

CITY OF LARAMIE, WYOMING  
REQUEST FOR QUALIFICATIONS  
2020-2022 AERIAL MOSQUITO CONTROL PESTICIDE APPLICATION SERVICE  
January 20, 2021

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**1.00 Introduction**

- A. The City of Laramie is seeking qualified contractors to provide aerial pesticide application services along with a schedule of applicable costs for a two- year period beginning May 1, 2021 and ending on December 31, 2022. This contract may be renewed up to two (2) times for one (1) year periods by agreement of both parties in writing subject to the required approvals. During each of the optional years, an increase of up to 3.5% in the fees is allowable.
  
- B. Prospective Contractors may make inquiries concerning this Request for Qualifications (RFQ) to the contacts below. All communication related to this RFQ shall be directed to the contacts listed below. The Contractor should understand that verbal comments may be subject to misinterpretation and are in no way binding on the Contractor or the City. If questions arise concerning any aspect of this RFQ, the Contractor should request clarification in writing. A copy of this request, as well as the written response shall be provided to all Contractors receiving requests for qualifications on the project.

**Project Manager**

Tyler Shevling, Mosquito Control Supervisor

City of Laramie	City of Laramie
1262 N 4th Street	P.O. Box C
Laramie, WY 82072	Laramie, WY 82073
(Physical address)	(Postal address)

Phone: 307-721-5258; E-mail: [tshevling@cityoflaramie.org](mailto:tshevling@cityoflaramie.org)

**Parks Manager**

Scott Hunter, Parks Manager

City of Laramie	City of Laramie
920 Boulder Drive	P. O. Box C
Laramie, WY 82070	Laramie, WY 82073
(Physical address)	(Postal address)

Telephone: (307)721-5257; Email: [SHunter@cityoflaramie.org](mailto:SHunter@cityoflaramie.org)

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**REQUEST FOR QUALIFICATIONS**

**1.02 LEGAL NOTICE**

The City of Laramie, Wyoming will accept qualifications for professional services to complete:

**2021-2022 Aerial Mosquito Control Pesticide Application Services**

The selected contractor will provide Aerial services to the City of Laramie Mosquito Control Department for the application of selected mosquito control chemicals over approximately 15,000 to 30,000 acres of rangeland.

Instructions to respondents, project scope, deliverables, a general description of the project and available background information are available at website [www.cityoflaramie.org/pandrprojects](http://www.cityoflaramie.org/pandrprojects). Copies of the Request for Qualifications may be obtained at the office of the Parks Manager, 455 North 15<sup>th</sup> St., Laramie WY 82070.

Written, sealed submittals must be returned to the City of Laramie, Parks & Recreation Dept., Attn: Scott Hunter, Manager, P.O. Box C, Laramie WY, 82073 (street address: 920 Boulder Dr., Laramie WY 82070) no later than 5:00 p.m. local time on Thursday, February 4<sup>th</sup>, 2021. Any inquiries regarding this RFQ should be directed to Tyler Shevling, Mosquito Control Crew Supervisor, City of Laramie, PO Box C, Laramie, Wyoming 82073, (307) 721-5258, [tshevling@cityoflaramie.org](mailto:tshevling@cityoflaramie.org).

The City reserves the right to waive any informality in any submittal and/or reject any and all submittals and to accept the submittal it feels is in the best interest of the City. The City reserves the right to award this project to the firm who best addresses the requirements outlined in the Request for Qualifications.

/s/ Janine Jordan, City Manager

Publication Dates: January 21, 2021, January 28, 2021

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**1.03 PROPOSED SCHEDULE TO AWARD CONTRACT**

RFQ Released	January 20, 2021
RFQ Pre Submittal Conference Call (optional)	February 01, 2021
RFQ Submission Deadline	February 04, 2021
Selection of Recommended Company	February 10, 2021
Award of Contract	February 16, 2021
Final Completion	December 31, 2022

An optional pre-submittal conference call will be held Monday, February 1<sup>st</sup>, 2021 at 10:00am. Contact Tyler Shevling, Mosquito Control Supervisor by 12:00 noon January 29<sup>th</sup> to register for the conference call [tshevling@cityoflaramie.org](mailto:tshevling@cityoflaramie.org) or 307-721-5258.

**1.04 SUBMITTAL FORMAT INFORMATION**

- A. The proposing firm shall submit three (3) copies of its Qualifications for the project to the Parks and Recreation Director at the postal address shown in Section 1.02. Qualifications may also be hand delivered to the Laramie City Hall, Attention: Scott Hunter, 920 Boulder Dr. Laramie, WY 82070. Each copy provided shall be three hole punched, loose leaf bound, with tab dividers with the firm name and the RFQ name (2021-2022 Aerial Mosquito Control Pesticide Application Services) on the cover.
- B. The submittal shall be limited to a maximum of twenty-five (25) pages (8-1/2" x 11") single sided, not smaller than 11 pt. type.
- C. The cover letter, table of contents, and tab pages do not count toward the page limit of 25.
- D. Project cut sheets, including photos, are included in the page limits, submittals exceeding the page limits may be considered non-responsive.
- E. One price proposal shall be submitted after selection of the Contractor in a separate sealed envelope or through electronic medium, outlining the scope of services as specified in the RFQ. Billing rates, reimbursable expenses and price schedule for each company/sub-contractor involved shall be included in detail.

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- F. A second price proposal may be submitted in a separate sealed envelope specifying any alternatives proposed. This shall be submitted in a similar format to the original price proposal.
- G. The following information should be on the outside of the submittal.
  - Name Firm
  - RFQ: 2021-2022 Aerial Mosquito Control Application Services
  - Due Date: 5 PM MST, February 04, 2021**
- H. Late submittals will not be accepted. It is the responsibility of the Proposer to ensure the submittal arrives to the Parks Manager prior to the date and time stated in the RFQ.
- I. The City is not liable for any cost incurred by companies in preparing or submitting a response to this RFQ.
- J. All materials submitted regarding this RFQ shall become the property of the City and will only be returned to the Participants at the City's option. Disqualification of a Proposer does not eliminate this right.
- K. The City reserves the right to modify or delete the project. Companies responding to this RFQ do so at their own risk and option.
- L. The City of Laramie reserves the right to reject any or all submittals, waive informalities and minor irregularities in the submittals received if deemed in the best interest of the City.
- M. To be considered for selection, the submittal must bear the signature of the owner or his/ her authorized representative.
- N. Submittals cannot be withdrawn for a period of ninety (90) days after the date of the submittal opening.
- O. After the successful Contractor is selected, the City will negotiate a professional services agreement, scope of services, and contract price based on, but not limited to the contents of the Contractor's submittal.

**1.05 GENERAL INFORMATION FOR SUBMITTAL**

- A. Insurance. The Contractor shall maintain the following insurance:

Request for Qualifications  
Aerial Mosquito Control

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1. Commercial Bodily Injury, Property Damage, along with Chemical Liability Insurance - Contractor shall maintain during the life of the Contract coverage such to protect Contractor from claims of damage which may arise from work under the Contract, whether such operations be by his/herself, or by anyone directly or indirectly employed by them. Contractor shall provide General Liability insurance with a minimum of \$1,000,000 per occurrence and \$2,000,000 general aggregate. Contractor shall provide Chemical Liability insurance with a minimum of \$300,000 per occurrence.

Certificates of insurance from the insurance provider or a letter stating the availability of coverage must be included within the submittal and are subject to review and approval by the City.

2. Workers Compensation or Employers Liability Insurance. Contractor shall provide proof of workers compensation coverage, for all its employees who are to work on the projects described in this Contract. Contractor's coverage shall be under the Wyoming Workers Safety and Compensation program, if statutorily required or such other workers compensation insurance as appropriate. Contractor's insurance shall include A Stop Gap coverage in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per employee for each accident and disease. Contractor shall also supply proof of workers' compensation and employer's liability insurance on each and every subcontractor before allowing that subcontractor on the job site.
  3. Business Automobile Liability. Contractor shall maintain, during the entire term of the contract, automobile liability insurance in an amount not less than five hundred thousand dollars (\$500,000.00) per occurrence.
- B. Preference is hereby given to materials, supplies, equipment, machinery and provisions produced, manufactured, supplied or grown in Wyoming, quality being equal to articles offered by competitors outside the State, as provided in W. S. §§ 16-6-101 through 16-6-119.
- C. The successful Contractor will be required to sign a professional service agreement with the City effective through December 31, 2022. The agreement will include this request for qualifications and the Contractors submittal.

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- D. Final selection of a Contractor and issuance of a work contract for any phase of work will require authorization by the Laramie City Council.
- E. It is the Contractor' sole responsibility to ensure that it's submittal is received by the City by the Submittal Due Date. Qualifications received after the Submittal Due Date may be rejected and returned to the Contractor unopened.

## **2.00 PROJECT INFORMATION**

### **2.01 Budget**

The City of Laramie has a Fiscal Year 2020 (ending June 30, 2020) remaining budget of \$101,000. The Projected Fiscal Year 2021 (ending June 30, 2021) budget is \$101,000 for Aerial Mosquito Spraying. Total budget under this contract is approximately \$202,000.

### **2.02 Project Background**

The City of Laramie mosquito control program is an Integrated Mosquito Management Program (IMM), as recommended by the Center for Disease Control (CDC) and The Environmental Protection Agency (EPA). It considers many various forms of control and uses the most environmentally friendly methods of control available that will achieve the desired control outcomes. IMM programs use pesticides to control larval and adult mosquito populations, but only after a systematic monitoring of pest populations indicate a need. Aerial applications are one component of the overall program. Historically, the City of Laramie has utilized between 1 and 5 larval control applications and between 1 and 3 adult control applications during the 10-year period between 2006 and 2016.

On November 1, 2011, City of Laramie was required to comply with WYPDES permitting for discharge of pesticides. This permit will be issued by the State of Wyoming, Department of Environmental Quality, Water Quality Division. The City has provided Notice of Intent (NOI) to apply pesticides under the General Permit for Major Pesticide Discharges and has been issued Permit Authorization # WY480007. The permit expires December 31, 2025. The selected Contractor will also be required to file for and receive coverage under their own permit. Compliance with WYPDES requirements for maintenance and calibration of equipment, reporting and record retention procedures shall in any case be required of the Contractor. Contractor shall also be required to provide required documentation to fulfill the City's permit obligations.

### **2.03 Project Objectives**

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The objective of this request for qualifications is to:

- A. Establish the qualifications of interested aerial pesticide application services.
- B. Determine the suitability of those qualifications as applied to the needs of the City of Laramie.
- C. Select an aerial pesticide application service to provide needed services under contract between May 1, 2021 and December 31, 2022.

**3.0 EVALUATION PROCESS AND SELECTION CRITERIA**

- A) The following criteria and weights shall be utilized as a guideline to evaluate the Qualifications. Individual criteria have been assigned varying weights.
  - a) Qualifications, Relevant Experience, Certifications
    - 1) Of the Contractor 20%
    - 2) Of assigned Pilots / Staff 20%
  - b) Suitability of the aircraft and spray equipment to the project 25%
  - c) Projected workload 10%
  - d) Pilot familiarity with flight conditions in the Laramie Valley. 10%
  - e) Safety. 15%
- B) A selection committee consisting of three members shall be established and will evaluate RFQ using the criteria outlined above.
- C) The final selection will be based on the City’s sole discretion and determination of the RFQ that best meets the needs of the City of Laramie. Only when a final selection is made will the selected fee proposal be requested.
- D) After the successful Contractor is selected, the City will negotiate a professional services agreement, scope of services, and contract price based on, but not limited to the contents of the Contractor’s submittal.
- E) All RFQ and materials will become the property of the City of Laramie. All costs incurred in the preparation of the Request for Qualification process shall be borne by the proposing Contractor.
- F) The City of Laramie reserves the right to waive any irregularities and information in the RFQ or fees, and to reject any and all RFQ at any time, or to re-advertise RFQ at any time prior to City Council approval of a professional services agreement.
- G) Specific on-site visits are not required for submittals but will be permitted as requested. Any questions or inquiries shall be answered as generically as possible, without preference to



any Contractor or representative. A list of all questions and responses shall be kept and available for inspection if requested in writing. All inquiries and questions should be referred to Tyler Shevling, Project Manager (307) 721-5258, fax (307) 721-5256

#### **4.0 SCOPE OF WORK**

##### **A. General Conditions**

1. **Safety:** Contractor to abide by all instructions on all the insecticide labels. Contractor to provide leak proof insecticide aircraft tank(s). The aircraft spraying system must be so constructed so that all insecticide can be drained from the system. If, by action or inaction of the Contractor (including employees, agent and subcontractors) or his/her equipment, excessive insecticide is dispensed or is lost through spillage, leaks, etc., the cost of said materials and clean-up will be deducted from the payment voucher. The Contractor will be responsible for all cost incurred for clean-up of materials. Clean up must conform to all Federal, State and local standards. The City will perform (or contract for) all cleanup and will submit a statement of cost to the Contractor, which the Contractor hereby agrees to pay.
2. **Guidance Systems:** Contractor is required to insure precise application of pesticides. Ground flagging is not allowed as a suitable method of guidance. Contractor must demonstrate, within their submittal to the City, their knowledge of the geographic areas scheduled to have pesticides applied and the ability to accurately dispense pesticides using GPS/GIS guidance systems. Mapping/imagery capability is required.
3. **Formulations:** Liquid Bti (*Bacillus thuringensis israelensis*) formulations will be determined by the Project Manager and mixed in an appropriate solution with or without water and will be applied at rates ranging from 16 to 30 oz per acre. Malathion, and Biomist will be applied at the ULV rate of 3 oz./acre. Dibrom will be applied at the ULV rate of ½ oz/acre. Individual applications will range from a minimum of 1,000 acres to a maximum of 17,000 acres. Granular products will be applied at rates determined by the Project Manager ranging from 3 to 10 pounds per acre. The City typically will schedule three to six individual applications between mid-May and the end of August, depending upon weather conditions and mosquito counts. The schedule of treatments, sizes, and location of these areas is to be determined by the City.
4. **Regulation:** All aerial applicators and aircraft are required to be registered with the Aeronautics Commission, State Office Building, Cheyenne, Wyoming. The

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Contractor's aircraft and pilot(s) must meet the minimum requirements of all city, county, state, and federal regulations pertaining to aircraft and/or pilots applying pesticides by air in congested areas and obtain all necessary permits, waivers and certificates covering such aerial applications. All aerial applicators must have the appropriate commercial pest control applicators license including Wyoming Class 911-O (Specific Pest Mosquito Control) and Wyoming Class 912 (Aerial Application)

5. All pesticides will be supplied by the City of Laramie.
6. The Contractor shall provide all personnel, equipment and supplies necessary for completion of these professional services.

B. Liquid Larval Control:

1. The aerial application of liquid Bti, *Bacillus thuringensis israelensis* for the control of mosquito larvae in rural areas. Bti will be applied at a rate of 16 to 30 oz./acre, to 6,000 or more acres with the individual applications ranging from 1,000 acres.
2. Contractor shall be responsible for loading and unloading the aircraft unless other arrangements are negotiated. The Contractor must provide suitable pump for the use of bulk loading and unloading the aircraft. Pesticide containers normally used include: 30-gallon non-returnable drums, 30 gallon returnable drums, 55 gallon non-returnable drums, 55 gallon returnable drums and/ or 260 gallon returnable totes.
3. Aircraft must be able to apply liquid formulations of Bti *Bacillus thuringensis israelensis*, and water at 16 to 30oz/ acre.
4. For application of liquid Bti solution, a Beecomist, Micronaire, or CP Aerial nozzle system must be used. Nozzles must produce droplet size within the range of 175 - 225 microns

C. Granular Larval Control

1. Contractor shall provide licensed pilot and aircraft with suitable equipment including granular aerial application manifold designed to efficiently and safely apply dry granular larval control products from the aircraft. Aerial application manifold shall dispense granules in a homogenous and consistent pattern to provide adequate coverage of mosquito habitat. The City reserves the right to require independent testing to insure proper coverage and application rate for product dispersed.

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2. Larval control product formulation will be determined by the Mosquito Control Supervisor and applied at rates ranging from 2.5 to 10 lbs. per acre, with individual applications ranging from 500 acres to 7,000 acres. Chemicals to be supplied by the City. Chemicals to be provided on site at Laramie Regional Airport.
3. Contractor shall be responsible for loading and unloading the aircraft unless other arrangements are negotiated. Pesticide packaging may include 40 – 50 lb. bags or 1,000 – 2,000 lb. bulk lift bags.

D. Rural Adult Control:

1. Aerial application of liquid ULV Malathion or ULV Dibrom for the control of adult mosquitoes in rural areas. Malathion will be applied by ULV rate of 3oz/acre to 10,000 or more acres, with individual applications ranging from 2,350 acres. Dibrom will be applied at the ULV rate of ½ oz/acre to 10,000 or more acres with individual applications ranging from 4,700 acres. City to determine insecticide choice.
2. Contractor shall be responsible for loading and unloading the aircraft unless other arrangements are negotiated. The Contractor must provide suitable pump for the use of bulk loading and unloading the aircraft. Pesticide containers normally used include: 30-gallon non-returnable drums, 30-gallon returnable drums, 55 gallon non-returnable drums, 55 gallon returnable drums and/ or 260 gallon returnable totes.
3. For application of Malathion: a Beecomist or Micronaire nozzle unit or system must be used. Nozzles must produce droplet size volume or mass median diameter produced is less than 50 microns and that 90% of the spray is contained in droplets smaller than 100 microns or (Current label instructions).
4. For application of Dibrom: a Beecomist or Micronaire nozzle unit or system must be used. Nozzles must produce droplets such that the volume median diameter (VMD) is less than 60 microns and that 90% of the spray is contained in droplets smaller than 115 microns or (Current label instructions).
5. The contractor is required to provide sealed corrosion resistant equipment for the transfer of Dibrom from chemical containers to the aircraft per label requirements.

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- E. Public Health Emergency Application (Urban)
1. The aerial application of liquid ULV Biomist for control of adult mosquitoes. Biomist 4+4 (or similar permethrin-based insecticide) to be applied at the ULV rate of 3-oz. / acre on an area of 11,000 acres within the City limits only in the event of a public health emergency.
  2. Contractor shall be responsible for loading and unloading the aircraft unless other arrangements are negotiated. The Contractor must provide suitable pump for the use of bulk loading and unloading the aircraft. Pesticide containers normally used include: 30-gallon non-returnable drums, 30-gallon returnable drums, 55 gallon non-returnable drums, 55 gallon returnable drums and/ or 260 gallon returnable totes.
  3. For application of Biomist 4+4 a Beecomist or Micronaire nozzle unit or system must be used. Nozzles must produce droplet size such that the volume median diameter produced is less than 70 microns and that 90% of the spray is contained in droplets smaller than 145 microns or (Current label instructions).
- F. Time is the essence of the Contract. The Contractor must be at the area and prepared to spray either the entire area or a part of the area on a maximum of **72 hours notice**. All aircraft, equipment and personnel requested must be assembled at or near Laramie Regional Airport (approximately three miles west of the City of Laramie), ready to begin treatment on the day set for reporting. Larval Aerial applications typically begin at 5:00 a.m. or daybreak, whichever occurs first. Adult Control applications generally begin at dusk. The Project Manager or designated representative of the City of Laramie will be responsible for determining suitability of weather conditions for applications of insecticides and reserves the prerogative of cancellation of scheduled applications. In any case, the periods of time for initiation and termination of flights on any given day will be determined by the Project Manager or designated representative of the City of Laramie. If it is determined by the City of Laramie, that the Contractor has not performed satisfactorily in any phase of the application, the Contractor may be required to re-treat a portion or all of the area considered inadequately treated at his own expense, without recourse. In the event that a re-spray is deemed necessary the Contractor is also responsible for furnishing the chemicals.
- G. Contractor shall supply thumbnail reports of pesticide application details for each spray block within 72 hours of completion. Electronic or digital reporting is acceptable and preferred. Report to include:
1. Name of Applicator
  2. The date and time of application
  3. Location of pesticide application with GPS map of spray block

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4. Total acreage treated
  5. The name of the pesticide applied; EPA REG. Number
  6. Total amount of pesticide applied; total amount of carrier
  7. Rate of Application
  8. Temperature, at no greater than one-hour intervals
  9. Wind direction, and Velocity at one-hour intervals
  10. Identification number of aircraft used for application
- H. Contractor shall supply complete reports to satisfy Annual Reporting Requirements under section 4.3.2 (Annual Reporting) of the WYPDES General Permit for Major Pesticide Discharges (PGP). Contractor to submit Annual reports to the City no later than October 30th, 2021 for fiscal year 2021-22 and October 30th, 2022 for fiscal year 2022-23. Any subsequent years added by options will be due also on October 30th of that calendar year. Reports to include:
1. Applicator's name, address, telephone number, and email address (if available);
  2. Contact person name, title, telephone number, and email address (if available) if different from number 1;
  3. Identification of all waters or other treatment areas, including size, either by name (owner name and address) or location, to which pesticides were discharged under any of the pesticide use patterns listed in Part 1, Section 1.1.1 that exceed thresholds;
  4. Total amount of each pesticide product applied for the reporting year by the EPA registration number(s) and by application method (e.g. aerially fixed wing);
  5. If applicable, copies of all adverse incident reports associated with these treatment areas;
  6. A description of any corrective action(s), including spill responses, resulting from pesticide application activities and the rationale for each action(s).

**5.0 DELIVERABLES**

- A. At a minimum, the Contractor will provide three (3) paper copies of the submittal, each copy three hole punched, with a maximum of twenty -five (25) pages, 11 pt. type or larger, of the following:
1. Letter of Interest
  2. A complete background history of the company/firm.
  3. Summary of related experience
  4. Three letters of reference within the last 12 months
  5. Proof of General Liability insurance with a minimum of \$1,000,000 per occurrence and \$2,000,000 general aggregate, or ability to secure insurance.
  6. Proof of Chemical Liability insurance with a minimum of \$300,000 per occurrence, or ability to secure insurance.

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7. Proof of Workers' Compensation and employer's liability insurance in the amount of not less than \$500,000 per employee per accident.
8. Proof of business automobile liability insurance in the amount not less than \$500,000 per occurrence.
9. Detailed proposal which should include the following elements:
  - a. The background qualifications and certifications of all the pilots and staff who will be responsible for the applications.
  - b. The current and projected workload of the company and of the technicians who will be responsible for the operations over the term of the contract ending December 31, 2022.
10. Fee Proposal provided in a **separate sealed envelope which will be requested after a contractor is selected by the City.**

**6.0 FEE PROPOSAL**

- A. Fee proposal shall be provided within a separate sealed envelope or by electronic medium. Proposals for the Qualifications must be on a cost per acre basis. The Contractor is asked to submit pricing on application parcels for separate: liquid Bti, Granular material, Dibrom, Malathion, and Biomist applications in the pricing format as shown.
- B. Selected Contractor will have 7 days to submit the fee proposal after notice of selection. Only the selected firm's fee proposal shall be solicited after selection. No other fee proposals will be requested unless the City and the selected contractor fail to reach agreement on pricing.

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The following five pages are sample forms for the submission of pricing. Contractors will be contacted to submit pricing after the selection process has been completed.

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1. **Mosquito Larviciding Services** - 6,000 or more acres to be sprayed by air for the control of mosquito larva, with individual applications ranging from 1,000 acres. Liquid Bti to be applied at a rate of 16 to 30oz/acre. Chemicals supplied by the City, cost to be on a per acre basis.

Application Cost Per Acre @ Application Rate				
Acres	16 Ounces	20 Ounces	24 Ounces	30 Ounces
1,000-2,000				
2,000-3,000				
3,000-4,000				
4,000-5,000				
5,000-6,000				
6,000-7,000				
7,000-8,000				
8,000-9,000				
9,000-10,000				
10,000 and up				

Aircraft Identification Number \_\_\_\_\_

Type of Aircraft \_\_\_\_\_

Engine Horsepower \_\_\_\_\_

Air Speed Range \_\_\_\_\_

Tank Capacity \_\_\_\_\_

Pump Type \_\_\_\_\_

Pump Capacity \_\_\_\_\_

Type Nozzle \_\_\_\_\_

Number of Nozzles \_\_\_\_\_

Operating Pressure \_\_\_\_\_

Droplet Range \_\_\_\_\_

Material per acre (output in ounces/acre) \_\_\_\_\_



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Effective Swath Width \_\_\_\_\_

**2. Mosquito Larviciding Services** – 1,000 or more acres to be treated by air for the control of mosquito larva, with individual applications ranging from 600 acres. Granular Larvicide to be applied at a rate of 3 to 10 lbs. per acre. Chemicals supplied by the City, cost to be on a per acre basis.

Application Cost Per Acre @ Application Rate				
Acres	3 lbs	5 lbs	8 lbs	10 lbs
600-1,000				
1,000-2,000				
3,000-4,000				
4,000-5,000				
5,000-6,000				
6,000-7,000				
7,000-8,000				
8,000-9,000				

Aircraft Identification Number \_\_\_\_\_

Type of Aircraft \_\_\_\_\_

Engine Horsepower \_\_\_\_\_

Air Speed Range \_\_\_\_\_

Tank Capacity \_\_\_\_\_

Pump Type \_\_\_\_\_

Pump Capacity \_\_\_\_\_

Type Nozzle \_\_\_\_\_

Number of Nozzles \_\_\_\_\_

Operating Pressure \_\_\_\_\_

Droplet Range \_\_\_\_\_

Material per acre (output in ounces/acre) \_\_\_\_\_

Effective Swath Width \_\_\_\_\_

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**3. Mosquito Adulticiding Services (RURAL)-** 10,000 or more acres to be sprayed by air for the control of adult mosquitoes in rural areas, with individual applications ranging from 2,350 acres. Malathion to be applied ultra-low volume at a rate of 3oz/acre. Chemicals to be supplied by the City, cost to be on a per acre basis.

**APPLICATION DIBROM ULV: APPLICATION RATE ½ oz./acre**

Acres	Cost Per Acre
2,345 – 4,690	_____
4,690 – 7,035	_____
7,035 – 9,380	_____
11,725- 14,070	_____
14,070 – 16,415	_____
16,415 and up	_____
Aircraft Identification Number _____	
Type of Aircraft _____	
Engine Horsepower _____	
Air Speed Range _____	
Tank Capacity _____	
Pump Type _____	
Pump Capacity _____	
Type Nozzle _____	
Number of Nozzles _____	
Operating Pressure _____	
Droplet Range _____	
Material per acre (output in ounces/acre) _____	
Effective Swath Width _____	

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**4. Mosquito Adulticiding Services (RURAL)** – 7,680 or more acres to be sprayed by air for the control of adult mosquitoes in rural areas, with individual applications ranging from 7,680 acres. Dibrom Concentrate to be applied at the ultra-low volume rate of ½ oz. per acre. Chemicals to be supplied by the City, cost to be on a per acre basis.

**APPLICATION DIBROM ULV: APPLICATION RATE ½ oz./acre**

Acres	Cost Per Acre
7,680-15,360	_____
15,360- and up	_____
Aircraft Identification Number	_____
Type of Aircraft	_____
Engine Horsepower	_____
Air Speed Range	_____
Tank Capacity	_____
Pump Type	_____
Pump Capacity	_____
Type Nozzle	_____
Number of Nozzles	_____
Operating Pressure	_____
Droplet Range	_____
Material per acre (output in ounces/acre)	_____
Effective Swath Width	_____

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**5. Mosquito Adulticiding Services (EMERGENCY)** - 11,000 or more acres to be sprayed by air for the control of adult mosquitoes in populated areas (Within the Laramie City Limits). Imperium (or similar permethrin-based insecticide) to be applied at ultra-low volume rate of .001lbs/acre (active ingredient). Chemicals to be supplied by the City, cost to be on a per acre basis. This application shall fall under 14 CFR- chapter I- part 137.51 and 14 CFR- chapter I- part 137. 53 rules for "Operation over congested areas", and the applicant must be able to fulfill all obligations pursuant to these rules. FAA pre-authorization of the congested area plan must be in place by June 15, 2015.

**APPLICATION IMPERIUM: APPLICATION RATE .001 lbs/acre (active Ingredient)**

Acres	Cost Per Acre
11,000- and up	_____
Aircraft Identification Number	_____
Type of Aircraft	_____
Engine Horsepower	_____
Air Speed Range	_____
Tank Capacity	_____
Pump Type	_____
Pump Capacity	_____
Type Nozzle	_____
Number of Nozzles	_____
Operating Pressure	_____
Droplet Range	_____
Material per acre (output in ounces/acre)	_____
Effective Swath Width	_____