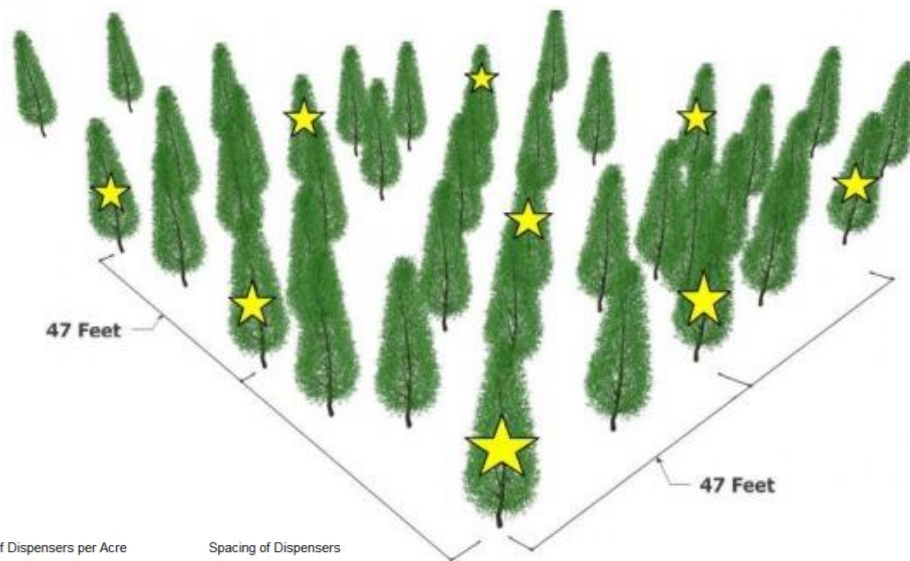


Colorado State Forest Service MCH Anti-aggregation Pheromone Application



MCH Purchasing

All MCH packets are “double bubble” packets with 1000mg of active ingredient, or twice as much active ingredient than the single bubble packets (see attached for MSDS and additional product information). Recommended application rates for the double bubble packets are 20/acre. We also recommend that you add on an additional 10 packets so that high value trees, trees adjacent to structures, and large diameter trees are addressed.



Number of Dispensers per Acre

20
25
30
35
40
45
50

Spacing of Dispensers

47 ft X 47 ft
42 ft X 42 ft
38 ft X 38 ft
35 ft X 35 ft
33 ft X 33 ft
31 ft X 31 ft
29 ft X 29 ft

Deployment Instructions

- 20 packets/acre in pure, mature Douglas-fir stands using “double bubble” MCH with 1000 mg of active ingredient. We recommend additional packets for high value, large diameter (24”+) trees and trees adjacent to structures desired for retention.
- Staple at head height or higher (out of reach of children and pets) on the north side of tree (will reduce drying of active ingredient from solar)
- DO NOT staple or puncture the bubble
- Where poly gloves and wash hands after use
- Focus on large diameter, mature trees for packet placement while maintaining a grid pattern.
- Where mature trees or Douglas-fir are not present, maintain grid spacing by hanging at closest available tree, stump, fencepost to maintain pheromone plume
- Apply pheromone packets no later than June 1st. Adult Douglas-fir beetle begin emerging when the temperature is 60°F. MCH release is gradual however, hanging packets too early while reduce effectiveness in late summer.
- Freeze unused MCH in a non-plastic air tight container for future use