

# Enhanced Full Program Ground Mosquito Control Bid 2020



### Integrated Pest Management

We utilize the IPM Program which combines all methods of mosquito warfare for the best possible control.

### Survey

To evaluate potential mosquito breeding areas (i.e. areas where water will stand for over 5 days) using ground and aerial mapping.

### Monitoring

**Dipping:** To know where the mosquito larva are hatching and to see population and the stage of the larva.

**Bite counts and Light Traps:** To see amount and species of adults and effects of spraying.

**Weather Conditions:** Rain and temperature to anticipate hatch and correlate sprayings to optimize the control.



### Larvaciding

Larvaciding in stagnant water areas to control the mosquito in the larva stage will be performed during the program. In addition, trucks are equipped to larvacide while adulticiding.

### Adulticiding

**Contact Spraying:** to control the adult mosquitoes when they are active usually done at night.

**Residual Spraying:** is used to lay down a barrier that will kill adult mosquitoes that come into contact with it. This barrier is effective for seven to ten days.



### Contact Spraying Equipment

Multiple trucks : TUG and ULV sprayers

**TUG (Thermal ULV Generator):** 1 - 1.5 micron droplet size for better penetration into larger blocks and dense foliage areas. Smaller droplet size means greater quantity of droplets produced, creating a greater chance of mosquito contact.

**ULV (Ultra Low Volume) Sprayer:** 15-18 micron droplet used when weather conditions are not favorable for the TUG units.

**XUV (John Deere Gators )** (for use in remote areas R.R. tracks, low areas, wooded areas, etc.)



### Residual Spraying Equipment:

**P3CWR (City-Wide Residual spraying system)**

Deep penetration into foliage where mosquitoes will rest

Remote area coverage

Variable spray tips for a wide variety of spray coverage

**RAS (Residual Alley Sprayer)**

Used to spray habitat areas in alleys (shrubs, hedges, brush piles, etc)

Mounted on all ULV equipped trucks

**ORLAS (Off Road Large Area Sprayer)**

Used for large areas (parks, ball fields, etc)

Used prior to community events (holiday celebrations, appreciation days, carnivals, etc)



### Program Description:

The city will receive a combination of treatments from the Integrated Pest Management treatments through out the program season based on the NEPDES permit. Depending the weather and species of mosquitoes that we are encountering the treatments will be selected from the control methods to provide the city with the best results available.



City of: Denver

**Mosquito Control Of Iowa**  
402 Broad ST.  
Rolfe IA. 50581  
712-848-3295

Date: 1/23/20

Signed: Matt Wilcox

Price: \$ 6,400.00

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Accepted by: \_\_\_\_\_

Date: \_\_\_\_\_