Firebrand flux

186 m

0 m

320 m

FBP X

FBP Y

FBP Z

FCS X

FCS Y

FCS Z

Fire line

Road

320 m

160 m

300 m

250 m

150 m

100 m

50 m

|  |  |
| --- | --- |
| Trail | Total input number (pcs/s) |
| TR1 | 14 446 |
| TR2 | 10203 |
| TR3, TR4 | 9880 |

Firebrands landing time span in experiment

FCS X 407 s

FCS Y 513 s

FCS Z 394 s

Previous simulation **1500** mm grid

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Firebrand density (pcs/m2)** | | | **Diff%** | **Flux (pcs/m2. s)** | | | **Diff%** |
| Exp | **TR3** | **TR4** | **Exp** | **TR3** | **TR4** |  |
| FCS X | 335 | 260 | 184 | -45.0 | 0.824 | 0.776 | 0.548 | -33.5 |
| FCS Y | 463 | 478 | 394 | -14.9 | 0.902 | 0.931 | 0.852 | -5.5 |
| FCS Z | 536 | 738 | 843 | +57.2 | 1.361 | 1.377 | 1.572 | 15.5 |

Current simulation **750** mm grid

Prediction after **165** seconds

|  |
| --- |
| Wind profile before starting the fire. |
| Temperature profile after starting the fire. |

Fire line location: x= 186 m – 188 m