

MONITORING PESTICIDES IN VEGETABLES AND THE ENVIRONMENT IN MEERUT DISTRICT

I. INTRODUCTION

Meerut district is in the heart of India's well-known green revolution belt of western UP. Local farmers routinely use a large number of pesticides. The common ones include endosulphan, lindane, monocrotophos, chloropyriphos, thiodon, cypermethrin, etc., many of which are banned in the West due to their carcinogenic characteristics. To wean farmers away from pesticides use, Janhit Foundation, a Meerut-city based VO, has been promoting organic farming as an alternative. It has an effective presence in about 100 villages of the Ganga-Yamuna Doab region.

In a reconnaissance survey of villages around Meerut city, undertaken by PSI with the support of Janhit Foundation, pesticides' residues were found in soil and water samples. Farmers revealed that they used various pesticides, either individually or by clubbing together different ones, for growing vegetables and other crops.

Objectives

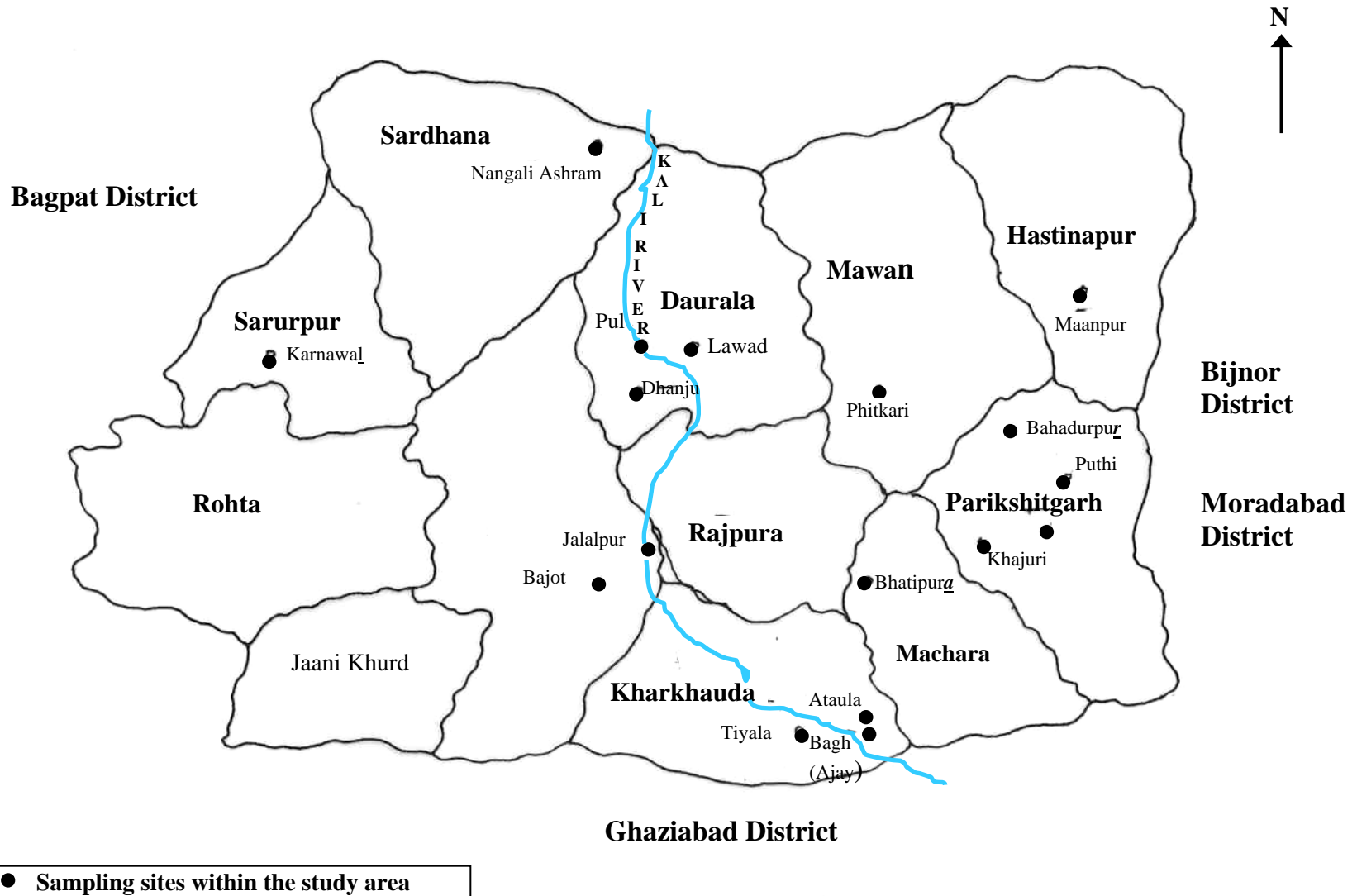
To assist Janhit Foundation's efforts to reduce the use of pesticides and promote organic farming as an alternative in Meerut district by (i) Producing data on the presence of pesticides' residues in the environment (soil and water) and vegetable crops and (ii) preparing campaign materials.

II. METHODOLOGY

The winter vegetable season in western U.P. begins in August-September. Farmers generally spray pesticides between September and November, before these crops are harvested in December and January. The summer vegetable crops are sown in April, sprayed with pesticides from end-April to June and harvested at the end of June. PSI's staff, accompanied by the staff of Janhit Foundation, collected soil and vegetable samples from different locations during the end of November 2004 and in May 2005 (See Fig.1). Considering the nature of pesticides and the possibility of their leaching into the groundwater, samples from dug wells, tube wells, and the nearby Eastern Kali river were also gathered. Fifty samples were analyzed with the help of the Gas Chromatograph in PSI's EQM lab. Information about the frequency of pesticides applications, quantity and types of pesticides used were obtained from the farmers. This information was used to select the pesticides for quantitative analyses. For sampling, extraction and analyses, EPA methods (8081A and 8141A) were followed.

Janhit Foundation used this data in its campaign to reduce the use of pesticides and promote organic farming as an alternative. PSI has assisted this campaign by producing a thousand sets of eight multi-coloured posters in Hindi on the harmful effects of pesticides and the methods and benefits of organic farming.

Fig.1: Location of sampling sites in Meerut



III. RESULTS & DISCUSSION

III.1 Results

Table 1a: Surface Water: (Sampling Date: 19.11.04 – 22.11.04)

S.No	Sample	β-BHC (µg/L)	γ-BHC (µg/L)	Heptachlor (µg/L)	Heptachlor Epoxide (µg/L)	δ-BHC (µg/L)	Aldrin (µg/L)	Unidentified peaks
SW ₁	R. Kali, v. Jalalpur	6.2	ND	2.1	32.26	ND	ND	ND
SW ₂	R.Krishni	ND	ND	ND	0.07	0.3	ND	ND
SW ₃	Pond, v Phitkari	ND	ND	ND	0.06	ND	ND	ND
SW ₄	Stream, v. Lawar	ND	ND	ND	ND	0.2	ND	ND
SW ₅	River, E.Kali	ND	8.1	ND	29.5	ND	9.9	2

Table 1b: Surface Water: (Sampling Date: 05. 05. 05 – 07. 05. 05)

S.No	Sample	β-BHC (µg/L)	γ-BHC (µg/L)	Hepta-chlor (µg/L)	Heptachlor Epoxide (µg/L)	Fipronil (µg/L)	Endo-sulfan I (µg/L)	Aldrin (µg/L)
SW ₆	Pond, v. Bhatipura	ND	ND	ND	ND	ND	ND	ND
SW ₇	Pond, v. Khajuri	ND	ND	ND	ND	ND	ND	ND
SW ₈	Pond, v. Parikshitgarh	ND	ND	ND	0.1	ND	ND	ND
SW ₉	R.Kali, v. Jalalpur	546.75	63.82	60.44	153.46	19.61	ND	16.10

Table 1c: Ground Water: (Sampling Date: 19.11.04 – 22.11.04)

S.No	Sample	β-BHC (µg/L)	γ-BHC (µg/L)	Hepta-chlor (µg/L)	Heptachlor Epoxide (µg/L)	δ-BHC (µg/L)	Aldrin (µg/L)	Unidentified peaks
GW ₁	HP, v. Jalalpur	ND	ND	ND	ND	0.4	ND	1
GW ₂	HP, v. Sakoti	ND	ND	ND	ND	0.4	ND	1

Table 1d: Ground Water: (Sampling Date: 05. 05. 05 – 07. 05. 05)

S.No	Sample	β-BHC (µg/L)	γ-BHC (µg/L)	Heptachlor (µg/L)	Heptachlor Epoxide (µg/L)	Fipronil (µg/L)	Endo-sulfan I (µg/L)	Aldrin (µg/L)
GW ₃	TW, v Bhatipura	ND	ND	ND	ND	ND	ND	ND
GW ₄	HP, v Bhatipura	ND	ND	ND	ND	ND	ND	ND
GW ₅	HP, v Parikshitgarh	ND	ND	ND	ND	ND	ND	ND
GW ₆	HP, v Poothi	ND	ND	ND	ND	ND	ND	ND
GW ₇	Desi HP, v Poothi	ND	ND	ND	0.08	ND	ND	ND
GW ₈	TW, v Bahadurpur	ND	ND	ND	ND	ND	ND	ND
GW ₉	TW, v Lawar	ND	ND	ND	ND	ND	ND	ND
GW ₁₀	Desi HP, v Lawar	ND	ND	ND	ND	ND	ND	ND
GW ₁₁	HP, v Ajay Bagh	ND	ND	ND	ND	ND	ND	ND
GW ₁₂	TW, v Dhanju	ND	ND	ND	ND	ND	ND	ND
GW ₁₃	Desi HP, v Karnaval	ND	ND	ND	ND	ND	ND	ND
GW ₁₄	Desi HP, v Bajoth	ND	ND	ND	ND	ND	ND	ND
GW ₁₅	HP, v Jalalpur	ND	ND	ND	ND	ND	ND	ND
GW ₁₆	Desi HP, v Atola	ND	ND	ND	ND	ND	ND	ND

HP=Handpump, TW=Tubewell, ND=Not Detected

Table 1e: Vegetables (Sampling Date: 5. 5. 05 – 7. 5. 05)

S.No	Sample	β-BHC (µg/kg)	γ-BHC (µg/kg)	Hepta-chlor (µg/kg)	Heptachlor Epoxide (µg/kg)	Fipronil (µg/kg)	Endo-sulfanI (µg/kg)	δ-BHC	Endrin
V ₁	Mooli v Phitkari	ND	ND	ND	6.4	ND	ND	ND	ND
V ₂	Brinjal v Phitkari	ND	ND	ND	2.0	ND	ND	ND	ND
V ₃	Tomatoes v Lawar	ND	ND	ND	2.1	ND	ND	ND	ND
V ₄	Pumpkins v Lawar	ND	ND	ND	2.8	ND	ND	ND	ND
V ₅	Torai v Lawar	ND	ND	ND	ND	ND	ND	ND	ND
V ₆	Cucumbers v Lawar	ND	ND	ND	ND	ND	ND	ND	ND
V ₇	Lauki v Lawar	ND	ND	ND	1.8	ND	2.5	ND	ND
V ₈	Green chillies v Lawar	ND	ND	ND	ND	ND	6.0	ND	ND
V ₉	Brinjal v Lawar	ND	ND	ND	ND	ND	ND	ND	ND
V ₁₀	Bhindi v Lawar	ND	ND	ND	ND	ND	ND	ND	ND
V ₁₁	Cucumbers v Bajoth.	ND	ND	ND	ND	ND	ND	ND	ND
V ₁₂	Green chillies sabzi mandi v Bajoth.	ND	ND	ND	ND	ND	ND	ND	ND
V ₁₃	Tomatoes sabzi mandi v Bajoth.	ND	ND	ND	ND	ND	ND	ND	ND
V ₁₄	Brinjals sabzi mandi v Bajoth.	ND	ND	6.6	2.7	ND	12.69	101.3	11.1
V ₁₅	Palak sabzi mandi v Bajoth.	ND	ND	ND	ND	57.6	ND	ND	ND
V ₁₆	Mangoes v Manpur.	ND	ND	ND	ND	ND	ND	ND	ND

Table 1f: Soil (Sampling Date: 05. 05. 05 – 07. 05. 05)

S.No	Sample (Name of the village)	Fipronil (µg/kg)	Endrin Aldehyde (µg/kg)	Hepta-chlor (µg/kg)	Heptachlor Epoxide (µg/kg)	Dieldrin	Endosulfan -II (µg/kg)	4,4' DDE
So ₁	Bhatipura	30.6	ND	ND	26.32	ND	ND	ND
So ₂	Poothi	60.81	ND	ND	ND	ND	ND	ND
So ₃	Lawar	233.7	78.82	ND	ND	5.73	5.21	456.7
So ₄	Dhanju	145.5	ND	6.78	8.68	ND	ND	ND
So ₅	Karnaval	475.76	ND	11.01	22.33	ND	ND	ND
So ₆	Bajoth	41.33	ND	ND	ND	ND	ND	ND
So ₇	Jalalpur	142.07	ND	ND	ND	ND	ND	ND
So ₈	Tiala	35.48	ND	ND	ND	ND	ND	ND
So ₉	Atola	28.47	ND	ND	ND	ND	ND	ND

ND: Not Detected

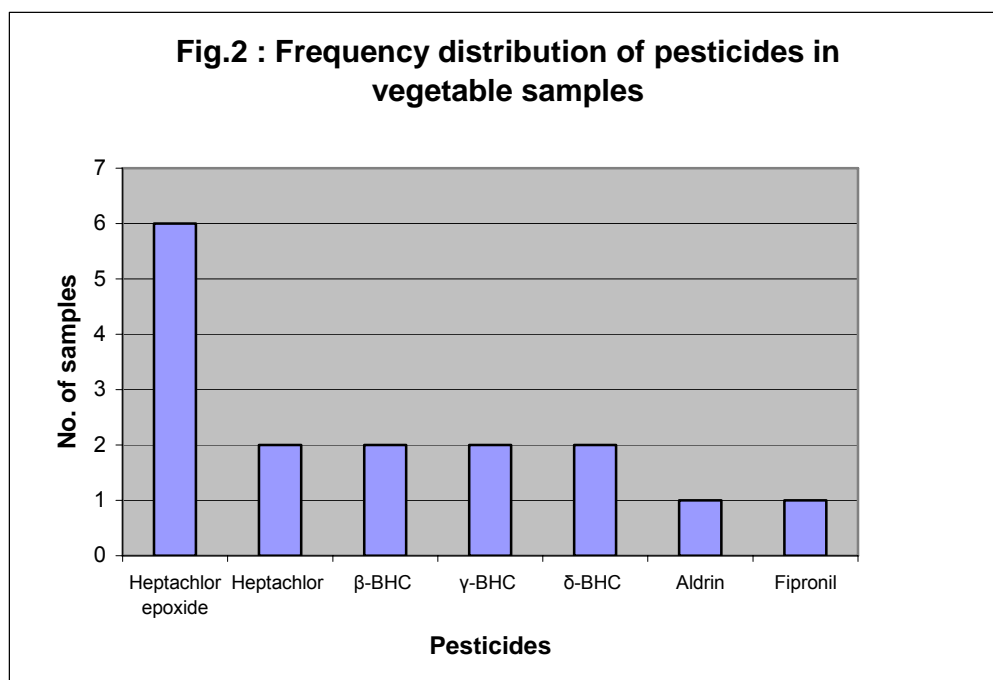
III.2 Discussion

The results of the GC analyses are summarized in the Table 2 below.

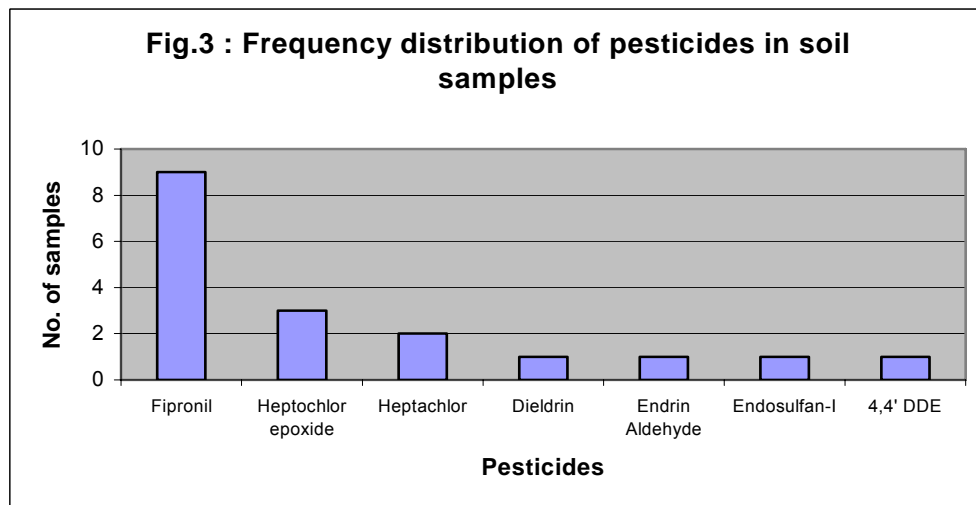
Table 2: Summary of results

S. No.	Type of sample	Total no. of samples	No. of samples with pesticides residue	Pesticides Found
1	Surface water	9	7	β -BHC, γ -BHC, Heptachlor, Heptachlor Epoxide, δ -BHC, Aldrin, Fipronil, plus unidentified peaks
2	Ground water	16	3	Heptachlor Epoxide, δ -BHC, plus unidentified peaks
3	Soil	9	9	Heptachlor, Heptachlor Epoxide, Fipronil, Endrin Aldehyde, Dieldrin, Endosulfan II and 4,4' DDE
4	Vegetable	16	8	Heptachlor, Heptachlor Epoxide, Fipronil, Endrin, Endosulfan I and δ -BHC

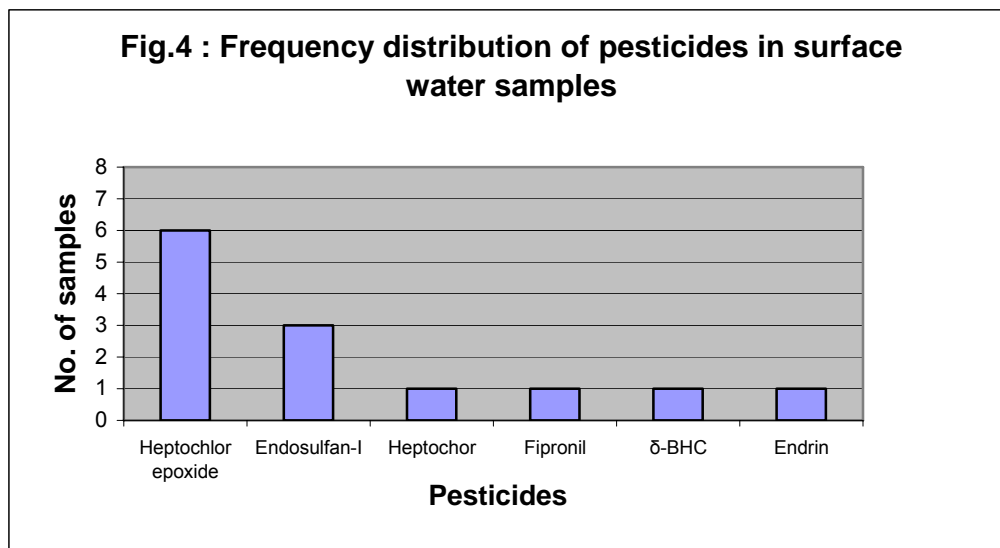
Vegetables: Eight vegetable samples from a total of 16, each from a different location, showed the presence of pesticides' residues. Six of the eight contaminated samples had only one type of residue -- Heptachlor epoxide alone in 4 samples, Endosulfan -I alone in 1 sample and Fipronil alone in 1 sample; one sample had residues of two pesticides (Heptachlor epoxide and Endosulfan-I) and one sample showed the presence of five different pesticides. The concentrations of pesticides ranged from a low of 1.8 ppb ($\mu\text{g}/\text{kg}$) of Heptachlor epoxide to a high of 101.3 ppb of δ -BHC. **There are, however, no available Indian standards for pesticides in vegetables.** The frequency distribution for the different types of pesticides is shown in the bar chart (Fig. 2) below.



Soil: All the nine soil samples recorded the presence of Fipronil, a moderately hazardous class-II organochlorine insecticide.² Interestingly only one sample, each, of surface water and vegetables had Fipronil while no ground water sample recorded any Fipronil. Fipronil residues tend to stay in the upper 15 cm. of the soil and exhibit low potential to leach into the groundwater.³ Other pesticides found in the soil samples were Heptachlor (two samples), Heptachlor epoxide (3), Endrin aldehyde (1), Dieldrin (1), Endosulfan-II (1) and 4-4' DDE (1). Their concentrations ranged from a low of 5.21 ppb (Endosulfan-II) to a high of 78.82 ppb (Endrin aldehyde). The concentration of Fipronil in soil ranged from a low of 28.47 ppb to a high of 475.76 ppb. **There are, however, no Indian standards for pesticides in soil.**



Surface Water: Seven samples of surface water out of the nine analyzed contained pesticides. Seven types of pesticides out of the eight that were monitored were present in the surface water samples. Thus it is clear that most of the pesticides sprayed in the fields run off into the surface water bodies. Their frequency distribution is shown in Fig. 4 below.



² International Programme on Chemical Safety (1998): Environmental Health Criteria, WHO, Geneva.

³ U.S. Environmental Protection Agency (1996): Fipronil Pesticide Fact Sheet EPA737-F-96-005, Washington, D.C.

The insecticides Heptachlor epoxide and δ -BHC were found most frequently in the surface water samples, whereas none of the samples contained Endosulfan. Five unidentified peaks were also found in three samples. The concentrations of Heptachlor epoxide ranged from 0.06 $\mu\text{g/L}$ or, parts per billion (ppb), to 32.26 ppb. δ -BHC concentrations on the other hand were generally lower, ranging from 0.2 ppb to 0.4 ppb. The relative abundance of Heptachlor epoxide and δ -BHC can be attributed to the interconversion of relatively unstable isomers into stable degraded products.

All the three Kali river samples had a mix of pesticides in them. One sample of the river water taken from Jalalpur village had six types of pesticides in it with concentrations ranging from a low of 16.1 ppb (Aldrin) to a high of 546.75 ppb (β -BHC).

The surface water data thus suggest that most of the pesticides sprayed in the fields run off into the surface water bodies, where they tend to persist. More surface water samples analyzed in November 2004, at the end of the spraying season, had pesticides in them (and a greater variety) than in May 2005, at the start of the spraying season. It is also likely that in May there was not enough time or rain to transport the pesticides from the fields to the water bodies.

Ground Water: Only two pesticides were found in three out of the 16 ground water samples. Their concentrations were also low, ranging from 0.08 ppb (Heptachlor Epoxide) to 0.4 ppb (δ -BHC). The comparative absence of pesticides in the ground water is contrary to their relative abundance in surface water bodies. It indicates that runoff from the fields transports the pesticides to the surface water bodies and that the pesticides have a limited potential to leach through the soil into the ground water. The pesticides monitored in this project are organo-chlorines. The leaching potential of organo-phosphatic pesticides may be different.

III.3 Conclusions

The above data show that **farmers in Meerut district spray** a variety of pesticides in their fields. These include **banned and restricted pesticides** such as Aldrin, Endrin, Dieldrin and Heptachlor (all banned) and BHC, Lindane (both restricted). ⁴ **It is clear that most of the pesticides sprayed in the fields end up in the surface water bodies.** The data also suggests that the pesticides tend to persist in the soil and surface water bodies.

IV. SUPPORT TO ORGANIC FARMING CAMPAIGN

In a sense, Janhit Foundation's campaign against the use of pesticides and in favour of organic farming began during the collection of the samples. During the reconnaissance survey and sampling visits, the scientists from People's Science Institute (PSI) and the staff of Janhit Foundation met with farmers in their fields. During the sampling, farmers helped collect samples from their fields. At the same time, PSI's scientists and Janhit's staff helped the farmers to understand the need for the study and the need for alternatives to chemical pesticides.

While the analyses were being done in PSI's laboratory in Dehra Doon, the staff of Janhit Foundation met the Block Development Officers (BDOs) in the different blocks of Meerut district. At informal interactions with local farmers in the BDO's office they were told about the various adverse health impacts of pesticides use. They were given a demonstration at a unit set up outside the BDO's office. Typically, around 15 percent of the farmers showed an interest in organic

⁴ N.P. Agnihotri (1999): Pesticide Safety Evaluation and Monitoring, All India Coordinated Research Project on Pesticide Residues, IARI, New Delhi, pp22-23; Central Insecticides Board (CIB), Faridabad, 2005.

farming. They were then enrolled in Janhit's campaign to promote organic farming. Free earthworms and five kilograms of traditional seeds were provided to these farmers to start organic farming. Janhit Foundation regularly monitored the progress made by these farmers.

During the campaign phase, PSI's scientists provided study materials and technical support to the Janhit staff. They also visited the working area of Janhit Foundation in Meerut district to keep abreast of the campaign's progress. At the same time they developed their own knowledge base on alternative farming practices like natural, organic and biodynamic farming, alternatives to pesticides and integrated pest management. They attended several workshops on this subject and built alliances with groups like Kheti Virasat in Punjab and Thanal Conservation Council in Kerala who are promoting similar concepts in their respective areas. They met successful organic farmers in Uttaranchal, Uttar Pradesh, Himachal Pradesh and Punjab to understand the different technical and economic aspects of organic farming. They also approached institutions like the Uttaranchal Organic Commodity Board, Dehra Doon and Centre for Sustainable Agriculture in Hyderabad to understand the market dynamics and certification procedures involved in marketing organic produce.

Once the laboratory analysis and data interpretation was over, PSI's scientists prepared a set of 8 multicoloured posters (See Annexure 5). Then along with a team of Janhit's field staff they held meetings in the villages from where they had collected the samples and presented the results of their study. The discussions focused on the effects of chemicals based farming on soil quality, experiences in Bathinda, Kasargod and other pesticides affected areas of the country and the methods, benefits and economics of organic farming. They advised them to start organic farming in two bighas of their fields for their own consumption. This would give them an idea about the feasibility of the process and would also ensure that at least they would not be eating pesticides-laced food.

Once the laboratory analysis and data interpretation was over, PSI's scientists took active part in Janhit Foundation's awareness campaign. A set of 8 multicoloured posters was produced as campaign material. PSI's scientists went along with a Janhit team to well-attended farmers' meetings in the villages from where they had collected their samples. They highlighted the results of their study, the adverse health impacts of pesticides use and the effects of chemicals-based farming on the soil. They also drew parallels between Meerut and Bathinda, Kasargod and other pesticides ravaged areas of the country. The Janhit team talked about the methods and benefits of organic farming.

The farmers raised many questions and doubts, particularly about the economic and technical feasibility of alternatives to pesticides-based farming, e.g.:

- Although we see the negative effects of pesticides, what other options do we have?
- How is the shift from chemical to organic farming going to affect the crop yield, because most of us are marginal farmers?
- Do we have any solutions for area-specific problems like the termites that are affecting our fields?
- What are bio-pesticides? Are they available in the market?
- Do we have a market for the organic produce?
- How are organic products certified? Is certification necessary for selling organic products?
- What is the State Government doing to promote organic farming?

The PSI/Janhit staff agreed with the farmers that a sudden shift to sustainable and profitable organic farming was not possible. The process would need to be gradual but sustained. They advised the farmers to start organic farming in two bighas of their fields for their own consumption. This would give them an idea about the feasibility of the process and would also ensure that at least they were not eating the pesticides-laced food themselves. It would also limit the initial loss of productivity during the changeover. The key to successful alternative farming practices was multiple cropping including timber, cereals, pulses, oilseeds and vegetables crops. Additional activities such as dairy, poultry and apiary farming can augment income and ensure that manure and seeds are produced on the farm.

As far as the area specific problems were concerned, PSI's scientists and the Janhit staff suggested the use of neem and neem-based products to tackle the problem of termites. They told the farmers that the certification processes for organic farm products was a slow one. Generally it takes about three years of organic cultivation to get a national certification and about 7-8 years for international certification. The Janhit staff agreed to conduct training on different aspects of organic farming in their villages.

The PSI /Janhit team emphasized that a clear-cut state policy on organic farming had to be put in place and that the farmers would have to mobilize political support for it. A desirable policy would provide organic farmers with easier access to enhanced low-interest loans and other institutional credit facilities from government financial institutions.

Responding to the farmers demands for training Janhit Foundation along with PSI approached the National Centre for Organic Farming (NCOF) in Ghaziabad for funds to conduct training programmes on organic farming. NCOF recognised Janhit Foundation as a training institution for organic farming. A small sum of Rs. 13,000 was released by NCOF to conduct these workshops. One two-day orientation workshop has already been organised in Meerut. Four other workshops will be organized to cover the entire district. The study conducted by PSI has been highlighted in the training materials given in these workshops.

During the campaign PSI's team verified that Janhit Foundation had enrolled 209 farmers as practitioners of organic farming in 2004. As a result of the activities described above, another 182 farmers were enrolled 2005. At the same time, however, about 30 farmers from the 2004 list had stopped organic farming in 2005. Lists of these practitioners are appended at the end of this report.

V. CONCLUSIONS

The study of pesticides in the environment and vegetables in Meerut district shows that farmers in Meerut district spray a variety of pesticides in their fields. These include banned and restricted pesticides such as Aldrin, Endrin, Dieldrin and Heptachlor (all banned) and BHC, Lindane (both restricted).⁵ Most of the pesticides sprayed in the fields end up in the surface water bodies. Interestingly, only a tiny fraction of the organo-chlorine pesticides appear to leach into the ground water. The data also suggests that the pesticides studied tend to persist in the soil and surface water bodies.

Interactions with local farmers show that they are aware of the harmful nature of chemical pesticides, but in a general way. They are, however, not well informed about the alternatives.

⁵ N.P. Agnihotri (1999): Pesticide Safety Evaluation and Monitoring, All India Coordinated Research Project on Pesticide Residues, IARI, New Delhi, pp22-23; Central Insecticides Board (CIB), Faridabad, 2005.

Discussions regarding organic farming, during the awareness campaign highlighted the economic difficulties associated with the switch-over. This calls for policy changes that favour organic farming. During the project period the number of farmers enrolled with PSI's project partner, Janhit Foundation, as practitioners of organic farming increased from 209 in 2004 to about 360 in 2005.

ORGANIC FARMER'S LIST 2004

S. No.	Name of Farmer	Village	Block
1.	Omveer Singh s/o Hari Singh	Sona	Parikshitgarh
2.	Sonath Malik s/o Rajendra Malik	Atalpur	Parikshitgarh
3.	Udayveer s/o Shyam Singh	Sona	Parikshitgarh
4.	Bhopal Singh s/o Atar Singh	Narangpur	Parikshitgarh
5.	Chatarpal Singh s/o Amar Singh	Nagla Gosie	Parikshitgarh
6.	Sonath s/o Nain Singh	Ramnagar	Parikshitgarh
7.	Ashwani Kumar s/o Surendra Singh	Khatki	Parikshitgarh
8.	Ranveer Saini s/o Khajan Saini	Ahmadnagar Badhla	Parikshitgarh
9.	Mahendra Tyagi s/o Sukkanbhar	Poothi	Parikshitgarh
10.	Sunit Tyagi s/o Vedprakash Tyagi	Rajpur	Parikshitgarh
11.	Ravindra Yadav s/o Krisanpal Yadav	Dhanpur	Parikshitgarh
12.	Kanwarpal Tyagi s/o Atar Singh	Veernagar	Parikshitgarh
13.	Sanjeev Kumar s/o Chatar Singh	Bali	Parikshitgarh
14.	Munnalal Saini s/o Bhajjad Saini	Khatki	Parikshitgarh
15.	Jamsed Ali s/o Sagar Ali	Bhadarpur	Parikshitgarh
16.	Baljeet s/o Raj Singh	Asirabad	Parikshitgarh
17.	Vijay Tyagi s/o Raghuraj Tyagi	Rajpur	Parikshitgarh
18.	Satyaveer s/o Sangram Singh	Badhla-12	Parikshitgarh
19.	Mangu Singh s/o Ramphal	Jatola	Parikshitgarh
20.	Kiranpal s/o Bhagmal	Ahmadpuri	Parikshitgarh
21.	Rajveer Singh s/o Kheemchand Tomar	Enchi Khurd	Parikshitgarh
22.	Vijay Kumar s/o Mehkar Singh	Enchi Kalan	Parikshitgarh
23.	Nareshpal s/o Giriraj Singh	Dayalpur	Parikshitgarh
24.	Yashpal s/o Khoob Singh	Amar Singh	Parikshitgarh
25.	Ravindra Nagar s/o Subhash Nagar	Sikheda	Parikshitgarh
26.	Gyan Singh s/o Rajpal Singh	Bhidwara	Parikshitgarh
27.	Dayachand s/o Hosiyar Singh	Nawal Surajpur	Parikshitgarh
28.	Satendra Kumar s/o Dayaram Singh	Durveshpur	Parikshitgarh
29.	Rakam Yadav s/o Fateh Yadav	Tofapur	Parikshitgarh
30.	Gopichand	Parikshitgarh	Parikshitgarh
31.	Chaman Singh	Bondra	Parikshitgarh
32.	Sanjeev Kumar s/o Chatar Singh	Bali	Parikshitgarh
33.	Chatar Singh s/o Hukam Singh	Bondra	Parikshitgarh
34.	Sunil Prakash s/o Virendra Singh	Parikshitgarh	Parikshitgarh
35.	Nek Singh s/o Narendra Singh	Badhla-8	Parikshitgarh
36.	Ashok Kumar s/o Amar Singh	Nagla Gosie	Parikshitgarh
37.	Surendra Kumar s/o Maharaj Singh	Fafunda	Parikshitgarh
38.	Devendra s/o Kale Singh	Mohudinpur	Meerut
39.	Ser Singh s/o Hariya	Mohamadpur Gumi	Meerut
40.	Arun Kumar s/o Ramasre	Chandsara	Meerut

41.	Dhanpal s/o Teekam Singh	Gagol	Meerut
42.	Satyaprakash s/o Roop Singh	Upledha	Meerut
43.	Nand Kishor s/o Jaypal Singh	Mohudinpur	Meerut
44.	Satish Kumar s/o Omprakash Singh	Jalalpur	Meerut
45.	Vijay Kumar s/o Mehkar Singh	Uplehda	Meerut
46.	Vipin s/o Rajpal Singh	Kayasth Gaowdi	Meerut
47.	Sanjeev Kumar s/o Bhram Singh	Bhadarpur	Meerut
48.	Mangilal s/o Khachedu Sharma	Nai Basti Itayra	Meerut
49.	Mehkar s/o Raghuveer Singh	Gagol	Meerut
50.	Akhil Kumar s/o Tejveer Singh	Ikla	Meerut
51.	Gurbachan s/o Malkhan Singh	Chajjupur	Meerut
52.	Chand Saini s/o Dalel Saini	Dhimoli	Meerut
53.	Anil Kumar s/o Rampal Singh	Bhoodbaral	Meerut
54.	Sandeep Pandhal s/o Dharampal	Kasath Gaowdi	Meerut
55.	Bijendra s/o Sarbachan Singh	Mehroli	Meerut
56.	Rajeev Sharma s/o Rajendar Sharma	Kayasth Gaowdi	Meerut
57.	Surendra Singh s/o Jai Singh	Narheda	Meerut
58.	Vinod Tyagi s/o Balkishor Tyagi	Bajot	Meerut
59.	Vijay Singh s/o Khakak Singh	Balrampur Kheda	Meerut
60.	Pannalal s/o Mangatram	Itayra	Meerut
61.	Anar Singh s/o Jai Singh	Gagol	Meerut
62.	Jaypal s/o Ramchandra	Jureenpur	Meerut
63.	Ratan Saini s/o Raghuwardayal Saini	Dhimoli	Jani
64.	Aabid Ali s/o Subhan Ali	Chandora	Jani
65.	Ranbeer Singh s/o Hosiyar Singh	Kheramajra Panchli	Jani
66.	Ajay Singh s/o Brijpal Singh	Pastra	Jani
67.	Suresh Jindar s/o Jaiprakash Jindal	Jani Khurd	Jani
68.	Jaigopal Sharma s/o Khachedu	Kajmabad Goon	Jani
69.	Pappu Singh s/o Mahendra Singh	Sisola Khurd	Jani
70.	Hemant s/o Jaswant Singh	Bhoop Garhi	Jani
71.	Faruq s/o Mustaq	Sisola Bujurg	Jani
72.	Kanwarpal s/o Bhoop Singh	Dhindhala	Jani
73.	Ishwar Chand s/o Durga Prasad	Meerpur Jakheda	Jani
74.	Sunil Kumar s/o Ishwar Singh	Panchgadhi	Jani
75.	Kanwarpal s/o Raghuveer Singh	Nandpura	Jani
76.	Bheem s/o Mamchand	Behrampur Khas	Jani
77.	Baburam s/o Katar Singh	Morna	Jani
78.	Jaipal Singh s/o Atar Singh	Nek	Jani
79.	Ashwani Kumar s/o Balbeer Singh	Timkiya	Jani
80.	Rajbeer Singh s/o Giriraj Singh	Chobla	Jani
81.	Satyapal s/o Asharam	Dhadra	Jani
82.	Indarpal s/o Satyapal	Amanullapur	Jani
83.	Rajeev Kumar s/o Shyamveer Singh	Amanullapur	Jani
84.	Chandveer s/o Sansarpal	Satwai	Jani
85.	Omdutt Sharma s/o Pooran Sharma	Kurali	Jani
86.	Noormohamad Ali s/o Abdudin Ali	Jani Bujurg	Jani
87.	Sukrampal s/o Laliram	Bafar	Jani
88.	Sanjay Sharma s/o Ramgopal Sharma	Bafar	Jani
89.	Naresh Kumar s/o Hari Singh	Anjoli	Jani
90.	Dharamveer s/o Chatar Singh	Soharka	Jani

91.	Roopbhagwan s/o Pusan Singh	Kalanjri	Jani
92.	Bhopal Singh s/o Mamchand	Panchli Khurd	Jani
93.	Ijajudin s/o Hamimudin	Bhavi	Jani
94.	Harpal s/o Balbeer	Vasa Tikri	Jani
95.	Dharamveer s/o Kishori Singh	Niwari	Jani
96.	Dharamveer Singh s/o Jiaram Singh	Lehrra	Jani
97.	Kuldeep Singh s/o Ikthyar Singh	Khanpur	Jani
98.	Mahaveer Singh s/o Soraj Singh	Gejha	Jani
99.	Jagpal s/o Khachedu Singh	Goon	Jani
100.	Yograj Saini s/o Mangatram Saini	Poothri	Jani
101.	Sanjeev s/o Rajpal	Gejha	Jani
102.	Nepal s/o Rishipal	Seepura	Jani
103.	Subhash Gotam s/o Ompal Singh	Dhindhala	Jani
104.	Ajad Ali s/o Sadiq Ali	Chandora	Jani
105.	Anil s/o Khachedu	Fejabad Goon	Jani
106.	Chandarpal s/o Sohanlal	Mehpa	Jani
107.	Arun Kumar s/o Baburam	Siwalkhas Dehat	Jani
108.	Jhabbar Ali	Nagla Kumbha	Jani
109.	Lakshyadeep s/o Jaichand Yadav	Mohamadpur Gumi	Jani
110.	Surendra Yadav s/o Ishwar Yadav	Daluheda	Jani
111.	Seespal Yadav s/o Puran Chand	Rawa	Jani
112.	Vivek Yadav s/o Karnal Yadav	Meerpur Jakheda	Jani
113.	Sashibhusan s/o Vedprakash Sharma	Behrampur Khas	Jani
114.	Yashpal s/o Budh Prakash	Bhagwargarh Jani Bujurg Majra	Jani
115.	Vinod Kumar s/o Genda Singh	Rampur Pawti	Jani
116.	Surendra Singh s/o Khajan Singh	Sisola Khurd	Jani
117.	Ramchandra s/o Brijpal Singh	Mansafgarh	Jani
118.	Vikas s/o Jagveer Singh	Raghunathpur	Jani
119.	Arun Kumar s/o Ishwar Singh	Behrampur Morna	Jani
120.	Pramod s/o Seespal	Vasa Tikri	Jani
121.	Sonveer s/o Vijaypal Singh	Lohda	Jani
122.	Ram Singh s/o Bhagwan Singh	Kusedi	Jani
123.	Tasrif Ali s/o Osak Ali	Rasoolpur Dholdi	Jani
124.	Jagveer Singh s/o Charan Singh	Kusedi	Jani
125.	Ratan Singh s/o Raghuvveer Singh	Nanu Fatehpur	Jani
126.	Shripal s/o Prabhu Singh	Afjalpur Pawti	Jani
127.	Icha Self Helf Group	Mehpa	Jani
128.	Ramratan Saini s/o Raghuardayal	Dhimoli	Jani
129.	Brijbhusan s/o Raghuvveer Singh	Kharkhoda	Kharkhoda
130.	Gurdeep Singh s/o Dalchand	Uldhan Ki Mandheya	Kharkhoda
131.	Vijay Kumar s/o Dalchand	Uldhan	Kharkhoda
132.	Jayveer Singh s/o Gannu Singh	Nalpur	Kharkhoda
133.	Gajendra s/o Bhram Singh	Setukuan	Kharkhoda
134.	Brijesh Tyagi s/o Shrinivas Tyagi	Kaili	Kharkhoda
135.	Samarpal s/o Vedpal Singh	Atola	Kharkhoda
136.	Babutek Chand s/o Beerbal Singh	Sofiyabad Lotai	Kharkhoda
137.	Mohit s/o Ratan Singh	Khandrawli	Kharkhoda
138.	Dharambeer Singh s/o Amar Singh	Janjokhar	Rohta
139.	Adesh Sharma s/o Krishan Sharma	Fatehpur	Rohta

140.	Jogindra s/o Hosiyar Singh	Budhabhola	Rohta
141.	Ravindra s/o Dhoom Singh	Madhi	Rohta
142.	Neetu Sharma w/o Parsuram Sharma	Arnawli	Rohta
143.	Jogindra s/o Panchilal	Kaithwari	Rohta
144.	Jagdish s/o Amar Singh	Dilawra	Rohta
145.	Ramchandra s/o Lal Singh	Kalina	Rohta
146.	Atul Sharma s/o Mangalsen Sharma	Ghasoli	Rohta
147.	Bhagirath Singh s/o Chandrabhan	Majra	Rohta
148.	Pikesh Tyagi s/o Kasiram Tyagi	Banwaripur	Rohta
149.	Rambhool Tyagi s/o Omprakash	Lahorgarh	Rohta
150.	Amrish Kumar s/o Ishwar Singh	Narangpur	Rohta
151.	Ravindra s/o Dhoom Singh	Rasoolpur Madhi	Rohta
152.	Sanjay Kumar s/o Sureshpal Singh	Poothkhas	Rohta
153.	Rajpal Singh s/o Jaipal Singh	Hasanpur Rajapur	Rohta
154.	Omveer Singh s/o Atal Singh	Bondra	Rohta
155.	Manoj Kumar s/o Randheer Singh	Rohta	Rohta
156.	Ravindra Arya Prakash Chand	Rohta	Rohta
157.	Asharani w/o Tejpal Singh	Poothkhas	Rohta
158.	Mahesh Dutt s/o Ramanand Sharma	Kinoni	Rohta
159.	Vikrant s/o Ombeer Singh	Kalyanpur	Rohta
160.	Shiv Kumar s/o Atar Singh	Thirot	Rohta
161.	Satyaprakash s/o Dola Singh	Jatola	Rohta
162.	Dharampal s/o Hargulal	Uksia	Rohta
163.	Sokeen Tyagi s/o Islam Ali	Rasna	Rohta
164.	Boby Tyagi s/o Jaidrath Tyagi	Rasna	Rohta
165.	Umesh s/o Vishram Singh	Mirzapur	Rohta
166.	Rajendra s/o Rishipal	Ukhleena	Rohta
167.	Veersen s/o Nahar Singh	Alamgirpur	Rohta
168.	Rajeev s/o Omveer Singh	Alamgirpur	Rohta
169.	Omprakash s/o Ramprashad	Ukhleena	Rohta
170.	Naresh s/o Dharamveer Singh	Ukhleena	Rohta
171.	Madanlal s/o Ramphal Singh	Alamgirpur	Rohta
172.	Praveen Kumar s/o Jaikaran Singh	Dalampur	Rohta
173.	Samay Singh s/o Bhullan Singh	Chindori	Rohta
174.	Sanjay Singh s/o Sukhbeer Singh	Sahpur Jainpur	Rohta
175.	Chaman Singh s/o Harpal Singh	Jangethi	Rohta
176.	Ombeer Singh s/o Bhanwar Singh	Ajampur	Rohta
177.	Ombeer Singh s/o Hukam Singh	Jatpura	Rohta
178.	Dinesh s/o Ilam Singh	Rasoolpur	Rohta
179.	Mitthanlal s/o Swaroop Chand	Dungar	Rohta
180.	Sobeer Singh s/o Jagpal Singh	Idrishpur	Rohta
181.	Kisanpal s/o Harpal Chaudhary	Pepla Idrishpur	Rohta
182.	Suganveer Singh s/o Mahendar Singh	Jatpura	Rohta
183.	Amardeep Chaudhary s/o Amardeep	Rohta	Rohta
184.	Subhash Chand s/o Budh Singh	Bhola	Rohta
185.	Pramod Kumar s/o Harishchand	Salahpur	Rohta
186.	Rajesh Kumar s/o Maharaj Singh	Dungar	Rohta
187.	Kapil Tyagi s/o Gangasaran Tyagi	Lahorgarh	Rohta
188.	Narendra Tyagi s/o Ramdas Tyagi	Lahorgarh	Rohta
189.	Momeen s/o Basar Ahmad	Kalyanpur	Rohta

190.	Ravindra s/o Dharamveer	Meerpur	Rohta
191.	Yameen s/o Baseer	Kalyanpur	Rohta
192.	Somendra s/o Bhagwan Sharma	Rohta	Rohta
193.	Rameshchand s/o Harishchand	Rohta	Rohta
194.	Amrish s/o Ishwar Singh	Narangpur	Rohta
195.	Sokeen Ali s/o Islam Ali	Damgarhi	Rohta
196.	Rishipal Singh	Sekhpuri	Rohta
197.	Ravindra Singh s/o Dharamveer Singh	Meerpur	Rohta
198.	Raju s/o Summari	Janjokhar	Rohta
199.	Mah Singh	Sindhawli	Rohta
200.	Nanakchand s/o Kaluram	Alamgirpur	Rohta
201.	Chande s/o Mamchand	Alamgirpur	Rohta
202.	Ramdhari s/o Natthan Singh	Alamgirpur	Rohta
203.	Rambeer Singh s/o Natthan Singh	Alamgirpur	Rohta
204.	Vimal s/o Ramphal Singh	Alamgirpur	Rohta
205.	Hariom Tyagi s/o Natthan Tyagi	Badam	Rohta
206.	Samarpal Singh	Sahpur Jainpur	Rohta
207.	Pradeep Kumar s/o Saranbeer Singh	Rampur Moti	Rohta
208.	Triveni Prasad	Mavi	Machra
209.	Pankaj Tyagi	Khandrawli	Machra

Total Area Under Organic Farming in Meerut (2004) - 20 Hectare

ORGANIC FARMER'S LIST 2005

S. No.	Name of Farmer	Village	Block
1.	Rajbeer Singh	Poothi	Parikshitgarh
2.	Subhash Chand	Poothi	Parikshitgarh
3.	Amit Kumar	Poothi	Parikshitgarh
4.	Sandeep Tyagi s/o Bharat Tyagi	Poothi	Parikshitgarh
5.	Sanjay Tyagi s/o Kalicharan Tyagi	Poothi	Parikshitgarh
6.	Surendra Singh	Poothi	Parikshitgarh
7.	Pradeep Singh	Poothi	Parikshitgarh
8.	Deepak Singh	Ramnagar	Parikshitgarh
9.	Ombeer Singh	Ramnagar	Parikshitgarh
10.	Anuj Singh	Ramnagar	Parikshitgarh
11.	Tej Singh	Ramnagar	Parikshitgarh
12.	Asheram	Ramnagar	Parikshitgarh
13.	Nakul Singh	Ramnagar	Parikshitgarh
14.	Dharampal Singh	Mavi	Parikshitgarh
15.	Kamal Singh	Sikhera	Parikshitgarh
16.	Ashok Giri	Ainchi Khurd	Parikshitgarh
17.	Rajendra Singh	Narangpur	Parikshitgarh
18.	Ajeet Singh	Bhidwara	Parikshitgarh
19.	Ramkishan	Amargarh	Parikshitgarh
20.	Gotam Singh	Amargarh	Parikshitgarh
21.	Yogendra Singh	Mehpa	Jani
22.	Jagpal Singh	Mehpa	Jani
23.	Brijpal Singh	Mehpa	Jani

24.	Soraj Singh	Mehpa	Jani
25.	Anoop Singh	Mehpa	Jani
26.	Tilakram	Mehpa	Jani
27.	Jaiprakash Singh	Mehpa	Jani
28.	Raghuveer Singh	Mehpa	Jani
29.	Dharampal Singh	Mehpa	Jani
30.	Bijendra Singh	Mehpa	Jani
31.	Sunera Singh	Mehpa	Jani
32.	Vijaypal Singh	Mehpa	Jani
33.	Rajpal Singh	Mehpa	Jani
34.	Ravindra Singh	Mehpa	Jani
35.	Pradeep Singh	Mehpa	Jani
36.	Suneel Kumar	Mehpa	Jani
37.	Narendra Singh	Mehpa	Jani
38.	Naresh Singh	Mehpa	Jani
39.	Satyaprakash Singh	Mehpa	Jani
40.	Kasiram Singh	Mehpa	Jani
41.	Balram Singh	Mehpa	Jani
42.	Yogendra Singh	Mehpa	Jani
43.	Dharmendra Singh	Mehpa	Jani
44.	Sandeep Singh	Mehpa	Jani
45.	Kaluram	Mehpa	Jani
46.	Praveen Kumar	Mehpa	Jani
47.	Ombeer Singh Sen	Mehpa	Jani
48.	Manbeer Singh	Mehpa	Jani
49.	Rajkumar	Mehpa	Jani
50.	Naresh Singh	Mehpa	Jani
51.	Gurdeep Singh s/o Gangaram Singh	Uldhan ki Mandheya	Kharkhoda
52.	Sudesh s/o Gangaram	Uldhan ki Mandheya	Kharkhoda
53.	Pradeep s/o Gangasaran	Uldhan ki Mandheya	Kharkhoda
54.	Kuldeep s/o Gangasaran	Uldhan ki Mandheya	Kharkhoda
55.	Ompal s/o Guddar	Uldhan ki Mandheya	Kharkhoda
56.	Dharampal s/o Guddar	Uldhan ki Mandheya	Kharkhoda
57.	Jagdish s/o Guddar	Uldhan ki Mandheya	Kharkhoda
58.	Anekpai s/o Guddar	Uldhan ki Mandheya	Kharkhoda
59.	Satveer s/o Udayveer	Uldhan ki Mandheya	Kharkhoda
60.	Maharaj s/o Baraf Singh	Uldhan ki Mandheya	Kharkhoda
61.	Jeet Singh s/o Raghunath	Uldhan ki Mandheya	Kharkhoda
62.	Sardar s/o Raghunath	Uldhan ki Mandheya	Kharkhoda
63.	Omkar s/o Soraj	Uldhan ki Mandheya	Kharkhoda
64.	Ajaypal s/o Ramveer	Uldhan ki Mandheya	Kharkhoda
65.	Rajkumar s/o Ramveer	Uldhan ki Mandheya	Kharkhoda
66.	Narendra s/o Ramveer	Uldhan ki Mandheya	Kharkhoda
67.	Jagendra s/o Ramveer	Uldhan ki Mandheya	Kharkhoda
68.	Vijay Singh s/o Dalchand Singh	Uldhan	Kharkhoda
69.	Vinay Tyagi s/o Kamar Singh	Atrara	Kharkhoda
70.	Rajaram s/o Lal Singh	Atrara	Kharkhoda
71.	Neeraj Shrama s/o Niranjana Sharma	Atrara	Kharkhoda
72.	Toseef Ali s/o Serkhan	Atrara	Kharkhoda
73.	Munsi Khan s/o Ehsan Khan	Atrara	Kharkhoda

74.	Pankaj Tyagi s/o Bihari Singh	Atrara	Kharkhoda
75.	Sukhbeer Singh s/o Raghubeer Singh	Atrara	Kharkhoda
76.	Sukandhan Singh s/o Trilik Chand	Atrara	Kharkhoda
77.	Satendra Tyagi s/o Trilokchand Tyagi	Atrara	Kharkhoda
78.	Pramod Tyagi s/o Shivnandan Tyagi	Atrara	Kharkhoda
79.	Aas Mohamad s/o Kamrudeen	Atrara	Kharkhoda
80.	Manoj s/o Amichand	Atrara	Kharkhoda
81.	Krishan Kumar s/o Lakhpat Singh	Atrara	Kharkhoda
82.	Pradeep Singh s/o Krisanveer Singh	Atrara	Kharkhoda
83.	Subhash Sharma s/o Surjee	Atrara	Kharkhoda
84.	Dhaniram s/o Jagdish Sharma	Atrara	Kharkhoda
85.	Neeraj s/o Niranjan Singh	Atrara	Kharkhoda
86.	Rakesh s/o Malkhan Singh	Atrara	Kharkhoda
87.	Omprakash s/o Vikram Singh	Atrara	Kharkhoda
88.	Satveer Singh s/o Dayachand	Atrara	Kharkhoda
89.	Suresh s/o Ramniwas	Atrara	Kharkhoda
90.	Sitaram s/o Jagjeet Singh	Atrara	Kharkhoda
91.	Tilakram s/o Jagjeet	Atrara	Kharkhoda
92.	Kapil s/o Omprakash	Atrara	Kharkhoda
93.	Rajeshwar s/o Chandrabhan	Atrara	Kharkhoda
94.	Sukhveer Singh s/o Harlal	Atrara	Kharkhoda
95.	Sukhveer Singh s/o Chandkiran	Atrara	Kharkhoda
96.	Kanti Tyagi s/o Trilokchand	Atrara	Kharkhoda
97.	Chandprakash s/o Nand Kishor	Atrara	Kharkhoda
98.	Satish s/o Chandkiran	Atrara	Kharkhoda
99.	Kaliram s/o Nand Kishor	Atrara	Kharkhoda
100.	Lokesh s/o Shyamlal	Atrara	Kharkhoda
101.	Budhu Tyagi s/o Udayraj Tyagi	Atrara	Kharkhoda
102.	Devendra s/o Shivcharan	Atrara	Kharkhoda
103.	Kanti s/o Hukam Durga	Atrara	Kharkhoda
104.	Mahendra Singh s/o Soorat	Atrara	Kharkhoda
105.	Mahendra s/o Dalchand	Atrara	Kharkhoda
106.	Jitendra s/o Mahesh	Atrara	Kharkhoda
107.	Jile Tyagi s/o Mangu Tyagi	Atrara	Kharkhoda
108.	Amresh s/o Raghuwar	Atrara	Kharkhoda
109.	Raju Tyagi s/o Trilokha Tyagi	Atrara	Kharkhoda
110.	Jineshwar Dayal s/o Heera	Atrara	Kharkhoda
111.	Abbas Khan s/o Jabar Khan	Atrara	Kharkhoda
112.	Aas Mohamad s/o Budhu	Atrara	Kharkhoda
113.	Momeen Khan s/o Naheem Khan	Atrara	Kharkhoda
114.	Randheer Singh s/o Kripal Singh	Atrara	Kharkhoda
115.	Rahul s/o Dhanesh	Atrara	Kharkhoda
116.	Bijendra s/o Murli	Atrara	Kharkhoda
117.	Moolchand s/o Harswaroop	Atrara	Kharkhoda
118.	Pawan s/o Bisambar	Atrara	Kharkhoda
119.	Munna s/o Rampal	Atrara	Kharkhoda
120.	Ashok s/o Ishwar	Atrara	Kharkhoda
121.	Siya s/o Khachedu	Atrara	Kharkhoda
122.	Subhash s/o Ravidutt	Atrara	Kharkhoda
123.	Kanti Tyagi s/o Sankar	Atrara	Kharkhoda

124.	Jaiveer Singh s/o Gannu Singh	Nalpur	Kharkhoda
125.	Gajendra Singh s/o Braham Singh	Setukuan	Kharkhoda
126.	Subodh Swami s/o Khemchand	Kharkhoda	Kharkhoda
127.	Brijesh Tyagi s/o Shrinivash Tyagi	Kaili	Kharkhoda
128.	Mukesh Gotam	Khandravli	Kharkhoda
129.	Adesh Kumar s/o Ishwar Singh	Khandravli	Kharkhoda
130.	Mohit Kumar Tyagi s/o Ratan Singh Tyagi	Khandravli	Kharkhoda
131.	Samarpal Singh s/o Vedpal Singh	Atola	Kharkhoda
132.	Sundar s/o Mahaveer	Atola	Kharkhoda
133.	Maharaj s/o Bhure	Atola	Kharkhoda
134.	Ramkumar s/o Lehri	Atola	Kharkhoda
135.	Padam s/o Tejpal	Atola	Kharkhoda
136.	Omdutt s/o Ranveer Singh	Atola	Kharkhoda
137.	Balraj s/o Guruji	Atola	Kharkhoda
138.	Sukhpal s/o Soran	Atola	Kharkhoda
139.	Sundar s/o Godha	Atola	Kharkhoda
140.	Bhrampal s/o Godha	Atola	Kharkhoda
141.	Guljeet s/o Karan	Atola	Kharkhoda
142.	Rampal s/o Patram	Atola	Kharkhoda
143.	Naresh s/o Jaiprakash	Kalyanpur	Rohta
144.	Pramod s/o Bhram Singh	Kalyanpur	Rohta
145.	Jaidev Sukd Singh	Kalyanpur	Rohta
146.	Tejdeep s/o Kiran Singh	Kalyanpur	Rohta
147.	Sonbeer s/o Ome	Kalyanpur	Rohta
148.	Sobeer s/o Ome	Kalyanpur	Rohta
149.	Krishan s/o Amichand	Kalyanpur	Rohta
150.	Satpal s/o Harswaroop	Kalyanpur	Rohta
151.	Satpal s/o Raghunath	Kalyanpur	Rohta
152.	Rajpal s/o Raghunath	Kalyanpur	Rohta
153.	Jagat Singh	Rasoolpur	Rohta
154.	Sentarpal s/o Gangaram	Kalyanpur	Rohta
155.	Moolchand s/o Khachedu	Jainpur	Rohta
156.	Nepal s/o Khajan Singh	Jainpur	Rohta
157.	Amit s/o Nepal	Jainpur	Rohta
158.	Netarpal s/o Deewan Singh	Jainpur	Rohta
159.	Virendra s/o Harichand	Jainpur	Rohta
160.	Kanwarpal Singh s/o Rajbeer Singh	Nahli	Sardhana
161.	Satish Singh	Karnawal	Saroorpur
162.	Vinod Kumar	Karnawal	Saroorpur
163.	Kulbeer Singh	Bhadarpur	Saroorpur
164.	Loban Singh s/o Balkisan	Dabthua	Saroorpur
165.	Satish Tyagi s/o Trilok Chand	Nanu	Saroorpur
166.	Bisanpal s/o Mukhiya	Ikri	Saroorpur
167.	Surendra Singh	Patholi	Saroorpur
168.	Ramkishan s/o Mangat Singh	Ratoli	Saroorpur
169.	Lekhram s/o Bhanna Singh	Balsona	Saroorpur
170.	Tejpal s/o Mamchand	Ratangarhi	Saroorpur
171.	Jagdish Upadhyay	Bana	Mawana
172.	Sanjeev Kumar s/o Harveer Singh	Bana	Mawana
173.	Bhopal Singh	Khata	Mawana

174.	Dataram Saini	Lawad	Daurala
175.	Jaswant Singh	Mawana	Mawana
176.	Nagli Asram	Nagli	Sardharana
177.	Dayachand s/o Bharam	Bhatipura	Machra
178.	Ombeer Singh	Bhatipura	Machra
179.	Krishanbeer Singh	Bhatipura	Machra
180.	Sanjay s/o Gangaram	Bhatipura	Machra
181.	Yogesh s/o Gangaram	Bhatipura	Machra
182.	Santosh s/o Gangaram	Bhatipura	Machra

Farmers Showing an Increase in The Area Under Organic Farming (2004-2005)

S. No.	Name of Farmer	Village	Block	Area (Bigha)	District
1.	Mahendra Tyagi s/o Sukkanbhagat	Poothi	Parikshitgarh	6	Meerut
2.	Satpal Singh s/o Incha Singh	Poothi	Parikshitgarh	4	Meerut
3.	Virendra Singh	Bhatipura	Machra	8	Meerut
4.	Dinesh Kumar s/o Ilam Singh	Rasoolpur	Rohta	10	Meerut
5.	Ramchandar Singh	Kaleena	Rohta	8	Meerut
6.	Vikrant s/o Ombeer Singh	Kalyanpur	Rohta	6	Meerut
7.	Asharani w/o Tejpal Singh	Poothkhas	Rohta	6	Meerut
8.	Satish Kumar	Karnawal	Saroopur	4	Meerut
9.	Nagli Ashram	Nagli	Sardharna	5	Meerut
10.	Brijbhusan Tyagi	Kharkhoda	Kharkhoda	6	Meerut
11.	Samarpal Singh	Atola	Kharkhoda	6	Meerut
12.	Vinay Tyagi	Atrara	Kharkhoda	5	Meerut
13.	Ravindra Saroha	Oon	Oon	4	Muzaffarnagar
14.	Kanwalpal s/o Atar Singh	Gagor	Oon	4	Muzaffarnagar
15.	Pummy Rana	Kalyanpur	Dhampur	4	Bijnor

Organic Farming in Meerut (2005) - 40 Hectare