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| **Treatment** | **Cost/Acre** | **Weed Cover**  **Week 4** | **Weed Cover**  **Week 8** | **Weeds Present** | **Comments** |
| Herbicide with cultivation | $30 | 2% | 5% | Spurry, Shepherds purse, pigweed, | Due to time management a grass herbicide was not applied. If following herbicide schedule the percent weed cover may have been less |
| Cultivation | $5 | 5% | 20% | Foxtail, spurry, fall panicum, pig weed, lambsquarter, maple trees, sow thistle, shepherds purse |  |
| Herbicide Only | $25 | 2% | 50% | Fall Panicum, pigweed, chickweed, lambsquarter, sow thistle, shepheds purse | Due to time management a grass herbicide was not applied. If following herbicide schedule the percent weed cover may have been less |
| Landscape Fabric | $1.57 sq/ft | 40% | 60% (at week 6, see comments for explanation) | Fall Panicum, sow thistle, yellow foxtail, lambsquarter, pigweed | Due to plant survivability we pulled the grass weeds to ensure plant growth. This treatment may work best if a grass herbicide is added. |
| Hemp Mulch | $2.96 sq/ft | 5% | 30% | Fall panicum, sow thistle, yellow foxtail lambsquarter, pigweed | Hemp mulch was shipped from CA so it was applied later in the season. Weed control was really good early and declined as the weed seeds from other plots were landing on the mulch |
| Particle Weeding | $25/acre plus initial equipment expense of $600 | 40% | 80% | Lambquarter, pigweed, sow thistle, fall panicum, foxtail, shepherds purse | Created two different prototypes and grit application was unsuccessful |
| Control |  | 50% | 90% | Lambsquarter, pigweed, sow thistle, fall panicum, foxtail, shepherd purse | 10% survivability of strawberry plants. |

This project’s objective was to trial several weed management techniques in a matted row strawberry system including mulching (industrial hemp and landscape fabric), cultivating, integrated weed management (cultivation and herbicides), and particle weeding.

The most effective method for weed management for our project in matted row strawberry production was the integrated weed management trial.  A little more costly than just mechanical cultivation and not an effective treatment method for a grower who is certified organic but weed management was significant.  Next year we plan to monitor the yields based on treatment areas to see if there is any significant difference.  I would eventually like to try industrial hemp mulch in a vegetable production system and see the impact it may have for future weed management in fresh market vegetables. With the new realization of weed management methods measured on our farm our strawberry yield should increase significantly and provide a more customer friendly environment for our you pick customers.