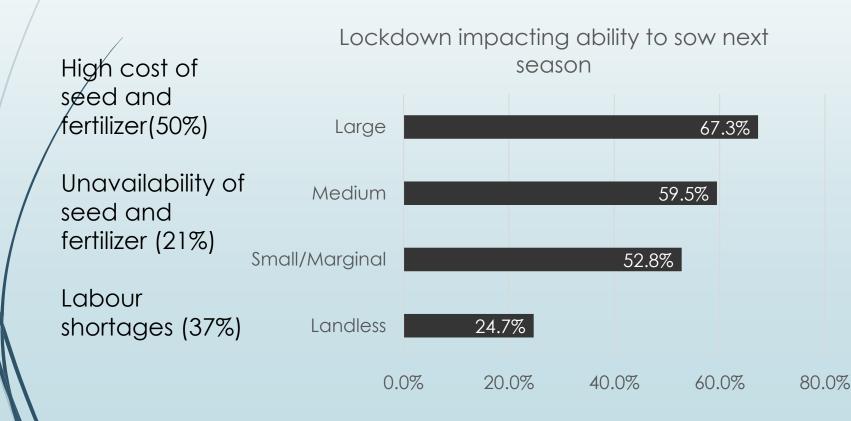
38% incurred transportation costs last year vs. 64% this year (farmers had to take to the market)

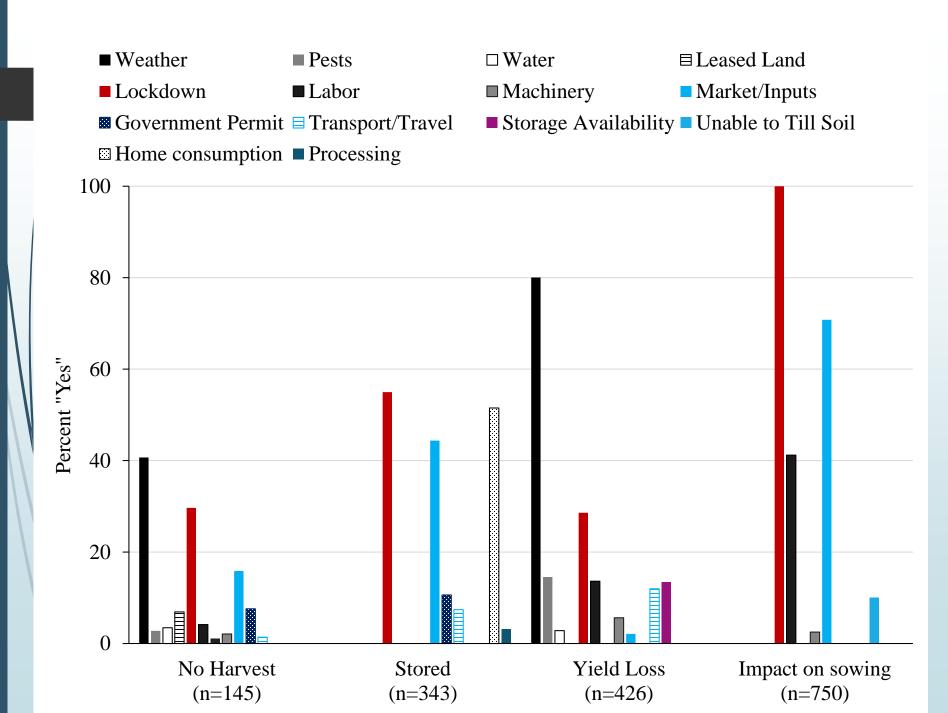
57% of wheat farmers and 35% of vegetable farmers reported higher cost



Upcoming (summer) season

56% reported that they anticipate problems for sowing in the upcoming season



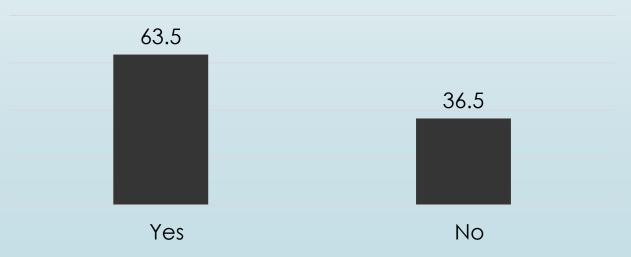


Other sources of Income

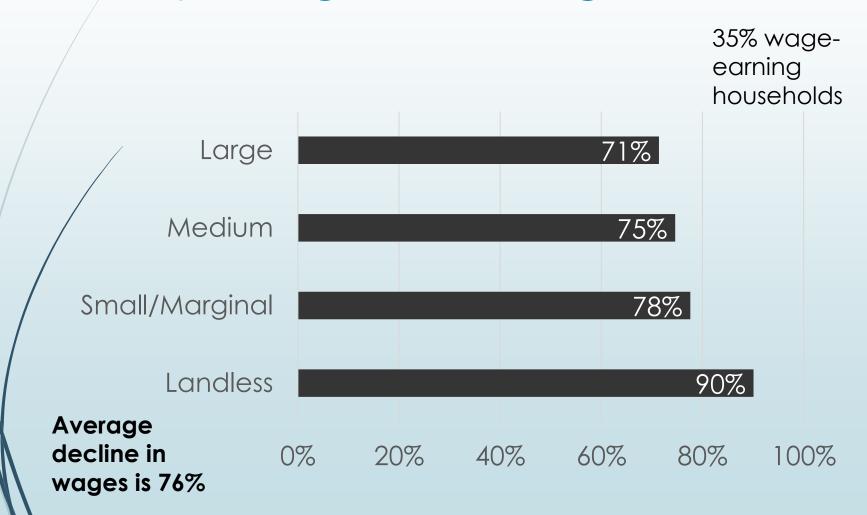
Livestock

- 77% reported owning livestock
- 72% only used for home-consumption, 28% earn income
- Of those earning an income, more than 60% reported a decline, with an average decline of 36% compared to January/February

Decline in income from livestock since January/February (%)

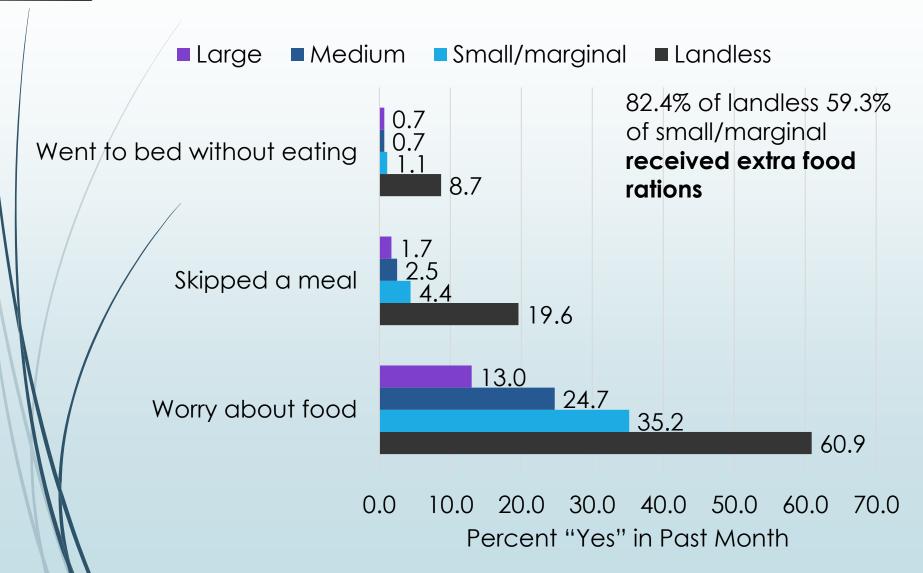


Percent households reporting loss in wages

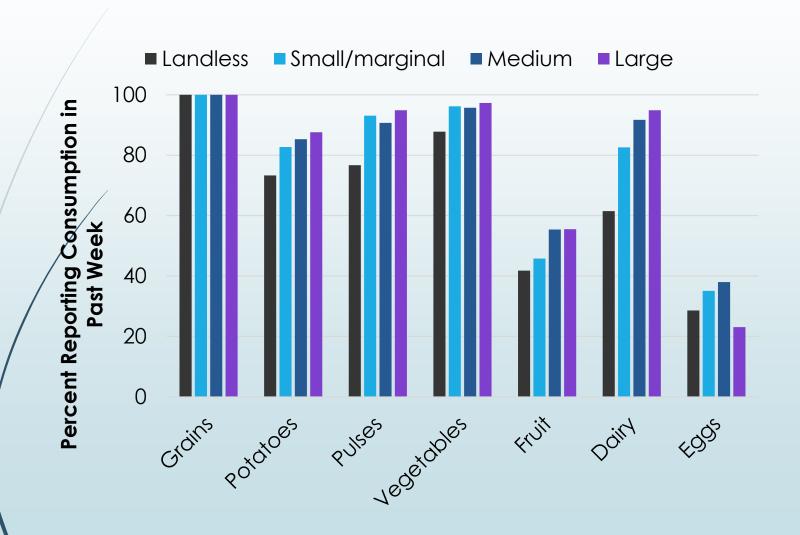


Food Insecurity

Food Insecurity



Diet diversity



Compared to other study

- Vikas Anvesh Foundation and seven well-known NGOs
- 5000+ surveys, 47 districts. Mostly lower-income regions
 - 68% reported reduction in 'items consumed'
 - 50% reported eating fewer meals
 - 84% reported Public Distribution System (PDS) support

Limitations

- Phone survey
 - Socio-cultural barriers (wages, livestock)
 - Length of survey (quantity of food, etc.)
- Sample size
- Diverse regional conditions
- Agriculture is a state subject: rootcause analysis or policy recommendations

Conclusions-Income loss

- Income loss from cultivation and livestock
 - 10% couldn't harvest
 - 22% stored due to lockdown. Small/marginal farmers had greatest difficulty
 - Reduction in yield nearly 40% of participants cited lockdown as a factor
 - 63% suffered income loss from livestock
 - Increase in harvest and transportation costs
- Livestock and wages
 - 36% reduction in livestock based income
 - 80% wage-earning households reported reduction in wages
 - 76% decline in wage income
- 53% foresaw barriers to sowing in the coming season due to the lockdown

Conclusions-Nutrition Security

- Landless farmers were 10 times more likely to skip a meal and small/marginal farmers nearly 3 times more likely as compared to large farmers
- A majority reported receiving extra food rations from the government, which has likely prevented more severe food insecurity
- More than 75% of all farmers regardless of size reported consuming grains, pulses, and vegetables in the past week and more than 50% reported consuming dairy and potatoes

Policy implications

- Marketing was a huge problem and access to market is still restricted. Needs to be eased quickly and effectively
 - Government announced 50% subsidy for transportation and storage expenses
 - Administrative hurdles for small-scale aggregators need to be removed
- Considering this as a national disaster additional 'Input support' for seed and fertilizer is required
- Depressed demand for Fresh fruits and vegetables, animal products may continue. Processing for milk, adding eggs to take-home rations, etc. will help to increase demand
 - Government has already announced
- Access to credit renewal of bank loans
 - Three-month moratorium
 - Timely issuance of fresh loans

Continued...

NREGA

- Increase in NREGA spending is timely. However, families without job-cards need to be issued cards
- Wages can be provided in advance
- Need to expand the scope of NREGA (into agriculture, etc.)
- PDS system is effective and needs to be diversified as much as possible and additional ration distribution should continue
- PM-Kisan funds should be given in a single installment before Kharif to cover income loss
 - Five states have direct income support measures should also extend the same

We would like to express our sincere gratitude for the time farmers took to respond to this survey.....

Thank you