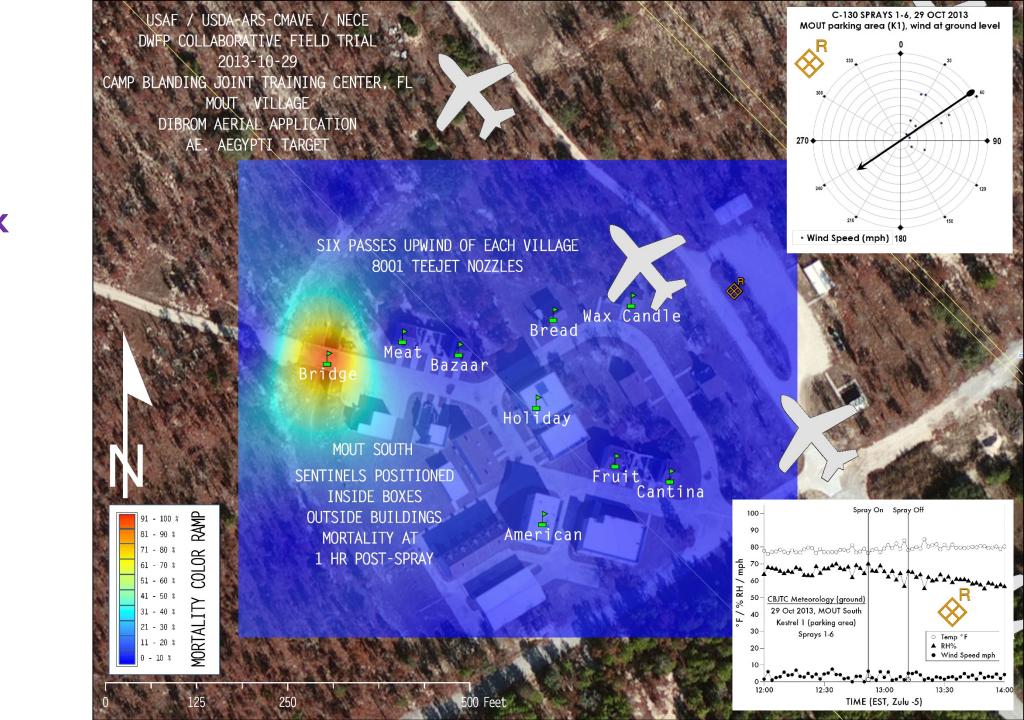
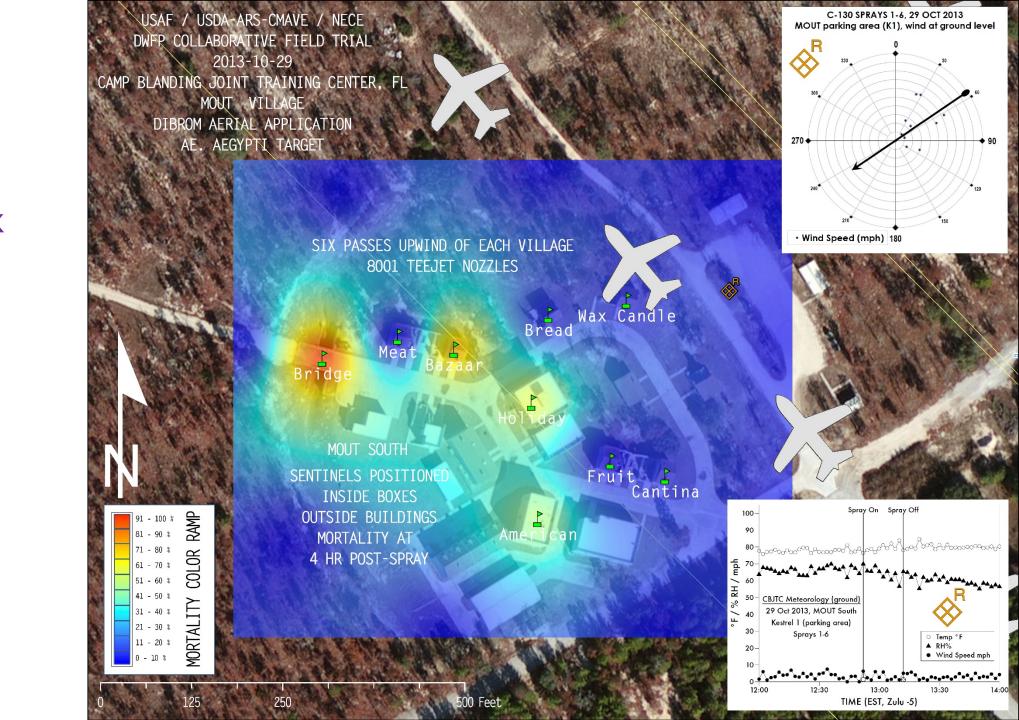
SET A SI–SI2 Figs. Naled efficacy (mortality), MOUT 29 Oct.

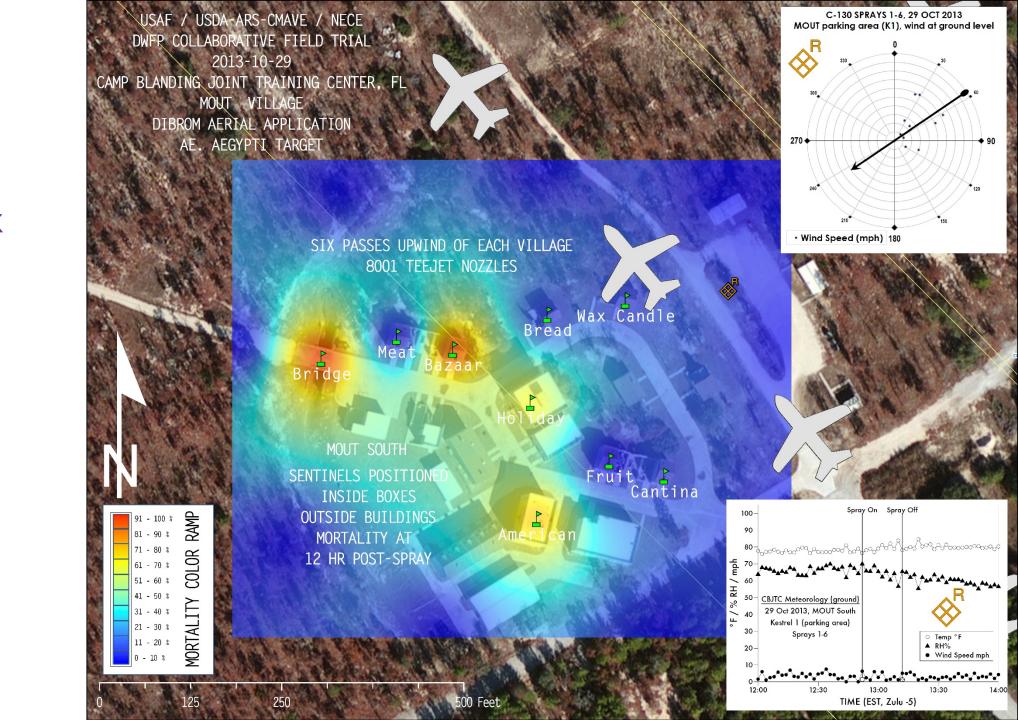
Figure SI 29 October 2013 8001 nozzles MOUT South I hr mortality Outdoors IN BOX



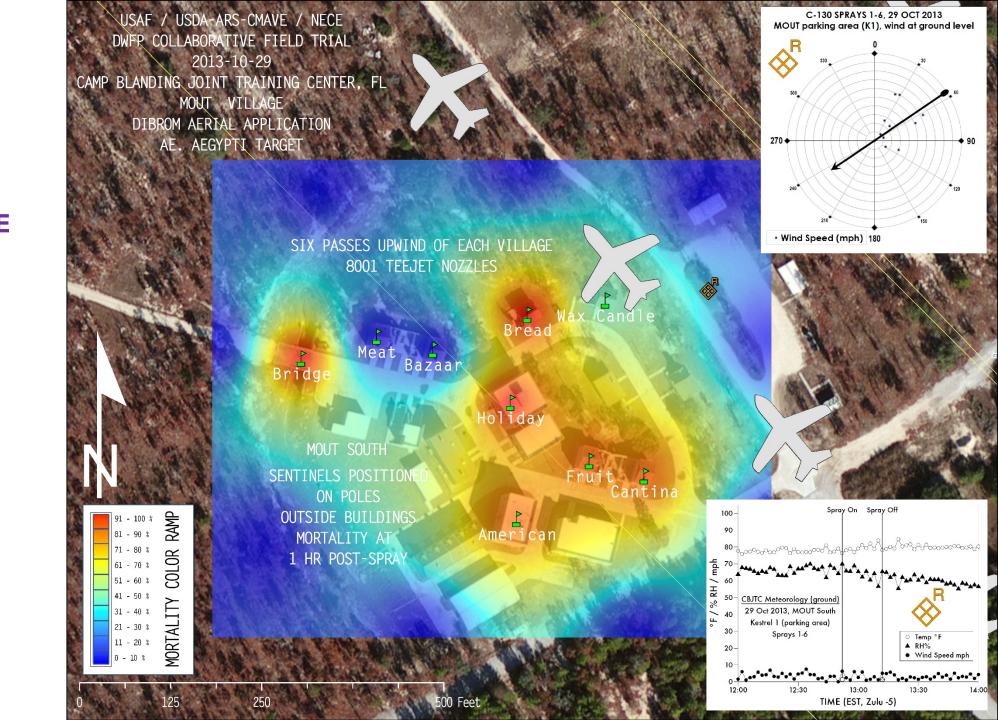
29 October 2013 8001 nozzles MOUT South 4 hr mortality Outdoors IN BOX



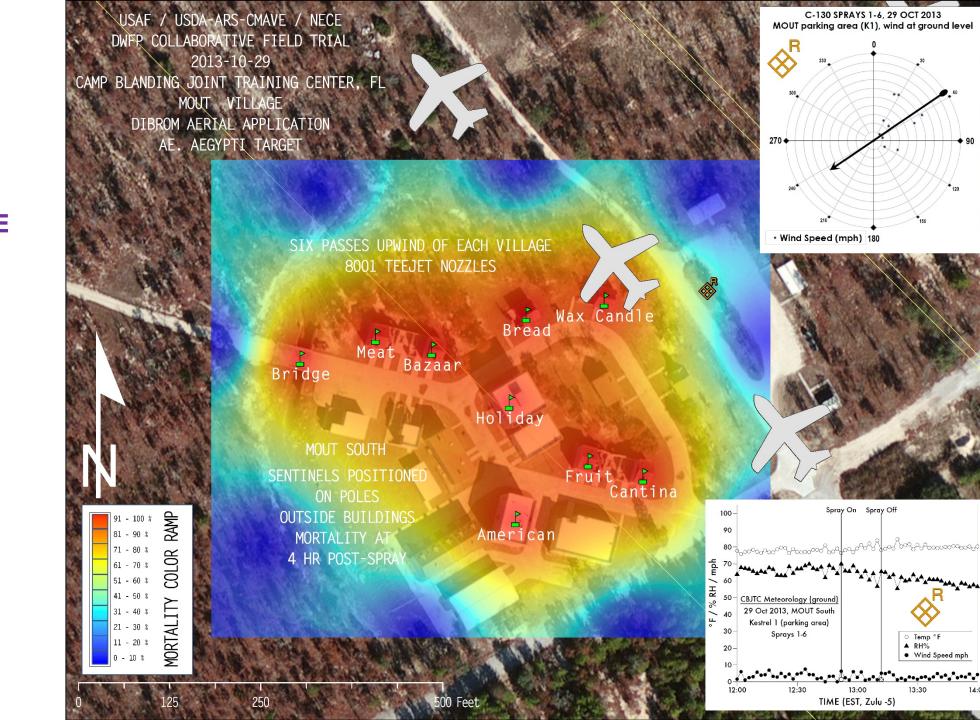
29 October 2013 8001 nozzles MOUT South 12 hr mortality Outdoors IN BOX



29 October 2013 8001 nozzles MOUT South I hr mortality Outdoors ON POLE



29 October 2013 8001 nozzles MOUT South 4 hr mortality Outdoors ON POLE



29 October 2013 8001 nozzles MOUT South 12 hr mortality Outdoors ON POLE

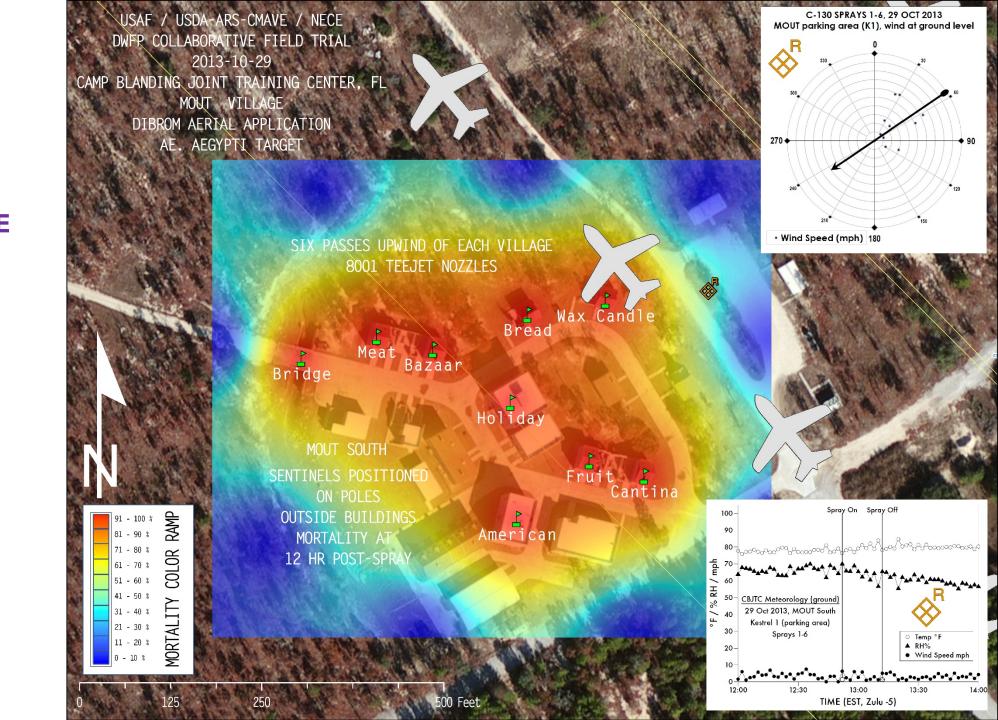
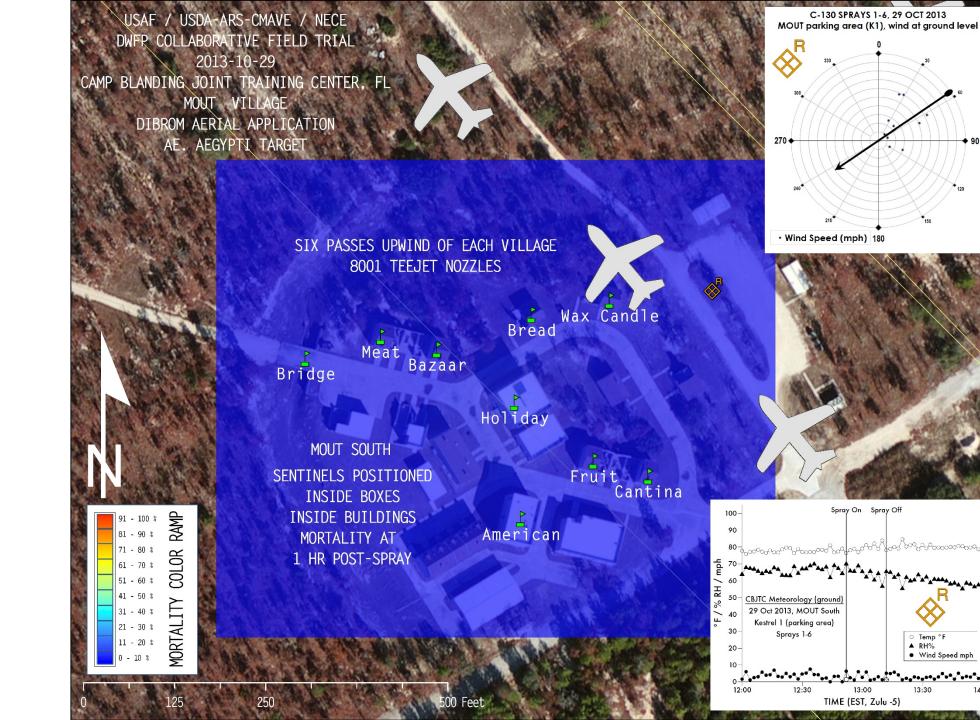


Figure S7 29 October 2013 8001 nozzles **MOUT** South I hr mortality Indoors IN BOX



 ϕ_{0} ϕ_{0} ϕ_{0} ϕ_{0} ϕ_{0} ϕ_{1} ϕ_{1} ϕ_{0} ϕ_{1}

○ Temp °F

▲ RH% Wind Speed mph

13:30

Pro anno 10

29 October 2013 8001 nozzles MOUT South 4 hr mortality Indoors IN BOX

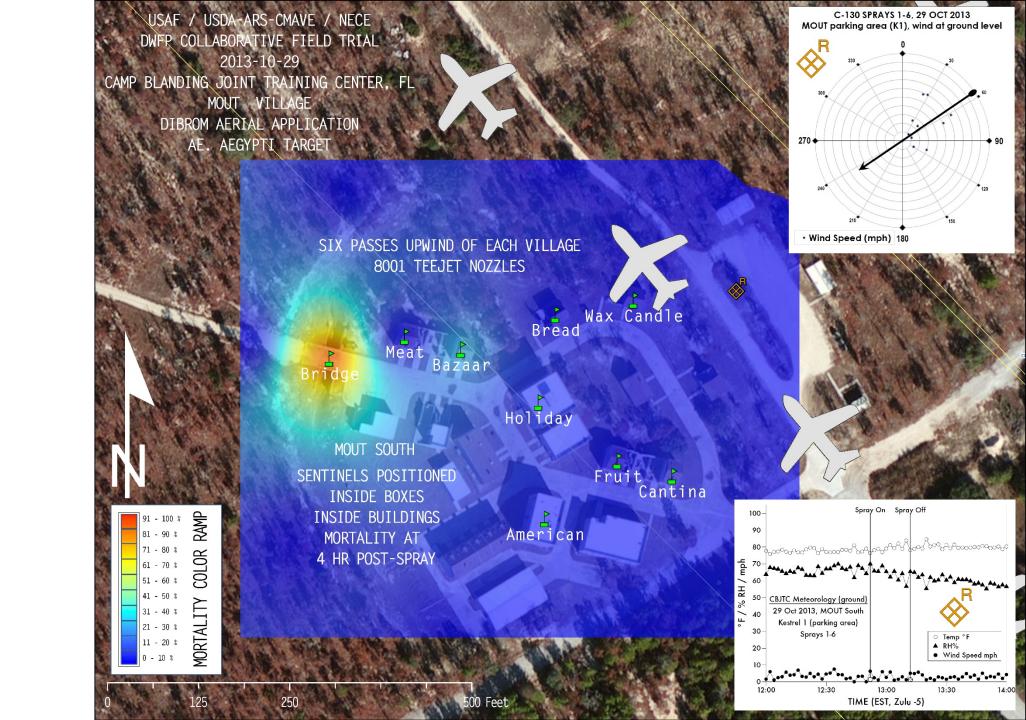


Figure S9 29 October 2013 8001 nozzles MOUT South 12 hr mortality Indoors IN BOX

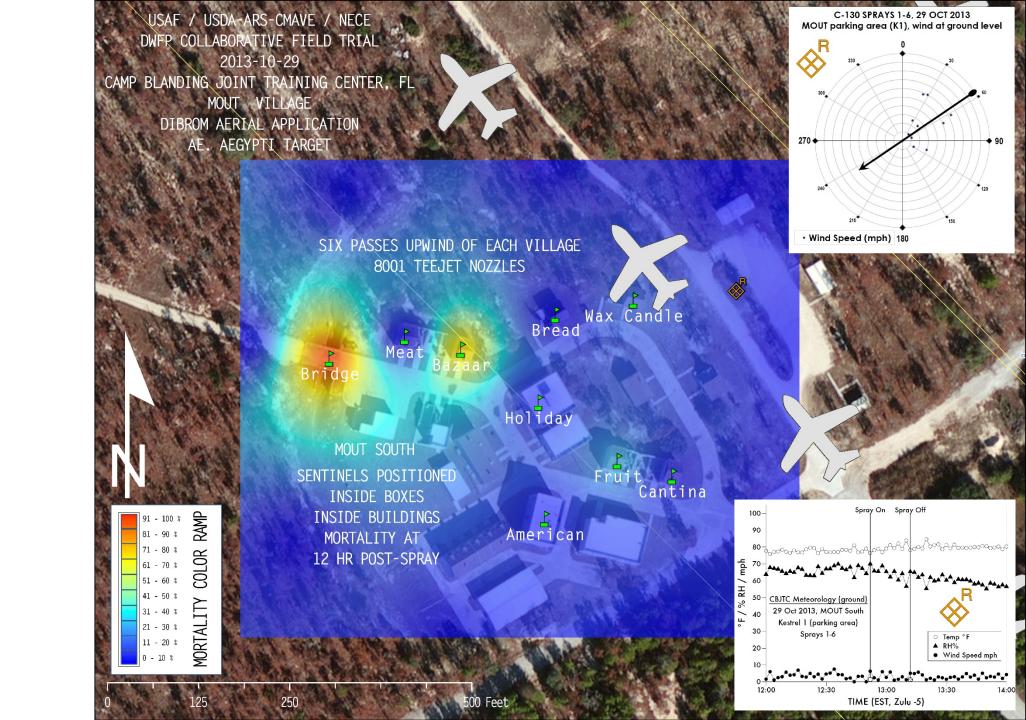


Figure S10 29 October 2013 8001 nozzles MOUT South I hr mortality Indoors ON FLOOR

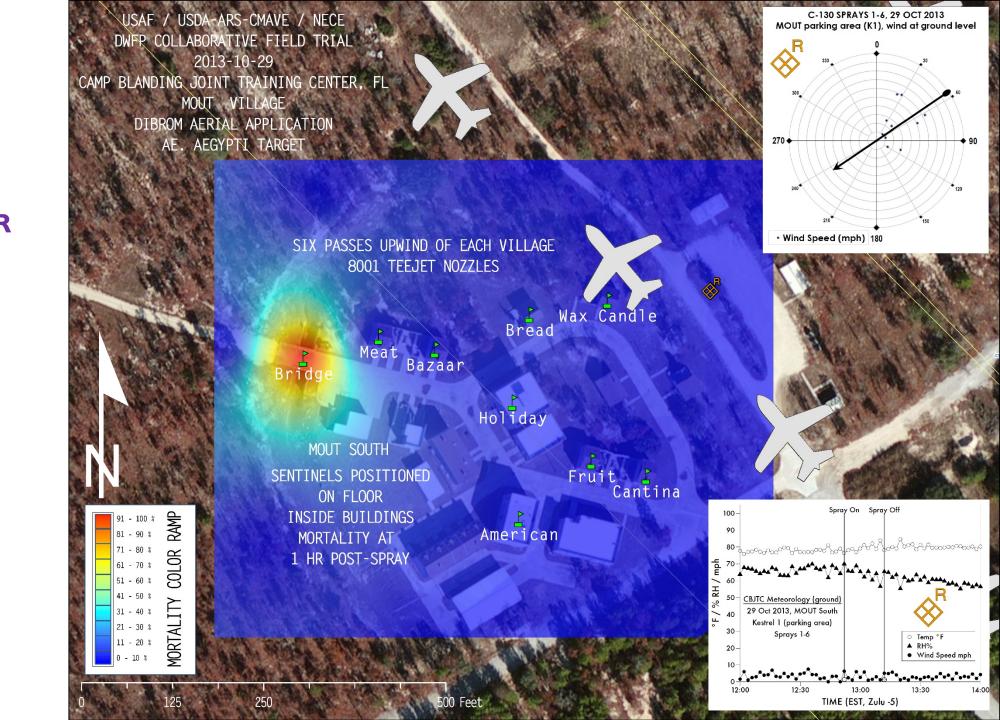


Figure SII 29 October 2013 8001 nozzles MOUT South 4 hr mortality Indoors ON FLOOR

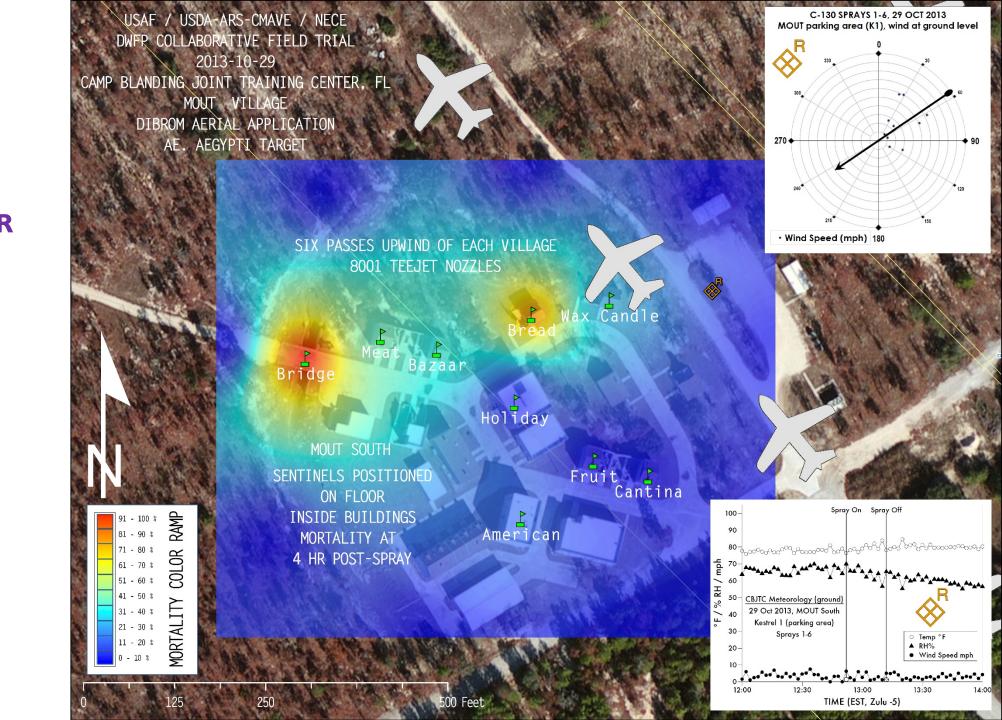
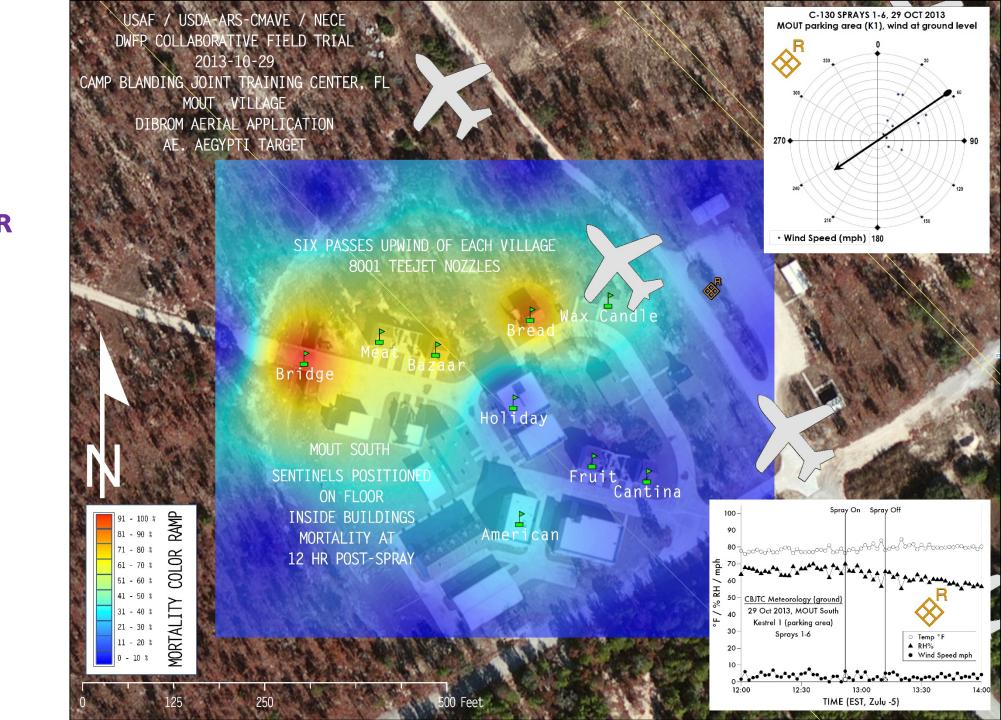


Figure S12 29 October 2013 8001 nozzles MOUT South 12 hr mortality Indoors ON FLOOR



SET B SI3–S24 Figs. Naled efficacy (mortality), MOUT 30 Oct.

Figure SI3 30 October 2013 8003 nozzles MOUT South I hr mortality Outdoors IN BOX

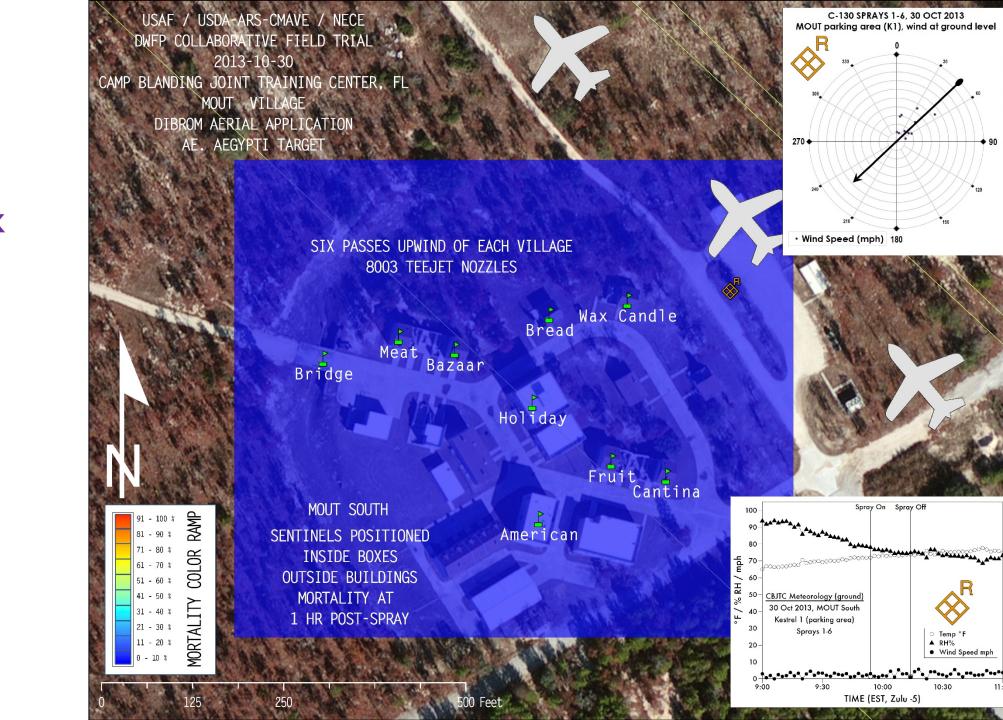


Figure SI4 30 October 2013 8003 nozzles MOUT South 4 hr mortality Outdoors IN BOX

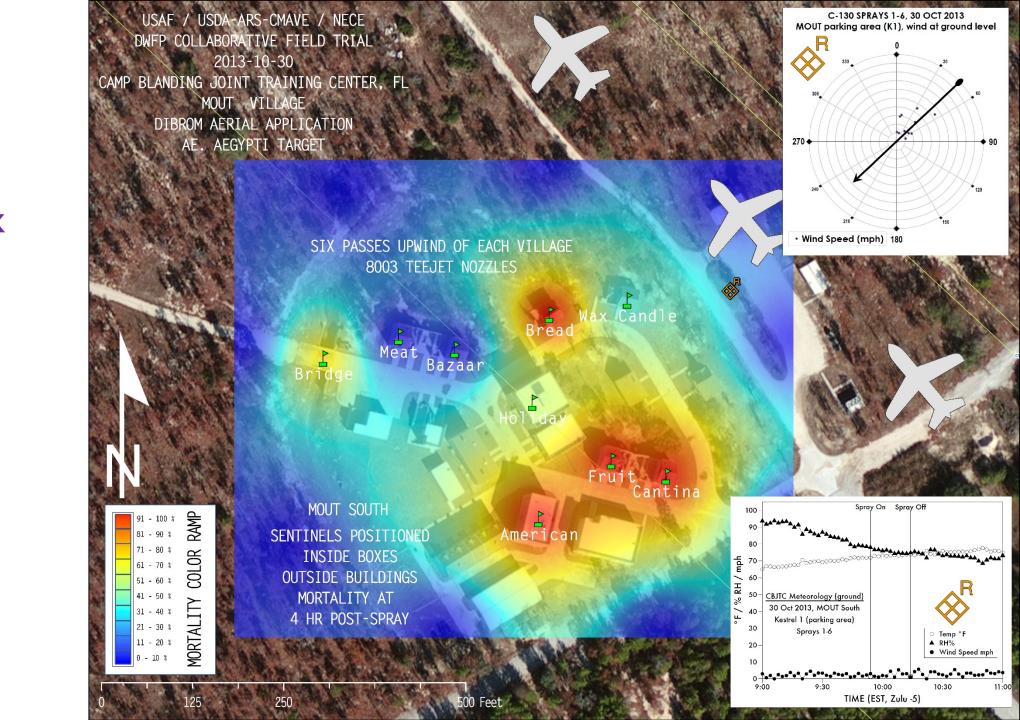


Figure S15 30 October 2013 8003 nozzles MOUT South 12 hr mortality Outdoors IN BOX

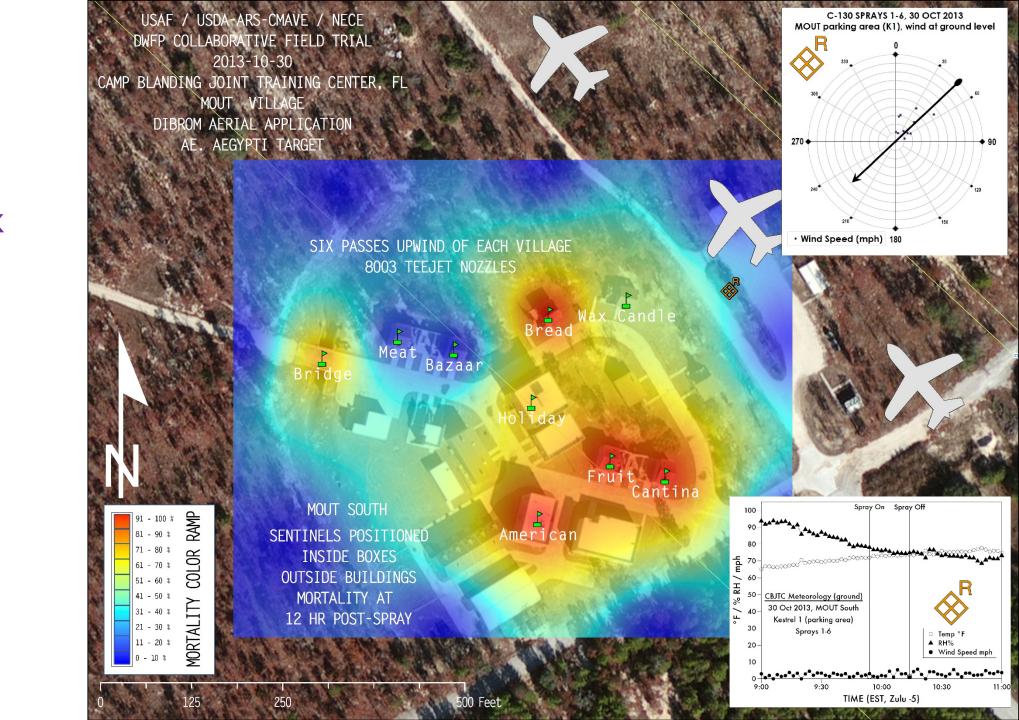


Figure S16 30 October 2013 8003 nozzles MOUT South I hr mortality Outdoors ON POLE

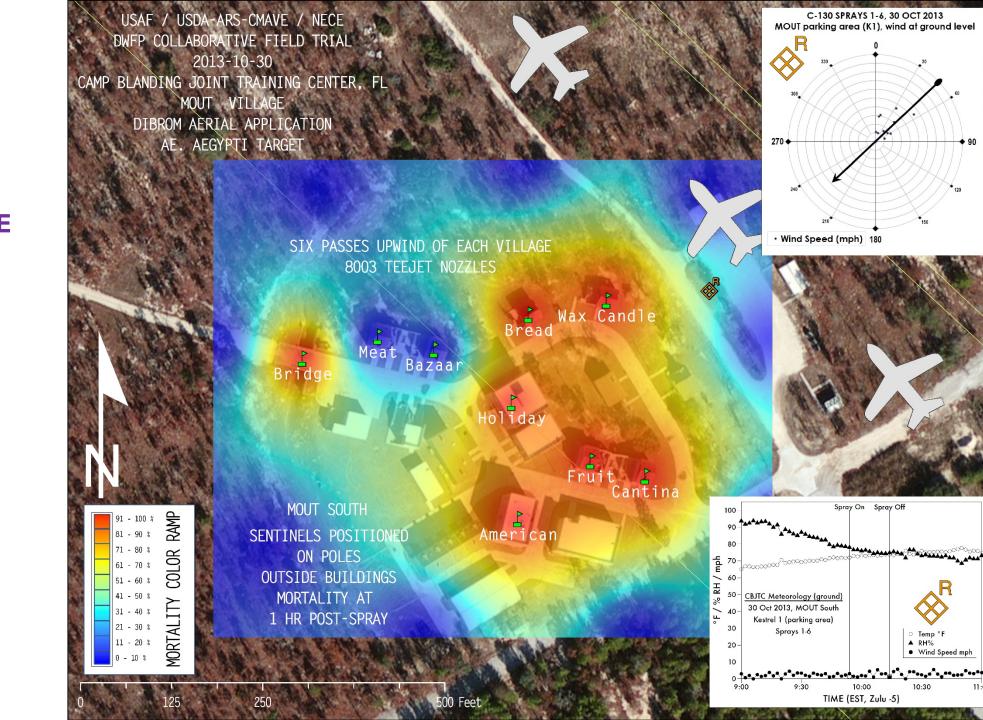


Figure SI7 30 October 2013 8003 nozzles MOUT South 4 hr mortality Outdoors ON POLE

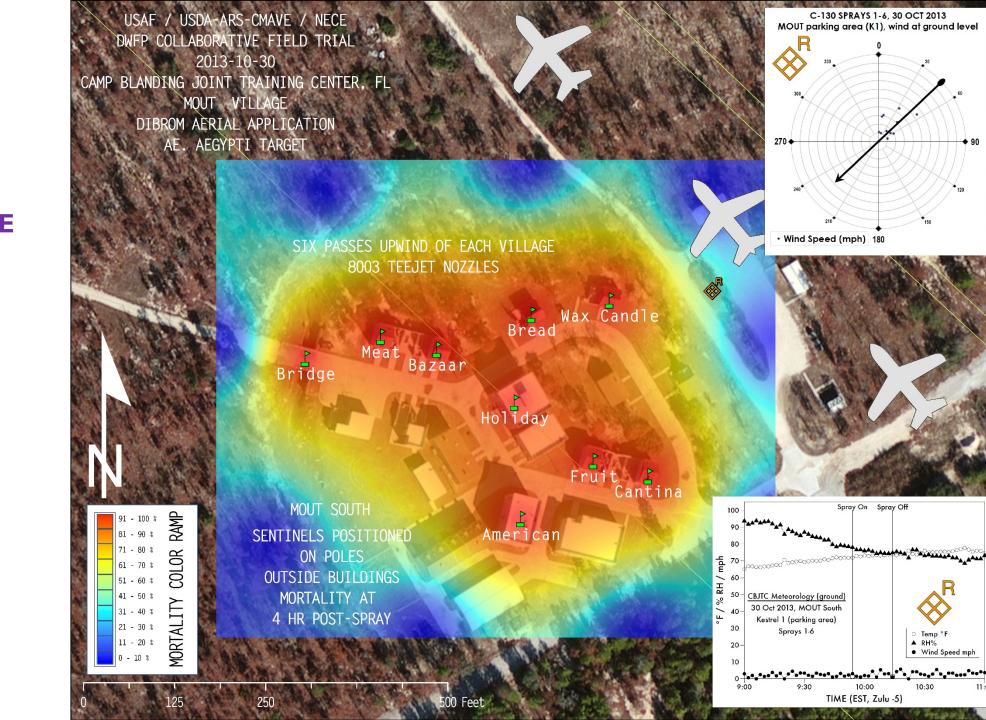


Figure S18 30 October 2013 8003 nozzles MOUT South 12 hr mortality Outdoors ON POLE

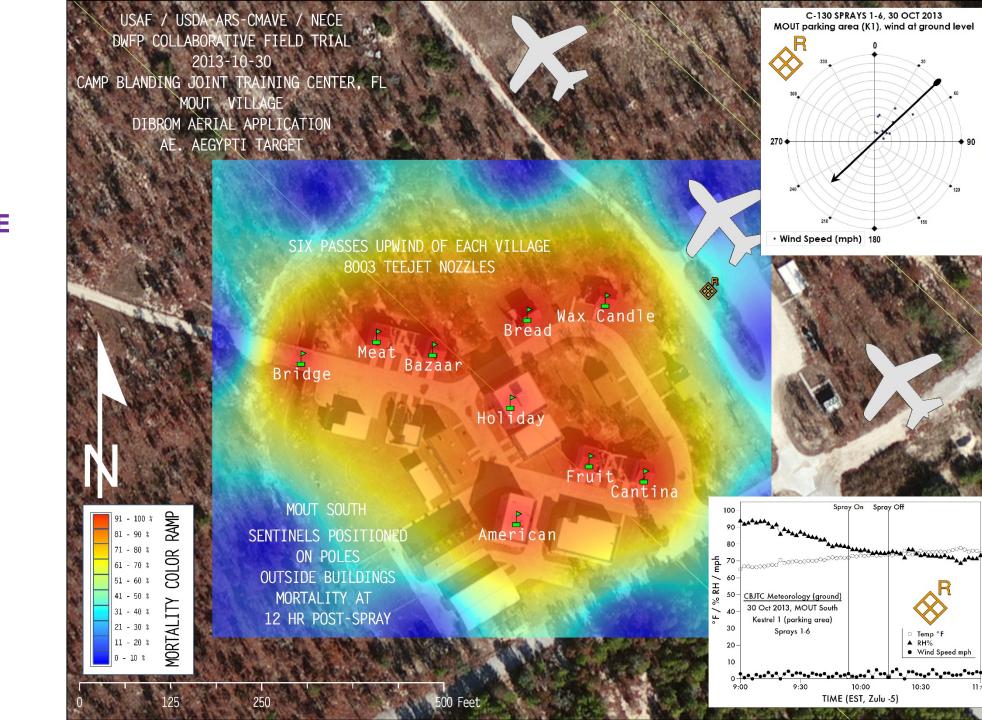


Figure S19 30 October 2013 8003 nozzles MOUT South I hr mortality Indoors IN BOX

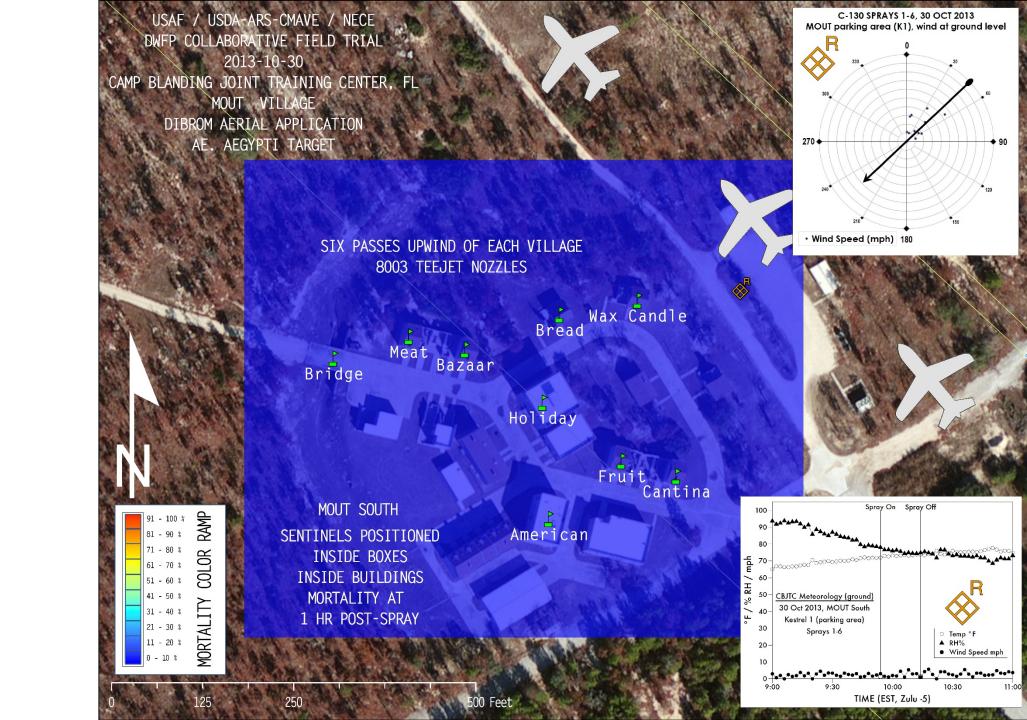


Figure S20 30 October 2013 8003 nozzles MOUT South 4 hr mortality Indoors IN BOX

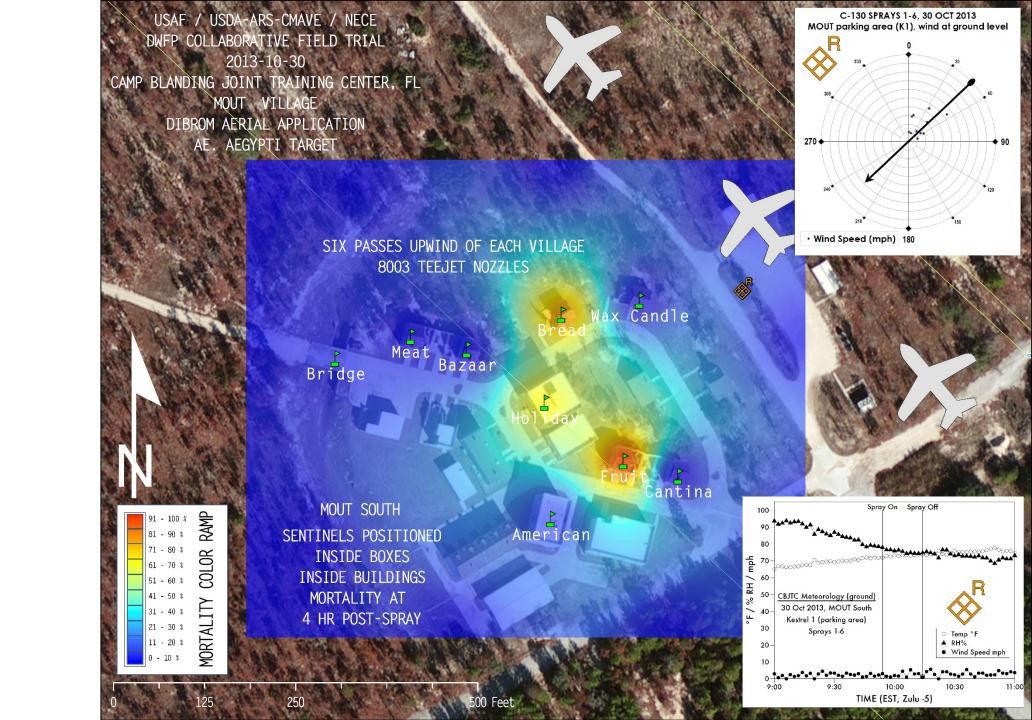


Figure S21 30 October 2013 8003 nozzles MOUT South 12 hr mortality Indoors IN BOX

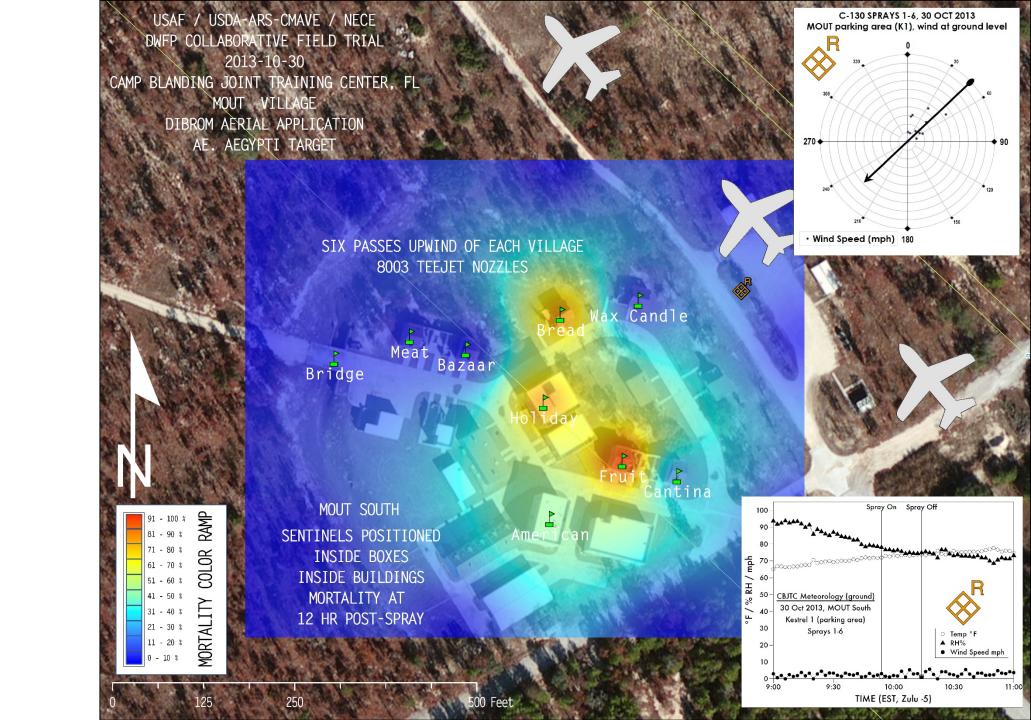


Figure S22 30 October 2013 8003 nozzles MOUT South

I hr mortality Indoors ON FLOOR

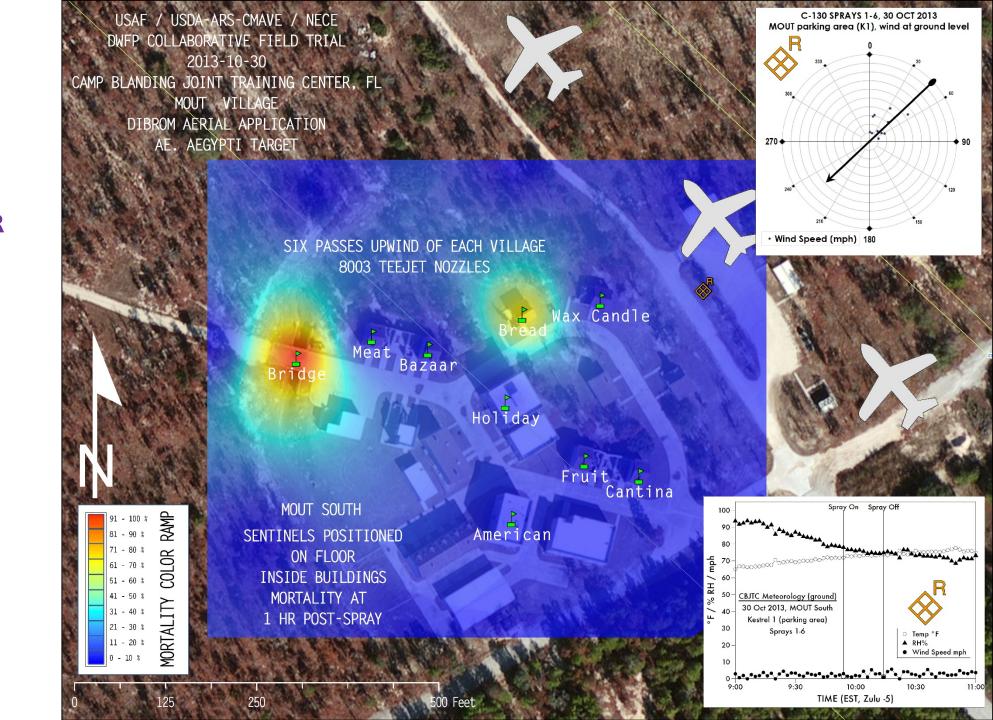
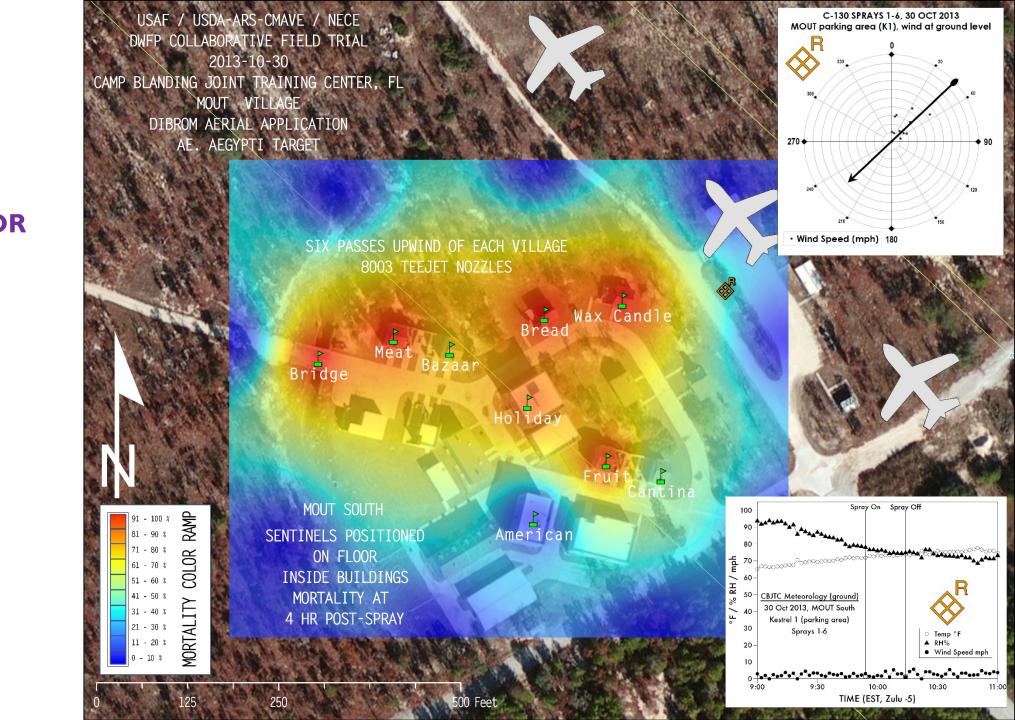
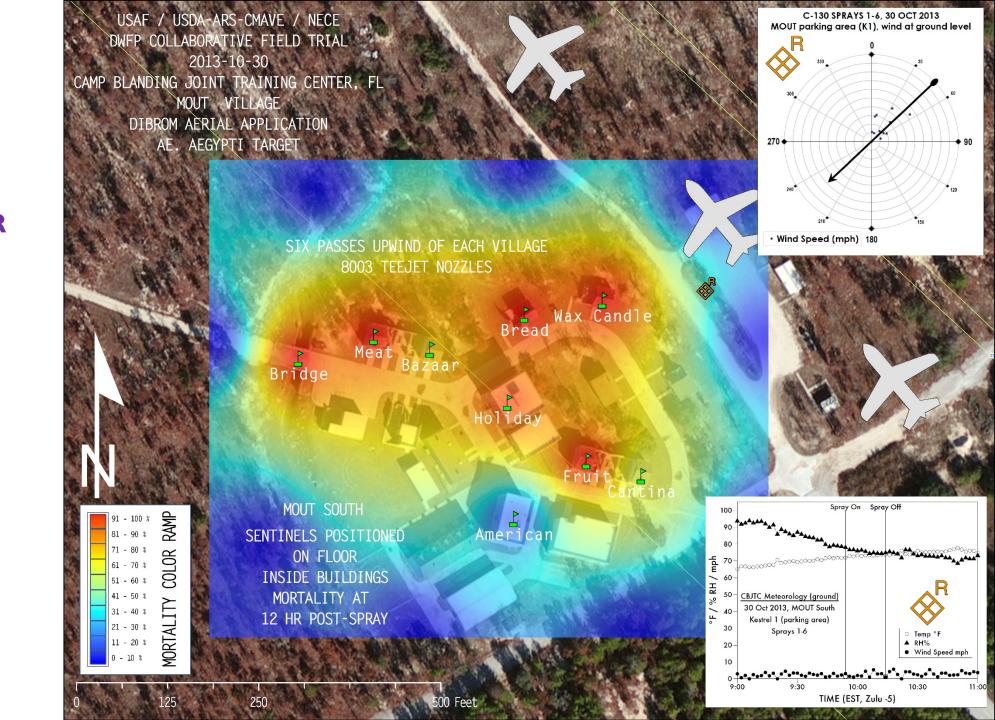


Figure S23 30 October 2013 8003 nozzles MOUT South 4 hr mortality Indoors ON FLOOR



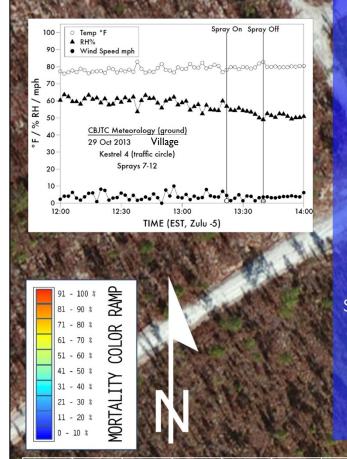
30 October 2013 8003 nozzles MOUT South 12 hr mortality Indoors ON FLOOR



SET C S25–S36 Figs. Naled efficacy (mortality),Village 29 Oct.

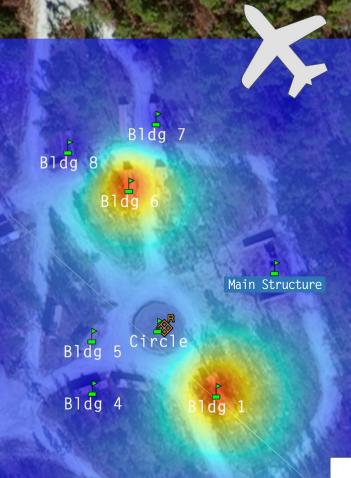
29 October 2013 8001 nozzles Village I hr mortality Outdoors IN BOX USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAG 8001 TEEJET NOZZLES



250

125



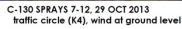
Bldg 3

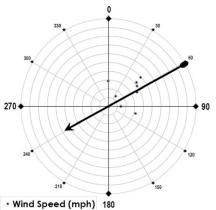
Bldg 2

VILLAGE SENTINELS POSITIONED

INSIDE BOXES OUTSIDE BUILDINGS MORTALITY AT 1 HR POST-SPRAY

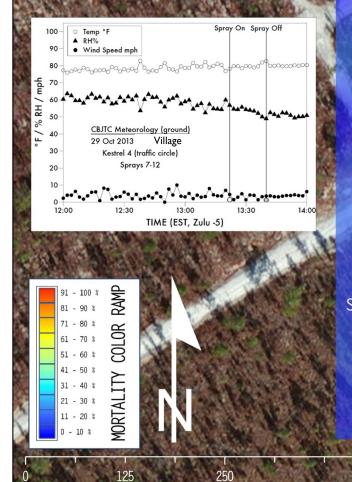
500 Feet

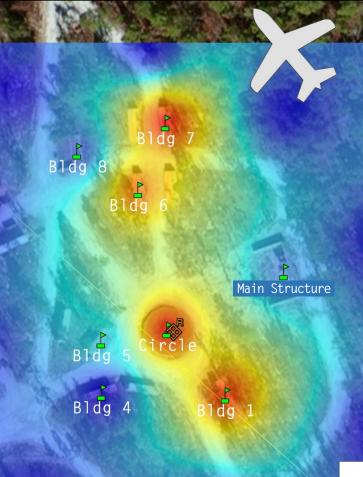




29 October 2013 8001 nozzles Village 4 hr mortality Outdoors IN BOX USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAGE 8001 TEEJET NOZZLES





VILLAGE SENTINELS POSITIONED INSIDE BOXES OUTSIDE BUILDINGS MORTALITY AT

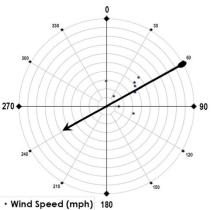
500 Feet

DUTSIDE BUILDINGS MORTALITY AT 4 HR POST-SPRAY

Bldg 3

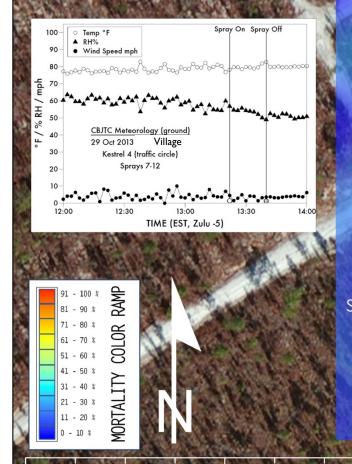
Bldg 2

C-130 SPRAYS 7-12, 29 OCT 2013 traffic circle (K4), wind at ground level



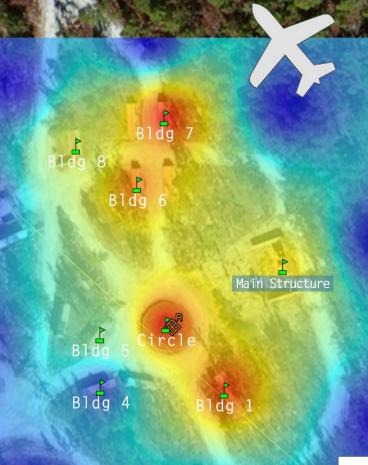
29 October 2013 8001 nozzles Village 12 hr mortality Outdoors IN BOX USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAGE 8001 TEEJET NOZZLES



250

125



Bldg

Bldg

VILLAGE SENTINELS POSITIONED INSIDE BOXES

500 Feet

OUTSIDE BUILDINGS MORTALITY AT 12 HR POST-SPRAY

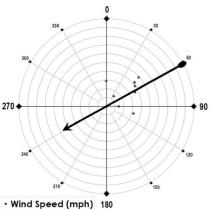
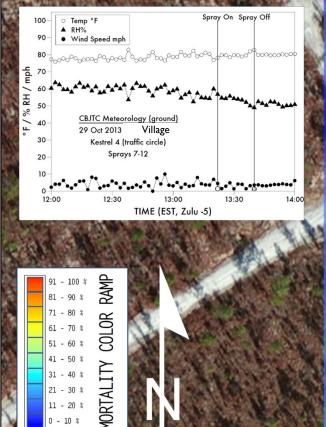


Figure S28 29 October 2013

8001 nozzlesVillageI hr mortalityOutdoors ON POLE

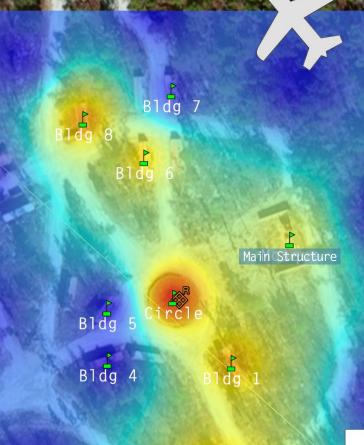
USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAGE 8001 TEEJET NOZZLES



125

250

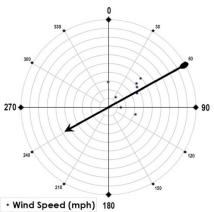


Bldg 2



500 Feet

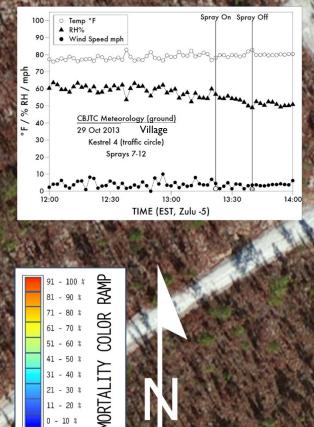
C-130 SPRAYS 7-12, 29 OCT 2013 traffic circle (K4), wind at ground level



29 October 2013 8001 nozzles Village 4 hr mortality Outdoors **ON POLE**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VIL 8001 TEEJET NOZZLES



31 - 40 % 21 - 30 % 11 - 20 % - 10 %

125

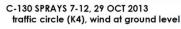
250

Bldg Bldg 8 Bldg 6 Main Structure Bldg 5 Circle Bldg 4 Bldg 1

Bldg 2

VILLAGE SENTINELS POSITIONED Bldg 3 ON POLES OUTSIDE BUILDINGS MORTALITY AT 4 HR POST-SPRAY

500 Feet



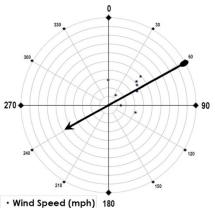
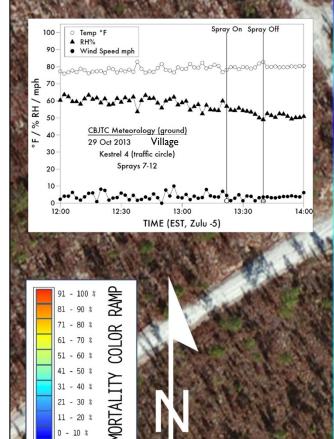


Figure S30 29 October 2013 8001 nozzles Village

12 hr mortality Outdoors **ON POLE**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

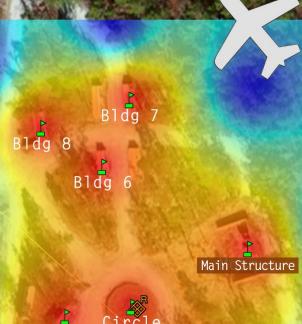
SIX PASSES UPWIND OF EACH VIL 8001 TEEJET NOZZLES



31 - 40 % 21 - 30 % 11 - 20 % - 10 %

125

250



Bldg 5 Circle Bldg 4 Bldg 1

Bldg 3

Bldg 2

VILLAGE SENTINELS POSITIONED ON POLES OUTSIDE BUILDINGS MORTALITY AT 12 HR POST-SPRAY

500 Feet

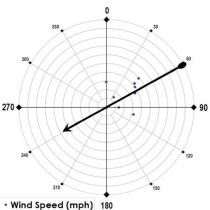
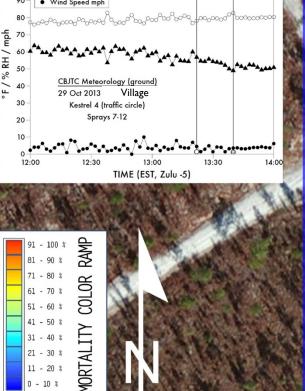


Figure S31 29 October 2013 8001 nozzles

Village I hr mortality Indoors **IN BOX**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-2 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET SIX PASSES UPWIND OF EACH VII 8001 TEEJET NOZZLES Spray On Spray Off 100 ○ Temp °F ▲ RH% 90- • Wind Speed mph $\phi_{0} = \phi_{0} = \phi_{0$



250

21 - 30 % 11 - 20 % - 10 %

125



Main Structure Bldg 5 Circle Bldg 4 Bldg 1

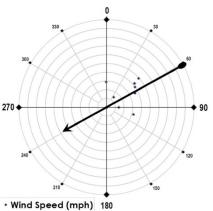
VILLAGE

SENTINELS POSITIONED INSIDE BOXES INSIDE BUILDINGS MORTALITY AT 1 HR POST-SPRAY

500 Feet

Bldg 3 Bldg 2





29 October 2013 8001 nozzles Village 4 hr mortality Indoors IN BOX

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET SIX PASSES UPWIND OF EACH VIL 8001 TEEJET NOZZLES Spray On Spray Off 100 ○ Temp °F ▲ RH% 90- • Wind Speed mph ϕ_{0} CBJTC Meteorology (ground) 29 Oct 2013 Village 30 Kestrel 4 (traffic circle) Sprays 7-12 20 √<u>∖</u>₊₅∙<u>₹,</u>₅₅,₹,∕∧,₅₹,₅,⁷,₅,₹,_₽,_₽,_₽,_₽,_₽,_₽, 12:00 12:30 13:00 13:30 TIME (EST, Zulu -5) RAMP - 100 % 81 - 90 % 1 - 80 % COLOR 61 - 70 % 51 - 60 % 41 - 50 % **MORTALITY** 31 - 40 % 21 - 30 % 11 - 20 % - 10 %

125

250

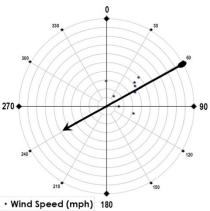
Bldg 7 Bldg Bldg 6 Main Structure Bldg 5 Circle Bldg 4 Bldg 1

Bldg

Bldg

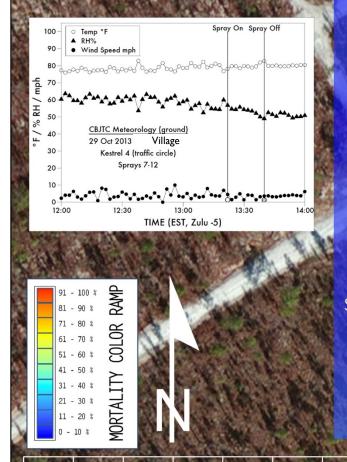
VILLAGE SENTINELS POSITIONED INSIDE BOXES INSIDE BUILDINGS MORTALITY AT 4 HR POST-SPRAY

500 Feet



29 October 2013 8001 nozzles Village 12 hr mortality Indoors IN BOX USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAGE 8001 TEEJET NOZZLES



250

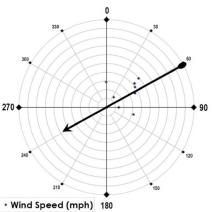
125

Bldg 7 Bldg 6 Main Structure Bldg 5 Circle Bldg 4 Bldg 1

VILLAGE SENTINELS POSITIONED INSIDE BOXES INSIDE BUILDINGS MORTALITY AT 12 HR POST-SPRAY

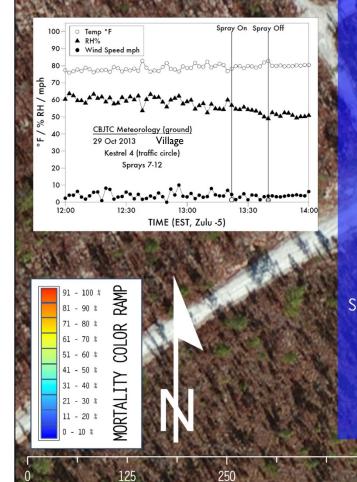
500 Feet





29 October 2013 8001 nozzles Village I hr mortality Indoors ON FLOOR USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAG 8001 TEEJET NOZZLES







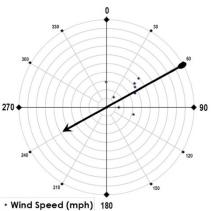
VILLAGE SENTINELS POSITIONED ON FLOOR INSIDE BUILDINGS MORTALITY AT 1 HR POST-SPRAY

500 Feet

Bldg 3 Bldg 2



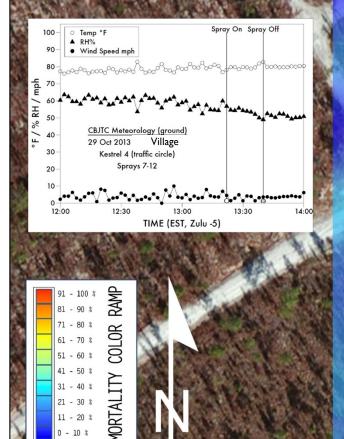
C-130 SPRAYS 7-12, 29 OCT 2013 traffic circle (K4), wind at ground level



29 October 2013 8001 nozzles Village 4 hr mortality Indoors **ON FLOOR**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

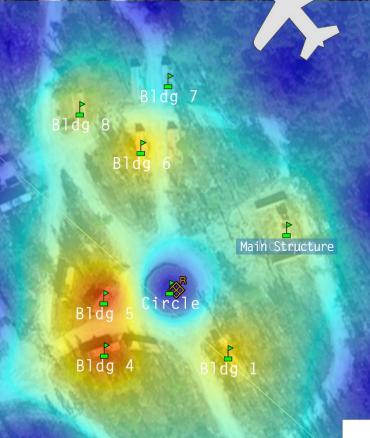
SIX PASSES UPWIND OF EACH VIL AGF 8001 TEEJET NOZZLES



- 10 %

125

250



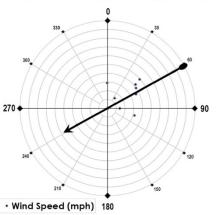
Bldg

Bldg



500 Feet

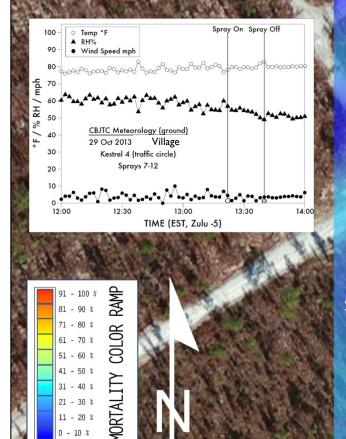
C-130 SPRAYS 7-12, 29 OCT 2013 traffic circle (K4), wind at ground level



200 B 200 B 200

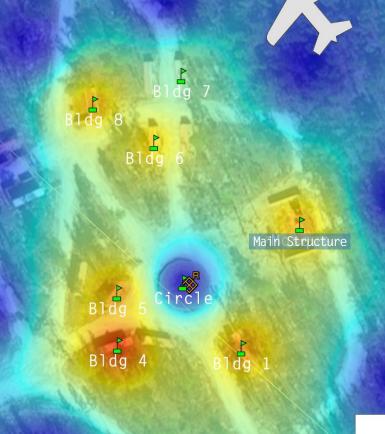
29 October 2013 8001 nozzles Village 12 hr mortality Indoors ON FLOOR USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-29 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAGE 8001 TEEJET NOZZLES



125

250



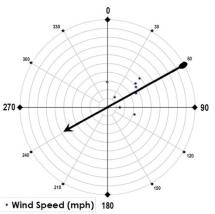
Bldg

Bldg



500 Feet

C-130 SPRAYS 7-12, 29 OCT 2013 traffic circle (K4), wind at ground level



SET D S37–S48 Figs. Naled efficacy (mortality), Village 30 Oct.

Figure S37 30 October 2013 8003 nozzles Village I hr mortality Outdoors IN BOX USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET SIX PASSES UPWIND OF EACH VILLAGE 8003 TEEJET NOZZLES

Spray On Spray Off ○ Temp °F ▲ RH% • Wind Speed mph ***** 0000000000000000 LAAAAAA A AAAAAAA 50 CBJTC Meteorology (ground) 40 Village 30 Oct 2013 30 Kestrel 4 (traffic circle) Sprays 7-12 20 9:30 10:00 TIME (EST, Zulu -5)

RAMP

COLOR

MORTALITY

125

250

- 100 %

81 - 90 %

71 - 80 %

61 - 70 %

51 - 60 %

41 - 50 %

31 - 40 % 21 - 30 % 11 - 20 % 0 - 10 %



Main Structure

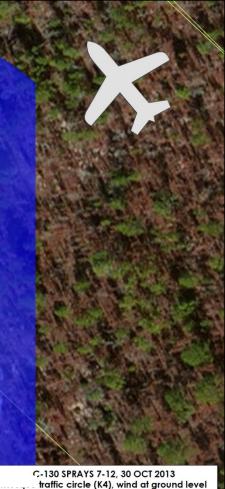
5 Circle

Bldg 4 Bldg 1

VILLAGE

SENTINELS POSITIONED INSIDE BOXES OUTSIDE BUILDINGS MORTALITY AT 1 HR POST-SPRAY

500 Feet



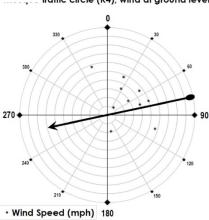
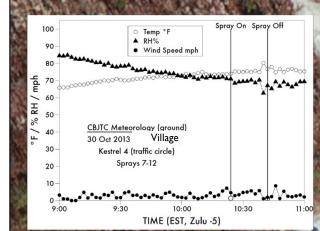


Figure S38 30 October 2013 8003 nozzles Village 4 hr mortality

Outdoors IN BOX

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAGE 8003 TEEJET NOZZLES



RAMP

COLOR

MORTALITY

125

250

- 100 %

81 - 90 %

71 - 80 %

61 - 70 %

51 - 60 %

41 - 50 %

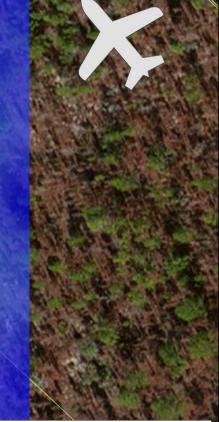
31 - 40 % 21 - 30 % 11 - 20 % 0 - 10 % Bldg 7 Bldg 8 Bldg 6 Main Structure

Bldg 5 Circle Bldg 4 Bldg 1

VILLAGE SENTINELS POSITIONED INSIDE BOXES OUTSIDE BUILDINGS MORTALITY AT

4 HR POST-SPRAY

500 Feet



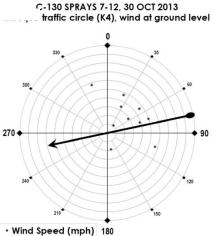
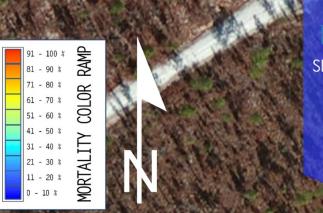


Figure S39 30 October 2013 8003 nozzles Village 12 hr mortality Outdoors IN BOX

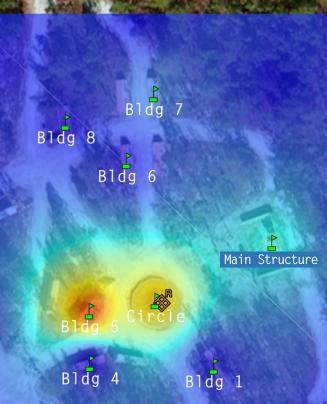
USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-3 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET SIX PASSES UPWIND OF EACH VILL 8003 TEEJET NOZZLES Spray On Spray Off ○ Temp °F ▲ RH% • Wind Speed mph ***** 000000000000000 LAAAAAA A AAAAAAA 50 CBJTC Meteorology (ground) 40 30 Oct 2013 Village 30 Kestrel 4 (traffic circle) Sprays 7-12 20

20-10-0-9:00 9:30 10:00 10:30 17 TIME (EST, Zulu -5)



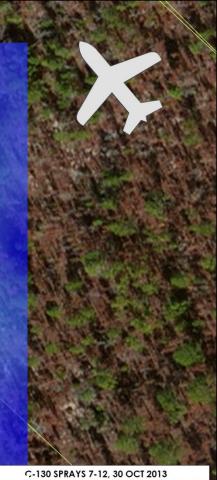
250

125



VILLAGE SENTINELS POSITIONED INSIDE BOXES OUTSIDE BUILDINGS MORTALITY AT 12 HR POST-SPRAY

500 Feet



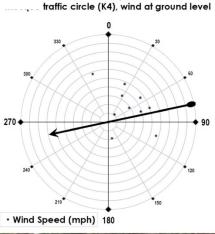
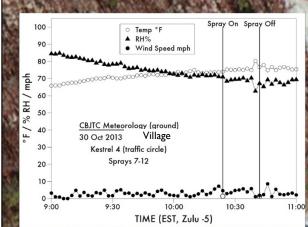


Figure S40 30 October 2013 8003 nozzles Village I hr mortality Outdoors **ON POLE**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VIL AGF 8003 TEEJET NOZZLES

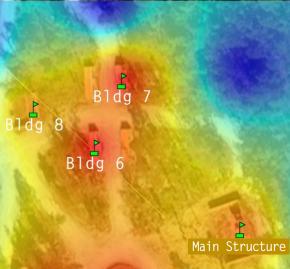


RAMP - 100 % 81 - 90 % 71 - 80 % COLOR 61 - 70 % 51 - 60 % 41 - 50 % **MORTALITY** 31 - 40 %

250

21 - 30 % 11 - 20 % 0 - 10 %

125



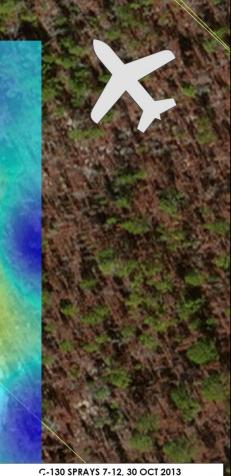
Bldg 5 Circle Bldg 4 Bldg 1

Bldg

Bldg

VILLAGE SENTINELS POSITIONED ON POLES OUTSIDE BUILDINGS MORTALITY AT 1 HR POST-SPRAY

500 Feet



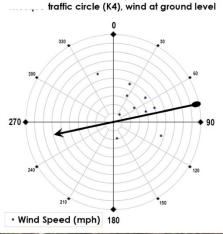
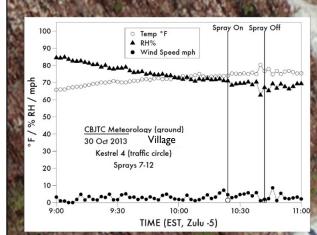


Figure S41 30 October 2013 8003 nozzles Village 4 hr mortality Outdoors ON POLE USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

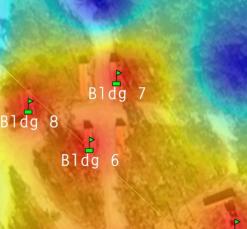
SIX PASSES UPWIND OF EACH VILLAGE 8003 TEEJET NOZZLES



91 - 100 * 81 - 90 * 71 - 80 * 61 - 70 * 51 - 60 * 41 - 50 * 31 - 40 * 11 - 20 * 0 - 10 *

250

125



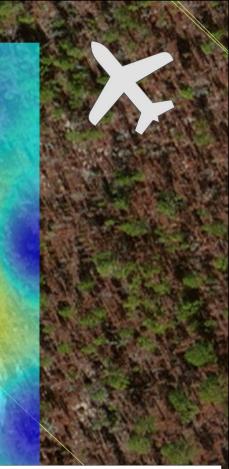
Main Structure

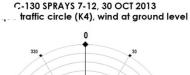
Bldg 2

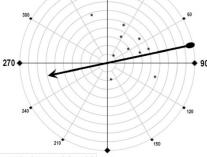
Bldg 5 ^{Circle} Bldg 4 Bldg 1

VILLAGE SENTINELS POSITIONED ON POLES OUTSIDE BUILDINGS MORTALITY AT 4 HR POST-SPRAY

500 Feet







• Wind Speed (mph) 180

Figure S42 30 October 2013 8003 nozzles Village 12 hr mortality Outdoors ON POLE

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET SIX PASSES UPWIND OF EACH VIL GF 8003 TEEJET NOZZLES Spray On Spray Off ○ Temp °F ▲ RH% Wind Speed mph 000000000000000 LAAAAAA A AAAAAAA 50 CBJTC Meteorology (ground) 40 30 Oct 2013 Village 30 Kestrel 4 (traffic circle) Sprays 7-12 20 1..... 9:30 10:00

91 - 100 % 81 - 90 % 71 - 80 % 61 - 70 % 51 - 60 % 41 - 50 % 31 - 40 % 21 - 30 % 11 - 20 % 0 - 10 %

250

125

Bldg 7 Bldg 8 Bldg 6 Main Structure

Bldg 5 Circle Bldg 4 Bldg 1

Bldg 3

Bldg 2

VILLAGE SENTINELS POSITIONED ON POLES OUTSIDE BUILDINGS MORTALITY AT 12 HR POST-SPRAY

500 Feet

C-130 SPRAYS 7-12, 30 OCT 2013 traffic circle (K4), wind at ground level 0

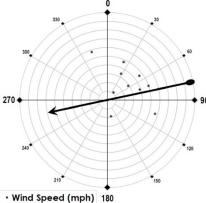


Figure S43 30 October 2013 8003 nozzles Village I hr mortality Indoors **IN BOX**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-3 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET SIX PASSES UPWIND OF EACH VIL 8003 TEEJET NOZZLES Spray On Spray Off ○ Temp °F ▲ RH% • Wind Speed mph ALALA A ALALA 00000000 50 CBJTC Meteorology (ground) 40 Village 30 Oct 2013 30 Kestrel 4 (traffic circle) Sprays 7-12 20 9:30 10:00 TIME (EST, Zulu -5) RAMP 100 % 81 - 90 % 1 - 80 % COLOR 61 - 70 % 51 - 60 % 41 - 50 % **MORTALITY** 31 - 40 % 21 - 30 % 11 - 20 % - 10 % 125 250 500 Feet

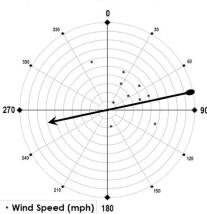
Bldg 7 Bldg 8 Bldg 6 Main Structure Circle Bldg 5

Bldg 4 Bldg 1

VILLAGE

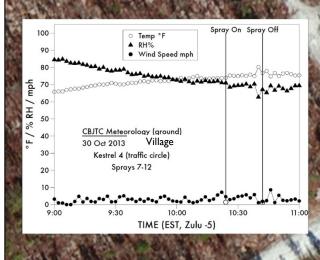
SENTINELS POSITIONED **INSIDE BOXES** INSIDE BUILDINGS MORTALITY AT 1 HR POST-SPRAY





30 October 2013 8003 nozzles Village 4 hr mortality Indoors IN BOX USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLA 8003 TEEJET NOZZLES



RAMP

COLOR

MORTALITY

125

250

100 %

81 - 90 %

1 - 80 %

61 - 70 %

51 - 60 %

41 - 50 %

31 - 40 % 21 - 30 % 11 - 20 % 0 - 10 %



Main Structure

Bldg 5 Circle

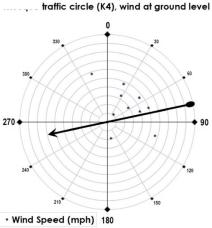
Bldg 4 Bldg 1

VILLAGE

SENTINELS POSITIONED INSIDE BOXES INSIDE BUILDINGS MORTALITY AT 4 HR POST-SPRAY

500 Feet





30 October 2013 8003 nozzles Village 12 hr mortality Indoors **IN BOX**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-3 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET SIX PASSES UPWIND OF EACH VILL 8003 TEEJET NOZZLES Spray On Spray Off ○ Temp °F ▲ RH% • Wind Speed mph Land A A A A A A 50 CBJTC Meteorology (ground) 40 Village 30 Oct 2013 30 Kestrel 4 (traffic circle) Sprays 7-12 20 9:30 10:00 TIME (EST, Zulu -5) RAMP - 100 % 81 - 90 % 1 - 80 % COLOR 61 - 70 % 51 - 60 % 41 - 50 % **MORTALITY** 31 - 40 % 21 - 30 %

11 - 20 % - 10 %

125

250



VILLAGE

SENTINELS POSITIONED **INSIDE BOXES** INSIDE BUILDINGS MORTALITY AT 12 HR POST-SPRAY

500 Feet



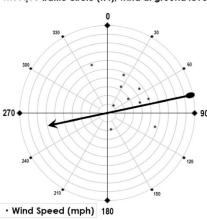
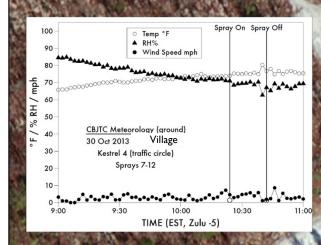


Figure S46 30 October 2013

8003 nozzles Village I hr mortality Indoors ON FLOOR USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, FL VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VILLAGE 8003 TEEJET NOZZLES



RAMP

COLOR

MORTALITY

125

250

- 100 %

81 - 90 %

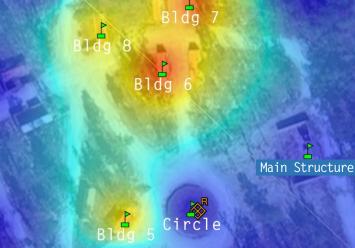
1 - 80 %

61 - 70 %

51 - 60 %

41 - 50 %

31 - 40 % 21 - 30 % 11 - 20 % 0 - 10 %



Bldg 4 Bldg 1

Bldg 3

Bldg 2

VILLAGE SENTINELS POSITIONED ON FLOOR INSIDE BUILDINGS MORTALITY AT 1 HR POST-SPRAY

500 Feet

C-130 SPRAYS 7-12, 30 OCT 2013 traffic circle (K4), wind at ground level

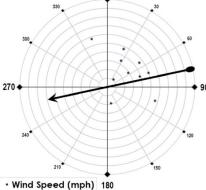
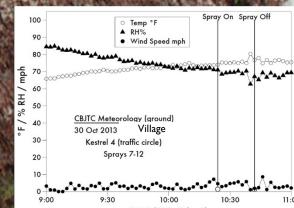


Figure S47 30 October 2013 8003 nozzles Village 4 hr mortality Indoors **ON FLOOR**

USAF / USDA-ARS-CMAVE / NECE DWFP COLLABORATIVE FIELD TRIAL 2013-10-30 CAMP BLANDING JOINT TRAINING CENTER, VILLAGE NALED AERIAL APPLICATION AE. AEGYPTI TARGET

SIX PASSES UPWIND OF EACH VIL AGF 8003 TEEJET NOZZLES



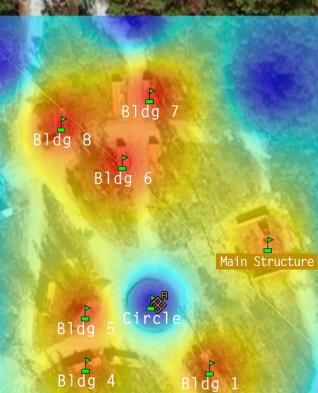
TIME (EST, Zulu -5)

RAMP - 100 % 81 - 90 % 71 - 80 % COLOR 61 - 70 % 51 - 60 % 41 - 50 % **MORTALITY** 31 - 40 % 21 - 30 % 11 - 20 %

250

0 - 10 %

125



Bldg

Bldg 2

VILLAGE

SENTINELS POSITIONED

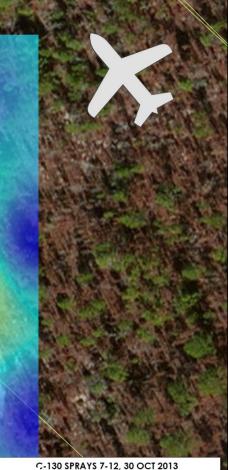
ON FLOOR

INSIDE BUILDINGS

MORTALITY AT

4 HR POST-SPRAY

500 Feet



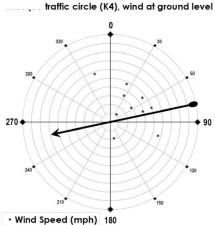
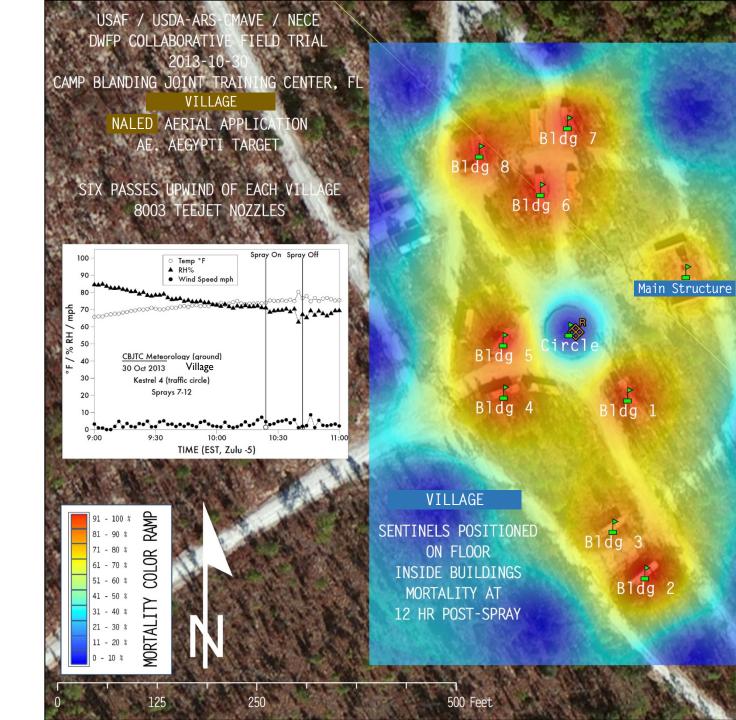
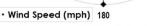


Figure S48 30 October 2013 8003 nozzles Village 12 hr mortality Indoors ON FLOOR





C-130 SPRAYS 7-12, 30 OCT 2013 traffic circle (K4), wind at ground level

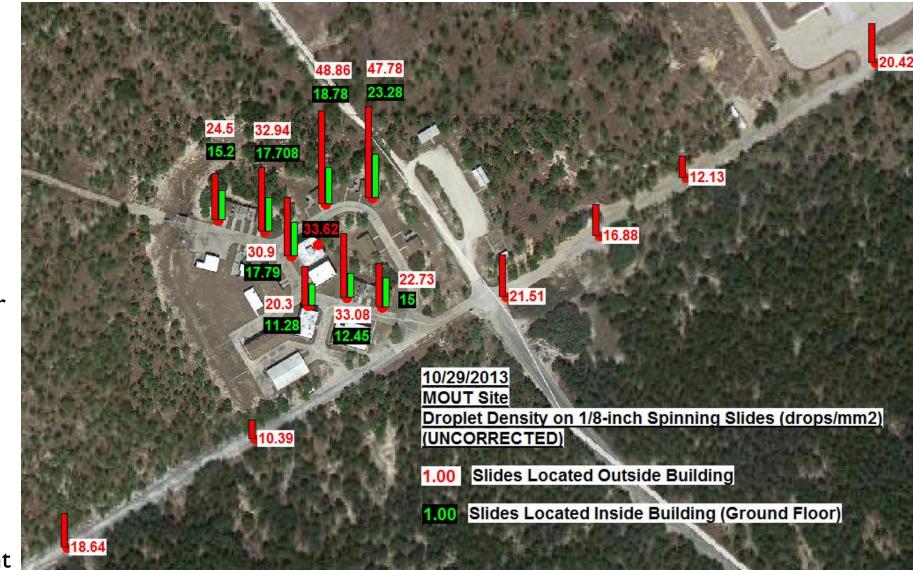


SET E S49–S50 Figs. Naled droplet densities, MOUT 29 Oct.

Figure S49 29 October 2013 8001 nozzles MOUT South and nearby road Transect.

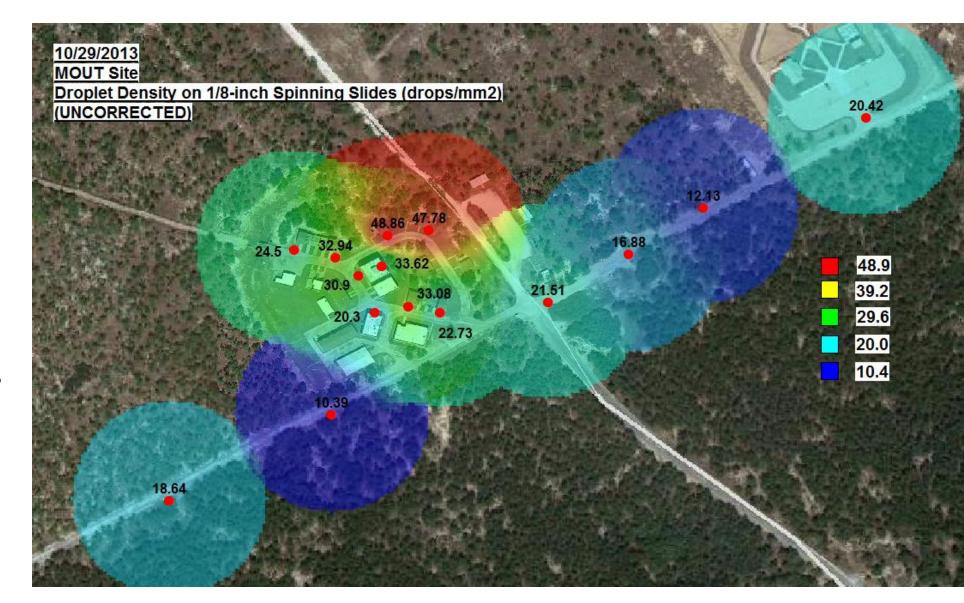
Droplet density (uncorrected) on 1/8-in spinning rods mounted on FLB spinners, in droplets per mm².

Note value of 33.62 in **red** with a black background to distinguish the FLB spinner located on a rooftop. All other values in red (with white background) represent FLB spinners at ground level.



29 October 2013 8001 nozzles MOUT South and nearby road Transect.

Droplet density (uncorrected) on 1/8-in spinning rods mounted on **outdoor** FLB spinners, in droplets per mm², represented as a 'heat map' to approximate transitions among values at point measurement locations.

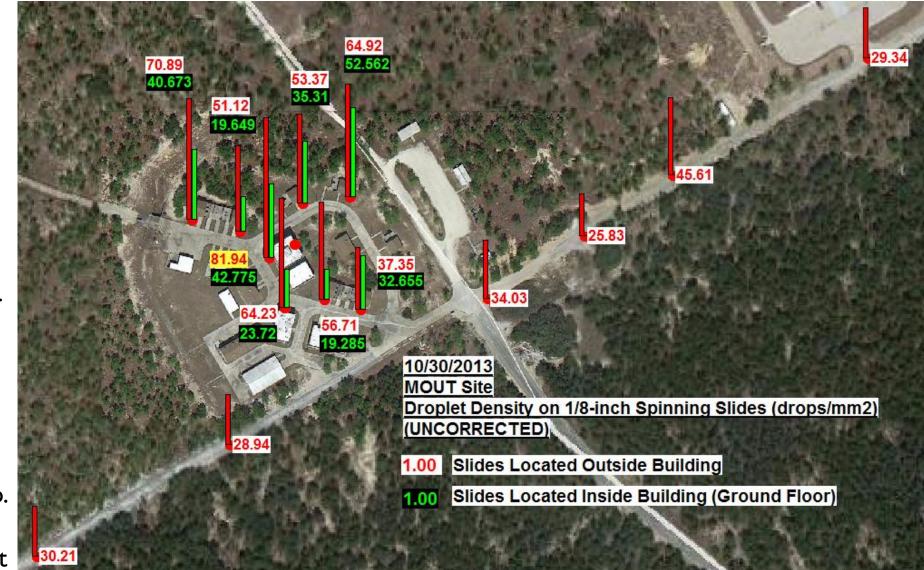


SET F S51–S52 Figs. Naled droplet densities, MOUT 30 Oct.

Figure S51 30 October 2013 8003 nozzles MOUT South and nearby road Transect.

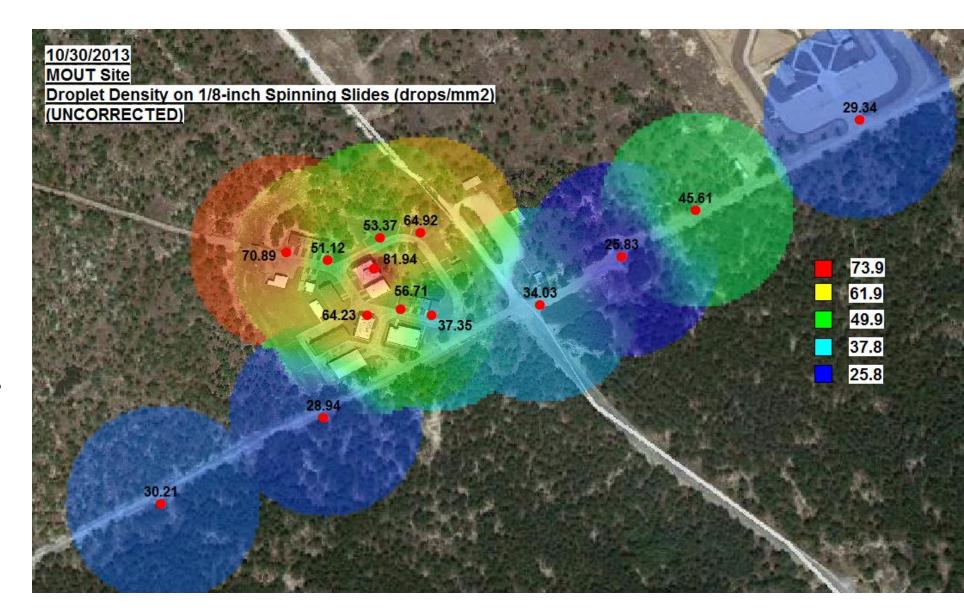
Droplet density (uncorrected) on 1/8-in spinning rods mounted on FLB spinners, in droplets per mm².

Note value of 33.62 in red with a **yellow** background to distinguish the FLB spinner located on a rooftop. All other values in red (with white background) represent FLB spinners at ground level.



30 October 20138003 nozzlesMOUT South and nearby road Transect.

Droplet density (uncorrected) on 1/8-in spinning rods mounted on **outdoor** FLB spinners, in droplets per mm², represented as a 'heat map' to approximate transitions among values at point measurement locations.



SET G S53–S54 Figs. Naled droplet densities, Village 29 Oct.

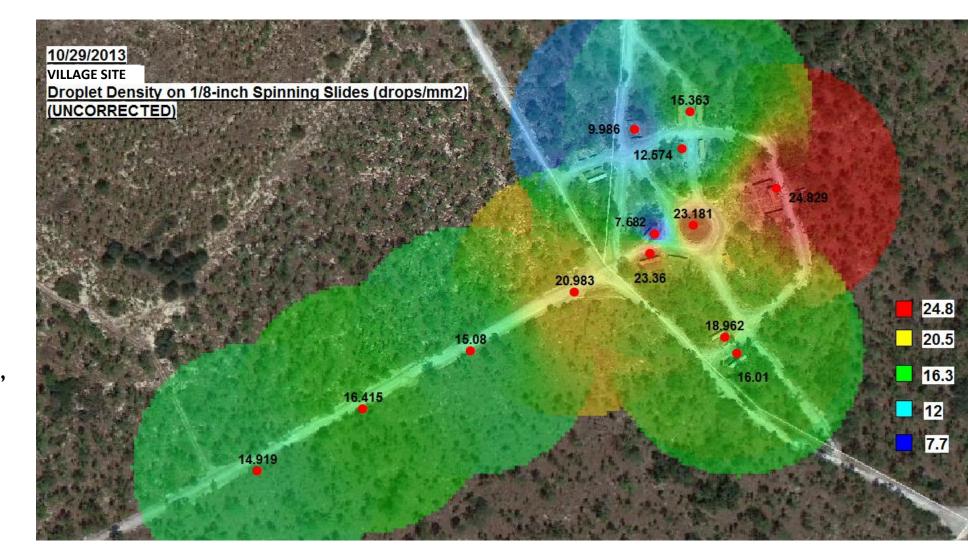
29 October 2013 8001 nozzles Village and nearby road Transect

Droplet density (uncorrected) on 1/8-in spinning rods mounted on FLB spinners, in droplets per mm².



29 October 2013 8001 nozzles Village and nearby road Transect.

Droplet density (uncorrected) on 1/8-in spinning rods mounted on **outdoor** FLB spinners, in droplets per mm², represented as a 'heat map' to approximate transitions among values at point measurement locations.



SET H S55–S56 Figs. Naled droplet densities, Village 30 Oct.

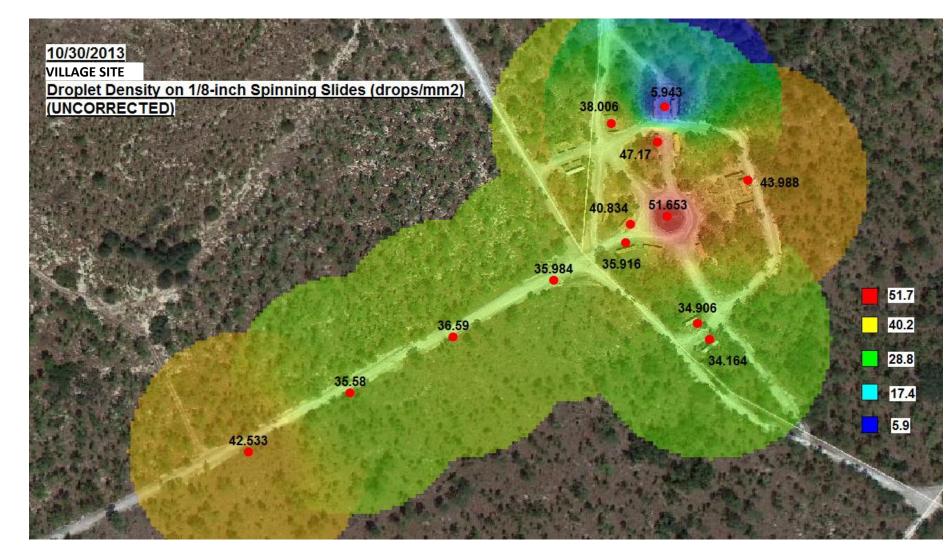
30 October 20138003 nozzlesVillage and nearby roadTransect

Droplet density (uncorrected) on 1/8-in spinning rods mounted on FLB spinners, in droplets per mm².



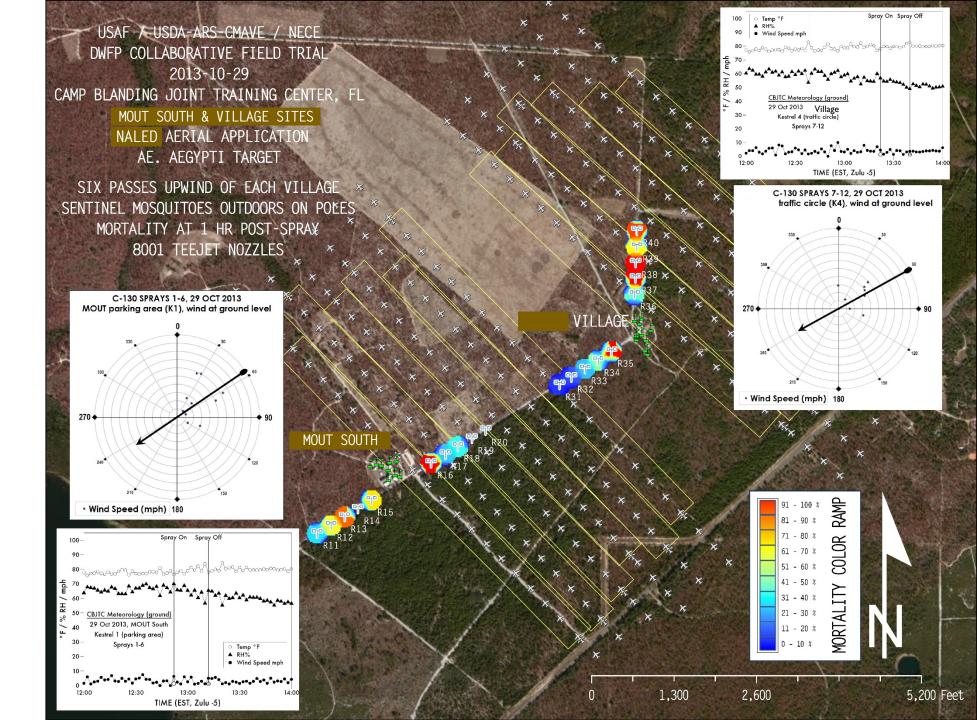
30 October 20138003 nozzlesVillage and nearby roadTransect.

Droplet density (uncorrected) on 1/8-in spinning rods mounted on **outdoor** FLB spinners, in droplets per mm², represented as a 'heat map' to approximate transitions among values at point measurement locations.

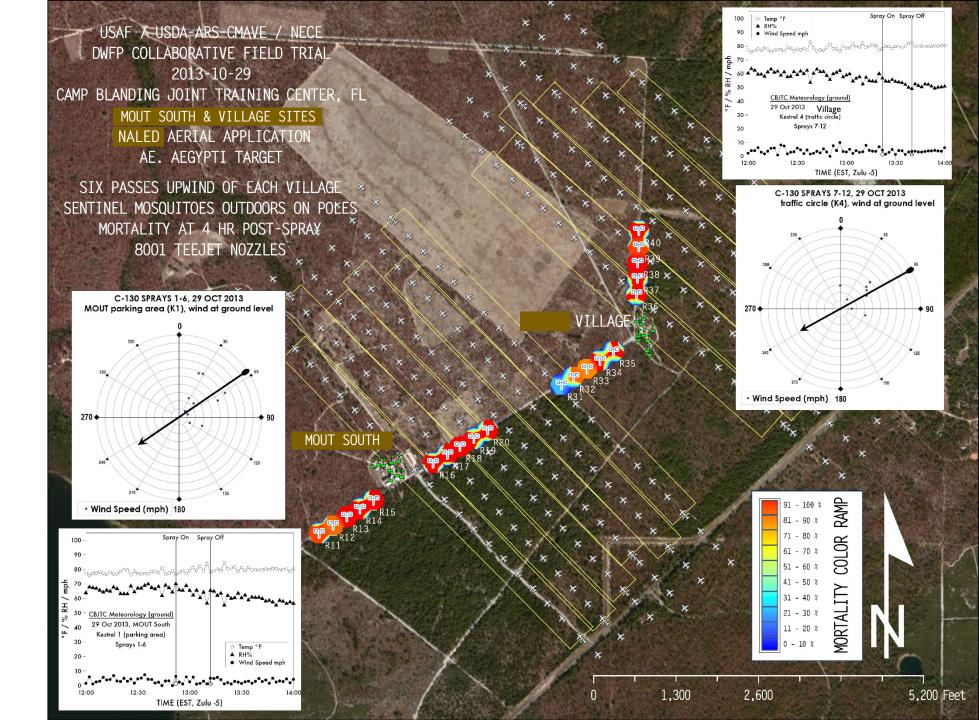


SET I S57–S59 Figs. Naled droplet densities, Transects 29 Oct.

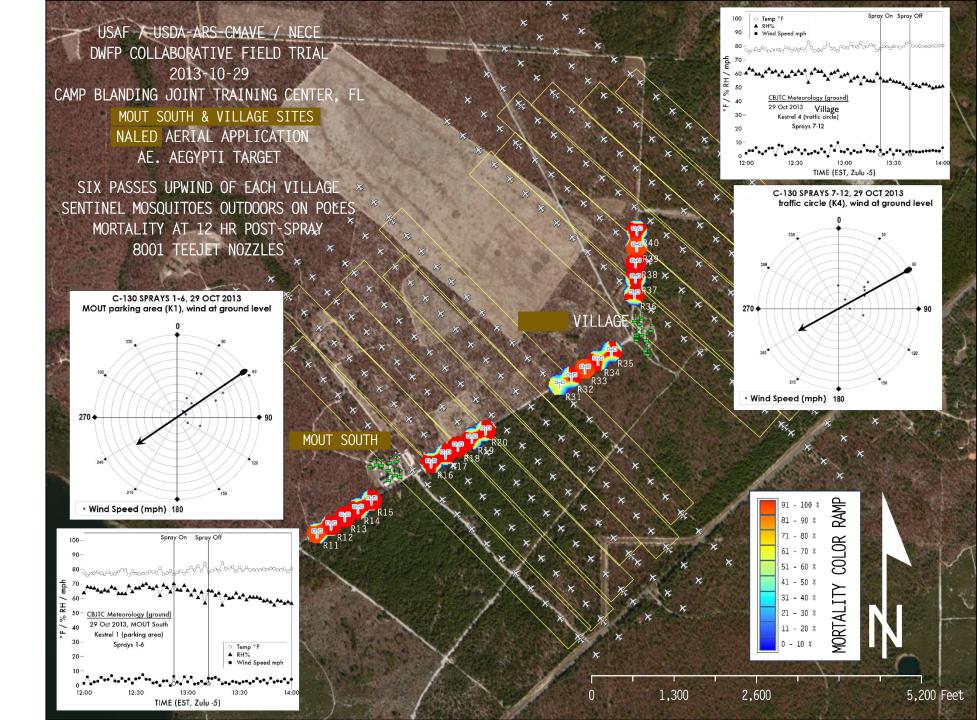
29 October 2013 8001 nozzles Road Transects I hr mortality



29 October 20138001 nozzlesRoad Transects4 hr mortality

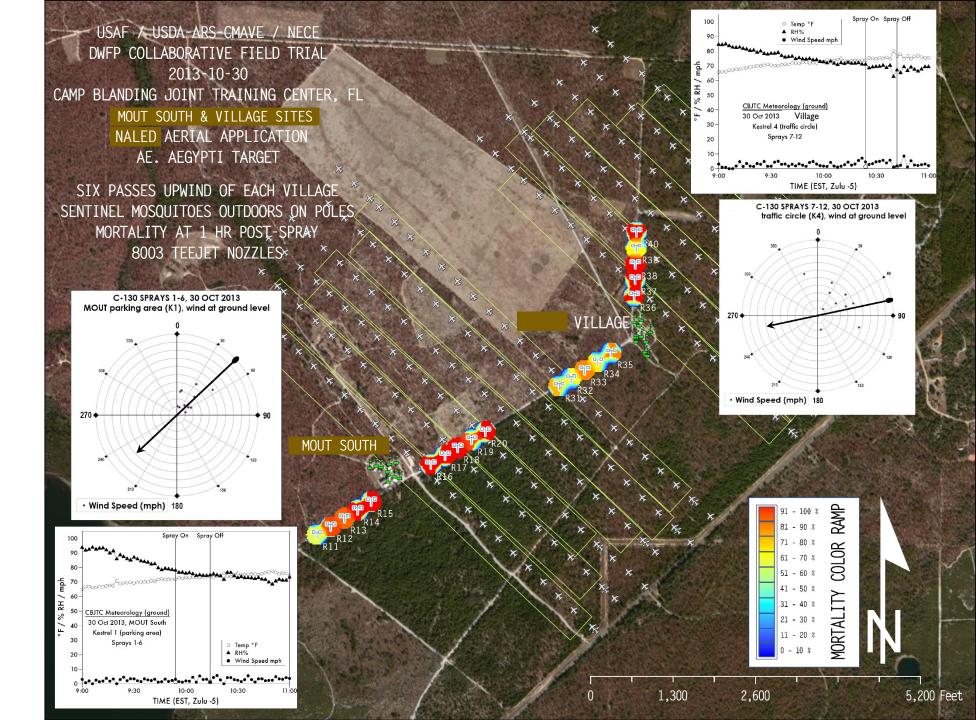


29 October 2013 8001 nozzles Road Transects 12 hr mortality

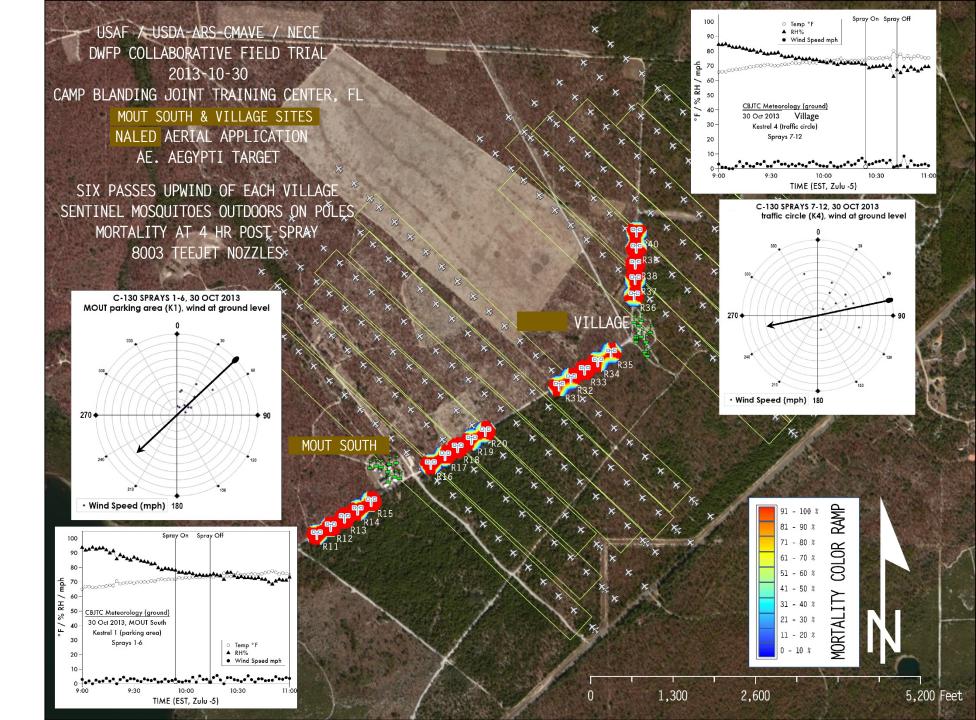


SET J S60–S62 Figs. Naled droplet densities, Transects 30 Oct.

30 October 2013 8003 nozzles Road Transects I hr mortality



30 October 20138003 nozzlesRoad Transects4 hr mortality



30 October 20138003 nozzlesRoad Transects12 hr mortality

