



Insure your Crop and Income with Known-You Seed's Silver Mulching

Introduction to Mulching (Polythene Mulching)

- Plastic mulches are popular on fruit & vegetable production from many years ago. And these Profit making mulching Sheets are now available in India by Known You Seed (I) Pvt. Ltd.
- Mulching has shown many great effect in crops like Watermelon, Muskmelon, Hot & Sweet Pepper, Egg Plant, Tomato, different types of flowers, Papaya, Pomegranate, Fig, Grape, Orange, Sweet Orange, Banana, and many other fruits and vegetable crops
- The mulching paper helps plant to acquire a very optimum growth and the best yield as compare with the non mulch plant
- The plastic mulching will control the cost as per the requirement for controlling pest diseases & most of the weed and also fertilizer management
- Mulching is a soil conservation practice that is being extensively used for control of soil erosion

Advantages using Mulching Sheet to Grow Crops

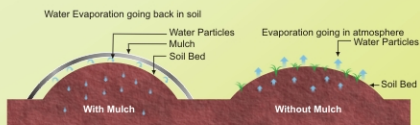


Earlier Harvest

The greatest benefit from plastic mulch is that the soil temperature in the planting bed is raised, promoting faster crop development and earlier harvest. Silver plastic may advance the harvest date by 21 days.

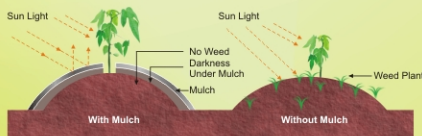
Reduces Evaporation up to 70%

Soil water loss is reduced under plastic mulch. As a result, a more uniform soil moisture is maintained and irrigation frequency can be reduced. The growth of plants on mulch can be twice that of plants in unmulched soil. Because larger plants will require more water, mulching is not a substitute for irrigation.



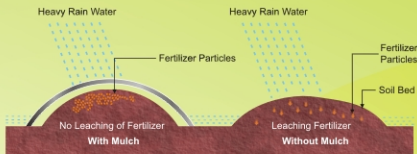
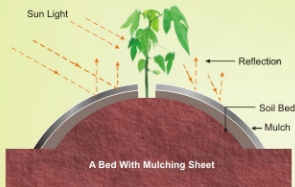
Fewer Weed Problems

Black and white/silver-on-black mulches will reduce light penetration to the soil. Weeds cannot generally survive under such a mulch.



Reduces Fertilizer Leaching

Excess water runs off the impervious mulch. Fertilizer beneath the mulch is not lost by leaching, so that fertilizers are optimally used and not wasted.

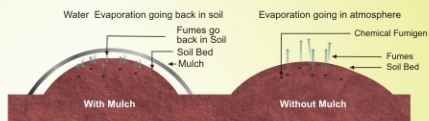
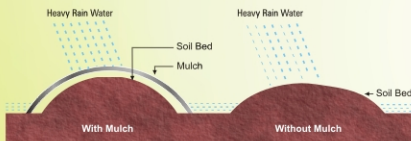


Pest Control

Highly reflective mulches assist pest management strategies for pests and the diseases, especially viruses, they may carry.

Aids Fumigation

Mulches increase the effectiveness of chemicals applied in the soil as a fumigants. Because of the impervious nature of the plastic mulch, it acts as a barrier to gas escape and keeps gaseous fumigants in the soil.



Reduces Soil Compaction

The soil under plastic mulch remains loose, friable and well-aerated. Roots have access to adequate oxygen, and microbial activity is enhanced.

Cleaner Vegetable Produce

The edible product from a mulched crop is cleaner and less subject to rot, since no soil is splashed onto the plants or fruit. To keep plants clean, they should be grown in a raised bed that is firm and slightly convex, with the highest point down the center of the row, while the plastic should be stretched tight to encourage the run-off of water. There should be no puddles on the mulched beds.



Increases Growth

Mulch film is nearly impervious to carbon dioxide, which is necessary for photosynthesis. Research has shown that high levels of carbon dioxide may build up under the plastic. Because the film does not allow the gas to penetrate, it has to escape through the holes punched for the plants and a "chimney effect" is created, resulting in abundant CO₂ for the actively growing leaves





Reduces Drowning of Crops

Water drive off from the row area by the raised tapered bed so that excess water runs off the field, thus reducing drowning and other excess soil water.

- Increases the yield/profit with Inter cropping system
- The Mulching can also be used in Nursery



Papaya



Watermelon



Muskmelon



Strawberry

Crops can be grown with Mulching Application.



Bitter Gourd



Ridge Gourd



Hot Pepper



Sweet Pepper



Tomato



Cucumber



Silver Mulch Sheet

Mulching Type	Mulching Size
Silver Mulching No. 1	(400 x 1.20 x 0.03)
Silver Mulching No. 3	(400 x 1.20 x 0.027)
Silver Mulching No. 5	(400 x 0.9 x 0.027)

Actual Practical difference between Unmulched & Mulched Crop

Name of Crop	Variety	Without Mulch			Cost for Mulching with labor	With Mulch			Differences between total income (Rs)
		Yield Acre (ton)	Price Per Kg. (Rs)	Total Income (Rs)		Yield Acre (ton)	Price Per Kg. (Rs)	Total Income (Rs)	
Watermelon	Kiran	12	10	120000	11000	15	12	180000	49000
Watermelon	Simran	14	11	154000	11000	18	13	234000	69000
Muskmelon	Kundan	10	15	150000	11000	14	17	238000	77000
Muskmelon	Kohinoor	10	18	180000	11000	14	20	280000	89000
Papaya	Red Lady	37	7	259000	13100	45	8	360000	87900
Tomato	Tanuja	25	10	250000	13100	30	11	330000	66900
Bitter Gourd	Jayesh	8	9	72000	11000	10	10	100000	17000
Ridge Gourd	Rajat	8	9	72000	11000	10	10	100000	17000

Mulching Application (Application in Vegetable Crops)

1

Prepare the raised bed after tillage operation from one end of land to another with deep furrow at both sides, consider the slope of the land while preparation of the bed.



2

Spread the lateral on the beds with dripper at specific distance. Check the dripper distance & also check the lick in the dripper, lateral.



3

Then spread the mulching sheet on the bed, sheet should be buried in soil at starting



4

While spreading the sheet simultaneously cover both the ends of the sheet with soil. Make the tension on the sheet so that the sheet will not become loose.



5

After spreading the sheet over the bed, make holes to transplant the seedlings in the soil with the help of punching.



6

Apply water on trays and necessary chemicals before transplanting.



7

Transplant the seedling on the bed. Water should be applied on the bed before the transplanting the seedlings.



KNOWN-YOU SEED (I) PVT. LTD.

S. No. 87, Pimpale Jagtap Road, Bhimakoregaon, Tal. Shirur, Dist. Pune - 412 216.
Phone : 020 - 67333111 | www.knownyou.co.in