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# King<sup>®</sup> CATCHER

## Solar Insect Light Trap

An Efficient Alternative to Pesticides

### Solar Insect light Trap Presentation



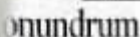
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## Growing support for organic farming



the 1990s, the U.S. economy has been a source of economic growth and employment opportunities for many nations around the world. The U.S. economy has been a source of economic growth and employment opportunities for many nations around the world. The U.S. economy has been a source of economic growth and employment opportunities for many nations around the world.

[illegible]

# Farmer

*The solar-powered device works on the technology promoted by Indian Council of Agricultural Research*

[illegible]

**Advantage:** Working on the economics, he said at an average



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# The Story

## Why King Catcher ?

❖ Other major crops include: cotton, soybeans, tobacco, groundnuts, paprika, sorghum, wheat, rice, sunflower seeds, coffee, as well as sugar, fruits, all vegetables and flowers.

❖ High transportation costs resulting from long distances to seaports pose a constraint to agricultural exports.

❖ A recent survey reports significant increases in organic production for exports.

Kills harmful insects associated with all the crops.

Works on Solar energy – no electricity is required

Saves on the use of pesticides / insecticides helping the farmers with more profits

Export from India are increasing and king catcher will help in exporting of more produce at better price with less pesticides.



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## The Story



Harmful effects of pesticides and insecticides on human body triggered the thought of working in the field of agriculture and support Organic farming through engineering techniques



Introduction of a low maintenance, stand alone product for farmers helping with organic farming was on our mind.



Immunity of the insects towards pesticides and insecticides is increasing. To find a better alternative was on our minds.



Can we help the farmers to reduce the expenditure on the use of chemicals ? Can this help the farmer with increase in the crop production ?



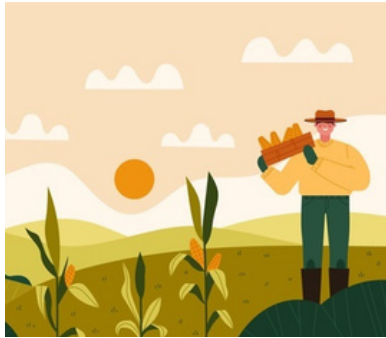
With a specific focus on a cost effective, made in India product to help the farmers with the long term solution on insect control we designed the Solar Powered Insect Trap – The king catcher.



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## Initial Days



Understanding the needs of the farmer was very important. The most important aspect being the lack of electricity – Solar PV powered insect trap was the solution.



Study of insect behavior on different crops – understanding the 'enemy' and the 'friend' insects, and the timing of attack – ON time calculations along with the time of day was fixed.



Since the king catcher ON time was after sun set 4 to 5 hours, automatic ON and OFF function was important – The king catcher is automatic, install and forget.



Installation ease – farmers can install this modular system with 20 minutes. The robust pole and fully integrated king catcher body makes it easy to install.



Spare – after talking to a lot of farmers during demonstration of The king catcher, they were concerned about the spares. What happens if something fails – We make in India, our systems are modular, replacement is easy and quick.



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**CATCHER**

Solar Insect Light Trap

## The Design



After studying several different products available in the market, we have reverse engineered the most prominent and efficient aspects from each product and incorporated in The king catcher.



The special purpose lamp, one of the critical parts of The king catcher was designed with 100s of trials in different farms – Fruits and Vegetables, sugarcane, cotton, rice field etc.



Battery management for long life is very important for solar PV products. MPPT systems have been incorporated for efficient battery charging.



Farmers after a hard working day, wouldn't want to return back for switching the insect trap On or Off. So, we designed an auto ON / OFF function



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## How The King Catcher Works ?



The most popular theories holds that positively phototactic insects are drawn to lights because they act like a navigational guide. Many insects find their way by keeping a natural light source, such as the Sun or the Moon, at a constant angle.



Using the same principle we designed a special light with a frequency that attracts more than 1800 different flying insects.



The insects tend to cross the electric wire mesh around the light and get electrocuted

In Mini And Champ Models Insect Catches In Water pot



With the use of Solar PV panel to charge the battery inside The king catcher, a high tech electronic circuit is used for functioning of the system.

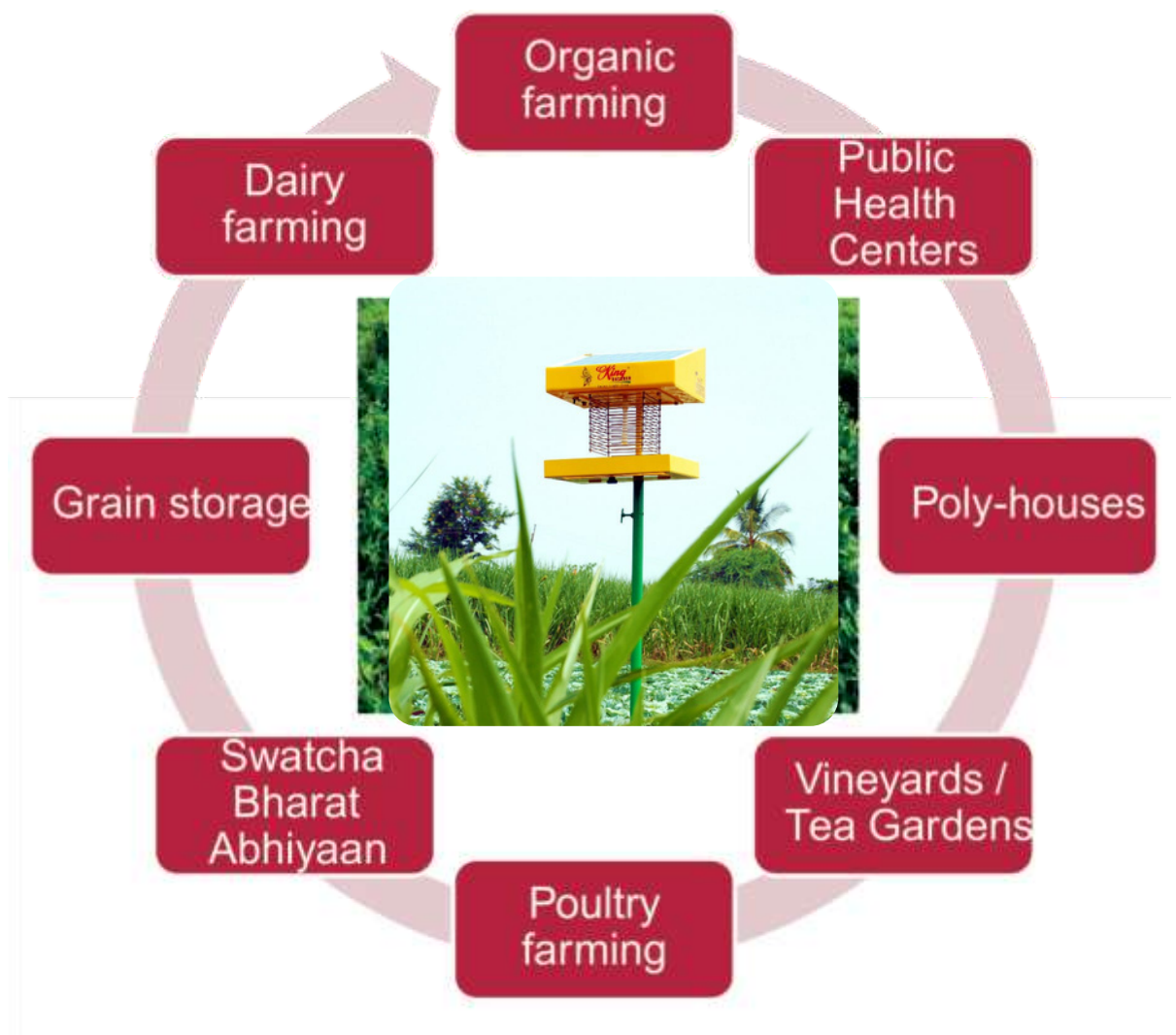


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## Where The King Catcher Works ?



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# Organic Farming

Insects That Are Attracted And Killed

| Main Target Harmful Insects >> Rice Paddy Fields, Health Care, Livestock barn |                         |        |        |  |
|---|-------------------------|--------|--------|--|
| Name  | Occurrence (Generation) | Photo1 | Photo2 | Crops / Features   |
| Leathoppers   | Jun ~ Sept              |        |        | <b>Crops : Rice</b><br>- Flying in from South China, Indo-china on the middle part of June and living 2nd/3rd generations in Korea<br><b>Damage :</b> Hopper burn<br><b>▶ Trap Application :</b> Middle ~ Last Jun.  |
| Leaf folder   | Jun ~ Sept              |        |        | <b>Crops : Rice</b><br>- Flying in from South China, Indo-china on the middle part of June<br><b>Damage :</b> Meiotaxy, Biting Chlorophyl parts<br><b>▶ Trap Application :</b> Middle ~ Last Jun.                    |
| Chilo suppressalis  | Jun ~ Aug               |        |        | <b>Crops :</b> attacking the stems of rice and develops "white head"<br><b>▶ Trap Application :</b> Middle ~ Last Jun  |
| Fungus gnat   | Twice / month           |        |        | <b>Crops :</b> Organic vegetables like mushrooms in a cultural arena<br><b>Damages :</b> An Imago bears 100~300 eggs ,attacking the roots and withering them.<br><b>▶ Trap Application :</b> right after propagation |



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Insects that are attracted and killed

### Main Target Harmful Insects >> Orchard, Forest

| Name                      | Occurrence (Generation)  | Photo1  | Photo2  | Crops / Features  |
|---------------------------|--|---|---|---|
| Peach Carposinidae        | Jun - Jul<br>Aug- Sept<br>(1 - 3 times)  |  |  | <b>Crops :</b> Peach, Apricot, Plum, Apple, Pear<br>Making a small holes on the surfaces of the fruits rather than the stems, and lays eggs<br>Mostly its larvae does harm to the fruits<br>► <b>Trap Application :</b> Season to bloom & bud |
| Peach Oriental Fruit Moth | Apr. Mid-May<br>Jun. Middle<br>Jul. Last - Aug. First<br>Aug. Last - Sept. First<br>(4 - 5 times)  |  |  | <b>Crops :</b> Peach, Apricot, Plum, Apples, Pear etc.<br>It produces eggs on the under side of leaves, entering into the new leaf buds and lives there, doing harm to the fruits.<br>► <b>Trap Application :</b> Season to bloom & bud       |
| Peach Pyralid Moth        | As being a larva,<br>wintering inside cocoon<br>1st : Jun. Emergence<br>2nd : Jul. First-Aug. Last |  |  | <b>Crops :</b> Peach, Cherry, Apples, Plum, Persimmon, Mandarin, Chestnut, Corn, Cotton, Sunflower, Pine tree etc.<br>► <b>Trap Application :</b> Season to bloom & bud   |
| Persimmon Fruit worm      | May First - Pupa<br>May Last - Adult<br>Twice / year<br>Wintering inside cocoon                    |  |  | Jun. First 1st Emergence - Peak Season<br>Aug. First 2nd Emergence - Peak Season<br>A larva penetrates into the apple<br>► <b>Trap Application :</b> Season to bloom & bud  |



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## Organic Farming

Insects that are attracted and killed

### Main Target Harmful Insects >> Green House Fruits/vegetables, Flowers

| Name                     | Occurrence (Generation)  | Photo1 | Photo2 | Crops / Features  |
|--------------------------|--|--------|--------|---|
| Tobacco cutworm          | 1st Gen - May First<br>2nd : Jun. Middle<br>3rd : Jul. Last<br>4th : Aug. Last<br>5th : Sept. Middle |        |        | <b>Crops :</b> Greenhouse, Outdoors vegetables, Flowers<br>5 Generation occurs through the year.<br>A larvae bites the plant, 100-300 eggs (egg mass)<br>4th instar is the most damaging period<br>▶ <b>Trap Application :</b> Early stage of propagation |
| Beet armyworm            | 4 Times per year<br>May - Oct.<br>Adult Insects  |        |        | <b>Crops :</b> Greenhouse, Outdoors vegetables<br>Occurs in Green houses all year around<br>It lays 50-150 eggs (a mass of eggs)<br>▶ <b>Trap Application :</b> Early stage of propagation  |
| Oriental tobacco budworm | 2 ~ 3 times  |        |        | <b>Crops :</b> Chili pepper, Tomatoes, Eggplant, Squash, Green pepper, Paprika<br>May-Jun. Adult & in the pupal stage in Sept - Oct<br>▶ <b>Trap Application :</b> Early stage of propagation   |
| Diamond Back moth        | 8 ~ 12 times   |        |        | <b>Crops :</b> Chinese Cabbage<br>Aug.-Sept. massively occurs<br>▶ <b>Trap Application :</b> Early stage of propagation   |



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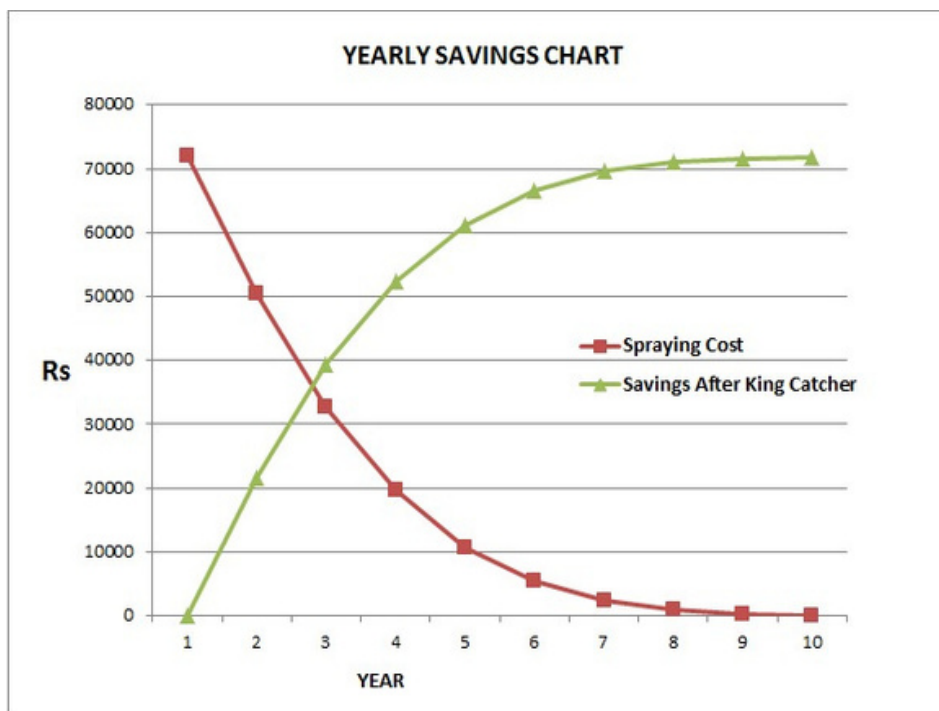




**King  
CATCHER**  
Solar Insect Light Trap

## Economics

|  | KING CATCHER            | KING CATCHER CHAMP      |
|--|-------------------------|-------------------------|
| Type of Farm   | Vegetable or fruit farm | Vegetable or fruit farm |
| Area   | 2.5 Acre                | 1 Acre                  |
| Spraying Frequency                                       | 2 times in month        | 2 times in month        |
| Cost of spraying per spray                               | 1500/-                  | 600/-                   |
| Total Cost of spraying                                   | 3000/-                  | 1200/-                  |
| Yearly cost of spraying                                  | 36,000/-                | 14,400/-                |
| Cost of product- MRP                                     | 32,200/-                | 6,250/-                 |
| Product Life minimum                                     | 5 Years                 | 3 Years                 |
| Reduction in spraying after installation of King Catcher | 75 %                    | 75 %                    |
| Reduction in cost per month                              | 2250/-                  | 900/-                   |
| Yearly cost of spraying                                  | 9000/-                  | 3600/-                  |
| Total Savings after                                      |                         |                         |
| Installation of king Catcher                             | 28,800/-                | 10,800/-                |



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# Product Specification



## PRODUCT SPECIFICATION

| Sr.No | Item                    | Solar Insect Light Trap King Catcher (1 Hectar)   | Solar Insect Light Trap Mini (2 Acre)  | Solar Insect Light Trap Champ (1 Acre)  |
|-------|-------------------------|---|--|---|
| 1     | Operation method        | DC generated by solar panel   | DC generated by solar panel  | DC generated by solar panel   |
| 2     | Trapping System         | 5 MA Amp current system with trapping net   | Trapping in Water Pot containing soup/<br>Chemical/ Oil Min 2 or 3 drops                         | Trapping in Water Pot containing soup/<br>Chemical/ Oil Min 2 or 3 drops                      |
| 3     | Where to Use?           | Anywhere, e.g Farm,Landscape,Tea coffee,<br>Garden,golf club, grass land,hills cape.          | Anywhere, e.g Farm,Landscape,Tea coffee,<br>Garden,golf club, grass land,hills cape.             | Anywhere e.g. Farm,Landscape, Tea coffee<br>Garden,golf club, grass land,hills cape.          |
| 4     | Operating System        | Auto ON/OFF system  | Auto ON/OFF system   | Auto ON/OFF system  |
| 5     | Lamp                    | Flurocent Lamp (Blue & Purple Light Color)<br>6 watts special purpose                         | LED Bulb 4 Watt<br>Special Purpose   | LED 3 Watt  |
| 6     | Capacity of Solar Panel | 15 W High efficiency poly crystalline solar cells<br>350 mm × 395 mm cloudy: 40% charge       | 5w High efficiency poly crystalline solar cells<br>221 mm X 272 mm Cloudy : 40 % charge          | 5V High in Efficiency<br>266.7mm × 215.9mm  |
| 7     | Battery                 | Lethiumion Battery 7-2 AH 12V<br>1 Year Warranty for Battery                                  | 7.2 V, 2.5 AH Li-Ion<br>Battery 1 Year Warranty  | Lethiumion Battery 7-2 AH 12V<br>1 Year Warranty for Battery                                  |
| 8     | Working Time            | After Sunset 4 hour 365 Days/ per year with<br>2 days battery backup                          | After Sunset 3 Hours   | After Sunset 4 hour 365 Days/ per year with<br>2 days battery backup                          |
| 9     | Controller              | Battery Over Charge Protection<br>Battery Deep Discharge Protection<br>Low Battery Protection | Battery over charge protection.<br>Battery deep discharge protection.<br>Low battery protection. | Battery Over Charge Protection<br>Battery Deep Discharge Protection<br>Low Battery Protection |
| 10    | Area Covers             | 2.5 Acre Area Cover   | 2 Acre Area Cover  | 1 Acre Area Cover   |
| 11    | Assembly & Keeping      | Easy Assembly by user at the<br>Field Easy Moving   | Easy assembly by user at the field<br>Easy moving, disassembly, keeping, etc.                    | Easy Assembly by user at the<br>Field Easy Moving   |
| 12    | Rain Protection         | Sensor Avaible  | Sensor Avaible (If needed)   | Sensor Avaible (If needed)  |
| 13    | Design                  | Specially Designed as per Indian climate<br>Condition   | Specially Designed as per Indian climate<br>Condition  | Specially Designed as per Indian climate<br>Condition   |
| 14    | Material                | Industrial Plastic- Non Breakable   | Industrial Plastic- Non Breakable  | Industrial Plastic- Non Breakable   |
| 15    | Weight                  | Net - 15kg  | Net: 7 kg  | Net- 6 kg   |
| 16    | Stand                   | Stainless Steel Pipes<br>Telescope stand with easy movable                                    | Stainless Steel Pipes<br>Telescope stand with easy movable                                       | Stainless Steel Pipes<br>Telescope stand with easy movable                                    |
| 17    | Package                 | Box Packing with Tharmocol Packing<br>Easy Handling & Delivery Purpose                        | BOX packing : 40cm*41cm*28cm<br>the package will get smaller with this new design.               | Box Packing with Tharmocol Packing<br>Easy Handling & Delivery Purpose                        |
| 18    | Life & Service          | 7 Years with Proper Care<br>Easily Avaible Service  | 5 Years With proper care<br>Easily Avaible service.  | 5 Years with Proper Care<br>Easily Avaible Service  |



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## Product Comparision

| Sr No | Item                        | King Catcher Solar Trap  | Chinese Solar Trap   |
|-------|-----------------------------|--|--|
| 1     | Operation method            | DC generated by solar panel  | DC generated by solar panel  |
| 2     | Trapping System             | - Light if requirement attachment<br>- Trapping net  | Light Only + Trapping cage / Water pan + chemicals                                 |
| 3     | Capacity of solar panel     | -15w High inefficiency poly crystalline solar cells<br>- 350 mm X 395 mm<br>- cloudy : 40 % charge                           | Regular solar cells<br>750x540x25mm<br>DCE : 12wx5hx50%=30w<br>Cloudy : 10% charge |
| 4     | Lamp                        | - Fluorescent Lamp (Blue & Purple Light Color)<br>- 6 watts<br>- Special purpose   | 11 watt regular UV lamp  |
| 5     | Electric consumption / Hour | - Rated consumption 15 watt<br>- Stand by consumption 7 watt   | 20 watt  |
| 6     | Controllor & Battery        | - Battery over charge protection.<br>- Battery deep discharge protection.<br>- Low battery protection.<br>- Rain protection. | Low Battery protection   |
| 7     | Battery                     | - 7.2 Ah 12v SMF 15 kg<br>- Battery 1 Year Warranty  | 6 v – 4.5 Ah x 2<br>No any Warranty  |
| 8     | Weight & package            | - Weight(net) : 15 kg<br>- BOX packing : easy delivery   | Weight(net) : 15 to 20 kg  |
| 9     | Assembly & keeping          | - Easy assembly by user at the field<br>- Easy moving, disassembly, keeping, etc.  | Easy assembly by user at the field   |
| 10    | Working Time                | - After Sunset 5 Hour 365 days / Per year  | After Sunset 3 to 4 Hour daily   |
| 11    | Design                      | - Spicily Designed at Indian climate condition   | No any Special design  |
| 12    | Life & Service              | - 7 Years With proper care<br>- Easily Available service.  | 5 Years with maintenance<br>Use and through  |



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## Features & Benefits

King catcher Light Trap is one of the very effective tools of Insect pest management in Organic Agriculture. King catcher traps both the sexes of Insect pests and also Substantially reduces the carry over pest pollution. King catcher attracts and kills the adult insect and It control around 300-350 Insect Progenies .Farmers must install king catcher from the beginning of planting the farmer can control almost all the Insect pests that are trying to attack the crop. Palvi Industries An

ISO 9001:2008 certified Company Manufactured Solar light trap called KING CATCHER .It was light Weight, easy to install , Operating on solar system fully Automatic.



### Benefits:-

- Energy Conservation
- Surviving on manpower
- Increases productivity at your farm
- Maintenance Free
- Investment payback guarantee within one crop cycle completion.



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## Environment

- Say NO to pesticides
- Pesticides are used to control pests and insects which are harmful to the crops. Over 3 megatons of pesticides are used in the world every year.
- Pesticides may bring about intense and delayed health impacts in individuals who are exposed. Pesticide exposure can cause variety of unfriendly health problems, extending from skin diseases and eye disorders to more extreme effects, for example, influencing the sensory system, duplicating hormones, furthermore even cancer.
- Use of pesticides gives rise to a number of environmental concerns. Over 98% of sprayed insecticides reach a destination other than their target species. These pesticides contribute the most to air, water and soil pollution
- Use of pesticides reduces biodiversity, destroys habitable environment and threatens endangered species.
- Pests can develop a resistance to the pesticide, thus necessitating a new pesticide. Greater dose of the pesticide is used to counteract the resistance, and this causes worsening of the already persisting pollution problem.



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## Polyhouse

### Polyhouse

A special product for poly houses is developed by LWE. Generally, power being the basic necessity for poly-houses, king catcher can work on AC power from the grid. There is an option provided for solar charging where the Solar panel is installed out of the poly-house.



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## POISON IN YOUR FOOD

A study by Indian Agricultural Research Institute found traces of pesticides exceeding the limit in samples collected from Azadpur Mandi, Mangolpuri and Okhla Mandi. The vegetables were sourced from places like Panipat, Sonapat, Faridabad and Shimla





| Sample      | Pesticides above maximum residue limit (MRL) | Commodity   | Predominant pesticide residues above MRL        |
|-------------|--|-------------|---|
|             |  | Cauliflower | Chlorpyrifos, Cypermethrin                      |
| Okra        | Cypermethrin                                 | Okra        | Monocrotophos, Chlorpyrifos, Cypermethrin       |
| Cauliflower | Chlorpyrifos                                 | Cabbage     | Chlorpyrifos, Monocrotophos, Cypermethrin       |
| Cabbage     | Chlorpyrifos                                 | Brinjal     | Aldrin, Heptachlor, Cypermethrin                |
|             |  | Apple       | Aldrin, Chlordane, Cyfluthrin-Beta              |
|             |  | Banana      | Aldrin, Chlordane                               |
|             |  | Orange      | Monocrotophos, Dichlorvos                       |
|             |  | Grapes      | Cypermethrin                                    |
|             |  | Rice        | Quinalphos, Chlorpyrifos, Heptachlor            |
|             |  | Wheat       | Triazophos, Fenitrothion, Phorate, Chlorpyrifos |



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## SPICES AND CONDIMENTS

## PESTICIDE RESIDUE DETECTED

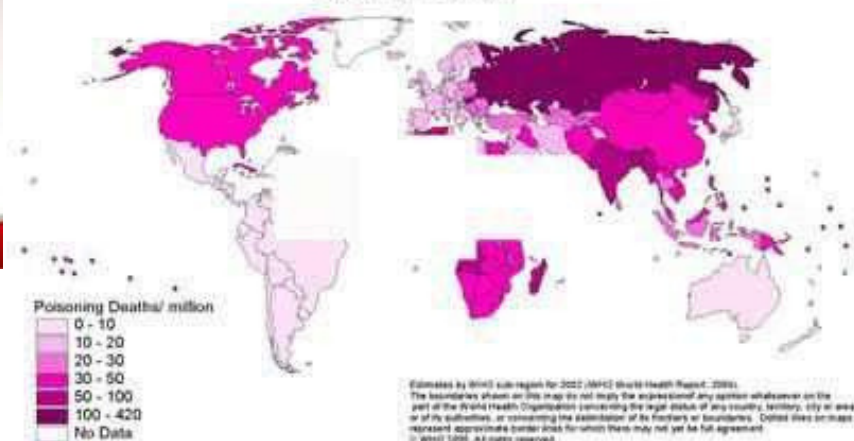
|                        |   |   |
|------------------------|---|---|
| Cardamom               |    | Quinalfos, Cypermethrin, Chlorpyrifos, Profenofos, Ethion, Lambda cyhalothrin |
| Oregano                |   | Profenofos  |
| Dry chilli             |   | Chlorpyrifos, Profenofos, Ethion, Byfenthrin                                  |
| Chilli powder          |   | Ethion, Byfenthrin  |
| Crushed chilli         |   | Byfenthrin, Profenofos, Ethion  |
| Cumin powder           |  | Chlorpyrifos, Profenofos, Chlorpyrifos  |
| Cumin                  |   | Chlorpyrifos, Profenofos, Cypermethrin  |
| Curry masala           |   | Ethion  |
| Fennel powder          |   | Chlorpyrifos, Quinalfos   |
| Fennel                 |   | Quinalfos   |
| Kashmiri chilli powder |   | Cyfluthrin, Ethion  |
| Rasam powder           |  | Profenofos  |



## The Direct Damages: Human Health Impacts

- Pesticide poisoning is intentional in most of the cases (85-97%). 900 to 1,000 suicides/year, i.e. 60% are by consuming pesticides. The autopsy reports showed that more than 95% of poisoning death was due to insecticides.
- During January 2006, results have shown that out of 32 poisoning cases, 70% are due to pesticides. The commonly used ones are Furadan, Malathion and Rat Poison (Jayakrishnan 2006).

## Deaths from unintentional poisonings - all causes



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## Some Happy Farmers

### Brinjal & Cauliflower

"King catcher - Solar Powered insect Trap was installed in our farm 6 months ago. Major insects that use to harm the crop have been successfully irradiated due to the use of insect trap. excellent results, I have seen a savings of up to 40% in the use of chemical pesticides and insecticides "Mr. Arun Patil, farmer from Haroli, Dist Kolhapur, Maharashtra.

### Insects killed by the King Catcher



**Kills the adults and breaks the reproduction cycle**





## Some Happy Farmers

### Pomegranate

Mr. Vijay Chougule a farmer from Sangola, Solapur, Maharashtra discussed the to control the pests / insects that has been destroying the crop. We have installed the king catcher in his field which has not only reduced the insects to a great extent but also have reduced the need to spray pesticide resulting in a healthy produce.

| Sl. No. | Name of pest/ disease |
|---------|-----------------------|
| 1       | Anar Butterfly        |
| 2       | Stem boring beetles   |
| 3       | Mealy bugs            |
| 4       | Thrips                |
| 5       | Aphid                 |
| 6       | Fruit borer           |
| 7       | Powdery mildew        |



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## Some Happy Farmers

### Grapes

5 king catcher installed in Sangli in a 15 Acre grape farms, has reduced the use of insecticides by 50%. Farmers are happy as they have qualified for exports of the grapes. The produce is shown improvement in output with a 20% reduction in wastage.

### Insects killed by the King Catcher

- |                                      |
|--------------------------------------|
| 1. Leaf eating caterpillar           |
| 2. Mealybugs                         |
| 3. Mites                             |
| 4. Thrips                            |
| 5. Grape leaf folder                 |
| 6. Girdle beetle/grape cane girdler: |
| 7. Flea beetle                       |
| 8. Rose chafer beetle                |
| 9. Grapevine stem borer              |
| 10. Root-knot nematode               |



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