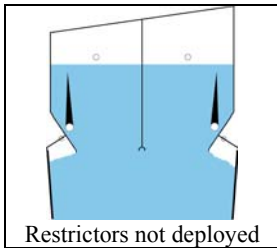


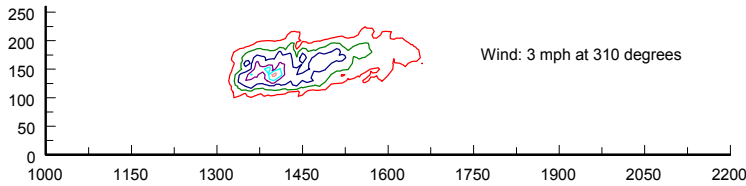


Restrictors

Ann Suter, Wildland Fire Chemical Systems - MTDC

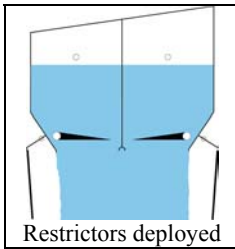


Flow restrictors are physical barriers inside the tank that can be deployed as needed. Restrictors decrease the opening area of the gate, slowing the rate of liquid exiting the tank.

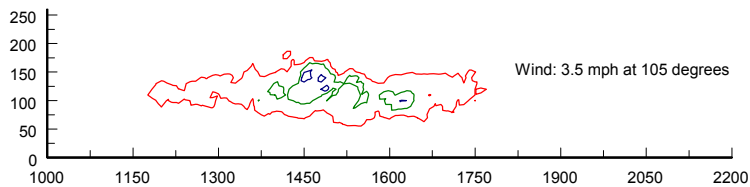


418 gallons of water dropped unrestricted from 150 feet at 122 knots.

Coverage Level in gpc	Line Length in feet	Area in square feet
0.5	340	25400
1	240	13100
2	190	6500
3	60	1300
4	40	500
6	10	100
8	0	0



Unrestricted water dropped from a P2V shows higher coverage levels and a more concentrated pattern. This is due to the higher flow rate.



418 gallons of water dropped restricted from 154 feet at 134 knots.

Coverage Level in gpc	Line Length in feet	Area in square feet
0.5	590	41300
1	240	7600
2	50	700
3	0	0
4	0	0
6	0	0
8	0	0

When restrictors are deployed the flow rates are lower and the pattern tends to be more spread out with no areas of higher coverage levels.