Project Saangaati

Crops Yield Data Output Report

By

Pratima Parab *Mihir Deshpande* *Madhumita Joshi*

Preshit Dalal *Anant Chaudhari*

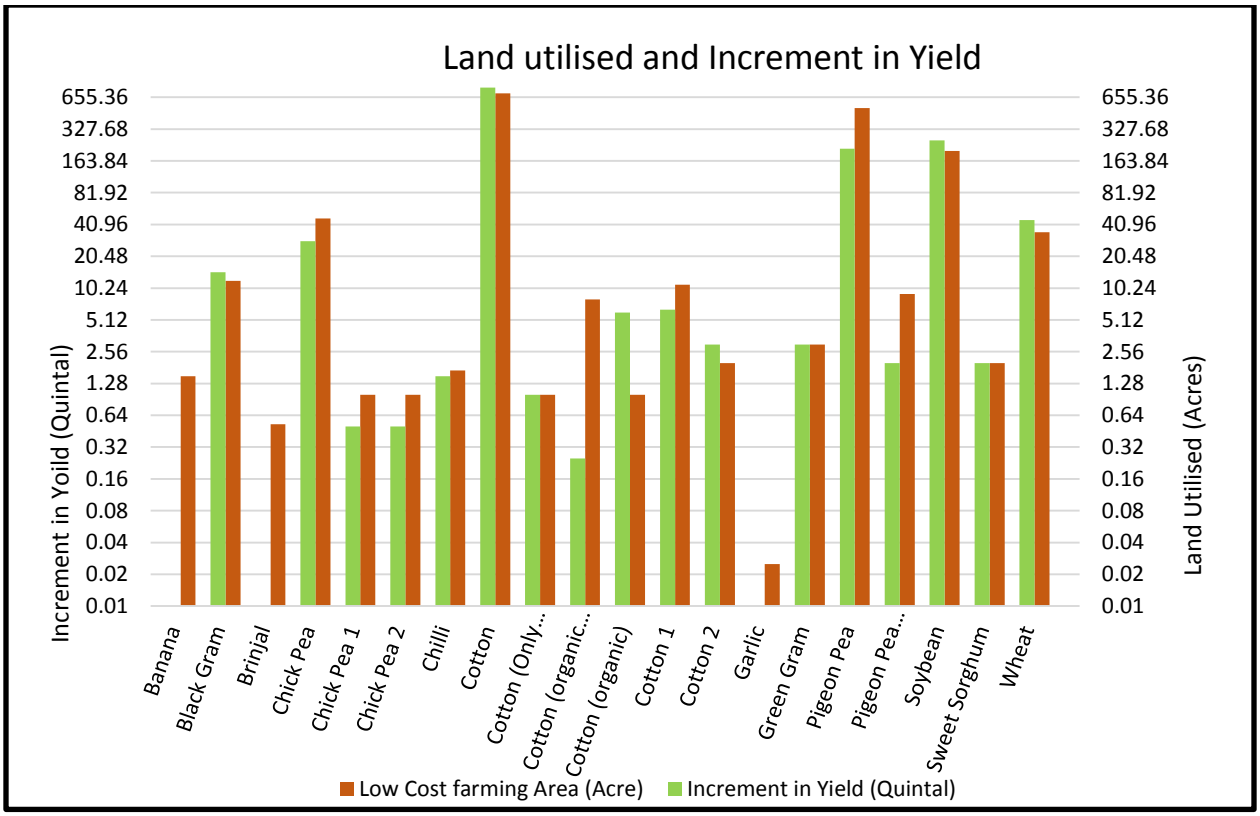
SAVE INDIAN FARMERS

http://www.saveindianfarmers.org

501 C (3) Non Profit Organization

Executive Summary:

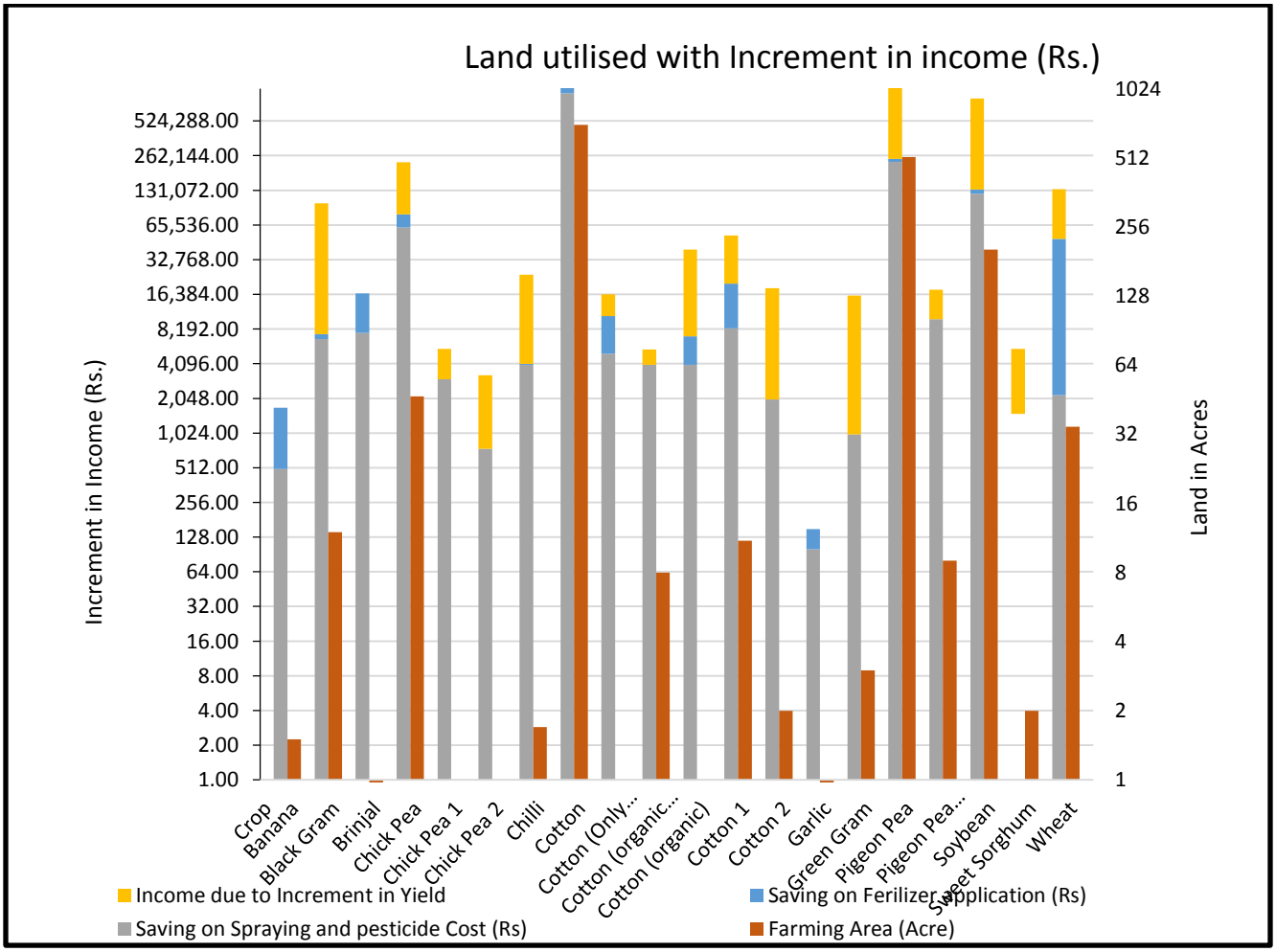
- *502 Farmers* from *45 different villages (6 clusters*) are included in this Yield Report of various (6 to 10 different) crop varieties.
- Around 1570 acres of land was cultivated with Organic techniques
- Approximately 1400 Quintals of crop was added/increase in Quantity due to Organic treatment.



- Each farmer had average increase in *Rs. 16,500* considering lowest market price of the crop.
- After 11 to 12 years, farmers saw earthworms in their farms, which were mostly gone due to use of Chemical non-organic farming (fertilizers & pesticides).
- Organic treatment was suggested and made as per the Soil testing done provided in earlier reports.
- Overall this was the first big effort in teaching Organic farming to 600+ farmers. Each farmer involved in Saagaati was asked by other neighboring farms and knowledge & awareness of organic farming was spread… A True **SAANGAATI** !

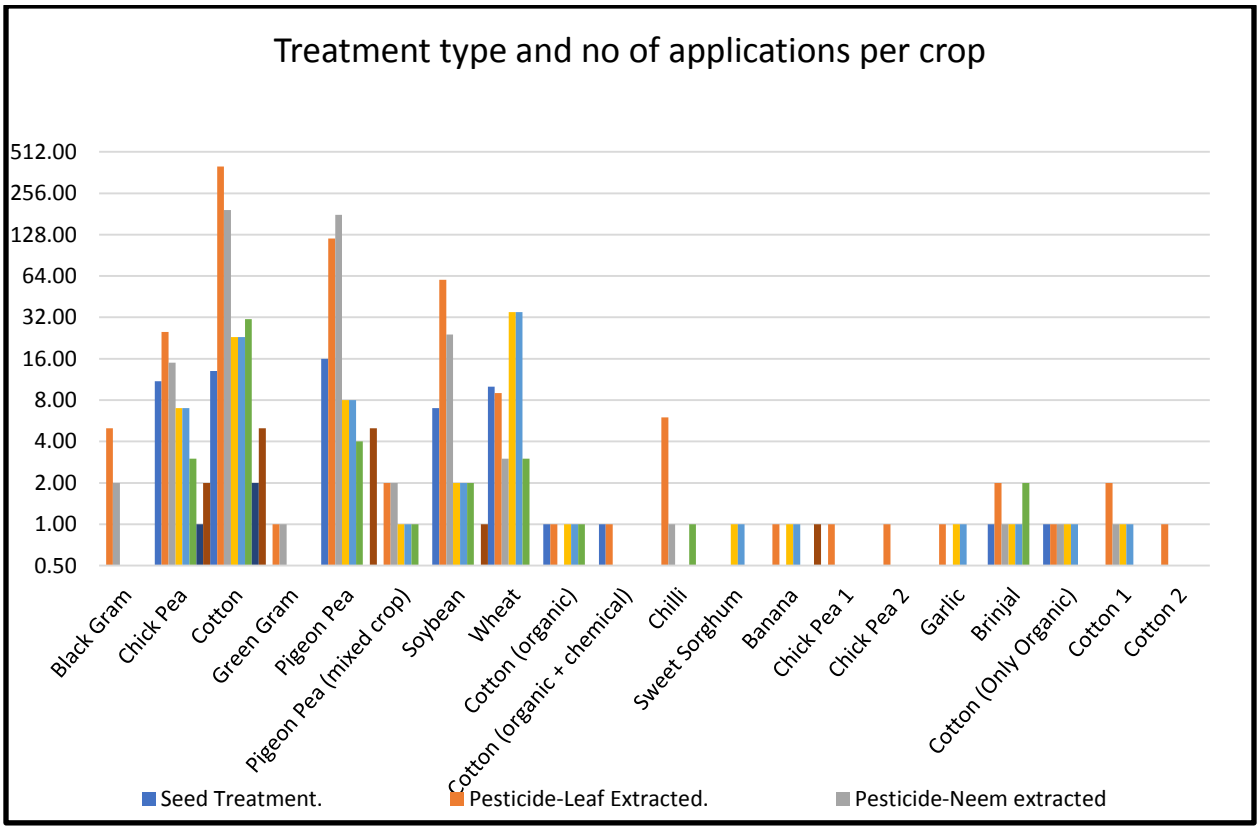
Distributed Monetary benefits (Increase) through various factors:

- Total Profit of **Rs. 8,167,120** including all the factors below.
- There was total saving of **Rs. 1,385,910** in spraying and pesticide costs.
- In Fertilizer applications costs, there was total savings of **Rs. 323,060.**
- From actual quantity of increased yield in crops, increased profit was **Rs. 6,458,150.**
- Below is the break up based on each crop profits based on each of 3 factors
    - Cotton, Pigeon Pea and Soybean had much more savings in Spraying & Pesticide costs
    - Cotton had major share in Fertilizer savings
    - Cotton was leading in actual Profit from increased actual yield, but other soybean, chick pea and Pigeon Pea were also having good profits margins from yield.



Treatment Summary:

- **Pesticide Leaf & Neem treatment was used majority number of times for Cotton & Pigeon Pea.**
- Jeevamrut was mostly used for Wheat but was common to all other crops with next major to cotton.
- Liquid fertilizer was also used for Cotton for more number of times compared to other crops.

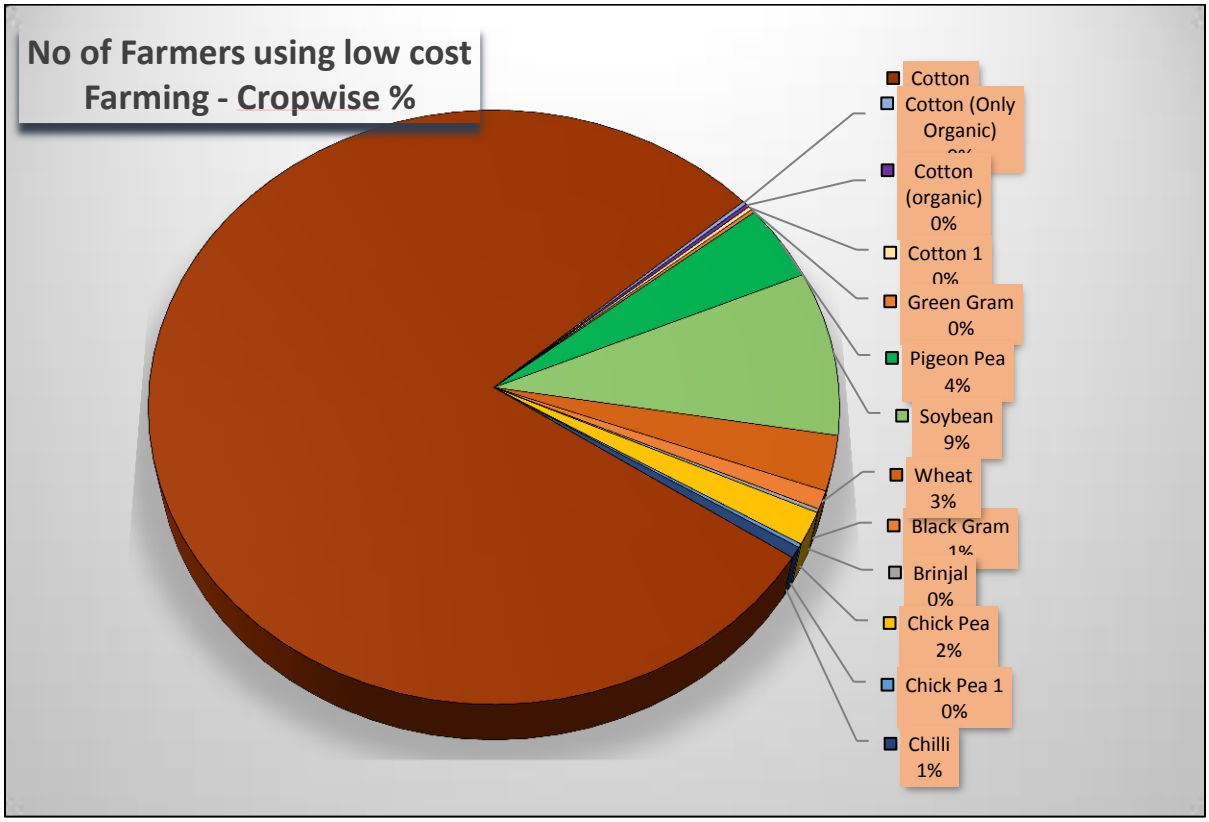


Below is the total number of Treatments of each including for all the crops in 45 villages:

Treatment:	Seed Treatment	Pesticide Leaf Extracted	Pesticide Neem extracted	Jeevamrut	Liquid Fertiliser	Compost (Tonns)	Asafoiteda + Cow urine Spray
No. of times:	61.00	1202.00	527.00	152.00	43.00	10.00	20.00

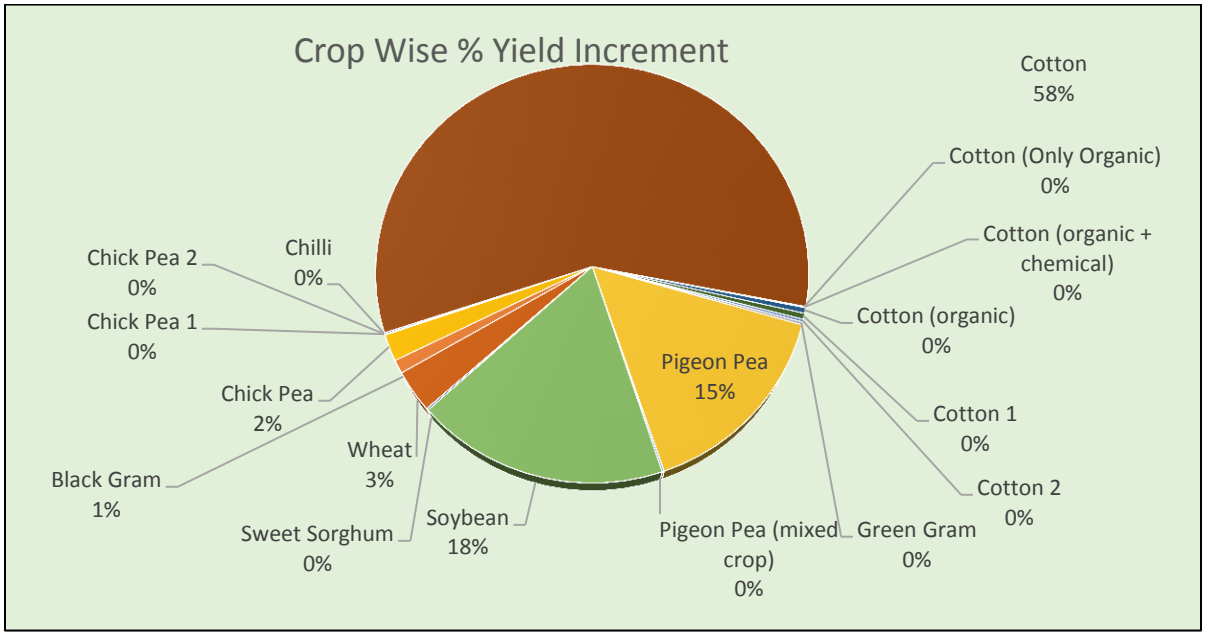
Total Number of Farmers – Percentage:

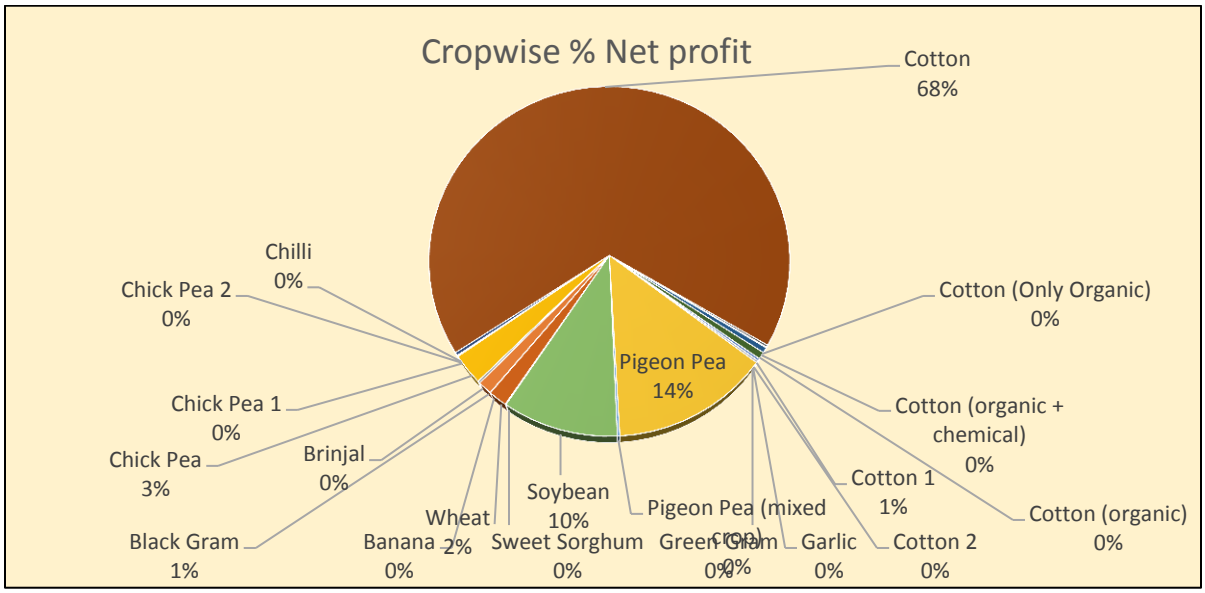
- Since the villages were from Vidarbha area (East Maharashtra) where Cotton is the main crop, mostly 79% of land area for Low-cost farming (Organic farming) was Cotton crop
- Soybean was taken by 9% of selected total farmers
- Pigeon Pea as 4% while Wheat by 3% of total farmers.
- Rest all crops were by 1% or less farmers from total farmers participating in Saagaati Organic farming.



Total Increase in Quantity and Monetary Benefit – Percentage:

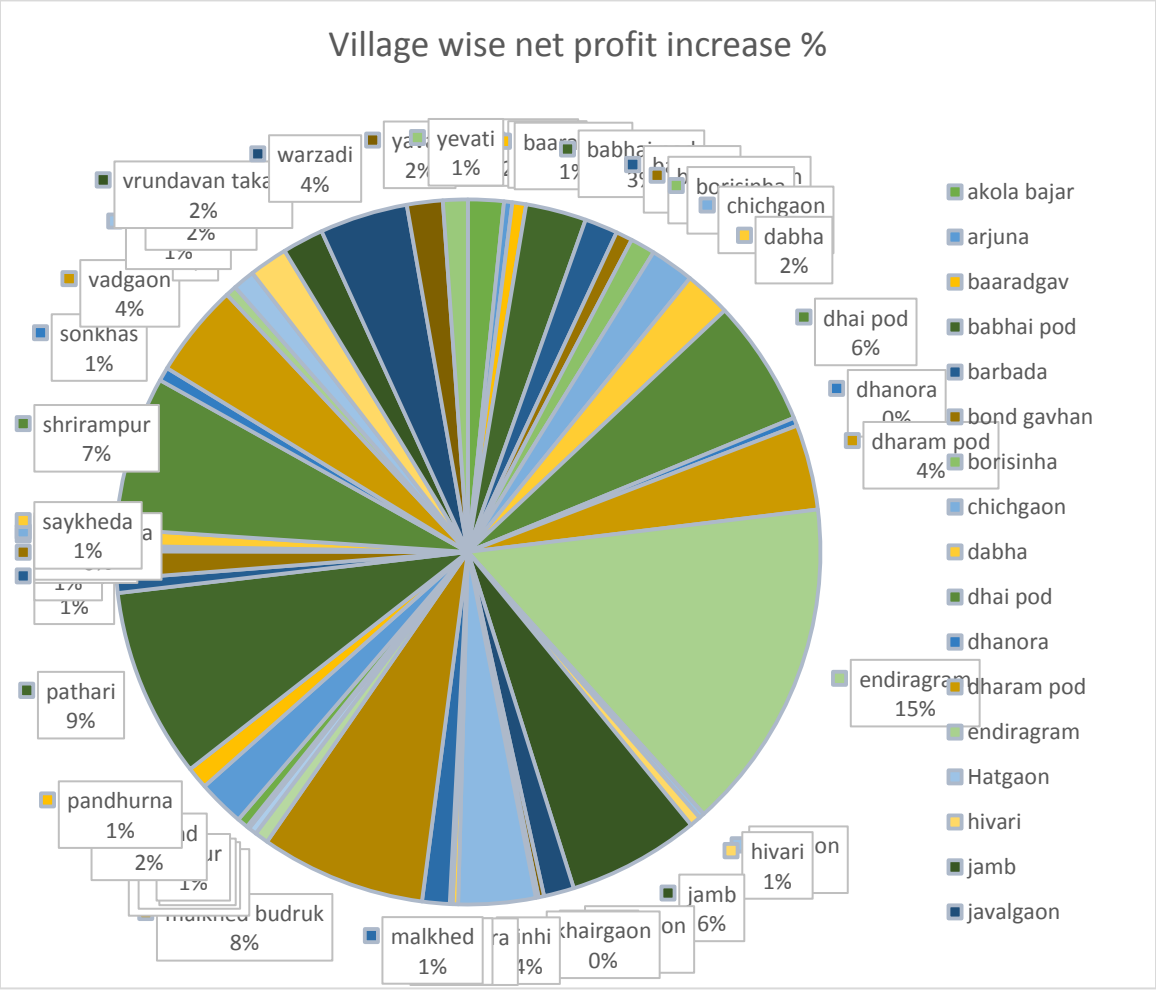
- Increase in Yield of each crop by Quantity(%) and Profit(in % Rs) was
  - Cotton as 58% increase; 68% in total increased Profit of total.
  - Pigeon Pea as 15%; and 14% in total profit increase of total
  - Soybean had 18% increase; 10% in total increased Profit of total monetary profit.
  - Wheat had 3% increase; 2% in total profit increase.
  - Other crops were 0 to1 % increase range from the total quantity & price (profit) of increased yield.





Net Profit by Villages:

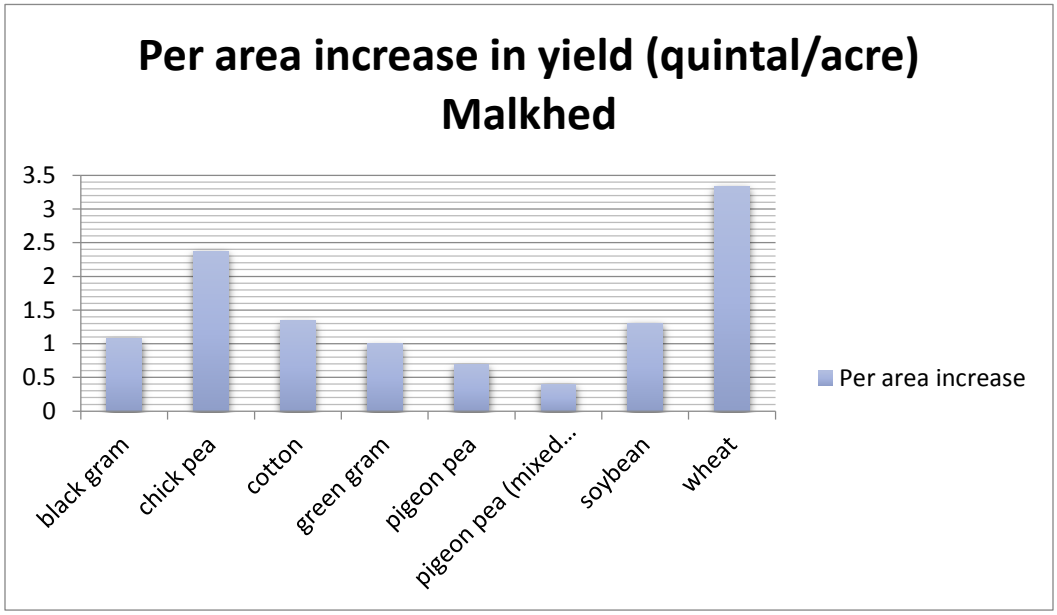
- Villages that had overall Net profit increase due to overall increased yield & savings due to Organic farming are as follows:
    - Endiragram – 15%
    - Pathari – 9%
    - Malkhed Budruk – 8%
    - Shrirampur – 7%
    - Jamb & Dahi pod – 6%
    - Vadgaon, Kinhi, Dharam pod, Warzadi – 4%
    - Babhai pod – 3%
    - Rest all villages were 1 to 2% increased profit from the overall profit share.



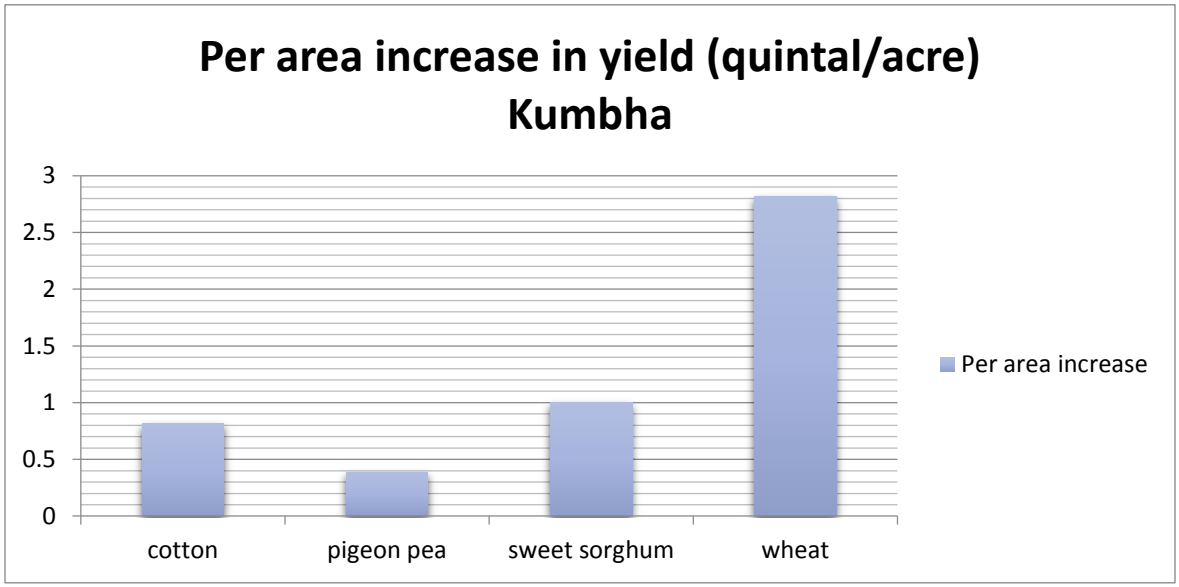
Increase in Yield in Quintals/Acre area

(by each Cluster Separated using Organic Farming)

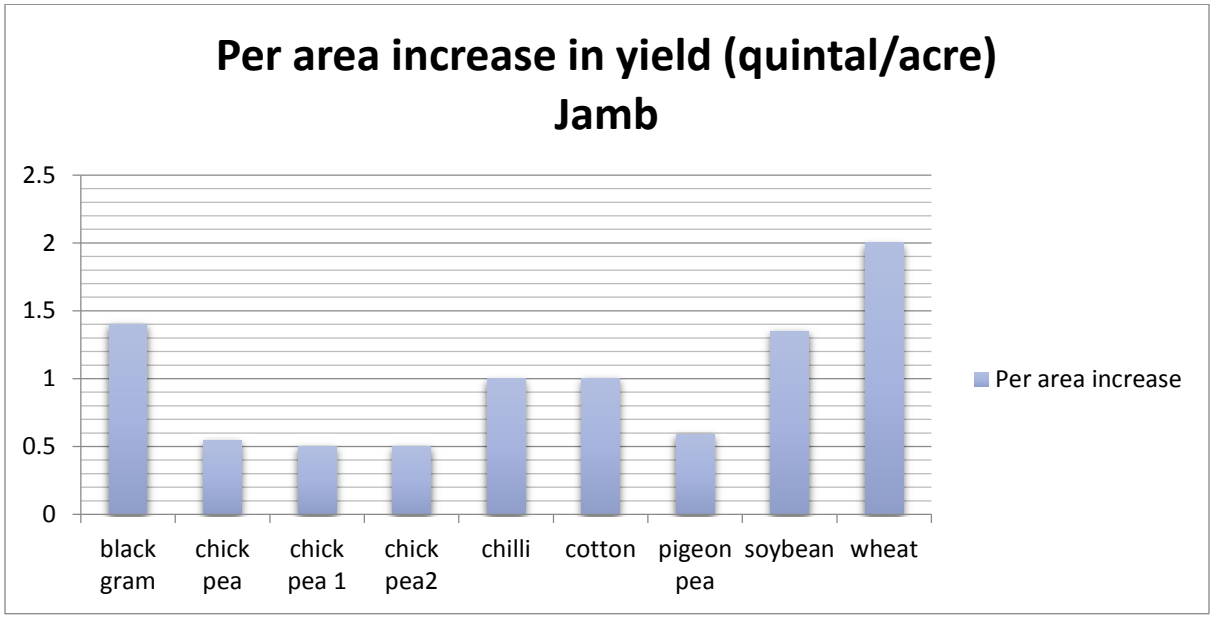
1. Wheat and Chick Pea is mostly profitable Yield in Malkhed Cluster



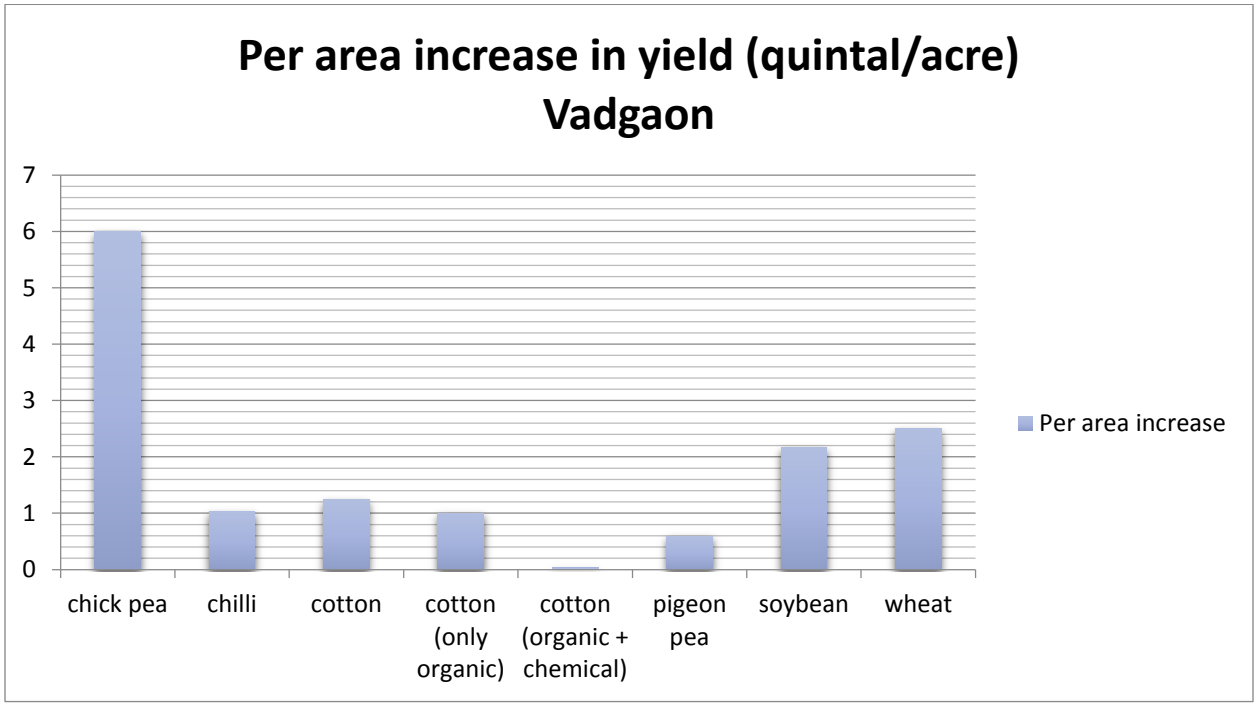
2. In Kumbha, its Wheat that was much more in yield



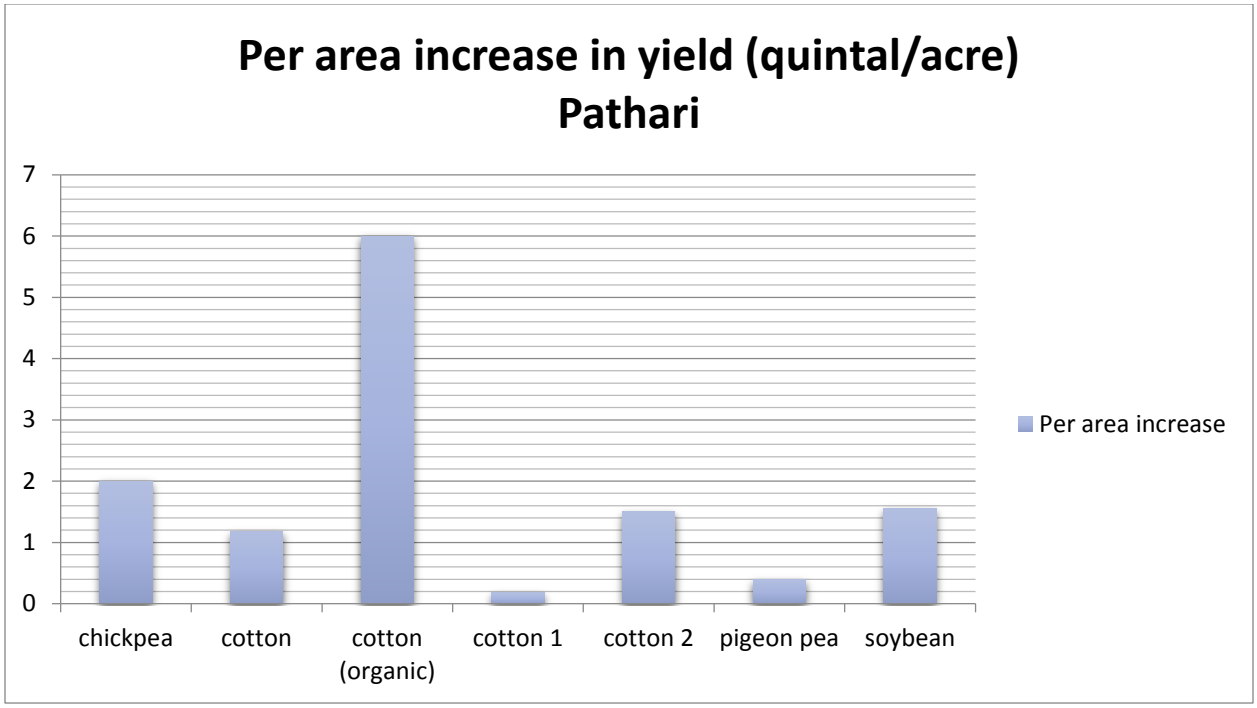
3. In Jamb Cluster, Black gram, Soybean and Wheat were profitable



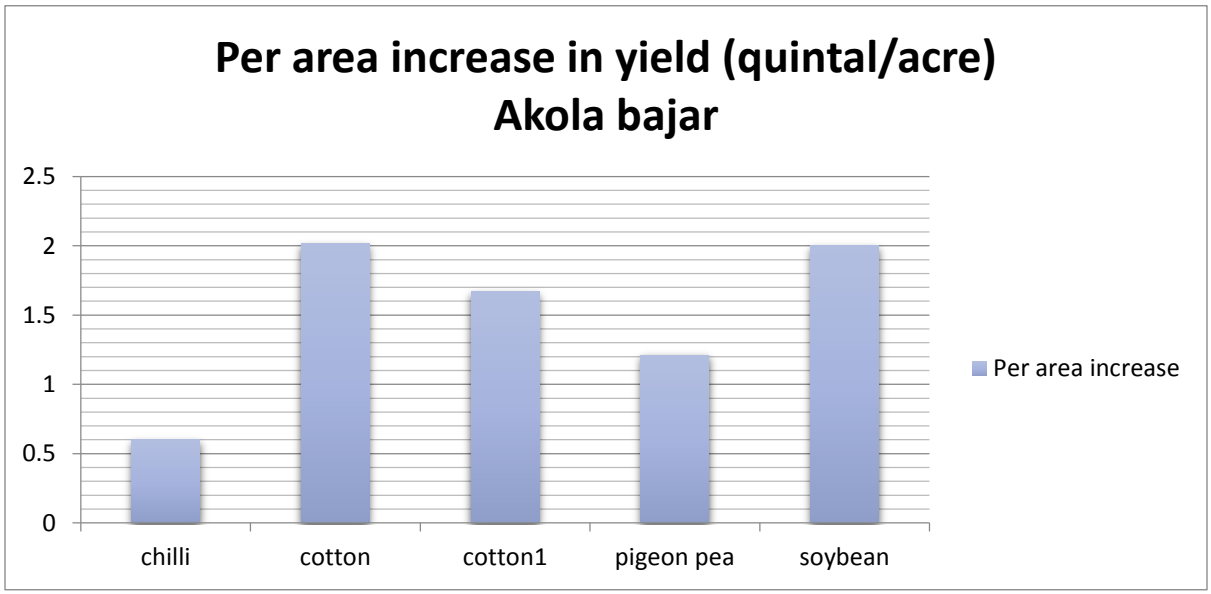
4. Chick pea surpassed in Vadgaon cluster, but Wheat and Soybean were also having good margins



5. In Pathari Village, Cotton dominated all the other crops in profitable yields



6. Whereas in Akoka Bazar, all crops – Cotton, Pigeon Pea and Soybean had equal profitable quantity outputs



APPENDIX A: Treatments

Sr No.	Cluster Name	No of villages	No of farmers	No of crops treated	Area treated (acre)	No of farmers done seed treatment	No of farmers used leaf extracted pesticide	No of farmers used neem extracted pesticide	No of farmers used jeevamrut	No of farmers used liquid fertilizer	No of farmers used cultivated compost	No of farmers used asefoiteda + cow urin sprey
1	Malkhed	10	91	8	438	15	249	148	25	22	8	3
2	Kumbha	5	134	4	331	4	289	220	29	4		
3	Jamb	8	53	12	168	8	140	43	37	5		15
4	Vadgaon	5	61	8	234	12	157	48	32	6		
5	Pathari	9	106	9	319	18	249	37	13	5	2	1
6	Akola Bajar	9	44	6	79	4	118	31	16	1		1
		46	489	47	1568	61	1202	527	152	43	10	20

APPENDIX B: Increase in Yield (Quintals) and Profit increment(Rs)

Sr No.	Cluster Name	No of villages	No of farmers	No of crops treated	Area treated (acre)	Yield of Crops (quintal)	Increase in yield (quintal)	Total saving on spraying and cost of pesticide (Rs)	Total saving on the application of fertlizer (Rs)	Total reduction in the investment (Rs)	Increament in income due to increased yield (Rs)
1	Malkhed	10	91	8	438	2159	468	434450	103950	1913750	2452150
2	Kumbha	5	134	4	331	658	214	218000	53550	1010610	1282160
3	Jamb	8	53	12	168	1018	125	139300	30910	552540	722750
4	Vadgaon	5	61	8	234	1181	179	189970	52350	890150	1132470
5	Pathari	9	106	9	319	1231	299	283790	53200	1524800	1861790
6	Akola Bajar	9	44	6	79	501	110	120400	29100	566300	715800
		46	489	47	1568	6747	1394	1385910	323060	6458150	8167120

APPENDIX C: Glimpses of Saangaati Progress

Farmer Happy with the Yield with Organic Farming

Farmers preparing Pesticide Spray for Cotton

Farmers sorting Neem/Leaves for making Dashparni arka

Testing in Lab -participation by farmers

Meeting of Farmers to discuss issues and actions