

CITY OF LARAMIE
PARKS & RECREATION DEPARTMENT
P.O. Box C
Laramie, WY 82073

Parks Division: (307) 721-5264
Fax (307) 721-5256
Recreation Division: (307) 721-5269
Fax: (307) 721-5284
Facilities Mgmt Division: (307) 721-3585
TDD (307) 721-5295

**PARKS, TREE & RECREATION ADVISORY BOARD
AGENDA**

MEETING DATE: September 9, 2015 TIME: 6:30 PM

LOCATION: Recreation Center large conference room – 920 Boulder Drive

Consent Agenda:

1. To approve the minutes from the August 12, 2015 regular meeting of the Parks, Tree and Recreation Advisory Board. (Harrison, pages 2-5)
2. To acknowledge receipt of the August 2015 Recreation Center membership reports. (color inserts, pages 162-168)
3. To acknowledge receipt of the Recreation Center annual maintenance down week staff report. (Stevenson, page 6-7)
4. To acknowledge receipt of the Recreation Center and Ice & Event Center cost recovery analysis. (Guerin, pages 8-11)
5. To acknowledge receipt of the staff report on Freedom Has a Birthday 2015. (Guerin, pages 12-13)
6. To approve the Adopt A Trail Along the Greenbelt Park Agreement between the City of Laramie and the Kiwanis Builders Club for general cleanup of one-quarter mile section along the Laramie River Greenbelt. (Schott, pages 14-19)
7. To approve the Adopt A Trail Along the Greenbelt Park Agreement between the City of Laramie and the Kiwanis K Club for general cleanup of one-quarter mile section along the Laramie River Greenbelt. (Schott, pages 20-21)
8. To accept the donation of a bench, tree, and an ADA compliant concrete pathway and pad valued at \$4,240 from the friends of Dona Emery and the Advantage real Estate group to be constructed in Washington Park. (Schott, pages 22-25)

Motion by _____, seconded by _____, that the consent agenda be approved and that each specific action on the consent agenda be approved as indicated within the staff reports. (Items listed on the consent agenda are considered to be routine and will be enacted by one motion in the form listed above. There will be no separate discussion of these items unless a Board Member or citizen so requests, in which case the item will be removed from the consent agenda to the regular agenda.)

Regular Agenda:

1. Consideration of the proposal from the Laramie Main Street Alliance for a temporary public art display on the Historic Snow Train in Depot Park. (Schott, pages 26-27)
2. Consideration of Resolution 2015-AB14 designating October 10, 2015 as Community Service Day in Larmaie. (Schott, pages 28-32)
3. Consideration of Resolution 2015-AB16 supporting the submission of a proposal to host the 2017/18 Wyoming Senior Summer Olympic Games. (Guerin, pages 32-48)
4. Consideration of Resolution 2015-AB17 authorizing the co-sponsorship of the Friends of Community Recreation Zombie Run on October 19, 2015. (Guerin, pages 49-51)
5. Consideration of the Memorandum of Understanding between the City of Laramie and the Shock & Rage Youth Basketball program for the 2015 basketball season. (Guerin, pages 52-59)
6. Consideration of the concerns regarding the Mosquito Control program and pesticide use. (Schott, pages 60-141)

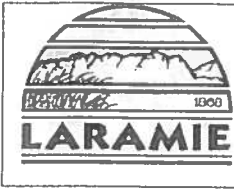
Staff Reports FYI

Parks Division staff report (pages 142-150)
Recreation Division staff report (pages 151-158)
Facilities Division staff report (page 159)
FY2015/16 Capital Project list (page 160-161)

New business: Public Comments

Next Regular Meeting Date: Wednesday, October 14, 2015 at 6:30pm

"A Place for All"



Agenda Item: Minutes

Title: Minutes of the August 12, 2015 Parks, Tree and Recreation Advisory Board Meeting

Recommended Council MOTION:

I move to acknowledge receipt of the minutes from the August 12, 2015 Parks, Tree and Recreation Advisory Board meeting and that the following items be approved as indicated:

1. To approve the Memorandum of Understanding between the City of Laramie and Laramie Youth Football for the use of the Little League Complex outfields for the 2015/16 football season.
2. To approve Amendment number one to the Memorandum of Understanding between the City of Laramie and Rolland Cycling to extend the term of the Original Agreement for an additional two years.
3. To approve the Adopt-A-Trail Along the Greenbelt Park Agreement between the City of Laramie and the Williams Family for general cleanup of one-quarter mile section long the Laramie River Greenbelt.
4. To acknowledge receipt of the letter from Kristy Isaak and the Laramie Girls Softball Program requesting additional softball fields.

Administrative or Policy Goal:

City Council Goal: Multi-Modal Public Access – Preserve park land, open space, and public trails for future generations

Comprehensive Plan: Chapter 4 Parks & Recreation

Department Objective: Provide quality parks and recreation opportunities for residents and visitors to the City; Develop infrastructure to enhance existing parks and recreation facilities and amenities for residents and visitors to the City.

Background:

Minutes from the August 12, 2015 Parks, Tree and Recreation Advisory Board meeting.

Legal/Statutory Authority:

N/A

BUDGET/FISCAL INFORMATION:

N/A

Responsible Staff:

Paul Harrison, Parks and Recreation Director at 721-5260.

Attachments:

Minutes from the August 12, 2015 Parks, Tree and Recreation Advisory Board meeting.

____ City Manager ____ City Attorney PA Parks & Recreation

**CITY OF LARAMIE
PARKS, TREE & RECREATION ADVISORY BOARD
August 12, 2015
Minutes of Meeting**

MEMBERS PRESENT: Chris Dixon, Dave Hammond, Phyllis Herdendorf, Jamie Le Jambre, Amy Williamson, Steve Ropp

MEMBERS NOT PRESENT: Marius Favret, Larry Foianini, Jacque Stonum

COUNCIL LIASON: Paul Weaver

GUESTS: Tom Doser, Joel Funk, Dick Flores, Suzanne Lewis, John Beggs, Christie Roberts

CITY OF LARAMIE STAFF PRESENT: Paul Harrison, Parks & Recreation Director; Jodi Guerin, Recreation Manager; David Schott, Parks Manager; Derek Teini, Senior Planner; Inez Wildenborg, Administrative Assistant; Meghan Critchley, Temporary Administrative Assistant

The regular meeting was called to order by Chair Pro Tem Dave Hammond at 6:33 pm.

Motion by Herdendorf, second by Ropp to move consent agenda item #3 to the regular agenda. Motion carried 6-0

Consent Agenda:

1. To approve the minutes from the July 7, 2015 regular meeting of the Parks, Tree and Recreation Advisory Board.
2. To acknowledge receipt of the July 2015 Recreation Center membership reports. (color inserts
3. To acknowledge receipt of the Spring 2015 Recreation Division revenue/expense report.
4. To approve the Memorandum of Understanding between the City of Laramie and Laramie Youth Football for the use of the Little League Complex outfields for the 2015/16 football season.
5. To approve Amendment number one to the Memorandum of Understanding between the City of Laramie and Rolland Cycling to extend the term of the Original Agreement for an additional two years.
6. To accept the donation of twenty one (21) trees to be planted on the north and south side of the detention pond located at 30th and Reynolds Street.
7. To approve the Adopt A Trail Along the Greenbelt Park Agreement between the City of Laramie and the Williams Family for general cleanup of one-quarter mile section long the Laramie River Greenbelt.

Motion by Herdendorf, second by Ropp, to move item #3 in the Consent Agenda to the Regular Agenda. Motion carried 6-0.

Regular Agenda:

1. **To acknowledge receipt of the letter from Kristy Isaak and the Laramie Girls Softball Program requesting additional softball fields.**

Harrison presented the brief background information on the request by the Laramie Girls Softball Program and introduced Tom Doser from the Girls Softball Program.

Tom Doser explained the need for improved and new softball fields due to the increased Laramie Girls Softball participation and to plan for program growth.

Harrison presented options for additional fields at LaBonte Park, renovation of Gold Field at the UW Little League Complex, Undine Park, and additional fields at Aragon Softball Complex.

Motion by Williamson, second by LeJambre, to recommend that staff continue to work on short term and long term goals for additional Softball fields. Motion carried 6-0.

2. Consideration of Resolution 2015-AB13 for the conceptual plan and construction cost estimates or the Undine Park Gazebo Project.

David Schott introduced presented the background information on the Undine Park Gazebo Project. Schott stated that the city had taken the lead on the project of the Gazebo from Friends of Undine Park. Schott introduced John Beggs Landscape Architect from Russell + Mills Design Studios and Christie Roberts, Engineer from Gertsch Baker Engineering.

Beggs presented three different design concept options (A,B,C) for consideration along with cost estimates for each concept design.

Schott opened floor for questions.

Motion by Williamson, second by Le Jambre, to approve Resolution 2015-AB13 recommending Conceptual Design Option A for the Undine Park Pavilion Gazebo Project along with requesting additional funding be allocated to the project, and adding additional Whereas within the Resolution noting that if additional funding is not procured for the project that Conceptual Design Option C be recommended, and finally forwarding the Resolution to Council for their consideration. Motion carried 6-0.

3. Consideration of Resolution 2015-AB14 recommended the approval and adoption of the Parks and Recreation Master Plan.

Public Comments: Peggy Trent, Albany County Attorney (Trent was permitted to provide public comments at the beginning of the meeting on this issue as she had another commitment at 7:00pm)

Peggy Trent, County Attorney, presented some background information on Wyoming statute concurrence process between the City and County. She respectfully requested that the Advisory Board remove all the text boxes on all maps referencing the extraterritorial areas within the 1 mile around the City as a gesture of good faith while the City and County officials work through the concurrence process. Trent noted that she wants to move forward with the plan together between the City and the County. She recognizes that the County had been asked to participate in the process at the beginning of the planning process when the Ad Hoc Advisory Committee was formed, but declined to participate. Trent recognizes that this might not be the best solution, but that it is a solution to move forward with adoption of the Parks and Recreation Master Plan.

Harrison opened the floor for public comments.

Suzanne Lewis encourages the adoption of the Master Plan. Lewis thanked the AD Hoc Advisory Board and staff who worked on and completed the Master Plan.

Motion by Williamson, second by Le Jambre, to approve Resolution 2015-AB14 for the adoption of the 2015 Parks and Recreation Master Plan and forward the recommendation to the City's Planning Commission and the City Council for adoption. Motion carried 6-0

Staff Reports FYI:

- Schott presented Parks Division Staff updates to the Board.
- Guerin presented the Recreation Division staff report to the Board.
- Harrison presented the FY2015/16 Capital Project List to the Board.

New Business:

- Harrison informed the Board that he has tendered his retirement letter to the City Manager and that he will be asking for representatives from the Advisory Board to volunteer to assist with the national search and recruitment for a new Parks and Recreation Director.

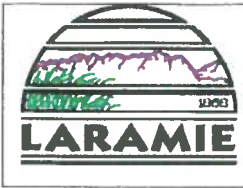
Public Comments:

Meeting adjourned at 8:43 pm.

Respectfully Submitted,

Inez Wildenborg
Administrative Assistant
Parks and Recreation, City of Laramie

PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 8, 2015



Agenda Item: Facilities

FYI Letter

Title: Laramie Community Recreation Center annual maintenance down week report

Recommended Board MOTION: Acknowledge receipt of the Laramie Community Recreation Center annual maintenance down week report and check list

Administrative or Policy Goal: N/A

Background:

The annual maintenance down week at the Recreation Center was recently completed. One of our priorities this year was repairing and replacing mechanical infrastructure components for all of our pools. Several butterfly valves were replaced, all of the bottom outlet grates were replaced, and the damaged ductwork in the 8-lane natatorium was repaired. The repairs we performed required the pools to be temporarily out of service. In addition to the mechanical infrastructure maintenance, both indoor pools were drained, power washed, subjected to necessary surface and drain repairs, and refilled. The Gym floor and the Studio A floors were lightly sanded and recoated with finish. The hallway outside of the Steam/Sauna rooms was finished with a non-slip epoxy coating. Windows were re-sealed and drywall repairs were completed throughout the building. The carpets were shampooed, and deep cleaning was performed throughout the building. The addition of a restroom, for SACC, was started this week as well, in order to limit the impact demolition would have caused for members. Various other annual tasks (see attached list) were all successfully completed during the week of 8/3/2014 – 8/9/2014.

Legal/Statutory Authority: N/A

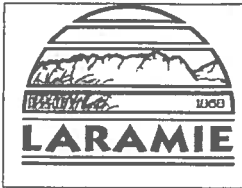
Responsible Staff:

Scott Stevenson, Facilities Maintenance Manager, 721-3585, sstevenson@cityoflaramie.org

Down Week Check List 2015

Tasks

Post signs to empty locker contents by 8/1/14
Deep clean the track area. (Ceiling to floor)
Move cardio equipment to center of track.
Drain the Leisure Pool
Drain the the 8-lane pool
Remove grooming stations in men's and women's locker rooms
Install new grooming stations in men's and women's locker rooms
Clean rust stains on slide tower components
Prep and paint rusted areas at the base of Indoor pool slide tower.
Power wash the leisure pool
Power wash colors play structure
Power wash the 8-lane pool
Power wash pool decks
Install new butterfly valve on colors return line
Install new basket strainer on colors pump inlet
Replace bad butterfly valves on sand filters
Family dry locker room door bottoms
Repaint Family locker rooms and passage
Deep Clean Family locker rooms
Repair diamondbright in leisure pool
Replace missing/broken tile around 8-lane pool
Repair drywall cracks in pool natatoriums
Reseal all clerestory windows above lobby and circuit area
Drywall repairs above circuit area
Repaint all drywall repair areas
Deep clean circuit area
Deep Clean cardio area-vents/poles/lights/etc.
Deep clean track area and upstairs restroom
Refill Leisure pool and 8-lane pool
Clean out all deck drains
Clean high windows in pool natatoriums
Grout tile at all repaired areas
Sand and paint all drywall repairs
Deep clean child care room
Deep clean front conference room and kitchen
Deep clean multi-purpose rooms and wax the floor
Deep clean storage rooms
Replace all damaged and corroded bathroom partition bases and any broken hardware
Deep clean pool decks
Deep clean stainless steel at pool areas including hose bibs
Deep clean all glass at pool areas
Clean diving board surface
Wax the slide tower surface
Deep clean slide tower stair treads
Deep clean all bleachers, aluminum and stadium
Deep Clean Laundry room
Remove old caulk and re-caulk all counter tops including locker rooms
Paint touch ups building complete
Sand and re-varnish lockroom benches as needed
Deep clean behind front desk counter and small conference
Carpet cleaning (Western Carpet Cleaning)
Move all cardio equipment back to cardio area
Clean and detail pump pit
Clean and disinfect all lockers
Deep clean Grand Hall
Replace all broken trench and deck drain covers in 8-lane
Any outstanding items from earlier in the week



Agenda Item: Recreation

Discussion Item

Title: Recreation Center and Ice & Event Center Cost Recovery Analysis

Recommended Board MOTION:

I MOVE to acknowledge receipt of the Recreation Center and Ice & Event Center Cost Recovery Analysis.

Administrative or Policy Goal:

4) The Board will review annually and provide recommendations on fees and policies for the Recreation Center and Ice and Event Center based on the operating pro-forma.

Background:

When the Recreation Center plans were being developed a financial pro-forma was also created to establish a cost recovery plan that could be appropriately paid for with a combination of user fees and general fund dollars. The analysis indicated that for the first few years the City could expect to recover approximately 75% of expenses and that after that time we should expect a declining recovery rate.

The City's annual analysis has been very encouraging with recovery rates only dropping below 75% one year in 2007. This year the cost recovery at the Recreation Center is at 80% which is the same as last year. This is slightly lower than previous years and appears to be due in large measure to decreased revenues. The largest decreases were in aquatics lessons, rentals and admissions. It is likely that a significant portion of these decreases were related to closures for the expansion construction.

Cost recovery at the Ice & Event Center was not originally contemplated since this cost center is entirely in the general fund. Recreation staff have established a goal for the I&E to reach a 70-75% cost recovery although our high point to date is from 2012 when we reached a 65% recovery rate, due largely to an increase in revenue over previous years. In 2015, revenue was somewhat higher, boosting our recovery rate from 47% to 58%. Staff have made a concerted effort to make efficient use of manpower enabling the facility to host more activities that can generate revenue.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION**REVENUE**

Source	Amount	Type
2015 Ice Revenue	\$ 186,153.00	
2015 LCRC Revenue	\$ 1,316,316.00	
Total	\$ 1,502,469.00	

EXPENSE

Proposed Project Cost.

2015 Ice Expense	\$ 321,785.00	
2015 LCRC Expense	\$ 1,658,372.00	
Total Amount	\$ 1,980,157.00	

Responsible Staff:Jodi Guerin, Recreation Manager, 721-5259, jguerin@cityoflaramie.org**Attachments:**

Cost Recovery Graphs

Laramie Community Recreation Center Financial History

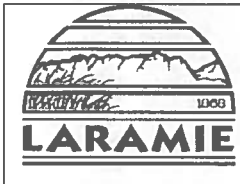


Revised 9/2/2015

Ice and Event Center Cost Recovery History



PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 9, 2015



Agenda Item: Recreation

Discussion Item

Title: Freedom Has a Birthday Report

Recommended Board MOTION:

NA

Administrative or Policy Goal:

4. The Board will review annually and provide recommendations on fees and policies for the Recreation Center and Ice and Event Center based on the operating pro-forma.

Background:

As part of regular activities, Parks and Recreation staff provide organizational and event support for the annual Freedom has a Birthday celebration. As you will see in the attached review, the 2015 event was well received by the community and staff are already working on the details of next year's event.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:

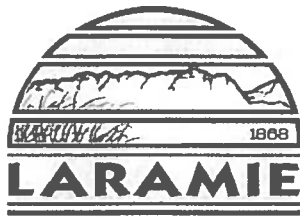
NA

Responsible Staff:

Jodi Guerin, Recreation Manager, 721-5259, jguerin@cityoflaramie.org

Attachments:

Report



CITY OF LARAMIE
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Date: September 1, 2015

Freedom Has a Birthday 2015

The 25th Annual Freedom Has a Birthday celebration was held on July 4, 2015, at Washington Park. Planning began in January with Recreation staff serving on the committee made up of volunteers representing various businesses and organizations within the Laramie community.

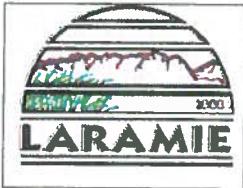
Cindy Stoffers, Recreation Program Coordinator, served as Chair; and as a former city liaison and Chair, Laura Tangeman, Recreation Program Coordinator, served to offer an historical perspective. During the actual event, Parks, Recreation, and Facilities provided FTE and provisional services and support.

Jacque Stonum, Cassidy Biggs, and Anna Fahey, with Cathedral Home for Children led the Sponsorship, Publicity, and Volunteer Coordination. Kim Dickinson, with Hospice of Laramie, provided bookkeeping services. Dave Rickard, D & L Music provided the line-up of performing artists, stages, and sound services. Bryon Lee, ACSD #1 Counselor, served to get a feel for what a political "stump" speech format might look like next year with it being an election year.

The event was once again a success with 75 activity booths and 18 food vendors registered. Old favorites were back with ice cream cones served by the Masons, watermelon served by Albany County Republicans, and face painting provided by Abundance Creative Arts Center. Some of the new highlights for this year included 200+ Rainbow Run participants using Washington Park as the starting point for their event and consequently "kicking off" the Freedom Has a Birthday celebration, horse-drawn carriage rides, and a very popular Cards for Troops booth. Participants were encouraged to bike to the park and Bike Net provided a secure Bike Corral.

Cindy Stoffers has agreed to Chair the committee for another year.

PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 9, 2015



Agenda Item: Parks

Agreement

Title: Renewal of an Adopt A Trail Along the Greenbelt Park Agreement with Laramie Kiwanis Builders Club.

Recommended Board MOTION:

I move that the Parks, Tree, and Recreation Advisory Board renew the Adopt A Trail Along the Greenbelt Park Agreement with Laramie Kiwanis Builders Club for general clean up of one-quarter mile section along the Laramie River Greenbelt in the amount of \$75.00 per year for a two year period, and request the City Manager to sign.

Administrative or Policy Goal:

2) The Board will encourage and support the development of open spaces, parklands, greenbelts, and setting aside land for future recreational use, and will annually review the Parks and Recreation Department's five year capital improvement plans.

10) The Board will review annually the condition and status of all City parks and support the enhancement of existing park amenities.

Background:

This Adopt A Trail Agreement with Laramie Kiwanis Builders Club is a renewal agreement for the Optimist Park north .5 - .75 section of the Laramie River Greenbelt Trail Park.

The agreement is for two years with a fee of \$75.00/year will be charged to Laramie Kiwanis Builders Club for trail signage. Laramie Kiwanis Builders Club is required to clean up the above referenced one-quarter mile section of the Laramie River Greenbelt Trail a minimum of twice per year.

The Laramie River Greenbelt Trail Park will benefit from Laramie Kiwanis Builders Club's contributions to maintaining a one-quarter mile section of the trail. This agreement may be terminated for cause if at any time Laramie Kiwanis Builders Club fails to perform in accordance with the terms of this agreement.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:

REVENUE

Source	Amount	Type
Fees/Charges for Service	\$150.00	\$75.00/year annual fee for signage.
Grant		
Loan		
Other		
Total	\$150.00	

Enc: Agreement, Exhibit A.

Responsible Staff: David Schott, Parks Manager, 721-5264, dschott@cityoflaramie.org

DB

**AGREEMENT WITH THE CITY OF LARAMIE, WYOMING TO
ADOPT A TRAIL ALONG GREENBELT PARK**

This Agreement is made and entered into this ____ day of July, 2015 by and between the City of Laramie, Wyoming, a Municipal Corporation, ("City") whose address is 406 Iverson Street, Laramie, Wyoming 82070 and Laramie Kiwanis K Club ("Group"), whose address is PO Box 1344, Laramie, WY 82073. In consideration of the promises herein mutually exchanged, and of the benefits to each party, the receipt and sufficiency of which are hereby acknowledged, the parties agree:

1. City agrees to allow Group to assist with maintenance of the trail along the Laramie River Greenbelt Park, located within City. Specifically, section 1.75 – 2.00 North.

2. City agrees to recognize Group as sponsoring the trail along the Laramie River Greenbelt Park with sign trail markers and at the Kiosk at the Optimist Park trailhead.

3. Group commits to support maintenance of section 1.75 – 2.00 North along the Laramie River Greenbelt Park.

4. Group agrees to obey all laws and regulations pertaining to the park, and relating to safety, and to obey all terms, conditions, and requirements of City from time to time as expressed by City Manager or City Manager's designee.

5. This agreement does not create an employer-employee or principal-agent relationship between City and Group or any member of Group or participant of Group.

6. Group and its individual members or participants agree to indemnify and hold harmless City, its officers, employees, and agents, from all liability, judgements, costs, expenses, and claims arising from any and all incidents occurring in connections with Group's activities while participating under this agreement whether for personal injury or property damage or both.

7. The parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Agreement shall not be construed so as to create such status. The rights, duties and obligations contained in this Agreement shall operate only between the parties to this Agreement, and shall inure solely to the benefit of the parties to this Agreement. The provisions of this Agreement are intended only to assist the parties in determining and performing their obligations under this Agreement. The parties to this Agreement intend and expressly agree that only parties signatory to this Agreement shall have any legal or equitable right to seek to enforce this Agreement, to seek any remedy arising out of a party's performance or failure to perform any term or conditions of this Agreement, or to bring an action for the breach of this Agreement.

8. This Agreement may be terminated, without cause, by City upon thirty (30) days written notice. This Agreement may be terminated immediately for cause if Group fails to perform in accordance with the terms of this Agreement.

9. Group agrees to the following conditions:

A. Group agrees to pay City the amount of \$75.00 dollars per quarter mile of maintenance sponsorship, each year, for a two (2) year period.

B. Group, as a sponsor of maintenance, is not directly contracted for maintenance services, nor will Group be directly involved in decisions related to maintenance of the trail.

C. Group will be responsible to clean up all trash and debris and sweep and maintain the trail surface a minimum of two (2) times per calendar year.

D. Groups' contributions will sponsor normal wear and tear maintenance. Group will not be held responsible for any extenuating situations or extra maintenance.

10. City has provided Group a copy of the general conditions for adopt a park/greenbelt agreements, which is marked Exhibit A and attached hereto and incorporated as part of this Agreement.

11. The term of this Agreement is from the date hereof until the 31st day of August, 2017, subject to termination in Paragraph 8 herein.

12. This Agreement is not exclusive as to the park it affects. City may permit other groups to have projects within the same park at the same time.

13. City does not waive sovereign immunity by entering into this Contract and specifically retain immunity and all defenses available to them as sovereigns pursuant to Wyo. Stat. § 1-39-104(a) and all other state law.

In witness whereof, the parties have read and understood it, and that they agree to be bound by the terms of the Agreement, that they have the authority to sign it. The effective date of this Agreement is the date and year first written above.

CITY OF LARAMIE, WYOMING

GROUP:

LARAMIE KIWANIS K CLUB

By: _____
Janine Jordan, City Manager

By: 
Authorized Signature

**AGREEMENT WITH THE CITY OF LARAMIE, WYOMING TO
ADOPT A TRAIL ALONG GREENBELT PARK**

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1. City agrees to allow Group to assist with maintenance of the trail along the Laramie River Greenbelt Park, located within City. Specifically, section 0.50 – 0.75 North.

2. City agrees to recognize Group as sponsoring the trail along the Laramie River Greenbelt Park with sign trail markers and at the Kiosk at the Optimist Park trailhead.

3. Group commits to support maintenance of section 0.50 – 0.75 North along the Laramie River Greenbelt Park.

4. Group agrees to obey all laws and regulations pertaining to the park, and relating to safety, and to obey all terms, conditions, and requirements of City from time to time as expressed by City Manager or City Manager's designee.

5. This agreement does not create an employer-employee or principal-agent relationship between City and Group or any member of Group or participant of Group.

6. Group and its individual members or participants agree to indemnify and hold harmless City, its officers, employees, and agents, from all liability, judgements, costs, expenses, and claims arising from any and all incidents occurring in connections with Group's activities while participating under this agreement whether for personal injury or property damage or both.

7. The parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Agreement shall not be construed so as to create such status. The rights, duties and obligations contained in this Agreement shall operate only between the parties to this Agreement, and shall inure solely to the benefit of the parties to this Agreement. The provisions of this Agreement are intended only to assist the parties in determining and performing their obligations under this Agreement. The parties to this Agreement intend and expressly agree that only parties signatory to this Agreement shall have any legal or equitable right to seek to enforce this Agreement, to seek any remedy arising out of a party's performance or failure to perform any term or conditions of this Agreement, or to bring an action for the breach of this Agreement.

8. This Agreement may be terminated, without cause, by City upon thirty (30) days written notice. This Agreement may be terminated immediately for cause if Group fails to perform in accordance with the terms of this Agreement.

9. Group agrees to the following conditions:

A. Group agrees to pay City the amount of \$75.00 dollars per quarter mile of maintenance sponsorship, each year, for a two (2) year period.

B. Group, as a sponsor of maintenance, is not directly contracted for maintenance services, nor will Group be directly involved in decisions related to maintenance of the trail.

C. Group will be responsible to clean up all trash and debris and sweep and maintain the trail surface a minimum of two (2) times per calendar year.

D. Groups' contributions will sponsor normal wear and tear maintenance. Group will not be held responsible for any extenuating situations or extra maintenance.

10. City has provided Group a copy of the general conditions for adopt a park/greenbelt agreements, which is marked Exhibit A and attached hereto and incorporated as part of this Agreement.

11. The term of this Agreement is from the date hereof until the 31st day of August, 2017, subject to termination in Paragraph 8 herein.

12. This Agreement is not exclusive as to the park it affects. City may permit other groups to have projects within the same park at the same time.

13. City does not waive sovereign immunity by entering into this Contract and specifically retain immunity and all defenses available to them as sovereigns pursuant to Wyo. Stat. § 1-39-104(a) and all other state law.

In witness whereof, the parties have read and understood it, and that they agree to be bound by the terms of the Agreement, that they have the authority to sign it. The effective date of this Agreement is the date and year first written above.

CITY OF LARAMIE, WYOMING

GROUP:

LARAMIE KIWANIS BUILDERS CLUB

By: _____
Janine Jordan, City Manager

By: 
Authorized Signature

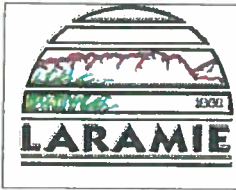
EXHIBIT A
CITY OF LARAMIE, WYOMING
GENERAL CONDITIONS – ADOPT A TRAIL ALONG GREENBELT PARK

All work shall be accomplished in a workmanlike manner at the time when it is appropriate that the work be done. Work which produces noise shall be done between 8:00 a.m. and 7:00 p.m.

- A. Group shall furnish all tools for its project. Each person who participates in a Group project is responsible to furnish appropriate personal equipment and clothing, for example gloves, sturdy footwear, hat sunglasses.
- B. If Group furnishes participants in its project who are 17 years of age or less, Group shall furnish adult supervision of those participants at all times, with at least one adult for each five minors. The adult in charge is responsible for the safety of the minors.
- C. Group shall not subcontract or assign its duties or responsibilities to any person or entity without the advance consent of City.
- D. Group's projects and work shall be conducted without cost to City.
- E. Group shall select one person to serve as contact with City. City is entitled to deal with that person as representative of Group for all purposes under this Agreement.
- F. Members of Group shall not attempt to remove, dispose of, or handle any hazardous materials in the park, such as broken glass, needles, syringes, heavy objects, unknown liquids or solids, explosives, and animal carcasses. Group agrees to instruct each person who works in the park under its sponsorship that City should be notified each time hazardous materials are found. If any member of Group finds any hazardous materials while participating in a Group project in the park, Group shall at once notify City.
- G. The plans and specifications for each Group project and the materials to be used and labor to be furnished must have been approved in advance by City Manager or the Manager's designee before the project begins. This paragraph does not apply to projects of routine maintenance.
- H. Group understands that City may use insecticides and herbicides within the park, and agrees to have its members take suitable precautions when those substances are present. Group may call the Parks Department during business hours for information about what spraying City has done.
- I. If Group's work includes plantings, Group shall work with City to determine responsibility for watering.

AGREEMENT WITH THE CITY OF LARAMIE, WYOMING TO
ADOPT A GREENBELT

PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 9, 2015



Agenda Item: Parks

Agreement

Title: Renewal of an Adopt A Trail Along the Greenbelt Park Agreement with Laramie Kiwanis K Club.

Recommended Board MOTION:

I move that the Parks, Tree, and Recreation Advisory Board renew the Adopt A Trail Along the Greenbelt Park Agreement with Laramie Kiwanis K Club for general clean up of one-quarter mile section along the Laramie River Greenbelt in the amount of \$75.00 per year for a two year period, and request the City Manager to sign.

Administrative or Policy Goal:

2) The Board will encourage and support the development of open spaces, parklands, greenbelts, and setting aside land for future recreational use, and will annually review the Parks and Recreation Department's five year capital improvement plans.

10) The Board will review annually the condition and status of all City parks and support the enhancement of existing park amenities.

Background:

This Adopt A Trail Agreement with Laramie Kiwanis K Club is a renewal agreement for the Optimist Park north 1.75 - 2.0 section of the Laramie River Greenbelt Trail Park.

The agreement is for two years with a fee of \$75.00/year will be charged to Laramie Kiwanis K Club for trail signage. Laramie Kiwanis K Club is required to clean up the above referenced one-quarter mile section of the Laramie River Greenbelt Trail a minimum of twice per year.

The Laramie River Greenbelt Trail Park will benefit from Laramie Kiwanis K Club's contributions to maintaining a one-quarter mile section of the trail. This agreement may be terminated for cause if at any time Laramie Kiwanis K Club fails to perform in accordance with the terms of this agreement.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:

REVENUE

Source	Amount	Type
Fees/Charges for Service	\$150.00	\$75.00/year annual fee for signage.
Grant		
Loan		
Other		
Total	\$150.00	

Enc: Agreement, Exhibit A.

Responsible Staff: David Schott, Parks Manager, 721-5264, dschott@cityoflaramie.org

DS

EXHIBIT A
CITY OF LARAMIE, WYOMING
GENERAL CONDITIONS – ADOPT A TRAIL ALONG GREENBELT PARK

All work shall be accomplished in a workmanlike manner at the time when it is appropriate that the work be done. Work which produces noise shall be done between 8:00 a.m. and 7:00 p.m.

- A. Group shall furnish all tools for its project. Each person who participates in a Group project is responsible to furnish appropriate personal equipment and clothing, for example gloves, sturdy footwear, hat sunglasses.
- B. If Group furnishes participants in its project who are 17 years of age or less, Group shall furnish adult supervision of those participants at all times, with at least one adult for each five minors. The adult in charge is responsible for the safety of the minors.
- C. Group shall not subcontract or assign its duties or responsibilities to any person or entity without the advance consent of City.
- D. Group's projects and work shall be conducted without cost to City.
- E. Group shall select one person to serve as contact with City. City is entitled to deal with that person as representative of Group for all purposes under this Agreement.
- F. Members of Group shall not attempt to remove, dispose of, or handle any hazardous materials in the park, such as broken glass, needles, syringes, heavy objects, unknown liquids or solids, explosives, and animal carcasses. Group agrees to instruct each person who works in the park under its sponsorship that City should be notified each time hazardous materials are found. If any member of Group finds any hazardous materials while participating in a Group project in the park, Group shall at once notify City.
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- H. Group understands that City may use insecticides and herbicides within the park, and agrees to have its members take suitable precautions when those substances are present. Group may call the Parks Department during business hours for information about what spraying City has done.
- I. If Group's work includes plantings, Group shall work with City to determine responsibility for watering.

AGREEMENT WITH THE CITY OF LARAMIE, WYOMING TO
ADOPT A GREENBELT

PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 9, 2015



Agenda Item: Parks

Discussion Item

Title: Donna Emery Memorial Bench and Tree

Recommended Board MOTION: I move that the Parks, Tree, and Recreation Advisory Board accept the donation of a bench, a tree and an ADA compliant concrete pathway and pad valued at \$4,240 from the friends of Donna Emery and the Advantage Real Estate group to be constructed in Washington Park and forward onto Council for their consideration.

Administrative or Policy Goal:

The Board will review annually the condition and status of all City parks and support the enhancement of existing park amenities.

Background: The City of Laramie was approached to request a bench and tree in memory of Donna Emery in Washington Park. She was a very special person, widely admired, and was an active participant in the Laramie Community. Along with the bench and tree donation, an ADA compliant concrete pathway and pad will be constructed with the donation. The bench will be situated next to “Eric’s Tree” just west of the basketball courts at Washington Park. Ms. Emery lost her only child in an accident in 1987 and sponsored a tree in his memory. The intent of the memorial bench and tree is to provide both a lasting tribute to this vibrant women and peaceful place for people to pause and enjoy the great park next to the memorial tree planted in memory of her child.

Ms. Emery was a successful business owner and employer who assisted people in buying and selling homes. She was elected Realtor of the Year twice by her colleges and was the past president of the Laramie Board of Realtors. She was also active in organizations such as Kiwanis, Zonta, Rotary and many others. She gave endlessly and generously of her time and money in such endeavors as Bell Ringing, Stars of Tomorrow, and Peanut Day. Her honors included being awarded a Robert Southerland award by Kiwanis. She was also an active mentor to single parents to succeed in the job market, as well as, active in the Coat Drive and raising cancer awareness in Laramie.

The City of Laramie will install the bench, concrete pathway and pad, and tree. The City will maintain in perpetuity along with purchasing the plaque under LMC 12.44.020. The estimated value of the plaque is \$200.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:

REVENUE

Source	Amount	Type
Fees/Charges for Service	\$250.00	Tree Donation
Fees/Charges for Service	\$2,250.00	Concrete Work for ADA
Fees/Charges for Service	\$1,740.00	8' DuMor Bench 57
Other		
Total	\$4,240.00	

EXPENSE

Proposed Project Cost.

Project	Amount	Funds
Project Cost	\$250.00	Purchase of Trees
Project Cost	\$2,250.00	Purchase of concrete for ADA
Project Cost	\$1,740.00	Purchase of a 8' DuMor Bench 57
Project Cost	\$200.00	Estimated Cost of the Plaque
Total Amount	\$4,440.00	

Responsible Staff:

David Schott, Parks Manager, 721-5264, dschott@cityoflaramie.org

DS

Attachments: Friends of Donna Emery Donation Letter
Map of Location

Date: August 26, 2015

To: David Schott, City of Laramie Parks Manager

From: Friends of Donna Emery and the Advantage Real Estate group

We are requesting that a bench and tree be installed in memory of Donna Emery in Washington Park. Donna was a very special person, widely admired, and was an active participant in the Laramie community.

Among her contributions to Laramie, she was:

- 1) A successful business owner and employer who assisted people in buying and selling homes. She was elected Realtor of the Year twice by her colleagues and was past president of the Laramie Board of Realtors.
- 2) Active in organizations such as Kiwanis, Zonta, Rotary and many others. She gave endlessly and generously of her time and money in such endeavors as Bell Ringing, Stars of Tomorrow, Peanut Day. Honors included being awarded a Robert Southerland award by Kiwanis.
- 3) An active mentor to small start-up businesses and supporter of programs such as Climb Wyoming, which trains struggling single parents to succeed in the job market. Donna also provided employment for some of the program's graduates.
- 4) Active in special seasonal efforts such as collecting coats and other cold weather gear for local residents (Coat Drive), which benefited hundreds of Laramie residents.
- 5) Active in raising cancer awareness efforts in Laramie including advertising, fund raising, and participation in various events as a cancer survivor.

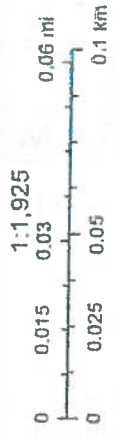
The bench will be situated next to "Eric's tree". Donna lost her only child in an accident in 1987 and sponsored a tree in his memory. We look forward to the City's help in combining Eric's tree with Donna's nearby bench and tree to provide both a lasting tribute to this vibrant woman and a peaceful place for people to pause and enjoy the lovely park.

Donna Emery Memorial Bench and Tree 7-22-15

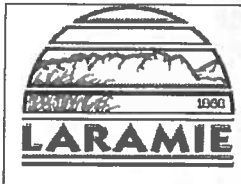


July 22, 2015

Street Names



PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 9, 2015



Agenda Item: Parks

Discussion Item

Title: Public Artwork and Pollinator Garden at Depot Park

Recommended Board MOTION:

Discussion Item

Administrative or Policy Goal:

The Board will review annually the condition and status of all City parks and support the enhancement of existing park amenities.

Background: The University of Wyoming Art Museum and the Laramie Main Street Alliance have requested to present a conceptual plan for temporary art work in south Depot Park along with a pollinator garden. The Art Museum is organizing a major exhibition by American artist and biologist Brandon Ballengee. For almost 20 years, Brandon Ballengee has merged his scientific research with ecological art in trans-disciplinary works that bridge art and science and engage the environment stewardship.

This request to conceptually approve the idea for a south Depot Park temporary artwork and pollinator garden in the summer of 2016 in accordance to the Laramie Public Art Plan and direct staff to pursue the project.

Legal/Statutory Authority: N/A

Responsible Staff:

David Schott, Parks Manager, 721-5264, dschott@cityoflaramie.org

Attachments: Letter of Request, University of Wyoming Art Museum and Laramie Main Street Alliance.



Art Museum

Dept. 3807, 1000 E. University Ave., Laramie, WY 82071

307.766.6622 • 307.766.3520 fax

uwartmus@uwyo.edu • www.uwyo.edu/artmuseum • #uwartmuseum



August 31, 2015

Laramie Parks & Rec Board of Directors
Laramie Recreation Center
Laramie, WY

Dear Members of the Board of Directors:

The University of Wyoming Art Museum and Laramie Main Street Alliance request to be added to your forthcoming agenda for the Sept. 9 board meeting. We would like to present a concept for a temporary work of art in south Depot Park.

The Art Museum is organizing a major exhibition by American artist and biologist Brandon Ballengee. A number of related community and academic programs are in discussion to coincide with the exhibition throughout the summer and fall of 2016.

Background

For almost 20 years, Brandon Ballengée (American, b. 1974) has merged his scientific research with ecological art in trans-disciplinary works that bridge art and science and engage in environment stewardship. Ballengee's works are inspired by direct experience with "amphibians, birds, fish and insect species found in today's preternatural ecosystems and those observed in post-natural laboratory settings." He works in diverse media, including biological materials, large-scale scanner photographs, outdoor light displays and participatory trans-species happenings.

Agenda request

Our request is to present an idea for south Depot Park that would become the site for a temporary public artwork and pollinator garden during the summer 2016. It would be done in accordance with the new Laramie Public Art Plan, schedule to be approved by Laramie City Council on Sept. 1, 2015.

We appreciate your consideration and look forward to discussing this proposal with you.

Best,

Susan Moldenhauer
Director & Chief Curator

Trey Sherwood, Laramie Main Street Alliance
307-760-3355 or downtownlaramie@gmail.com

PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 9, 2015



Agenda Item: Parks

Resolution

Title: A Resolution in support for the 2015 Community Service Day in Laramie.

Recommended Board MOTION:

I move that the Parks, Tree and Recreation Advisory Board approve Resolution 2015-AB/4 designating October 10, 2015 as Community Service Day in Laramie and forward on to Council for their consideration.

Administrative or Policy Goal:

The Board will encourage and support the development of open spaces, parklands, greenbelts, trails, and setting aside land for future recreational use, and will annually review the Parks and Recreation Department's six-year capital improvement plans.

The Board will encourage and support continuing grants for Parks and Recreation programs and operations.

The Board will support continuing the Tree City USA designation.

The Board will review annually the condition and status of all City parks and support the enhancement of existing park amenities.

Background: The Laramie Economic Development Corporation created a Beautification Committee to encourage, promote and enhance the visual aesthetics of the Laramie community. Over the previous fourteen years the Laramie Beautification Committee has assisted with cleanup and beautification projects in and around Laramie including; recently, Harney Street and 15th Street. The Laramie Beautification Committee and the Community Service Day Committee have worked together to improve and beautify Laramie. Again this year, the University of Wyoming has joined forces with the Laramie Beautification Committee and is encouraging students, faculty and staff to participate in Community Service Day. To this end, Community Service Day will align with the University's Big Event.

On Saturday, October 10th at the historic Laramie Territorial Prison at 7:30 am the Community Service Day Committee will serve all volunteers a full hot breakfast followed at 8:30am to approximately noon with the planting of nineteen (19) trees, thirty-four (34) shrubs, and thirty (30) perennials for a total of eighty-three (83) plantings along the north and south side of Snowy Range Road between I-80 and Garfield St.

The Laramie Beautification Committee and the Laramie Community Service Day Committee encourages families, individuals, neighbors and friends to come out and work together for a morning to improve and beautify our community.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:

REVENUE

Source	Amount	Type
Contribution	\$10,000.00	Laramie Beautification Committee Contribution
Contribution	\$10,000.00	University of Wyoming Contribution
Loan		
Other		
Total	\$20,000.00	

EXPENSE

Proposed Project Cost.

Project	Amount	Funds
Project Cost	\$20,000.00	City of Laramie General Fund
Project Cost	\$10,000.00	Laramie Beautification Committee Contribution
Project Cost	\$10,000.00	University of Wyoming Contribution
Total Amount	\$40,000.00	

Responsible Staff:

David Schott, Parks Manager, 721-5264, dschott@cityoflaramie.org

Attachment A: Resolution 2015-AB _____

Exhibit A: Map of Project Area

RESOLUTION 2015-AB-14

A RESOLUTION IN SUPPORT OF THE 2015 COMMUNITY SERVICE DAY IN LARAMIE.

WHEREAS, the Laramie Economic Development Corporation created a Beautification Committee to encourage, promote and enhance the visual aesthetics of the Laramie community and,

WHEREAS, for the previous fourteen years the Laramie Beautification Committee has assisted with cleanup and beautification projects in and around Laramie and,

WHEREAS, the Laramie Church of Jesus Christ of Latter-Day Saints have organized and participated in a Community Service Day in Laramie for many years and,

WHEREAS, the Laramie Beautification Committee and the Community Service Day Committee have worked together to improve and beautify Laramie and,

WHEREAS, in previous Community Service Days over 200 community volunteers each year have beautified the entrances to Laramie and,

WHEREAS, over the past three years the University of Wyoming has joined forces with the Laramie Beautification Committee and is encouraging students, faculty and staff to participate in Community Service Day and,

WHEREAS, on Saturday, October 10th at the Wyoming Territorial Prison at 7:30am the Community Service Day Committee will serve all volunteers a full hot breakfast and,

WHEREAS, on Saturday October 10th from 8:30am to 12:00pm nineteen (19) trees, thirty-four (34) shrubs, and thirty (30) perennials for a total of eighty-three (83) plantings will be planted along the north and south side of Snowy Range Road between I-80 and Garfield St. and,

WHEREAS, in 2015 Community Service Day will be held in conjunction with the University of Wyoming's Big Event and,

WHEREAS, the Laramie Beautification Committee encourages families, individuals, neighbors and friends to come out and work together for a morning to improve and beautify our community.

NOW THEREFORE THE PARKS, TREE AND RECREATION ADVISORY BOARD OF LARAMIE, WYOMING, RESOLVES:

SECTION 1: That the foregoing recitals are incorporated in and made part of this resolution by reference.

SECTION 2: That the Parks, Tree and Recreation Advisory Board does hereby designate October 10, 2015 as Laramie Community Service Day and encourage all Laramie citizens to enhance and beautify our community.

PASSED AND APPROVED on this 9th day of September, 2015.

BY: _____
Jacque Stonum, Advisory Board Chair

ATTEST: _____
Inez Wildenborg, Parks and Recreation Administrative Assistant

Laramie Community Service Day - October 10, 2015 Snowy Range Rd.

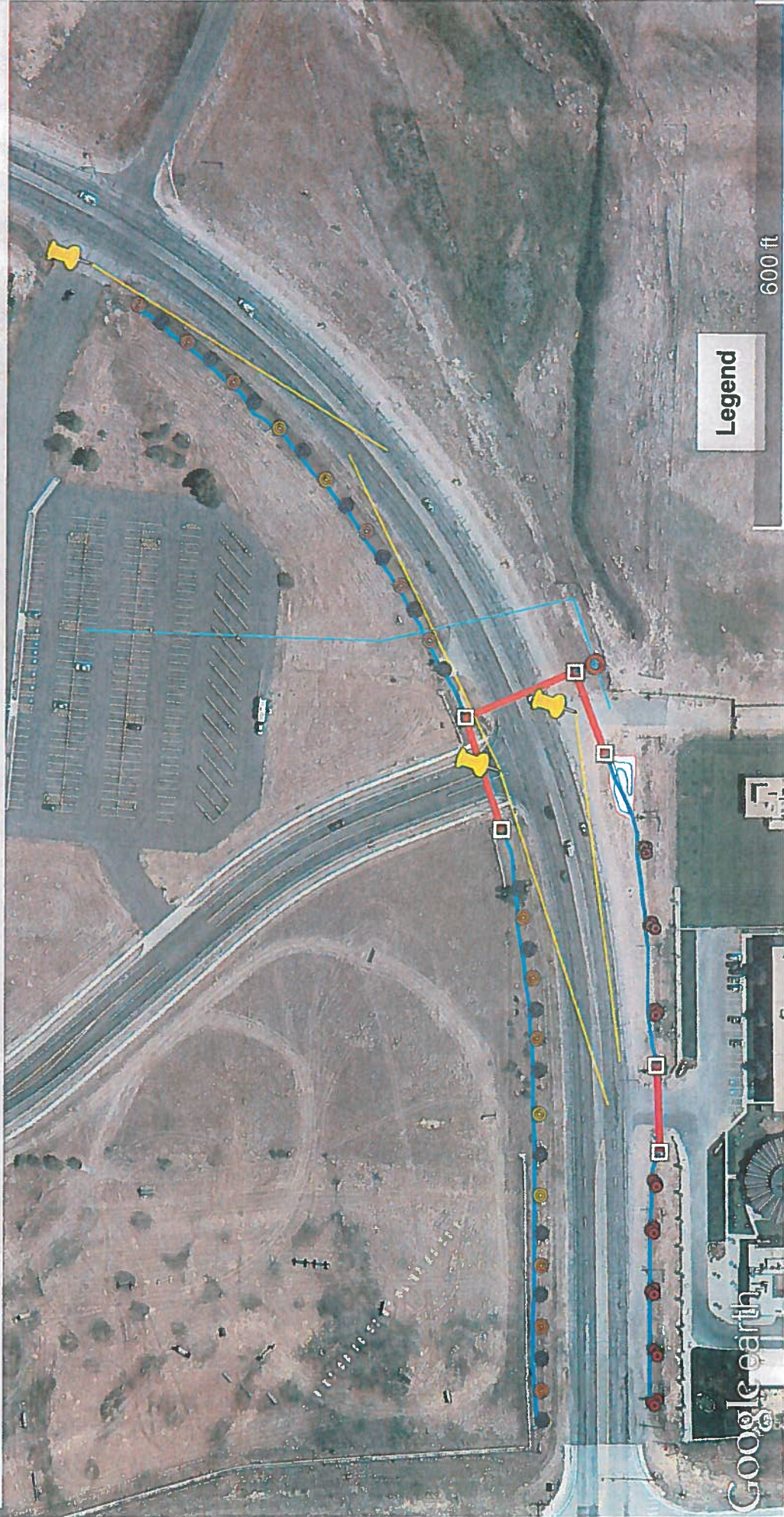


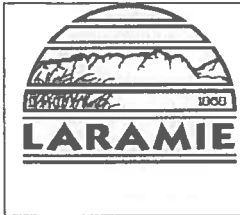
Autumn Purple Ash: purple dots, 17 trees. Bur Oak: orange dots, 12 trees. American Linden: yellow dots, 4 trees.
Gambel Oak: red dots, 8 groups of 3 tree/shrubs 24 total
Planter SW side of snowy Range & McCue 1875 sq. ft., (2- bur oak, 2- chokecherry, 8- dwarf Russian almond, and 30- 'Moonshine' yarrow).
All trees are planted at least 30 feet from the edge of street pavement.

12" Water Main: light blue line.

Bore pits (squares) are at least 30 feet from all road pavement edges.

Bore Under Roads: red lines, 4 bores, 470 feet total (Under Snowy Range 136 feet, Under N. McCue 134 feet, Under S. McCue 100 feet, Under UW Entrance 3/4 inch Poly Drip Lines: dark blue, 2,165 feet total trench between trees and property fence. Sight Visibility 400 foot distance: yellow lines.
Bore 2-inch HDPE Conduit pipe all four bores.





Agenda Item: Recreation

Resolution

Title: Resolution 2015- supporting the submission of a proposal to host the 2017/2018 Senior Summer Olympic Games

Recommended Board MOTION:

I move that the Parks, Tree and Recreation Advisory Board approve Resolution 2015-~~6~~ supporting the submission of a proposal to the Wyoming Senior Olympics President and recommend that the Laramie City Council support the proposal as well.

Administrative or Policy Goal:

4. The Board will review annually and provide recommendations on fees and policies for the Recreation Center and Ice and Event Center based on the operating pro-forma.

Background:

The City of Laramie has been the host community for the State Senior Olympic games on two different occasions in the past. The first time was in 1999, the second in 2010/2011²⁰⁰⁰ and members of the Laramie Community have encouraged staff to consider submitting a proposal to host the games again in the summer of 2017/18.

These games typically draw upwards of 300 individuals to the community from around the State of Wyoming, creating tax revenue from tourist activities. Laramie is in a good position to host these activities because of the extensive inventory of recreational facilities throughout town, and additionally, staff believe that we are well equipped with individuals experienced with running events such as these.

Requirements for host communities include a nine member executive committee, financial and in-kind commitments of approximately \$10,000.00 as well as the written support of community organizations such as senior centers and tourism organizations. Staff anticipate the need to hire additional staff to help with the initial organization as well as with volunteer coordination during the event.

The summer games also require a total of eighteen different activities as outlined in the attached documents. These are in addition to the traditional opening ceremonies, transportation, social activities and the resources to support their successful execution. In order to ensure that this bid is supported by the community and City Council, staff request that the board consider this resolution indicating a commitment to the identification and allocation of the resources required.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:**REVENUE**

Source	Amount	Type
Total	\$0.00	

EXPENSE

Proposed Project Cost.

Staff, equip., supplies	\$10,000.00	Resources for 2017
Staff, equip., supplies	\$10,000.00	Resources for 2018
Total Amount	\$20,000.00	

Responsible Staff:Jodi Guerin, Recreation Manager, 721-5259, jguerin@cityoflaramie.org**Attachments:**Resolution
Information about Hosting

RESOLUTION 2015-16

A RESOLUTION SUPPORTING THE SUBMISSION OF A BID TO HOST THE 2017 AND 2018 SUMMER SENIOR OLYMPICS IN LARAMIE WYOMING.

WHEREAS, the National Senior Games Association Committee is seeking a host location for the 2017 and 2018 Summer Games; and

WHEREAS, members of the Laramie community have encouraged the City of Laramie to consider submitting a proposal to be considered the host for the upcoming games; and

WHEREAS, Laramie has a strong volunteer community that has partnered with the City to support the Senior Games in past years; and

WHEREAS, the execution of the Summer Games requires eighteen different activities such as archery, cycling, shuffleboard and table tennis and will require additional resources be allocated for coordination, management and supplies; and

WHEREAS, a program of this magnitude will bring a significant number of visitors to Laramie from around the State of Wyoming, contributing to lodging and sales tax revenues; and

WHEREAS, the National Senior Games Association requires that the local community form a nine member executive committee, responsible for all aspects of preparing for and operating the games, including fundraising and marketing; and

WHEREAS, the successful execution of summer games will require the support and resources of the City and many volunteers;

NOW THEREFORE THE PARKS, TREE & RECREATION ADVISORY BOARD RESOLVES:

SECTION 1. That the foregoing recitals are incorporated in and made part of this resolution by this reference.

SECTION 2. That the Board supports the submission of a bid for the 2017 and 2018 Summer Senior Olympic Games and recommends that the Laramie City Council support the application as well.

PASSED, APPROVED, AND ADOPTED THIS 9th DAY OF SEPTEMBER, 2015.

ATTEST

PARKS, TREE AND RECREATION BOARD CHAIR

Information About Hosting Wyoming Senior Olympics in Your Town

Wyoming has been hosting the Senior Olympics since 1986 and joined the National Senior Games Association in 1987. Each and every year, the games get bigger and better. They are becoming well known throughout the region as being one of the best in the United States. The 2015 and 2016 Wyoming WINTER Senior Olympics will be held in Cody. The 2015 and 2016 SUMMER Senior Olympics are set for Sheridan.

The Wyoming Senior Olympics Board of Directors invites other communities in the state who are interested in hosting this inspirational group of athletes to consider bringing the Games to your town! Proposals will be accepted in 2015 for the 2017 and 2018 Wyoming Senior Olympics.

The Board of Directors will only consider proposals which include written cooperation of the local Parks and Recreation Department and/or the local Senior Center. Cooperation of these entities is vital to the success of the Senior Olympics. A representative will become a member of the Board of Directors and will be expected to participate as a committee member at the 2016 games in Sheridan, Wyoming. This will prove to be valuable experience for hosting successful games.

At a minimum, the narrative for the proposal should address the following:

1. Physical facilities for the events as set forth by the National Senior Games Association Committee. Facilities and staff should be provided at no cost to the Wyoming Senior Olympics. Under some circumstances, this rule may be circumvented or waived by the Board of Directors.

The required events are as followed:

Archery	Badminton
Basketball	Bowling
Cycling	Golf
Horseshoes	Race Walking
Racquetball	Road Races
Shuffleboard	Softball
Swimming	Table Tennis
Tennis	Track and Field
Triathlon	Volleyball

Additional Events may be added at the discretion of the Board of Directors or the local games committee.

- A. Model contracts with the facilities.
 - B. Model contracts with track and field staff and other volunteers to help with the events.
 - C. Commitment from the above or assurances that there will be adequate staff.
 - D. Fees for all the events, such as golf and bowling, etc.
2. Listing of motel accommodations and banquet facilities for a minimum of 300 people.
 - A. Special rates for single, double, and other occupancy.
 - B. Rates per meals for banquets, special dinners (ie. at the Senior Center), etc.
 - C. Other events such as dances, socials, and continental breakfasts.
 - D. Complimentary rooms and necessary space for office, registration and results.
 3. Provisions for adequate public transportation for athletes to and from event locations.
 4. How you will provide adequate state-wide news media coverage including television, newspaper and radio.
 5. Agreement to follow the Wyoming Senior Olympics Host City Guidelines as set by the Board of Directors.
 6. Letters of support and commitment signed by the Director of the Parks and Recreation Department, Director of the Senior Center, Local City Government, the Chamber of Commerce, Local News Media and any others directly involved in hosting the games.
 7. Outline the monetary assistance from the host community which should include a minimum of \$10,000 cash donations, or in-kind contributions towards the success of the games such as use of computers, copier, mailings, total staff time, etc.
 8. Outline how the host community will utilize medical personnel and/or EMT's to be available during all track and field events and swimming events.

9. Outline the utilization of law enforcement personnel to lead the Torch Run, cycling events, and direct traffic when needed for the other races and events.

10. The host community must show that a significant volunteer base is in place to conduct the games.

11. The proposal must be signed by representatives of the sponsoring organizations.

12. Proposals must be submitted **in 2015** to:

Marty Conrad, President
Wyoming Senior Olympics
PO Box 250
Lander, WY 82520

For more information please call Marty Conrad, Wyoming Senior Olympics President at 307-349-0918 or e-mail, sooner53_744@msn.com.

GENERAL INFORMATION

In order for the games to run smoothly, it is important for the host community to form an executive committee. These positions and main responsibilities are listed below.

Area Coordinator: Oversee all the coordinators to assure successful games. Develops budget for games. Responsible for bidding of the host hotel, planning of all meals, preparation of registration form and program, ordering t-shirts, medals and awards, and communication between venue sites. Responsible for the ballot and selection of special awards. On board of Directors of Wyoming Senior Olympics and attends all board meetings (4 per year). This position also serves as Treasurer on the Board of Directors. Sets up meetings of the Executive Committee.

Event Coordinator: Supervises all venue coordinators for the sports events. Arranges all necessary facilities and equipment for the implementation of the venues. Provides rules and regulations for the coordinators along with venue schedule.

Volunteer Coordinator: Is responsible for recruiting, assigning, managing and coordinating all volunteers for the games.

Treasurer: Handles all incoming money to include donations and registrations. Takes care of

checking accounting and is responsible for paying bills, Works with Area Coordinator on developing budget.

Fund Raising: Raises adequate funds for the current year's games. Develops presentation for use in solicitation of funds. Sets up meetings with city, county governments and private organizations. Works with Area Coordinator on developing budget.

Publicity: Responsible for the promotion of the games on a state-wide level. Prepares news releases and announcements and shall solicit free advertising and news coverage. Prepares posters to be distributed statewide. Establishes a senior contact in each community to help with distribution.

Registration: Responsible for the input of all registration data including event and sport results and the posting of the daily results for all events during the games. Provides qualifying information of U.S. National Games on the qualifying year. Provides athletes information for registration packets. Prepares mailing list for registration forms. Computer knowledge a must.

Registration Desk Coordinator: Responsible for the preparation of athlete packets. Works with area coordinators on information to be placed in packets. Solicits fun items to be placed in packets. Coordinates work schedule for volunteers at the registration desk during the games.

Opening Ceremonies: Organizes the torch run and opening ceremonies. Sets up route to be run and designates VIP to start run and light the flame. Organizes transportation for runners. Responsible for organizing opening ceremonies to include invocation, Star Spangled Banner, lighting of torch, dignitaries, organization of seniors by town and senior Olympic oath.

Host City Guidelines

INTRODUCTION

The Wyoming Senior Olympic games originated in 1986 with athletes competing in fifteen basic sports endorsed by the U.S. National Senior Olympics. By 1990 the Wyoming games had expanded into several other sports. Wyoming Senior Olympic Board of Directors is responsible for the management of the Wyoming Senior Olympics, and continually reviews other activities in an effort to further expand this growing athletic event for seniors from across Wyoming and the country.

The Wyoming Senior Olympics is an innovative sporting event designed to promote year-round physical fitness for seniors. Modeled after the International Olympics, Wyoming Senior Olympics provides a forum of serious minded competition for older adults.

The Wyoming Senior Olympics asks that the host community follow this manual to insure the games will be conducted in a similar manner when moving from one host sight to another and so that the host community can contribute to the goal of conducting the best possible competition for the Senior Olympians.

The responsibilities of each coordinator in this manual include details and guidelines that should be considered in running successful games. This manual is a living document subject to growth, development and change, we are always looking for suggestions to improve and expand them based on experience in the field.

PHILOSOPHY

The Wyoming Senior Olympics host city committee and Board of Directors support the belief that participation in athletic events has a positive physical, psychological and social benefit. Opportunities for athletic competition at the adult level are limited in scope and the Wyoming Senior Olympics striving to fulfill the needs of individuals 50 years of age or better. Through the spirit of competition, Wyoming Senior Olympics promotes a healthful and fun experience in a variety of athletic events.

WYOMING SENIOR OLYMPIC OBJECTIVES

1. To promote the ideals of health and wellness of adults through a more active lifestyle.
2. To erase myths that life is over after 50, by the philosophy that "you don't stop playing because you grow old, you grow old because you stop playing."
3. To promote the socialization and educational aspects of the senior games program by emphasizing recreational participation and proper training.
4. To provide opportunities for team spirit.
5. To promote the concept of adult athletics.
6. To encourage inter-community, state-wide, nation-wide and world-wide associations for participants.
7. To provide a showcase event which will be of interest to persons of all ages.
8. To educate and train participants and spectators in the areas of adult athletics and exercise.
9. To promote sportsmanship; volunteerism and camaraderie among individuals of all age levels and affiliations.

HOST CITY COMMITTEE

The annual Wyoming Senior Olympics shall be operated by the Host City Committee for the purpose of continued development of health and wellness of senior citizens in Wyoming and other states. The committee should meet at least four times a year or more often as necessary in preparation of each year's games, the dates of which are set by the Host City Committee, and may be in conjunction with the State Board meetings. The State Board consists of nine to twelve members which must include a President, Vice President, Secretary (and assistant, if appropriate) and Treasurer (and assistant, if appropriate). Other members may consist of interested volunteers throughout the State.

REQUIRED DUTIES OF HOST CITY COMMITTEE

Any of the duties not specifically delineated may be assigned to host city committee members as deemed appropriate. Suggested members include event coordinators for each event, i.e. swimming, track & field, basketball, volleyball, etc., finance coordinator, fund raising coordinator, volunteer coordinator, publicity coordinator, registration coordinator, opening

Ceremonies/torch run coordinator, and/or food coordinator.

State Games Coordinator – Is the chairperson of the host city committee and resides in the host city. Schedules and organizes all meetings of the Host city committee and call special meetings as required.

State Games Coordinator - Develops the packet to be mailed to the athletes. This packet will include the list of events (to include venue, date and time of each event), a list of host city accommodations and restaurants, an entry form, a event registration form, a list of meals provided or available during the games, and any other items of interest to the athletes. Prepares and arranges for printing of all registration packets (approximately 1,500) and posters (approximately 100). Registration packets and posters should be mailed out no later than mid April. Packets including ten (10) registration forms and a poster should be mailed to all Wyoming senior centers and recreation centers. Similar packets should also be mailed to the Senior Olympics coordinators in the surrounding states. If there is more than one print shop in the host city, a bid process may need to be undertaken for the printing of all necessary information for the games.

State Games Coordinator - Meets with the public to let them know what volunteer assistance is needed. Service groups are a good place to start, i.e. Rotary, Kiwanis, Jaycees, Lions, church groups, etc. It is important to start this process early in the year, along with asking for community donations. The volunteer and donation requests can also be done via a letter-writing campaign in conjunction with face-to-face meetings. Volunteers are needed at each venue, at the registration tables, to assist in posting results, to assist with meals, etc. A list of volunteers for each event/activity will be given to the event coordinator or person in charge of that event/activity. Event/activity coordinators should determine how many volunteers they will need and get that information to the State Games Coordinator.

State Games Coordinator and/or State Board President – Is the liaison with the national Office and keeps seniors informed of any changes that may take place within the national organization via meetings, website postings, etc.

State Games Coordinator – Has knowledge of all national qualifying rules and assures accurate information is given to seniors who participate in the games.

State Games Coordinator – Sets all news conferences and news coverage of the Games, and serves as the contact for all media during the Games.

State Games Coordinator – Sends thank you notes to State Board members when each year's games are completed.

State Games Coordinator and/or State Board President – may attend conferences or classes as needed for the improvement of the Wyoming Senior Olympics.

State Board Treasurer - Is also the treasurer of the host city committee and resides in the host city.

Treasurer/Assistant Treasurer - Pays national dues (currently \$500.00) by January 1 of each year to the National Senior Games Association.

Treasurer/Assistant Treasurer - Pays board of directors' and participants'

insurance by February 1 of each year. Insurance is currently through City Securities (see insurance notebook).

Treasurer/Assistant Treasurer - Pays Wyoming Senior Olympics trailer license to the county of the host city. This is due June 30 (a notice will be mailed).

Insurance for this trailer lies with the vehicle pulling the trailer.

Treasurer/Assistant Treasurer - Files annual report with Secretary of State by February 1 of each year (see corporate book).

Host City Committee

1. Establishes the necessary number of coordinators to provide for the efficient operation of the Senior Olympic Games. See page 12 for required duties of individual event coordinators
2. Is responsible for setting up the bidding process for site selection of the Senior Olympic Games. Mailing list is available and will be passed along to the new host city. The list includes all recreation centers and senior centers in the State of Wyoming. Bids must go out by March 1 of the first year the Host City hosts the Olympics for the games which will be held three/four years ahead. The bids are due back to the Host city by July 1 of that same year. A decision of the new host city will be made by the State Board at the annual meeting held during the Games. An announcement of the next host city will be made at the Games and will be sent out to all Wyoming newspapers as soon as possible thereafter. The selected host city key staff will be invited to participate in the current Games and selected staff will be required to join the State Board at the annual meeting.
3. Recommends the date for each year's games and submits them to the State Board for approval. All attempts will be made to avoid conflicts with surrounding states' senior games. These dates will be posted at the Games.

4. Fill out all facility use permits and pays any fees required.
5. Arrange for police escort for torch run and any other activities (parade, opening event, bike races, road races, etc.) where athletes will be in the streets.
6. Arrange for open fire permit for the torch run and for the caldron.
7. Inventories medals (bronze, silver and gold) to determine how many medals will need to be ordered for the host city. Medals can be ordered for the two years the host city will host the games. Medals are given to the first, second and third place winners in each event, as well as the first, second and third place Wyoming winners in each event.
8. Inventories the items that are owned by the Wyoming Senior Olympics.

List will be provided by host community.

It is the Host City's responsibility to assure this equipment is inventoried at the beginning and end of the games and also to assure the equipment is stored in a safe and dry location. The inventory report is submitted to the State Board at the next State Board meeting following the Games.

9. Ambulance services should be provided at the Track and Field and Swimming events. Consideration should also be given to having medical personnel available for other cycling, triathlon, etc. This is normally a volunteer service.
10. Updates the Wyoming Senior Olympics website on a bi-weekly basis, with prior approval the State Board President. The registration forms and any other pertinent information will need to be added to the website www.wyseniorolympics.com at the same time the registration forms are being mailed out (mid-April).
11. Develops the program brochure to be given to each athlete. These program brochures should include a map that designates all venues, as well as other designations that will assist the athletes in locating events (including meals, public restrooms, etc.). The brochure should also include a list of venues, sponsor pages, a letter from the Governor, a letter from the host city's mayor, a letter from the State Games Coordinator, a List of events and event coordinators, a list of State Board members and host city committee members, any other items the host city committee deems appropriate. Approximately 500 of these brochures should be printed at least one month prior to the games to allow for time to put these in the host city packets.
12. Develops the budget for the host city's games.

13. Prepares host city packets to be given to all athletes at registration check-in. Each packet will at a minimum include: A program, a record book, a t-shirt and a name tag. Other items may be included in this packet as deemed appropriate by the host city committee. Such items could include city maps, free or reduced price coupons donated by these host city's businesses, etc.

14. Plans all meals to be provided to or purchased by athletes. The only meal that MUST be held is the pasta dinner/banquet. A fee can be assessed for this meal. There should be an invocation at the pasta dinner/banquet. A master of ceremonies may be the State Games Coordinator and guest speaker MUST be provided at the pasta dinner/banquet. A guest speaker who will not charge to speak is preferable. Other entertainment may be provided as determined by the host city committee. Other meals that can be provided at no charge or purchased by athletes include breakfasts, lunches and opening ceremony/dinner (these meals are well received by the athletes).

15. Prepares bid process and arranges for printing of t-shirts for athletes, volunteers and coordinators, if appropriate (if there is only one business that can provide this service, the bid process would be unnecessary). The bid process can be done on a yearly basis or for the two year period the host city hosts the games-this decision made by the host city committee.

16. Prepares name tags for each athlete.

17. Responsible for arranging for communication between venues and the registration site. This can be done via cell phones, radios, etc.

18. Responsible for providing ballot forms for athletes to vote on male and female athlete of the year (this form may be included on the registration form). The State Board will vote on these athletes of the year at the annual meeting to be held during the Games. The awards will be presented at the pasta dinner/banquet. *NOTE: The process of selecting Athletes of the Year is under Board review.*

19. Responsible for the preparation of the local record book. Preparation and printing of the record book for the years the host city hosts the games will be prepared and posted on the Wyoming Senior Olympics website prior to transferring the games to the next host city. Record books should be printed and available at the registration table for athletes to review as well as have each sport coordinator have one available in their packet for the venue site.

20. Prints a master list of events/athletes to have available at the registration table for athletes to review.

21. Copies the National Senior Games rules for each event and places them in a notebook for each event coordinator, along with a list of athletes entered in the event, protest forms, a incident forms, cell phone/radio list, and any other items deemed necessary for the coordinator to run the event appropriately.

22. Prepares schedules and specific assignment sheets or letters for all volunteers with times and places clearly set forth so all volunteers know where and when they are to perform all assigned duties. Hosts a volunteer dinner the night prior to the events beginning in order for all volunteers to meet their volunteer coordinator and get their specific assignments. At this volunteer dinner, thank the volunteers for their assistance and hand out the volunteer t-shirts.

23. Transportation should be available to transport seniors from hotels to venues activities, etc. Transportation details should be made available on the registration form, at the registration desk and at the venues.

24. Checking and/or savings accounts need to be set up in the Host City with two signatures required on the checks. The previous Host City will maintain the books until no later than December 31 of the last year the host city hosts the Games, and transfer all funds to the new Host City as soon as possible after closing out the accounts. Any depository utilized in the Host City shall be insured by either the F.D.I.C. or the F.S.L.I.C. of the United States of America.

25. The treasurer and, if applicable, assistant treasurer, shall be bonded as soon as they take over the duties of this position. They are responsible for receiving all monies and funds of the Wyoming Senior Olympics including donations, registration fees and grants. They are also responsible for receiving all monies and funds of the Wyoming Senior Olympics, including donations, registration fees and grants. Also responsible for the proper procedures used in reimbursements to be made to committee members. Pays all outstanding bills in a timely manner. All bills needs to have a proper bill or invoice prior to being paid. No purchase/bills are to be paid with cash, but rather by check only. Responsible for all record keeping or financial matters of the Wyoming Senior Olympics and for preparing all financial statements. Shall provide current financial statements at all State Board and Host City meetings. The position also serves as Treasurer on the Board of Directors and must attend the annual Board of Directors meeting held during the games. The position also works with the State Coordinator and President on developing each year's budget.

26. Promotion on a state-wide level must be completed. This is done via preparation of news releases and public service announcements including television, radio and newspapers. As much free advertising as possible must be done. Grants are many times available through the Host City's lodging tax board and this avenue should be pursued early in the year.

27. Slides, videotapes and/or pictures should be taken of various aspects of the Games and put with the historical data kept.

28. Organize torch run for the opening ceremonies. Seniors only are allowed to run in this event. Set up route to be run and designate VIP to start run and to light flame. Organize transportation for runners so they do not have to run entire route. Arrange or police escort (one in front of runners and one behind).

29. Organize opening ceremonies to include the following, in the suggested order:

Honor Guard

Parade of Athletes

National Anthem

Introduction of Guests

Invocation

Lighting of Caldron

Entertainment (if host city desires).

Guest speaker (if host city desires) - This person will declare "Let the Games Begin"

Dinner (if host city desires)

Local, state and national dignitaries should be invited to the opening ceremonies.

30. Prepares and mails thank you notes to donors, volunteers, in-kind service providers, etc.

31. Inputs all registration data, including event and sport results and the posting of the daily results for all events. Use of Senior Olympics software is required. Also responsible for production of final records and presentation of data to the National Senior Games Association.

32. Responsible for entering results data into the computer and printing out results sheets. One volunteer from each venue will need to bring results to the registration area for entry into the computer. A copy machine to run copies of results for athletes and media is required.

33. Results should be provided to media during the Games in any format available, i.e. telephone, fax, e-mail, etc. Post results to the Wyoming Senior Olympics website www.wyseniorolympics.com as soon as possible after events are completed.

State Board

Approves and pays all travel reimbursements for State Board members, if necessary.

Is responsible for overseeing the financial stability of the Wyoming Senior Olympic.

Maintains and updates the Host City Guidelines and Wyoming Senior Olympics bylaws as necessary. Suggestions for changes/recommendations are welcome from the host city committee.

SUGGESTED DUTIES OF HOST CITY COMMITTEE

1. Prepare the bid for the host hotel and sign the contract (if this is part of the host city's sting the games).
2. May develop ideas for merchandise that can be marketed during the Games (shirts, hats, bag, etc.); however, prior to any merchandise being ordered, ideas must be approved by the State Board.
3. Door prizes may be given out to the athletes during the banquet if the host city has door prizes available. No monies are to be spent to purchase door prizes.
4. Organize a "tour of the state" with the trailer in the spring of the first year the new hosts city hosts the games. This "tour" would include visiting senior centers, recreation centers, etc. en route from the previous host city to the new host city in order to promote the games.
5. Organize a torch run in the host city prior to the second year's Games in order to promote the Games.

Event Coordinators

1. Wyoming Senior Olympics offers what is required by the National Senior Games Association and extra events as determined by the host city committee.

The following events are REQUIRED by the National Senior Games Association (see national Senior Games Association rulebook and previous year's registration forms)

Archery	Badminton
Basketball	Bowling
Cycling	Golf
Horseshoes	Race Walking
Racquetball	Road Races
Shuffleboard	Softball
Swimming	Table Tennis
Tennis	Track and Field
Triathlon	Volleyball

2. Individual event coordinators must have working knowledge of the sporting event for which they have volunteered to coordinate.

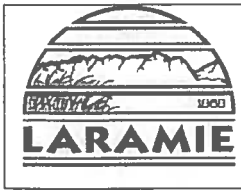
3. Individual event coordinators will meet with their event volunteers prior to the event beginning to give appropriate instructions.

4. Individual event coordinators will work with athletes to make sure they understand the rules of the event and fill out any protest or accident forms that may become necessary. In the case of a protest, the event coordinator, State Games Coordinator and State Board President will review the protest and make a decision.



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Agenda Item: Recreation

Resolution

Title: Sponsorship of the Friends of Community Recreation Zombie Run

Recommended Board MOTION:

I Move to recommend Resolution #2015- 17 to the Laramie City Council, authorizing co-sponsorship of the Friends of Community Recreation Zombie Run on October 19th and allowing for the use of Shelter #1 and the Greenbelt Trail at Optimist Park from 7am to 1pm for this fundraising event.

Administrative or Policy Goal:

4. The Board will review annually and provide recommendations on fees and policies for the Recreation Center and Ice and Event Center based on the operating pro-forma.

Background:

The Friends of Community Recreation is a non-profit organization established in 1988 to support the construction of a recreation center for the Laramie Community. When the Laramie Community Recreation Center was complete in 2004, the "Friends" became an organization focused on raising funds to help organizations and citizens access the recreation center no matter what their financial circumstance.

In 2014, the Friends organized their first annual Zombie 5k event which proved very popular with the community. The Race had 99 participants who participated as either a runner or Zombie. The runners wore a flag belt, similar to that worn by flag football players. The runners began the course in one direction and the Zombies began the race minutes later in the opposite direction and attempted to pull the flags off the runners. There were prizes for costumes, flags pulled, and race times. The event was a success raising \$1200 for the FCR group.

They were aided by nearly thirty volunteers from the community and student groups that assisted them with registration, logistics, face painting, and timing. The money raised by this group is a great help to our community by providing activity scholarships to local underprivileged children.

This year, the Friends are organizing the run on October 31st to begin at 9am in Optimist Park along the Greenbelt Trail to avoid conflicts encountered last year when they used the streets around Undine Park. They have requested that the City consider co-sponsoring this activity by authorizing the use of Shelter #1 and the Greenbelt Trail at Optimist Park at no charge.

This is an event with goals that are complimentary to the efforts of the Laramie Community Recreation center and Parks and Recreation in general and staff recommend approval.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:**REVENUE**

Source	Amount	Type
Fees/Charges for Service		
Grant		
Loan		
Other		
Total	\$0.00	

EXPENSE

Proposed Project Cost.

Project	Amount	Funds
Park Rental Fees	\$45.00	Reservation fees not charged
Total Amount	\$45.00	

Responsible Staff:Jodi Guerin, Recreation Manager, 721-5259, jguerin@cityofflaramie.org**Attachments:**

Resolution for Council

RESOLUTION NO. 2015- AB17

A RESOLUTION AUTHORIZING CO-SPONSORSHIP OF THE FRIENDS OF COMMUNITY RECREATION ZOMBIE 5K ON OCTOBER 31, 2015 ALLOWING FOR THE USE OF THE GREENBELT TRAIL AND SHELTER #1 AT OPTIMIST PARK FROM 7AM TO 1PM.

WHEREAS, fees for park shelters throughout the City are set by ordinance and authorized by City Council, and;

WHEREAS, the City has received a request to authorize the use of shelter #1 at Optimist Park on October 31st by the Friends of Community Recreation, and;

WHEREAS, the Friends of Community Recreation is a non-profit organization that raises funds to provide scholarship funds for economically challenged members of the community to access recreation facilities in the City of Laramie, and;

WHEREAS, the Zombie 5k is a fundraising effort that will use the shelter as a home base for the event, with participants using the greenbelt trail for the run, and;

WHEREAS, City co-sponsorship of the Zombie 5k will also enable the “Friends” to utilize Wyoming Association of Risk Management to insure the event.

NOW THEREFORE, THE PARKS, TREE AND RECREATION ADVISORY BOARD OF LARAMIE, WYOMING RESOLVES:

Section 1: That the foregoing recitals are incorporated in and made a part of this resolution by this reference.

Section 2: That the Parks, Tree and Recreation Advisory Board hereby approves the Resolution authorizing the co-sponsorship of the Friends of Community Recreation Zombie 5k run on October 31st, 2015.

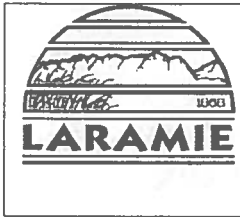
PASSED AND APPROVED this 9th day of September, 2015.

Jacque Stonum, Advisory Board Chair

Attest:

Inez Wildenborg, Parks and Recreation Administrative Assistant

PARKS, TREE & RECREATION ADVISORY BOARD REGULAR MEETING September 9, 2015



Agenda Item: Recreation

Memorandum of Understanding

Title: Memorandum of Understanding between the Shock & Rage Youth Basketball Program and the City of Laramie for the 2015 season.

Recommended Board MOTION:

I move that the Parks, Tree and Recreation Advisory Board approve the Memorandum of Understanding between the Shock & Rage Youth Basketball Program for use of the Recreation Center gymnasiums for the 2015 basketball seasons.

Administrative or Policy Goal:

The Parks, Tree, and Recreation Advisory Board will review and provide recommendations on fees and policies

Background:

In November of 2013 the Parks, Tree and Advisory Board considered a request from the Laramie Shock & Rage Youth Basketball program for rental of basketball courts at the Laramie Community Recreation Center. They requested a fee reduction of 50% for their program based on their youth oriented nonprofit status and the board agreed.

The Board also directed staff to meet with the organizers of the program to bring forward an MOU if the request was made for the future. In July of 2014, the Advisory Board authorized an MOU with Shock and Rage specifying a 25% discount for facility rentals for their basketball program.

This agreement for 2015 maintains the same terms of the agreement, continuing the City's ability to reserve gym space for patrons and City programs, while allowing for a discounted payment system in the gyms. We anticipate reserving one court for eight hours each Saturday for eight weeks during the season and one court twice a week for approximately two hours.

Typically the board has considered fee reductions of 50% for activities that are completely free to the public, generate economic development or are short-term activities. Fees for organizations with longer term use such as the Laramie Swim Club or Hockey groups are reduced between 10-25% by agreement.

Legal/Statutory Authority: N/A

BUDGET/FISCAL INFORMATION:**REVENUE**

Source	Amount	Type
Fees/Charges for Service	\$2,160.00	75% of gym rental cost for 96 hours
Grant		
Loan		
Other		
Total	\$2,160.00	

EXPENSE

Proposed Project Cost.

Project	Amount	Funds
Overhead	\$1,536.00	Overhead cost of gym
Staff	\$240.00	cost of facilities staff
Total Amount	\$1,776.00	

Responsible Staff:Jodi Guerin, Recreation Manager, 721-5259, jguerin@cityoflaramie.org**Attachments:**

MOU

**MEMORANDUM OF UNDERSTANDING
BETWEEN
THE CITY OF LARAMIE, WYOMING
AND
THE LARAMIE SHOCK & RAGE BASKETBALL PROGRAM**

1. **Parties.** This Memorandum of Understanding (hereinafter referred to as "Agreement") is made and entered into this 9th day of September by and between the City of Laramie, Wyoming, a municipal corporation (hereinafter referred to as "City") whose address is 406 Iverson St., Laramie, Wyoming 82070 and The Laramie Shock & Rage Basketball Program (hereinafter referred to as "Shock") whose address is 1514 Arnold St., Laramie, Wyoming 82070 (hereinafter collectively referred to as "Parties").

2. **Purpose.** The purpose of this Memorandum is to define the financial process for fees and the responsibilities of parties associated with the reservation, fees and facility use at the Laramie Community Recreation Center during the Shock season from Sept. 21, 2015 through Dec. 11, 2015.

3. **Term of Agreement and Required Approvals.** This Agreement is effective when all parties have executed it and all required approvals have been granted. The term of the Agreement is from the date of execution through Dec. 31, 2015 unless otherwise terminated or extended as outlined herein.

4. **Consideration.** The Shock shall make a single payment to the City at the conclusion of the 2015 basketball season at a rate of 75% of the regular rental rate listed on the Master Fee Schedule for basketball courts at the Laramie Community Recreation Center contingent upon fulfilling the terms of this Agreement.

5. **Responsibilities of City.** City is responsible for the following:

- A. Reserve the courts according to the negotiated schedule during the season.
- B. Provide tables, chairs and scoreboards for scorekeepers and officials.
- C. Lower the baskets to the appropriate height for each age group.
- D. The City retains the right to schedule practices and games to accommodate other programming as appropriate.

6. **Responsibilities of Shock.** Shock is responsible for the following:

- A. Provide the City with final schedules in writing, for all requested practice and game times by Sept. 1, 2015.
- B. Provide notification of any cancellations at least 24 hours in advance of scheduled use.

C. Remit payment to the City of Laramie for facility use fees associated with Shock within 30 days upon receiving an invoice.

D. Provide proof of current general Liability Insurance naming the City as Additional Insured or Certificate Holder.

7. **Special Provisions.**

A. **Termination.** Either party to this agreement may terminate such by giving notice of not less than thirty (30) days in writing of official action that has been taken by the governing body of the party which terminates the Memorandum of Understanding.

B. **Amendments.** Any changes, modifications, revisions or amendments to this Agreement which are mutually agreed upon by the parties to this Agreement shall be incorporated by written instrument, executed and signed by all parties to this Agreement.

C. **Monitor Activities.** City shall have the right to monitor all activities related to this Contract, including activities of the Contractor and all subcontractors. This shall include, but not be limited to, the right to make site inspections at any time, and to observe all Contractor personnel in every phase of performance of work related to this Contract.

D. **Confidentiality.** Nothing in the Agreement shall be deemed to require the parties to release any information that is considered confidential by law.

E. **Nondiscrimination.** Contractor shall comply with Presidential Executive Order 11246 entitled, "Equal Employment Opportunity," as amended by Presidential Executive Order 11375, and as supplemented in the Department of Labor Regulations (41 CFR Part 60), the Civil Rights Act of 1964, the Wyoming Fair Employment Practices Act (Wyo. Stat. § 27-9-105 et seq.), and the Americans With Disabilities Act (hereinafter referred to as "ADA"), 42 U.S.C. 12101, et seq. Contractor shall assure that no person is discriminated against based on the grounds of sex, race, religion, national origin or disability in connection with the performance of this Contract. Contractor shall include the provisions of this section in every subcontract awarded so that such provisions are binding on each subcontractor.

F. **Liaison and Notice** City's and Shock's Designated Representatives.

(i) City's designated representative is Kason Walton, Recreation Center Supervisor, P.O. Box C Laramie, WY 82073: telephone number: (307) 721-5261 and facsimile: (307) 721-5284.

(ii) Shock's designated representative is Nick Darling, Shock, 1514 Arnold St., Laramie, Wyoming 82070: telephone number: (925) 285-7447: email: nicholasjdarling@gmail.com.

(iii) All notices and invoices required in this Agreement shall be in writing, properly addressed to the liaison above, and mailed first-class, postage prepaid. All

notices sent via U.S. Postal Services are deemed effective on the date of postmark. Notices and invoices mailed through another carrier (e.g., UPS or FedEx) are effective upon receipt.

G. Entirety of Contract. This Contract, consisting of six (6) pages and represents the entire and integrated Contract between the parties and supersede all prior negotiations, representations, and agreements, whether written or oral.

G. Ethics. Shock shall keep informed of and comply with the Wyoming Ethics and Disclosure Act (Wyo. Stat §9-13-101, et seq.), and any and all ethical standards governing SHOCK's activities.

H. Force Majeure. Neither party shall be liable for failure to perform under this Contract if such failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming party. Such causes may include, but are not limited to, acts of God or the public enemy, fires, floods, epidemics, quarantine restrictions, and unusually severe weather. This provision shall become effective only if the party failing to perform immediately notifies the other party of the extent and nature of the problem, limits delay in availability of the City's facilities to that required by the event, and takes all reasonable steps to minimize delays. This provision shall not be effective unless the failure to perform is beyond the control and without the fault or negligence of the nonperforming party.

I. Indemnification. Shock shall indemnify, defend and hold harmless the City, and their officers, agents, employees, successors and assignees from any and all claims, lawsuits, losses and liability arising out of Shock's failure to perform any of Shock's duties and obligations under this contract or in connection with the negligent performance of Shock's duties or obligations, including but not limited to any claims, lawsuits, losses or liability arising out of Shock's performance under this Contract.

J. Debts and Liabilities. Shock shall assume sole responsibility for any debts or liabilities that may be incurred by Shock in fulfilling the terms of this Contract, and shall be solely responsible for the payment of all federal, state and local taxes which may accrue because of this Contract. Nothing in this Contract shall be interpreted as authorizing Shock or its agents and/or employees to act as an agent or representative for or on behalf of the City, or to incur any obligation of any kind on the behalf of the City. Shock agrees that no health/hospitalization benefits, workers' compensation and/or similar benefits available to City employees will inure to the benefit of Shock or the Shock 's agents and/or employees as a result of this Contract.

K. Insurance. Shock shall maintain the following insurance:

(i). Workers' Compensation and Employers Liability Insurance: Shock shall provide City proof of workers' compensation coverage for all of it's employees who are to work on the project described in this Contract. Shock's coverage shall be under the Wyoming Workers' Safety and Compensation program, if statutorily required, or such workers' compensation insurance, as appropriate. Shock's insurance shall include Employer's Liability

“Stop Gap” coverage, in an amount not less than Five Hundred Thousand Dollars (\$500,000.00) per employee for each accident or disease.

(ii). **Commercial General Liability Insurance.** The Shock shall provide coverage, during the entire term of the Contract, against claims arising out of bodily injury, death, damage to or destruction of the property of others, in an amount not less than five hundred thousand dollars (\$500,000.00) per occurrence and one million dollars (\$1,000,000.00) general aggregate.

(iii). **Coverage.** All policies required under this Contract shall be in effect for the duration of this Contract and projects. The Shock agrees to provide the City with notice of cancellation, revocation, amendment, or lapse of insurance.

(iv). **Additional Insured.** All insurance policies required by this Contract, except workers’ compensation, shall name City as an additional insured. Shock shall provide, upon request a copy of an endorsement providing this coverage.

L. **Sovereign Immunity.** The City does not waive sovereign immunity by entering into this Contract, and specifically retain immunity and all defenses available to them as sovereigns pursuant to Wyo. Stat. § 1-39-101 (2011), et seq., and all other state law.

M. **Prior Approval.** This Contract shall not be binding upon either party, no services shall be performed under the terms of this Contract, until this Contract has been reduced to writing, approved by the City.

N. **Termination of Contract.**

(i). City reserves and has the right and privilege of canceling, suspending, or abandoning the execution of all or any services in connection with this Contract at any time upon one (1) month written notice to Shock. Shock may terminate this Contract upon written notice to City should City substantially fail to perform in accordance with Paragraph 6 of this Contract.

(ii). In the event of termination, Shock shall pay to City, as full payment for all services performed and all expenses incurred under this Contract, which shall have become payable because of the progress in the services. In ascertaining the services actually rendered hereunder up to the date of termination of this Contract, consideration shall be given to both completed services and services in progress.

O. **Third Party Beneficiary Rights.** The parties do not intend to create in any other individual or entity the status of third party beneficiary and this Contract shall not be construed so as to create such status. The rights, duties and obligations contained in this Contract shall operate only between the parties to this Contract, and shall inure solely to the benefit of the parties to this Contract. The provisions of this Contract are intended only to assist

the parties in determining and performing their obligations under this Contract. The parties to this Contract intend and expressly agree that only parties signatory to this Contract shall have any legal or equitable right to seek to enforce this Contract, to seek any remedy arising out of a party's performance or failure to perform any term or condition of this contract, or to bring an action for the breach of this Contract.

P. Extension. Nothing in this Contract shall be interpreted or deemed to create an expectation that this Contract will be extended beyond the term described herein. Any extension of this Contract shall be requested by Shock and following approval by City shall be effective only after it is reduced to writing and executed by all parties to the Contract. Any agreement to extend this Contract shall include, but not necessarily be limited to: an unambiguous identification of the Contract being extended; the term of the extension; the amount of any payment to be made during the extension, or a statement that no payment will be made during the extension; a statement that all terms and conditions of the original Contract shall, unless explicitly delineated in the exception, remain as they were in the original Contract; and, if the duties of either party will be different during the extension than they were under the original Contract, a detailed description of those duties.

Q. Severability. Should any portion of this Contract be judicially determined to be illegal or unenforceable, the remainder of this Contract shall continue in full force and effect and either party may attempt to renegotiate the terms affected by the severance.

R. Titles Not Controlling. Titles of paragraphs are for reference only, and shall not be used to construe the language in this Contract.

S. Waiver. The waiver or any breach of any term or condition in this Contract shall not be deemed a waiver of any prior or subsequent breach.

T. Time is of the Essence. Time is of the essence in all provisions of the Contract.

U. Energy Efficiency. The City of Laramie seeks to integrate energy efficiency practices into all aspects of day-to-day operations, from capital construction specifications to staff behaviors, to ensure economic and environmental sustainability. The City encourages that user groups, 1) enhance the efficiency of projects and ongoing operations that are performed in conjunction with the City and/or 2) consider all energy types, including traditional and renewable sources.

V. Wyoming Preference Act. In accordance with State Statutes and as applicable, 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.

IN WITNESS WHEREOF, the Laramie City Council has caused this Memorandum of Understanding to be signed and executed in its behalf by the City Manager and Shock have signed and executed this Agreement, the day and year first written above.

CITY OF LARAMIE, WYOMING:

By: _____
Janine Jordan, City Manager

Attest: _____

LARAMIE SHOCK AND RAGE BASKETBALL:

By: _____
Nick Darling, Laramie Shock & Rage

Attest: _____



Agenda Item: Parks

Discussion Item

Title: Discussion of the Mosquito Control Program

Recommended Board MOTION:

Discussion Item

Administrative or Policy Goal:

The Board will encourage and support continuing grants for Parks and Recreation programs and operations.

Department Objective: The implementation of the City's 2010 West Nile Virus Prevention Plan; Provide quality parks and recreation opportunities for residents and visitors to the City.

Background: Mosquito control services have been a part of summer in Laramie since their inception in the late 1960's. Technology and science has advanced our operation from a time when the first thermal foggers rolled through the streets, billowing clouds of chemical infused smoke, and aircraft sprayed insecticides mixed with diesel fuel to control clouds of rural mosquitoes.

Currently, state of the art designer products are used to control larval production using environmentally friendly bacterial agents, biodegradable oils, and even synthetic hormones, which prevent maturation of larvae to adulthood. Residential fogging equipment is GPS controlled to apply precise volumes of insecticides matched to the ground speed of the vehicle. Droplet spectrums are specifically targeted to impact mosquitoes and spray missions are recorded for future reference. Aerial applications are made with the aid of GIS guided aircraft featuring pilots equipped with night vision goggles to allow precise timing of application during the early nighttime hours when the mosquitoes are most vulnerable.

Developments in insecticide safety and efficacy allow the use of Ultra-Low-Volume (ULV) applications utilizing as little as one half ounce of product per acre. Today portable electronic laboratory equipment aids in the testing of mosquito samples for potentially deadly viruses in a matter of hours instead of weeks.

On Sunday evening, July 12, 2015 from 7:26 pm through 8:25 pm, the City of Laramie Mosquito Control conducted an aerial application of Dibrom, ½ ounce per acre, over 15,360 acres in Albany County adjacent to City limits to control vector and nuisance mosquito populations. The application was done by Vector Disease Control International under a professional services agreement approved by the Laramie City Council on March 17, 2015.

On July 13th the City of Laramie received a complaint regarding the arial application of Dibrom alleging the application of Dibrom had an adverse effect on bee hives and many of the bees were dead. The Wyoming Department of Agriculture began an investigation on July 14th. On August 4th the results of the investigation were released from the Wyoming Department of Agriculture stating that, "The results from the Wyoming Department of Agriculture Analytical Lab results came back negative indicating the chemical Naled, which is the active ingredient in the Dibrom insecticide, was not detected in the dead bee sample." The conclusion states, "All requirements were met for the label requirements by the City of Laramie. The label stipulations were followed by Vector Disease Control. We found no violations on the mosquito control application that was contracted by the City of Laramie and applied by Vector Disease Control on 7/12/15."

However, this case has brought a larger discussion to light regarding the use of organophosphates, specifically Dibrom with the active ingredient Naled in the City of Laramie’s aerial adult control of nuisance and vector mosquitos.

In 2011/12, the City of Laramie was required to apply for and receive a major permit under the Wyoming Pollutant Discharge Elimination System (WYPDES) Program. The federal Clean Water Act provides that the discharge of any pollutants from a point source into surface water of the United States must be regulated. Through this program, operators of a point source discharge are required to receive coverage under a WYPDES discharge permit. The permits contain limitations and conditions that will assure that the state's surface water quality standards are protected.

With this being the case, the City of Laramie incurred increased costs for aerial application services as local aerial applicators chose not to take on the liability. However, VDCI, an international company, has the capacity to take on the requirements as outlined in WYPDES and has done the larval and adult aerial applications for the City for the past three years. Costs per acre have doubled forcing larval control treatments to be cut by more than one-half to remain within budget. The City’s current program is an economically charged program to utilize available resources to best control nuisance and vector mosquitoes.

AERIAL LARVICIDE APPLICATIONS 2009-2015

<u>YEAR</u>	<u>TOTAL ACRES</u>	<u># OF APPLICATIONS</u>	<u>COST</u>	<u>PER ACRE</u>
2009	7272	2	\$30,425.00	\$4.18
2010	7026	3	\$37,142.00	\$5.28
2011	8256	2	\$40,326.00	\$4.88

2012	2880	1	\$27,918.00	\$9.69
2013	3046	1	\$28,790.00	\$9.45
2015	4400	1	\$42,674.00	\$9.69

Fees that fund mosquito control are collected under Chapter 13.52, Section 13.52.010, ordinance number 1275 of the Laramie Municipal Code and rates are set by the City Council. The current fee is \$2.57 per household, per month. The user fee currently generates approximately \$282,300 of the \$388,763 budgeted for mosquito control. Additional funding is provided through intergovernmental revenue. The Albany County Weed and Pest Board approves funding to augment the city program in the amount of \$40,000 annually. The Albany County Commissioners have contributed \$5,000 under a MOU to fund a surveillance technician to aid in assessing samples from rural districts. Emergency Insect Management Grants funded by the Wyoming Department of Agriculture annually contribute additional funding that is earmarked specifically for West Nile virus (WNV) prevention. The grant amount for 2015 is \$60,500. City general funds make up the remainder of the mosquito Control budget.

City staff seeks direction from the Parks, Tree and Recreation Advisory Board on the question of an economically driven program versus and environmentally driven program.

ANALYSIS OF CONTROL MATERIALS

AERIAL MOSQUITO CONTROL ADULTICIDES

PRODUCT	ACTIVE	RATE	CHEMICAL COST / A	APP COST / A	TOTAL	Efficacy
1. EVOLUER	PERMETHRIN/ PBO	3 OZ./ ACRE	\$0.40	\$1.00	\$ 1.40	65-75%
2. ANVIL 4+4	SUMITHRIN/ PBO	3OZ./ACRE	\$1.70	\$1.00	\$2.70	75-85%
3. ZENIVEX	ETOFENPROX	3 OZ./ACRE	\$1.88	\$1.00	\$2.88	65-75%
4. PYRENONE 5-25	PYRETHRIN	2.6 OZ./ACRE	\$4.03	\$ 1.00	\$5.03	65%

Each of the products listed above are labeled for aerial Ultra Low Volume (ULV) application. These products are not well suited to aerial application. Evoluer, Anvil, Zenivex and Pyrenone are all pyrethrin/ permethrin based formulations which require light oils as a carrier, and have very low molecular weights. Droplets that are the correct size according to label directions tend to fall slowly and may drift off target or not reach the ground at all if applied in less than perfect weather conditions. These compounds are very well suited to ground based application because of these qualities which allow them to remain suspended in air for a significant length of time.

1. DIBROM	NALED	½ OZ./ ACRE	\$0.67	\$0.82	\$1.49	95%
2. FYFANON	MALATHION	3 OZ./ ACRE	\$0.82	\$1.30	\$2.12	95%

In this second grouping, Malathion and Dibrom are much heavier compounds which require no carrier for application. These heavier molecules produce droplets in the correct size spectra which fall much more predictably in all weather conditions. These products have been selected for use for aerial applications in rural areas outside the City. Both of these compounds are organophosphate insecticides.

In certain circumstances where citizen sensitivities or insecticide resistance in the mosquito population is a concern, the pyrethrin/ permethrin based formulations can be utilized as an alternative aerial mosquito control product. City of Laramie has chosen selected a permethrin based formulation for use in the case of a public health emergency where aerial applications would be made over the City to control mosquitoes that vector West Nile virus. These compounds are already in use in our ground based fogging program.

Aerial application costs vary between different products because of the amount of material that must be loaded and applied by the contractor. In essence higher volumes of chemical require more trips and more miles flown to apply the material, more trips to refill, and greater fuel costs.

Chemical costs vary widely based on the raw materials, formulation processes and demand. As an example: Natural pyrethrin is produced from chrysanthemum plants from Kenya and costs \$200 per gallon. Synthetically produced permethrin is designed to mimic pyrethrin and costs just \$16 per gallon.

Legal/Statutory Authority: N/A

Responsible Staff:

David Schott, Parks Manager, 721-5264, dschott@cityoflaramie.org



Attachment 1: 2015 Mosquito Control Program Overview

Attachment 2: Wyoming Department of Agriculture Investigation Report and Results

Attachment 3: Report on the July 12, 2015 Aerial Application

Mosquito Control

August 18, 2015

Helen Coates

To Laramie City Council and Laramie Parks and Recreation Department.

We continue the debate over Dibrom spraying.

While I realize there is a fine line between significant environmental concerns and raving lunacy, the distinction is made by the beholder. Currently I feel as though the city places me on the raving lunatic side as described in their letters. I am passionate about the environment but I never use profanity to public officials.

History judges an entity by its legacy, and it is my viewpoint that dibrom spraying is mass environmental destruction. I am not alone. Countless scientific papers point to destruction and even extinction of various invertebrates- butterflies, dragonflies etc. Dibrom kills warblers and injures thousands of species – It's not just mosquitoes out there.

Rationalization is made by saying it is used by various counties in the area. However this is very misleading. If you add up the counties that use dibrom in Colorado, Washington, Oregon, Utah and Idaho versus those that do not the ratio is 20/212 or approximately 9 %. Clearly this is NOT the usual method and it is certainly the most destructive horrific method.

I live extremely close - probably closer than other beekeepers to the spray areas. I also am able to check my hives in the day and have bare ground in front of them, In the early am of Monday July 13 all was clear – by 1 pm there were over 400 dead bees and they were still returning and dying in front of me . It rained that night so by Tuesday when the bees were collected for evidence they had been washed and the stuff had had plenty time to degrade (short ½ lives) Plus they didn't get drenched in it they got it the next day imbibing the nectar. That is my belief. I believe the result were a false negative due to late collection after rainfall. I have not had a episode of dead bees like that before or since.

However whether or not my bees were affected is NOT the point. Yellow clover is a mega nectar producing plant. Spraying vast acres of it in bloom more than likely killed millions of pollinators and other insects and probably birds, amphibians and so on.

I went for a bike ride the other day along the river greenbelt, It was scary and very sad. No butterflies- plenty of milkweed – no monarchs. No dragonflies, very few birds – for insect eating birds like warblers /swallows have nothing to eat . It was quiet and sterile. A silent afternoon and no activity.

I lived in a different community once in a different state– yes there were a few mosquitos but hordes of dragonflies and birds and butterflies and real life. And as far as I knew and can find there is no mosquito control of any kind there despite marshes , lakes, ponds, wetlands, rivers and average rainfall of 32 inches a year.(and west Nile) A bike ride there on river trails one could see lots of birds, dragonflies, butterflies it was a vibrant living ecosystem along the rivers and wetlands. So different and So SAD.

There are those who point to West Nile Virus. The death rate from that is about 100x less than the Albany county rate for accidents – yet we have no compulsory seat belt law, zero gun control . Tularemia and plague infect rabbits and rodents – can cause extremely serious human disease – I read no public health warnings and certainly see no effort at decreasing the rabbit population which is plague like in quantity.

I repeat Mosquitos are part of nature , if you have to try to control them (which is another story) there are less damaging ways to do it than Dibrom over thousands of acres. It is a continuing environmental disaster and I repeat The bees are the canary in the coal mine. As they die Humans are sickened. Long term exposure to even low amounts of toxic organophosphates is linked to Cancer and Alzheimers and immune dysfunction.

You may regard me as crazy but I care about biodiversity, a complete biosystem. As pollinators decline and bees decline – and they both are declining rapidly – what will pollinate the crops? To hope or expect an insect free “ Bug be gone” environment is really dangerous thinking. There will be a host of unintended consequences far worse than a few mosquitos. To spray mosquitos in the cheapest way is short term success, Long term DISASTER.

Thank you

Helen Coates

Paul Harrison

From: Helen Coates <free2hike09@yahoo.com>
Sent: Tuesday, August 18, 2015 1:28 PM
To: Paul Harrison
Subject: Re: Mosquito Control report on aerial application on July 12, 2015

To Paul Harrison.

I wish to answer the first letter and as far as the report I believe that it could easily be a false negative.

1. The bees were not out there getting sprayed they visited the next day and got killed - so the toxin is going to be inbibed, not all over them.

2, The officier had to collect the bees himself for the tests to be "valid" Meanwhile even more time passed to cause toxin decay plus it rained. It washed all the dead bees laying on the ground.

3, I have never had such mass amount of dead bees before or since

4. I still think that spraying vast acres of blooming yellow clover is pollinator genocide whether it involved my bees or not. I think personally that is is morally wrong and extremely damaging to the environment.

5 All kinds of scare tactics re West Nile seem silly compared to rate of accidental deaths, Motor vehicle deaths etc for which next to nothing is done.le no gun control, seat belt law etc etc .

6. Tuleremia is a bad disease in humans - it is transmitted by rabbits and they have tested positive. Can the city now go about a mass extermination of rabbits?.

I am going to compose a longer essay to the council and will forward a copy to your committee .

While Im sure people will use these negative results to assure themselves that their actions are "just fine" and continue this mass murder I hope that EVENTUALLY people will realize they are trashing their own environment and damaging their own health with continued toxic organophosphate and so forth sprayed over thousands of acres.

And as I realize there is a fine line between raving lunacy and environmental concern and that which side of the line depends on the eye of the beholder: there is nothing I can do in this current situation until people understand what they are doing to the environment. There are a whole lot more life forms out there besides mosquitoes and these actions (dibrom) are devastating to them.

Thank you for keeping me in the loop.
Helen Coates

On Tuesday, August 18, 2015 12:52 PM, Paul Harrison <pharrison@cityoflaramie.org> wrote:

Hi Advisory Board members

As we discussed at last week's meeting, I have attached a PDF of the Mosquito Control report on aerial application on July 12, 2015 that was provided to Council from the pesticide/pollinator concerns raised by Helen Coats.

Please note that this issue will be a regular agenda item for the September 9, 2015 meeting with some alternatives and options for your consideration.

If you have any further questions or concerns, please let me know.

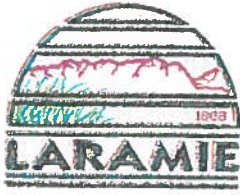
Thank you
Paul

Paul Harrison
Parks & Recreation Director
P.O. Box C
Laramie, WY 82070
ph: 307-721-5260
fax: 307-721-5284
cell: 307-760-6620

Any opinions, statements, advice, or recommendations contained in this email are my own and may not reflect those of The City of Laramie. All City of Laramie electronic correspondence and attachments may be treated as public records and may be subject to public disclosure.

ALL CITY OF LARAMIE ELECTRONIC CORRESPONDENCE AND ATTACHMENTS MAY BE TREATED AS PUBLIC RECORDS AND SUBJECT TO PUBLIC DISCLOSURE

ALL CITY OF LARAMIE ELECTRONIC CORRESPONDENCE AND ATTACHMENTS MAY BE TREATED AS PUBLIC RECORDS AND SUBJECT TO PUBLIC DISCLOSURE



CITY OF LARAMIE
Parks and Recreation
Mosquito control
P.O. BOX C
LARAMIE, WY 82073

Attachment 1

Office (307) 721-5258
Alternative (307) 721-5269
FAX (307) 721-5284
Hotline (307) 721-5056

2015 Mosquito Control Program Overview

INTRODUCTION

The Big Laramie and Little Laramie rivers flow unimpeded from the Snowy Range through a vast floodplain without any upstream storage systems. The lack of storage capability means that there is no way to detain or control seasonal flooding in our valley. It also means that local irrigators face a "use it or lose it" situation during the runoff season. They have no guarantee that water will be available at later dates in the summer to irrigate crops so the annual runoff is utilized to flood every available acre during the spring. This practice creates artificially high populations of floodwater mosquitoes. Land use in our control area is also restricted by elevation and a short growing season. Conditions at 7,200 ft. reduce the number of viable crops that can be produced. Native grasses make up the bulk of our agricultural products. This crop has a very small margin of profit and most of the hay produced is consumed by cattle in this region with some occasional export. This economic factor means that irrigators are not likely (or able financially) to invest in efficient irrigation systems that could evenly distribute water and alleviate the stagnant water created by flood irrigation. In light of these economic constraints, ranchers will continue to flood irrigate thousands of acres in the valley for the foreseeable future. This land use pattern repeats itself from owner to owner across the Laramie basin. The City of Laramie has negotiated with landowners and irrigators who control critical habitat in the immediate proximity to the City to assure access to these properties. In return for access and permission to control mosquitoes, the landowner receives free control services. Flood irrigation is the major producer of mosquitoes in the Laramie Valley. Many of these floodwater species have flight ranges that cover up to 20 miles.

FUNDING

Fees that fund mosquito control are collected under Chapter 13.52, Section 13.52.010, ordinance number 1275 of the Laramie Municipal Code and rates are set by the City Council. The current fee is \$2.57 per household, per month. The user fee currently generates approximately \$282,300 of the \$388,763 budgeted for mosquito control. Additional funding is provided through intergovernmental revenue. The Albany County Weed and Pest Board approves funding to augment the city program in the amount of \$40,000 annually. The Albany County Commissioners have contributed \$5,000 under a MOU to fund a surveillance technician to aid in assessing samples from rural districts. Emergency Insect Management Grants funded by the Wyoming Dept. of Agriculture annually contribute additional funding that is earmarked specifically for West Nile virus (WNV) prevention. The grant amount for 2015 is \$60,500. City general funds make up the remainder of the mosquito Control budget.

INTEGRATED PEST MANAGEMENT

The City of Laramie mosquito control program is an Integrated Pest Management Program (IPM), 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. IPM programs use

City of Laramie Program Description

pesticides, but only after a systematic monitoring of pest populations indicates that there is a need. All mosquito control products used within the United States fall under EPA guidelines and are evaluated for safety by EPA before being registered for use. The City of Laramie has chosen its pesticides based on several factors including: environmental impacts, cost, effective use in our cool climate, and citizen sensitivities.

The Mosquito Control Supervisor is responsible for day to day operation of the program during the season including: hiring and training seasonal staff, maintaining chemical inventory, overseeing chemical applications, maintaining records of all applications, coordinating and supervising any contractual aerial applicators, scheduling full time and seasonal staff, maintaining vehicle fleet and specialty equipment, specifying and ordering new equipment, maintaining shop facilities, maintaining the citizen hotline for all city chemical applications, and other duties as assigned by the Parks Manager. The Mosquito Control Supervisor is licensed by The State of Wyoming for commercial application of Public Health Pesticides and trained and certified by CDC for surveillance of mosquito borne diseases. Mosquito control staff consists of one Crew Supervisor and twelve seasonal technicians.

LARVAL SURVEILLANCE AND CONTROL

Larval surveillance and control work begins in April and continues throughout the summer. Larval control assesses approximately 70,000 acres of potential habitat in the Laramie River basin. Larviciding requires that technicians visit and survey each site to determine the number of larvae, and also the stage of development so that applications can be optimized. Currently over 2,000 breeding sites are cataloged for control in our area. Sites may be as small as a backyard fountain or as large as a 5,000-acre hay meadow. Most of these sites are outside the city limits and work goes unnoticed by citizens.

The larval control program uses mainly *Bacillus thuringiensis israelensis (Bti)* products. *Bti* is a bacterial biological control agent that kills mosquito larvae by disrupting their digestive system. It is specific to mosquitoes and black flies and has no toxicity to other aquatic life forms, making it a very environmentally friendly control method. *Bti* is the most cost effective method of control on irrigated areas where water is transient and few mosquito predators can live. *Bti* is applied in several forms to optimize control, depending on the habitat encountered. Liquid *Bti* is the most cost-effective form and can be applied from backpack sprayers, ATV Sprayers, truck mounted sprayers, or by aircraft over large open acreages. We utilize all of these methods depending on terrain and size of area to be treated.

Bti granules are used in some instances where tough brushy cover prohibits applying liquids directly to the water surface. These granules more readily penetrate the vegetative canopy and dissolve in water. *Bacillus sphaericus (Bs)* granules are also utilized specifically for control of *Culex tarsalis* larvae. *Bs* is another bacterial biological control agent that controls mosquito larvae by disrupting the digestive system of the larvae. *Bs* has residual action that can control larvae for extended periods of time. This feature makes it more efficient in the mostly permanent water habitats that *Culex tarsalis* mosquitoes prefer. The granular form is utilized because the water is often high in organic material and difficult to access with liquids.

City of Laramie Program Description

Other less used but important larval control methods include applications of larvacidal oil to control late fourth instar larvae and pupae. These stages of mosquito development are unaffected by *Bti* but can be controlled by using a surface film of biodegradable oil to suffocate the pre-emergent mosquitoes. Altosid briquettes are used to control larvae in areas where water sources are semi-permanent. Altosid is a synthetic hormone, which when placed in water, prevents mosquito larvae from completing normal development into biting adult mosquitoes.

Additionally, the program always looks for ways to eliminate mosquito-breeding habitat through education and cooperative ventures. In 2011-12 Mosquito Control initiated a project to eliminate an active breeding site within the City. The project used fill material to eliminate *Culex tarsalis* habitat in an abandoned basement.

ADULT MOSQUITO SURVEILLANCE AND CONTROL

The City utilizes thirteen New Jersey light traps and eleven CDC miniature light traps in permanent locations distributed throughout the city and in rural areas to monitor adult mosquito numbers. Portable CDC light traps are also used to investigate complaint areas and to assess new locations. Trap contents are collected five days a week and counted to keep accurate and timely information on population numbers, mosquito species present, and treatment needs. Technicians monitor the number and species of mosquitoes in our area from late May until freezing conditions kill adult mosquitoes or drive them into hibernation. Daily counts evaluate the total number of mosquitoes and prevalence of vector species. Decisions on where and when to apply adult mosquito control chemicals are based on this analysis. *Culex tarsalis* mosquitoes are culled from all traps and pooled for WNV detection using the Rapid Analyte Measurement Platform (RAMP). Positive RAMP samples are confirmed with RT-PCR at the Wyoming State Vet Lab.

Adult control within the city limits is managed by applying permethrin based adulticide from Ultra Low Volume (ULV) fogging units mounted in up to 4 trucks. Permethrin based insecticides have a different mode of action than our larval control agent and our rural adult mosquito control agent to minimize the likelihood of developing resistance. We find this material to be very effective calibrated at 8 ounces per minute and 10 mph ground speed. This rate of application is one-half of the label maximum. Two trucks apply Permethrin to one third of the city on an average shift. The third truck makes applications to recreational facilities and the Laramie River Greenbelt as needed. In 2010 an additional fogger was acquired to provide service to our citizens living in the Casper Aquifer Protection Overlay. Zenivex, a reduced risk pesticide, has been selected for use in this environmentally sensitive area. "NO SPRAY" service is available at citizen request. 122 homes participated in 2015. Trap counts normally trigger fogging applications from late June through mid-August.

Rural areas adjacent to the city limits are treated with Dibrom when thresholds are reached. Flood irrigated hayfields and irrigated pastures make up most of this high level reproductive habitat. Rural application is targeted to reduce the risk of WNV infection by controlling peak adult numbers and may be triggered by detection of WNV in the mosquito population or high vector mosquito counts. Dibrom is applied at the ULV rate of 1/2 oz. per acre. The West Nile Virus Plan also has provisions for aerial application of Biomist 4+4 over the City limits in the event of a Level 5 WNV outbreak. Rural applications are often triggered by trap counts between late June and late July.

AREA OF OPERATION

Our area of operation includes public and private lands within flight range of the town's center. See Attachment 1 (map) for boundary details. Efforts are maximized in the high mosquito production areas within those boundaries. Approximately 33,000 persons reside in the control area. Other nearby districts include: the Big Laramie Valley MCD to the southwest, the Little Laramie Valley MCD to the northwest, the Rock Creek MCD, and Town of Rock River in northern Albany County. Surveillance data including light trap collections from each of these districts have been gathered and analyzed through the City of Laramie Program in previous years to provide these districts with technical assistance including mosquito speciation and West Nile Virus detection with RAMP.

WEST NILE VIRUS

The introduction of West Nile Virus (WNV) has forced us to consider mosquito control not only for relief from nuisance mosquitoes, but also for the prevention of disease for the general population. The Laramie Valley is home to over 20 species of mosquitoes, including a small but significant population of the mosquito *Culex tarsalis*, a carrier of WNV. This mostly rural mosquito prefers to feed on birds but will bite mammals as well, including horses and humans. Mosquito control personnel will actively search for and treat larval habitats, but we must also plan for the possibility of an outbreak of WNV, which would require adult mosquito control applications. Avian, Equine, Human or Mosquito samples that test positive for West Nile Virus, could be the triggering mechanism to initiate this action. The levels of acceptable numbers of vector mosquitoes which could transmit WNV are lower than the acceptable numbers of nuisance mosquitoes when setting thresholds.

WNV can be a serious disease, but some sensible precautions in addition to mosquito control efforts can reduce the risk. The best prevention methods include wearing long pants and shirts and using insect repellents with 20% to 30% DEET concentrations for adults and 10% for children. Avoid cool shady areas in the daytime where mosquitoes may rest and avoid activity outdoors from dusk to dawn when *Culex tarsalis* mosquitoes are most active. Keep window screens in good repair and drain any standing water around your home, or call mosquito control to check any standing water that cannot be drained. Keep mosquito harborage areas to a minimum by keeping lawns cut weekly, cut tall weeds and prune shrubs to reduce shady areas where mosquitoes may find shelter during warm sunny days. Those who are most at risk for serious health consequences from this virus are persons over the age of 65. Most persons who are infected with this virus report no symptoms or mild flu like symptoms. Only a very few have serious illnesses associated with infection of WNV. WNV is especially hazardous to horses. Vaccination of horses is recommended, however the vaccine series takes up to 60 days to complete and the disease transmission season may begin before the vaccine is fully effective. Consult your veterinarian for further details.

ANALYSIS OF CONTROL MATERIALS

AERIAL MOSQUITO CONTROL ADULTICIDES

PRODUCT	ACTIVE	RATE	CHEMICAL COST / A	APP COST / A	TOTAL
1. EVOLUER	PERMETHRIN/ PBO	3 OZ./ ACRE	\$0.40	\$1.00	\$ 1.40
2. ANVIL 4+4	SUMITHRIN/ PBO	3OZ./ACRE	\$1.70	\$1.00	\$2.70
3. ZENIVEX	ETOFENPROX	3 OZ./ACRE	\$1.88	\$1.00	\$2.88
4. PYRENONE 5-25	PYRETHRIN	2.6 OZ./ACRE	\$4.03	\$ 1.00	\$5.03

Each of the products listed above are labeled for aerial Ultra Low Volume (ULV) application. These products are not well suited to aerial application. Evoluer, Anvil, Zenivex and Pyrenone are all pyrethrin/ permethrin based formulations which require light oils as a carrier, and have very low molecular weights. Droplets that are the correct size according to label directions tend to fall slowly and may drift off target or not reach the ground at all if applied in less than perfect weather conditions. These compounds are very well suited to ground based applications because of these qualities which allow them to remain suspended in air for a significant length of time.

1. DIBROM	NALED	½ OZ./ ACRE	\$ 0.67	\$0.82	\$1.49
2. FYFANON	MALATHION	3 OZ./ ACRE	\$0.82	\$1.30	\$2.12

In this second grouping, Malathion and Dibrom are much heavier compounds which require no carrier for application. These heavier molecules produce droplets in the correct size spectra which fall much more predictably in all weather conditions. These products have been selected for use for aerial applications in rural areas outside the City. Both of these compounds are Organophosphate insecticides.

In certain circumstances where citizen sensitivities or insecticide resistance in the mosquito population is a concern, the pyrethrin/ permethrin based formulations can be utilized as an alternative aerial mosquito control product. City of Laramie has chosen selected a permethrin based formulation for use in the case of a public health emergency where aerial applications would be made over the City to control mosquitoes that vector West Nile virus. These compounds are already in use in our ground based fogging program.

Aerial application costs vary between different products because of the amount of material that must be loaded and applied by the contractor. In essence higher volumes of chemical require more trips and

City of Laramie Program Description

more miles flown to apply the material, more trips to refill, and greater fuel costs.

Chemical costs vary widely based on the raw materials, formulation processes and demand. As an example: Natural pyrethrin is produced from chrysanthemum plants from Kenya and costs \$200 per gallon. Synthetically produced permethrin is designed to mimic pyrethrin and costs just \$16 per gallon.

Since 2011, aerial applications for adult mosquitoes have been delayed to a later time frame to insure that late season mosquitoes which can vector WNV are controlled. This shift in timing potentially leaves high nuisance populations untreated in the early summer season forcing reliance on urban fogging for control. This combination of changes did not significantly impact urban mosquito abundance in the 2012 and 2013 seasons due to normal and low snowpack's respectively. In 2014 and especially 2015, high runoff and a cool early summer season produced very high floodwater mosquito populations that caused concern and high rates of requests for service by citizens.

After 2011, City of Laramie has drastically reduced the number of acres treated to remain within budget. Larval control applications are a more environmentally friendly option, however there are not enough resources available to provide larval control to all the habitat within the flight range of our mosquito species. Without a basin wide, larval control effort there will always be a need for adult control aerial applications.

AERIAL LARVICIDE APPLICATIONS 2009-2015

<u>YEAR</u>	<u>TOTAL ACRES</u>	<u># OF APPLICATIONS</u>	<u>COST</u>	<u>PER ACRE</u>
2009	7272	2	\$30,425.00	\$4.18
2010	7026	3	\$37,142.00	\$5.28
2011	8256	2	\$40,326.00	\$4.88

2012	2880	1	\$27,918.00	\$9.69
2013	3046	1	\$28,790.00	\$9.45
2015	4400	1	\$42,674.00	\$9.69

The table above points out the increased cost for aerial application services that were caused by NPDES regulations that came into force in 2012. Costs per acre have doubled forcing larval control treatments to be cut by more than one-half to remain within budget.

The above listed larval control aerial applications were performed using liquid *Bacillus thuringiensis israelensis* (Bti). This formulation is the most cost effective form of Bti, but it can only be applied to irrigated pastures and hay meadows in early season before the grass crop becomes so tall that it blocks the material from reaching the water. Later season larval applications are possible using granular formulations of Bti. Application and chemical cost for this type of application are estimated at \$22 to \$27 per acre depending on the amount of chemical required. The aerial systems required for granular application are slightly more expensive to operate and the granular chemical is 4-5 times the cost of liquid.

ATTACHMENT 1

EQUIPMENT

Vehicles

2011 Chevrolet 1500 Silverado 4x4
2010 Ford F-150 4x4
2008 Ford F-250 4x4
2008 Ford Ranger 4x2
2006 GMC Sierra 2500 4x4 w/ 300 Warne tank
2013 Chevrolet 1500 Silverado 4x4

Trailers

2007 Maxey Sport-trail Custom, side load 2 place W/ 300 gallon tank/ Pump
2009 Big Tex rear load 2 place

Larval control equipment

2012 Polaris Sportsman 800 with power Maruyama granule Blower for *Bs.* and *Bti.*
2014 Polaris Sportsman 800 with 40 gal. Warne spray rig for liquid Bti applications
2014 Polaris Sportsman 800 with 40 gal. Warne spray rig for liquid Bti applications
2015 Polaris Sportsman 800 with 40 gal. Warne spray rig for liquid Bti applications

Fimco 12 volt dc broadcast spreader for Bti granules
5 Solo 4 gal. backpack sprayers for Liquid Bti applications
5 Solo 4 gal. backpack sprayers for GB1111 pupacide applications
6 Herd hand broadcast spreader/granulators for Bti granule applications
100 ga.l skid mount spray tank with 4hp gasoline pump and 250 ft. hose for liquid Bti
4 Miruyama backpack blower/mister for Bti granule application

Adult control equipment

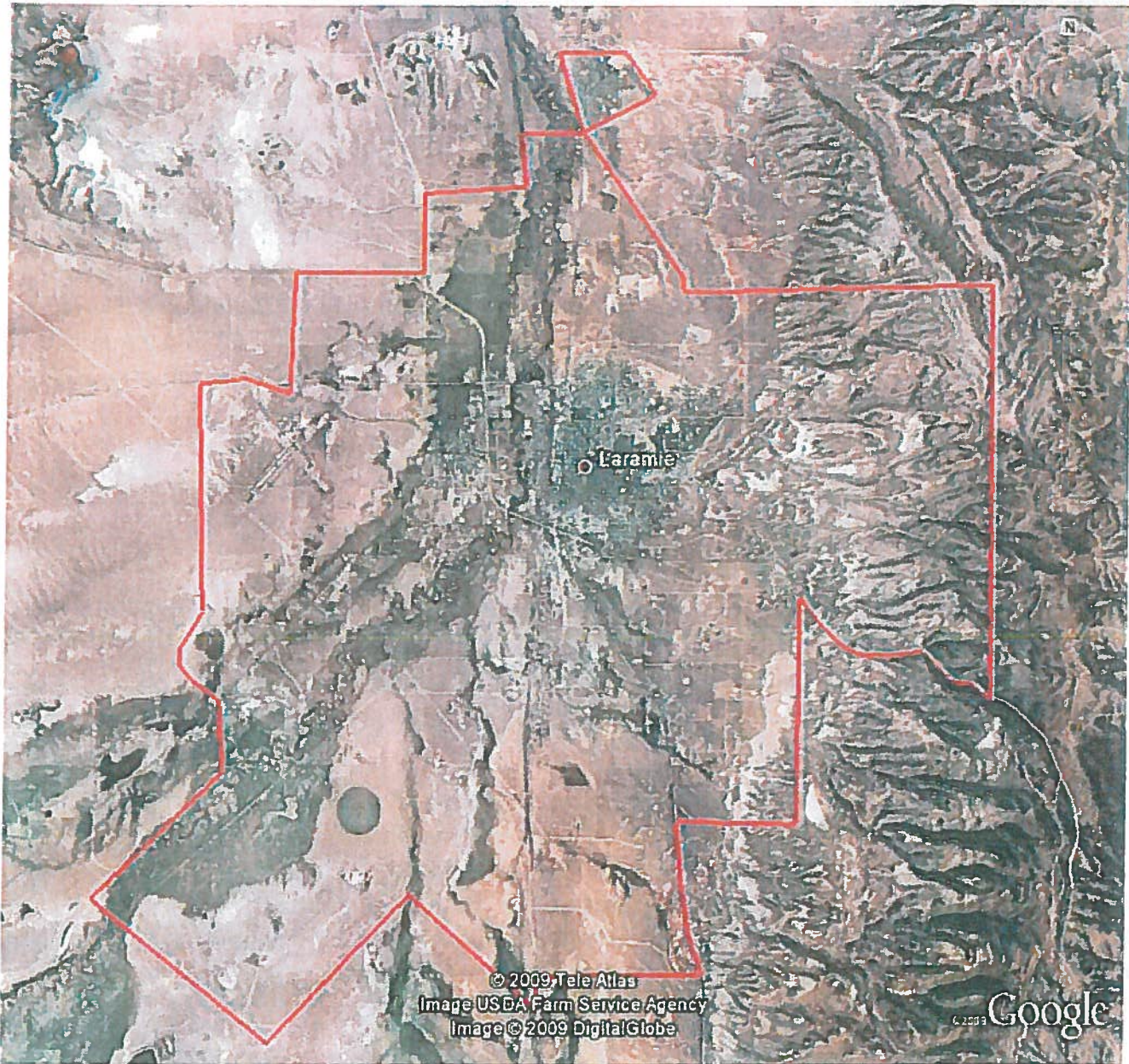
Clark Grizzly ULV fogger
4 Adapco Guardian 190 ES foggers with Monitor 4 GPS tracking
2011 KLD Labs DC-IV droplet analyzer

Surveillance equipment

4- 10" Samsung tablets W/ GPS and Adapco Geopro software
Adapco Geopro surveillance software / Data service
16 CDC Miniature incandescent light/C02 baited traps
14 New Jersey light traps
2 stereo zoom specimen microscopes (40x)
4 Reiter Gravid traps
RAMP (Rapid Analyte Measurement Platform) for virus detection in mosquitoes and birds
Sample preparation equipment; Vortexer, Centrifuge, Pipettors,

ATTACHMENT 2

CITY OF LARAMIE CONTROL AREA BOUNDARY



ATTACHMENT 3

Joint Statement on Mosquito Control in the United States from the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control and Prevention (CDC)

Mosquito-borne diseases are among the world's leading causes of illness and death today. The World Health Organization estimates that more than 300 million clinical cases each year are attributable to mosquito-borne illnesses. Despite great strides over the last 50 years, mosquito-borne illnesses continue to pose significant risks to parts of the population in the United States. Current challenges posed by the emergence of West Nile virus in the Western hemisphere illustrate the importance of cooperation and partnership at all levels of government to protect public health. The Environmental Protection Agency (EPA, the Agency) and the Centers for Disease Control and Prevention (CDC) are working closely with each other and with other federal, state, and local agencies to protect the public from mosquito-borne diseases such as the West Nile virus.

1. The Role of Government Agencies and the Public

CDC, working closely with state and local health departments, monitors the potential sources and outbreaks of mosquito-borne diseases and provides advice and consultation on prevention and control of these diseases. CDC works with a network of experts in human and veterinary medicine, entomology, epidemiology, zoology, and ecology to obtain quick and accurate information on emerging trends which they develop into national strategies that reduce the risk of disease transmission.

EPA ensures that state and local mosquito control departments have access to effective mosquito control tools that they can use without posing unreasonable risk to human health and the environment. EPA encourages nonchemical mosquito prevention efforts, such as eliminating standing water that provide breeding sites. The Agency educates the public through outreach efforts to encourage proper use of insect repellents and mosquitocides. Additionally, EPA's rigorous pesticide review process is designed to ensure that registered mosquitocides used according to label directions and precautions can further reduce disease-carrying mosquito populations.

State and local government agencies play a critical role in protecting public health from mosquito-borne diseases. They serve on the front line, providing information through their outreach programs to

City of Laramie Program Description

the medical and environmental surveillance networks that first identify possible outbreaks. They also manage the mosquito control programs that carry out prevention, public education and vector population management.

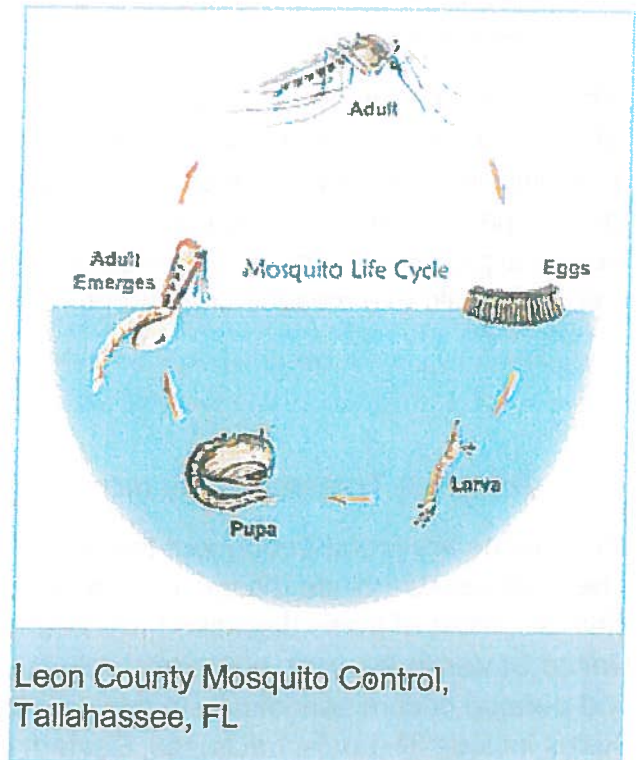
The public's role in eliminating potential breeding habitats for mosquitoes -- such as getting rid of any standing water around the home -- is a critical step in reducing the risk of mosquito-borne disease transmission. The public is also encouraged to make sure window screens and screen doors are in good repair. When venturing into areas with *high* mosquito populations, the public should wear personal protection such as long sleeve shirts and long pants, preferably treated with a repellent.. People should use mosquito repellents when necessary, and always follow label instructions.

2. Diseases Transmitted by mosquitoes

mosquitoes are found throughout the world and many transmit pathogens which may cause disease. These diseases include mosquito-borne viral encephalitis, dengue, yellow fever, malaria, and filariasis. Most of these diseases have been prominent as endemic or epidemic diseases in the United States in the past, but today, only the insect-borne (arboviral) encephalitides occur annually and dengue occurs periodically in this country. The major types of viral encephalitis in the United States include St. Louis, LaCrosse, Eastern equine and Western equine. These viruses are normally infections of birds or small mammals. During such infections, the level of the virus may increase in these infected animals facilitating transmission to humans by mosquitoes. The West Nile virus, which can also cause encephalitis, was found in the northeastern United States for the first time in 1999, is a good example of this mode of transmission. Human cases of encephalitis range from mild to very severe illnesses that, in a few cases, can be fatal. Dengue is a viral disease transmitted from person to person by mosquitoes. It is usually an acute, nonfatal disease, characterized by sudden onset of fever, headache, backache, joint pains, nausea, and vomiting. While most infections result in a mild illness, some may cause the severe forms of the disease. Dengue hemorrhagic fever, for example, is characterized by severe rash, nosebleeds, gastrointestinal bleeding and circulatory failure resulting in dengue shock syndrome and even death. Dengue is endemic in the Caribbean, Central and South America. Recently, dengue has occurred with increasing frequency in Texas. Other pathogens transmitted by mosquitoes include a protozoan parasite which causes malaria, and *Dirofilaria immitis*, a parasitic roundworm and the causative agent of dog heartworm. Disease carrying mosquito species are found throughout the U.S., especially in urban areas and coastal or in inland areas where flooding of low lands frequently occurs.

3. Mosquito Life Cycle

The life cycle of all mosquitoes consists of four distinct life stages: egg, larva, pupa and adult. The first three stages occur in water, but the adult is an active flying insect that feeds upon the blood of humans and/or animals. The female mosquito lays the eggs directly on water or on moist substrates that may be flooded with water. The egg later hatches into the larva, the elongated aquatic stage most commonly observed as it swims in the water. The larva transforms into the pupa where internal changes occur and the adult mosquito takes form. After two days to a week in the pupal stage, the adult mosquito emerges onto the water's surface and flies away. Only the female mosquito takes blood which they usually require for her eggs to develop.



The practice of mosquito control focuses on the unique biology and behavior of the mosquito species of concern. Mosquito biology can follow two general scenarios. The first involves those species that lay their eggs in masses or rafts on the water's surface. Some of these species, which are found throughout the U.S., often lay their eggs in natural or artificial water-holding containers found in the domestic environment, or in naturally occurring pools. The second scenario involves mosquitoes that lay their eggs on moist soil or other substrates in areas that will be flooded with water later. After about two days, these eggs are ready to hatch, but if not flooded, can withstand drying for months. In inland areas of the U.S. where these mosquitoes breed, heavy rains and flooding can produce millions of mosquitoes in a short time. Similar situations occur along coastal areas with mosquitoes adapted to salt marsh habitats. Some salt marsh mosquitoes are strong fliers and can sometimes travel up to 50 miles from the breeding site.

4. Mosquito Control Programs

In response to these potential disease carrying pests, communities organized the earliest mosquito control programs in the eastern U.S. in the early 1900s. Eventually, other communities created similar programs throughout the country in areas where mosquito problems occurred and where citizens demanded action by local officials. Modern mosquito control programs in the U.S. are multifaceted and include surveillance, source reduction, and a variety of larval and adult mosquito control strategies.

City of Laramie Program Description

Surveillance methods include studying habitats by air, aerial photographs, and topographic maps, and evaluating larval populations. Mosquito control officials also monitor mosquito traps, biting counts, and complaints and reports from the public. Mosquito control activities are initiated once established mosquito threshold populations are exceeded. Seasonal records are kept in concurrence with weather data to predict mosquito larval occurrence and adult flights. Some mosquito control programs conduct surveillance for diseases harbored by birds, including crows, other wild birds, sentinel chicken flocks, and for these diseases in mosquitoes.

Source reduction involves eliminating the habitat or modifying the aquatic habitat to prevent mosquitoes from breeding. This measure includes sanitation measures where artificial containers, including discarded automobile tires, which can become mosquito habitats, are collected and properly disposed. Habitat modification may also involve management of impounded water or open marshes to reduce production and survival of the flood water mosquitoes. If habitat modification is not feasible, biological control using fish may be possible. Mosquito control officials often apply biological or chemical *larvicides*, with selective action and moderate residual activity, to the aquatic habitats. To have the maximum impact on the mosquito population, larvicides are applied during those periods when immature stages are concentrated in the breeding sites and before the adult forms emerge and disperse.

Some mosquitoes can fly from flood plains, coastal marsh areas, or protected habitats to impact urban residential areas. In these cases, it is often necessary to apply pesticides to kill adult mosquitoes. Surveillance data may prompt insecticide applications when mosquitoes are abundant. Applications usually coincide with the maximum adult mosquito activity in urban residential areas.

To be successful, mosquito control officials must apply insecticides under proper environmental conditions (e.g., temperature and wind) and at the time of day when the target species is most active. They must also apply these pesticides with carefully calibrated equipment that generates the properly-sized insecticide droplets that will impinge on adult mosquitoes while they are at rest or flying. If the droplets are too large, they will fall to the ground. If they are too small, the prevailing winds will carry them away from the target area. Once the insecticide spray mist dissipates, they break down in the environment (generally within 24 hours) producing little residual effect. Depending on the situation, mosquito control officials may safely apply these insecticides from spray equipment mounted on trucks, airplanes or helicopters. All insecticides used in the U.S. for public health use have been approved and registered by the EPA following the review of many scientific studies. The EPA has assessed these chemicals and found that, when used according to label directions, they do not pose unreasonable risk to public health and the environment.

Mosquito control officials have also developed water management strategies that take advantage of opportunities to maximize the impact of indigenous natural enemies to eliminate immature mosquitoes. The EPA and CDC encourage the use of these practices wherever they are environmentally sound, effective, and reduce pesticide use.

5. Integrated Pest Management

Mosquito control activities are important to the public health, and responsibility for carrying out these programs rests with state and local governments. The federal government assists states in emergencies and provides training and consultation in vector and vector-borne disease problems when requested by the states. The current interests in ecology and environmental impact of mosquito control measures, and the increasing problems that have resulted from insecticide resistance emphasize the need for "integrated" control programs. EPA and CDC encourage maximum adherence to *integrated pest management* (IPM). IPM is an ecologically based strategy that relies heavily on natural mortality factors and seeks out control tactics that are compatible with or disrupt these factors as little as possible. IPM uses pesticides, but only after systematic monitoring of pest populations indicates a need. Ideally, an IPM program considers all available control actions, including no action, and evaluates the interaction among various control practices, cultural practices, weather, and habitat structure. This approach thus uses a combination of resource management techniques to control mosquito populations with decisions based on surveillance. Fish and game specialists and natural resources biologists should be involved in planning control measures whenever delicate ecosystems could be impacted by mosquito control practices.

The underlying philosophy of mosquito control is based on the fact that the greatest control impact on mosquito populations will occur when they are *concentrated, immobile* and *accessible*. This emphasis focuses on habitat management and controlling the immature stages before the mosquitoes emerge as adults. This policy reduces the need for widespread pesticide application in urban areas.

EPA and CDC recommend that professional mosquito control organizations throughout the U.S. continue to use IPM strategies. Both agencies recognize a legitimate and compelling need for the prudent use of space sprays, under certain circumstances, to control adult mosquitoes. This is especially true during periods of mosquito-borne disease transmission or when source reduction and larval control have failed or are not feasible.

6. Education

To be of maximum effectiveness, the people, for whom protection is provided, must understand and support mosquito control. An integral part of most organized mosquito control programs is public education. It is important that residents have a good understanding of mosquitoes, the benefits realized from their control and the role people have in preventing certain mosquito-borne diseases. Being aware of pesticide application times is also important for individuals so they may decide on precautions they may need to take. While this usually involves education of the public through announcements in the media, some control programs have staffs that develop and present educational programs in public schools. People who are informed about mosquito biology and controls are more likely to mosquito-proof their homes, and eliminate mosquito breeding places on their own property.

7. For More Information

For more information about mosquito control in your area, contact your state or local health department. The Centers for Disease Control and Prevention is a source of information on disease control, and their Internet web site includes a listing of state health departments.

To contact the *Centers for Disease Control and Prevention (CDC)*:

Telephone: 970-221-6400

Fax: 970-221-6476

E-mail: dvbid@cdc.gov

web site: <http://www.cdc.gov>

Information on pesticides used in mosquito control can be obtained from the state agency which regulates pesticides, or from the *National Pesticide Information Center (NPIC) West Nile Resource Guide* <http://ace.orst.edu/info/npic/wnv/>

National Pesticide Information Center

1-800-858-7378 - daily except holidays. Callers outside normal hours can leave a voice mail message.

E-mail: npic@ace.orst.edu

Web site: <http://npic.orst.edu/> EXIT Disclaimer

Information on mosquito control programs can also be obtained from the *American Mosquito Control Association (AMCA)* web site: <http://www.mosquito.org>. EXIT Disclaimer This site also lists many county mosquito agencies.

For more information regarding the federal pesticide regulatory programs, contact:

EPA Office of Pesticide Programs

Telephone: 703-305-5017

Fax: 703-305-5558

web site: <http://www.epa.gov/pesticides>

Attachment 2

City Of Laramie/Helen Coates

101-071315

Key for Exhibits:

COPY

1. Narrative
2. Notice of inspection statement and pictures printout she took (Helen Coates)
3. Notice of inspection statement with records (Keith Wardlaw)
4. Notice of Inspection and aerial map with sample location (Malcom Williams)
5. Plant Industry Sampling report
6. Sample chain of custody form
7. Sample diagnosis from the Wyoming Department of Agriculture Analytical Lab
8. Record of Climatological Observations
9. Email from Helen Coates with her concerns addressed to me
10. CD with photos

Contact information:

Helen Coates (bee keeper): 1214 W Hill Road Laramie, WY 82072 (307)399-1065

Keith Wardlaw, City of Laramie Supervisor: 1268 North 4th Street Road Laramie, WY 82072 (307)721-5258

David Schott, City of Laramie Supervisor: 1268 North 4th Street Road Laramie, WY 82072 (307)721-5258

Malcom Williams, Vector Disease Control: 1320 Brookwood drive, Suite H Little Rock AR 72202 (318)372-4073

Wyoming Department of Agriculture: (307)777-6959, 2219 Carey Ave. Cheyenne, WY 82001

Cindy Fulton (Lead Pesticide Inspector) (307)254-0180, Shane Howe Pesticide Inspector (307)777-6959

On 7/13/15: Helen Coates called the Wyoming Department of Agriculture and reported bees dying around her beehives. She suspected it was caused from a pesticide application done by the City of Laramie for mosquito control. During the conversation she informed me she had been notified by the City of Laramie of an application being done on 7/12/15. Coates requested I conduct a formal investigation into her allegations. Arrangements were made to meet at Ms. Coates residence at 8:30am on 7/14/15. I also received an email on this date from Keith Wardlaw indicating a possible complaint that may be coming into our office.

7/14/15: I met Helen Coates at her property at 8:30am. I presented my official credentials and had her sign a notice of inspection form, as well as fill out a statement of the incident. I took photos of the area around the bee hives and took a samples of her dying and dead bees. Ms. Coates also provided me with a printout of four pictures she had taken on 7/13/15. I had Coates review and sign all documents prepared.

Following the inspection, I drove over to the City of Laramie shop and met with Keith Wardlaw and David Schott. I presented my official credentials and had Mr. Wardlaw sign a Notice of Inspection form. Mr. Wardlaw produced maps

indicating where the pilots flew, as well as where the sprayer was turned on and turned off. Mr. Wardlaw indicated that they have a mosquito monitoring protocol with thresholds that trigger mosquito application schedules. Mr. Wardlaw stated he contacted Ms. Coates on the phone to notify her of the application due to her registered bee hives with the Wyoming Department of Agriculture. The City Of Laramie also put a notification of the application in the newspaper. I had Wardlaw review and sign all documents prepared.

I delivered the sample of bees to the Wyoming Department of Agriculture Analytical Lab.

On 7/15/15: I called Malcom Williams with Vector Disease Control to obtain a copy of the map of the aerial application that was done for the City of Laramie. This application record showed the coordinates of the beehives that are in question. I sent a Notice Of inspection in the mail referencing my request for the application records.

On 7/20/15: Ms. Coates emailed me listing concerns she had about the mosquito treatment application. Attached to the email was a copy of the Dibrom label and a scan of the newspaper clipping of the press release of the mosquito application

On 8/3/15: The results from the Wyoming Department of Agriculture Analytical Lab results came back negative indicating the chemical Naled, which is the active ingredient in the Dibrom® insecticide, was not detected in the dead bee sample.

Conclusion: All requirements were met for the label requirements by the City of Laramie. The label stipulations were followed by Vector Disease Control. We have found no violations on the mosquito control application that was contracted by the City of Laramie and applied by Vector Disease Control on 7/12/15.

NOTICE OF INSPECTION

Ins. No.	Date	Estab. No.
001	07/14/15	
002		
003		
004		
005		
006		
007		
008		
009		
010		
011		
012		
013		
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019		
020		

Facility Name: Helen Coates
 Address: 1214 W Hill Road
 City: Laramie WY Zip: 82072
 Facility Representative(s): Helen Coates
 Title: Bee Keeper
 Phone: (307) 399-1065

Reason for inspection: Entry by Consent: (X) Helen Coates Warrent: ()

1 To determine the extent of compliance with the above referenced law, which may require the collection of samples, documents, and/or photograph
 X Other (Specify) Complaint

- INSPECTION TYPE
- Ag Applicator
 - Non-Ag Applicator
 - Structural
 - Follow-up
 - Marketplace
 - Cert. Applicator Records
 - RUP Dealer Records
 - Producer Establishment
 - Experimental Use
 - Imports
 - Use
 - M44
 - Livestock Protection Collar
 - Label Review
 - Ornamental
 - Compliance Assistance
 - Worker Protection Standard
 - Regulatory Government
 - Other

REMARKS:
 City sprayed dibrom (Nalod) at 7/12 7pm over yellow dower w. town blossoms but winds wester 15mph. (mosquito control) Next day, where had been clean, by 1pm in front of mine many ± 400 dead bees - 7/13 & continues to die 7/14 Am.
 I use zero pesticides on flower/lawn/veggie's. Drone Bees Nest
 last Rx Bees Mite Strip in 2nd week May.
 No known other nearby use I know of.

SAMPLES COLLECTED:

- Violation Observed (see attached)
- No violations observed at this time
- Further review indicated to determine compliance.

Shane Howe
 Inspector

Helen Coates
 Facility Representative

Pesticide Incident / Complaint Report

Claimant Name Helen Coates Phone (307) 399-1065
 Address 1214 W Hill Road Date and Time _____
Laramie, WY 82072 of Incident _____

Date Department Notified 7/13/15 Date Damage Noticed 7/13/15

List Items Damaged and Symptoms:

about 400+ dead dying bees, continuous on 7/14 fly back + drop dead.

Location of Damage/Incident: (attach map, legal description):

Backyard Bee hives. 1214 W Hill

List all known information about the incident: (stage of growth, weather, discussions with applicator, other applications in the area, etc.)

Dibrom night before at 7pm with 15 mph w. wind. Next Day dead bees.

Person Allegedly Responsible: suspect City of Laramie. ??
 Address _____ Phone _____

Have you notified this person? yes Date 7/13/15

Reason for suspecting Pesticide damage and the above applicator:

Temporal Relationship between aerial spray + bee ki wind direction, blowing yellow cloud + toxicity of dibrom of time.

Pesticide Suspected: Name Dibrom (Daled) EPA# _____
 Manufacturer _____

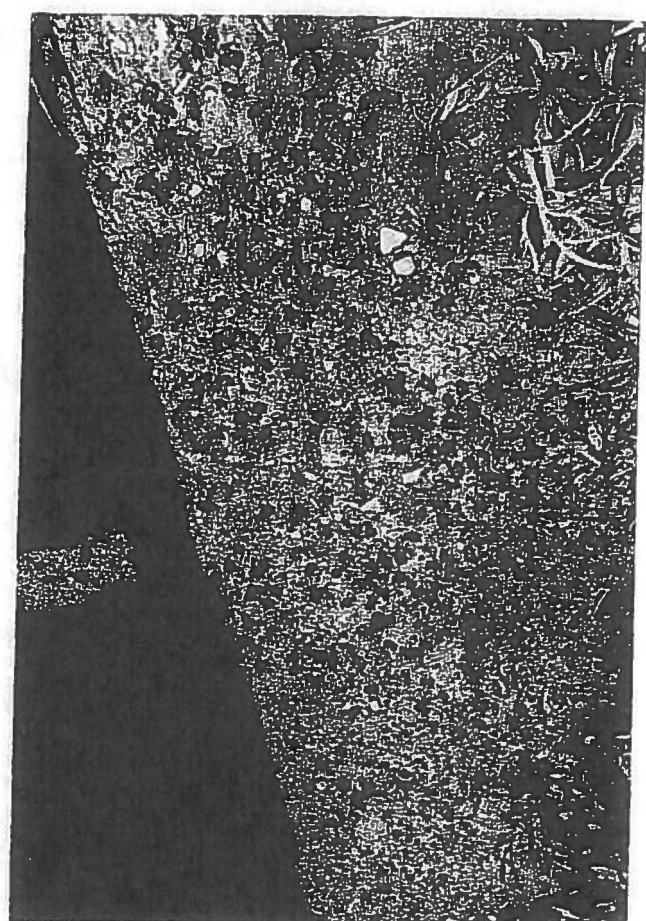
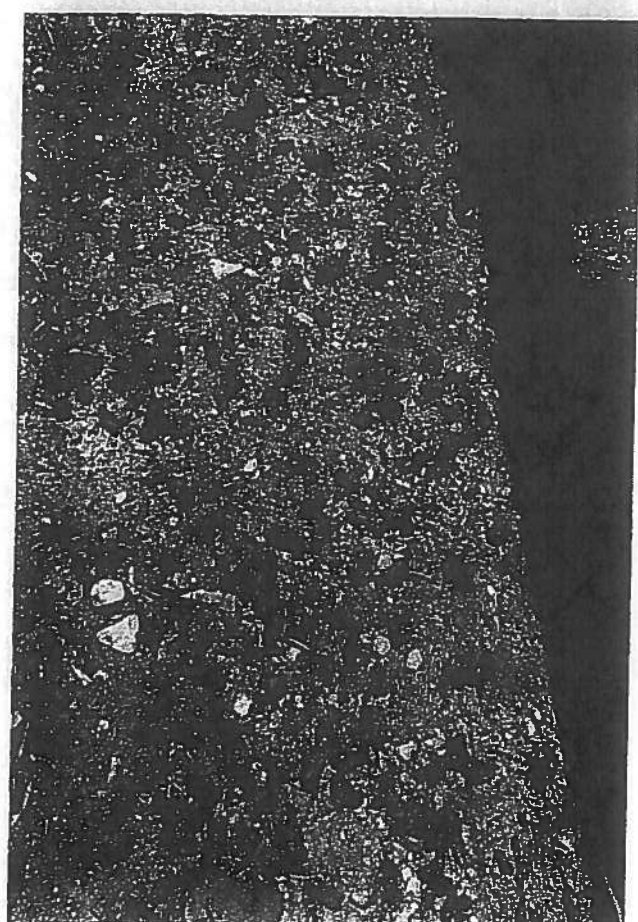
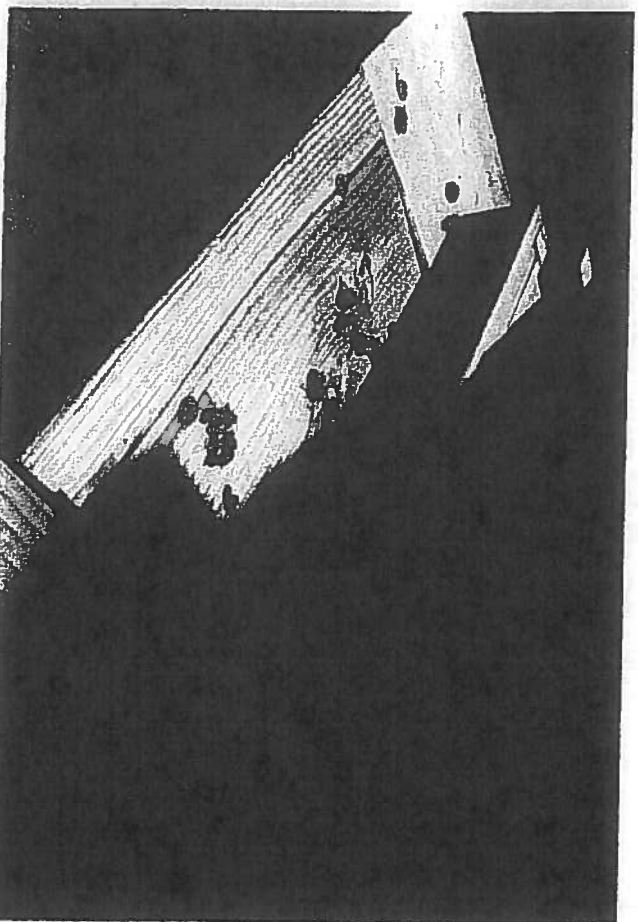
The above information is true and correct to the best of my knowledge.

Signature: [Signature] Date: 7/14/15

For Wyoming Department of Agriculture Use

Date Received _____	Date Reviewed _____	Date Closed _____
Complaint Type: <input type="checkbox"/> Accident <input type="checkbox"/> Misuse <input type="checkbox"/> Nonperformance <input type="checkbox"/> Drift <input type="checkbox"/> Off Target Pest <input type="checkbox"/> Other (Explain):		
<input type="checkbox"/> Notice Of Inspection Issued	<input type="checkbox"/> Human Exposure	
<input type="checkbox"/> Affidavit Completed	<input type="checkbox"/> Animal Exposure	
<input type="checkbox"/> Photographs Taken	<input type="checkbox"/> Environmental Exposure (water)	
<input type="checkbox"/> Incident/Complaint Report Received		
<input type="checkbox"/> Map Received		
<input type="checkbox"/> Samples Collected Sample Report Number: _____		
<input type="checkbox"/> Duplicate Samples Requested		
<input type="checkbox"/> Other Documentation (Explain):		
Inspector: <u>[Signature]</u>	Date: _____	

July 13 1pm
MDT



**Albany
County**



Laramie, Wyoming

Aerial Adulticide Application Date:
July 12, 2015



Flight Line

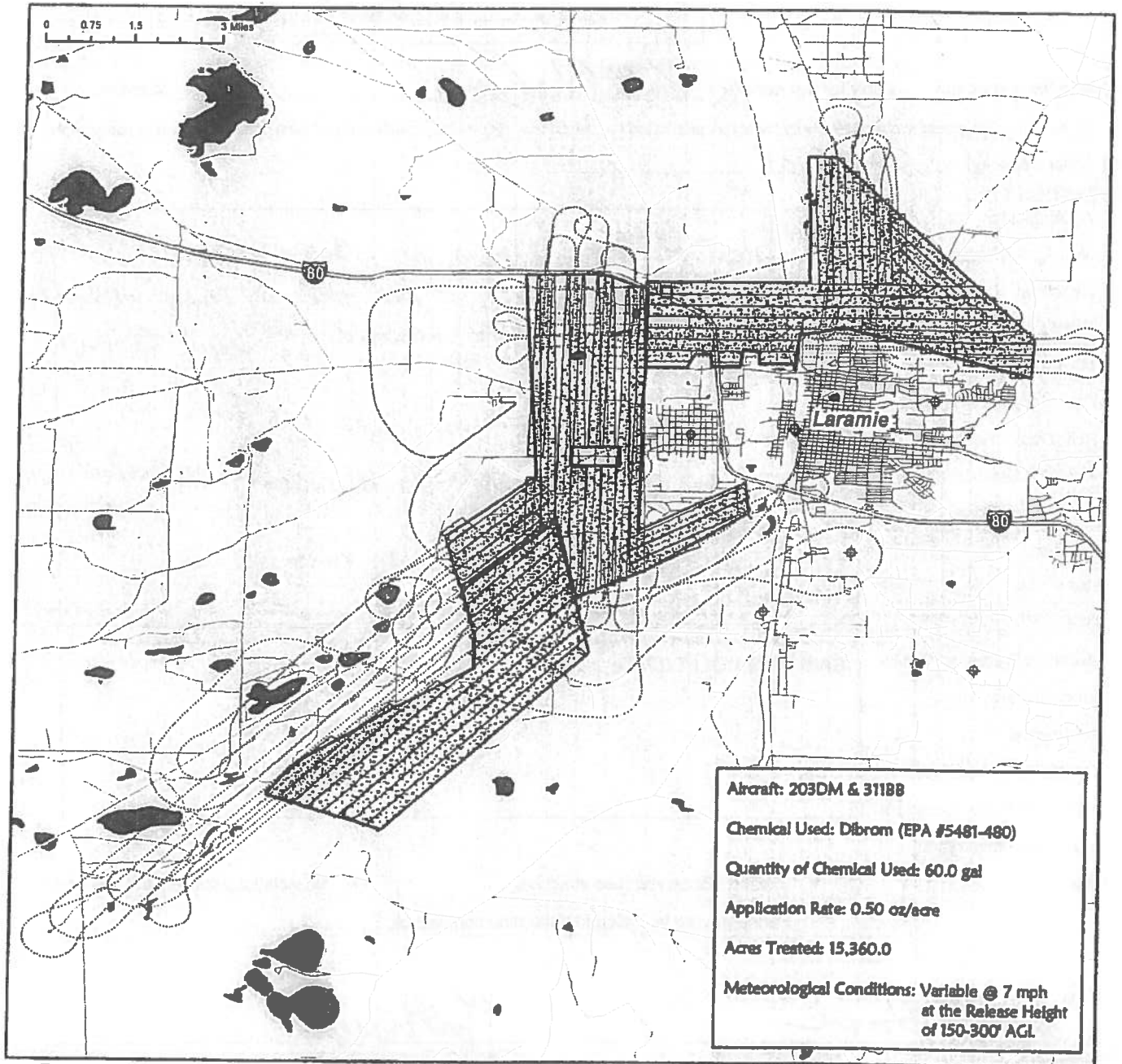
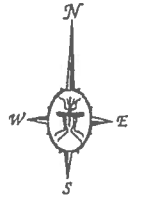
Sprayer Off ○

Sprayer On ○

Towers ⊕

Spray Disposition

Treatment Area



Aircraft: 203DM & 3118B
Chemical Used: Dibrom (EPA #5481-480)
Quantity of Chemical Used: 60.0 gal
Application Rate: 0.50 oz/acre
Acres Treated: 15,360.0
**Meteorological Conditions: Variable @ 7 mph
 at the Release Height
 of 150-300' AGL**



Vector Disease Control
1320 Brookwood Dr., Suite H
Little Rock, AR 72202

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Vector Disease Control International
Post-Application Report

	Laramie County, WY	Laramie County, WY	TOTALS Laramie County, WY
Customer	Laramie County, WY	Laramie County, WY	Laramie County, WY
Date	7/12/2015	7/12/2015	7/12/2015
Type of Aircraft	Piper Aztec	Piper Aztec	Piper Aztec
Registration # of Aircraft	203DM	311BB	203DM & 311BB
Type of Application	Adulticide	Adulticide	Adulticide
Spray Swath Width	1000'	1000'	1000'
Pilot	Robbie Allen (License #51208)	Dave Bratisford (License #52029)	Allen & Bratisford
Co-Pilot	Rozie Neilson	Cory Whitworth	Neilson & Whitworth
Treatment Area	Carrols & Airport West	Monolith & Airport West	Carrols, Monolith, & Airport West
Chemical Applied	Dibrom (EPA #5481-480)	Dibrom (EPA #5481-480)	Dibrom (EPA #5481-480)
Quantity (Gal)	30.0	30.0	60.0
Application Rate	0.50 oz/acre	0.50 oz/acre	0.50 oz/acre
Mix Ratio	N/A	N/A	N/A
Acres Treated	7,680.0	7,680.0	15,360.0
Time of Application Start	19:35	19:26	19:26
Time of Application End	20:25	20:24	20:25
Aircraft Indicated Speed	150 kts	150 kts	150 kts
Release Altitude	150-300'	150-300'	150-300'
Wind speed	7 mph	7 mph	7 mph
Wind direction	250	270	Variable
Temperature/Dew Pt	75F/35F	75F/35F	75F/35F

NOTICE OF INSPECTION

Ins. No.	Date	Estab. No.
071515		

Facility Name: Vector Disease Control
Address: PO Box 216
City: Oak Ridge LA Zip: 71264
Facility Representative(s): Malcolm Williams
Title: Lead Pilot
Phone: 318 372 4073

Reason for inspection: Entry by Consent: Malcolm Williams Warrent: ()

To determine the extent of compliance with the above referenced law, which may require the collection of samples, documents, and/or photograph

Other (Specify) Complaint

INSPECTION TYPE

- Ag Applicator
- Non-Ag Applicator
- Structural
- Follow-up
- Marketplace
- Cert. Applicator Records
- RUP Dealer Records
- Producer Establishment
- Experimental Use
- Imports
- Use
- M44
- Livestock Protection Collar
- Label Review
- Ornamental
- Compliance Assistance
- Worker Protection Standard
- Regulatory Government
- Other

REMARKS: They provided a map of the area sprayed along with the location of the beehives.

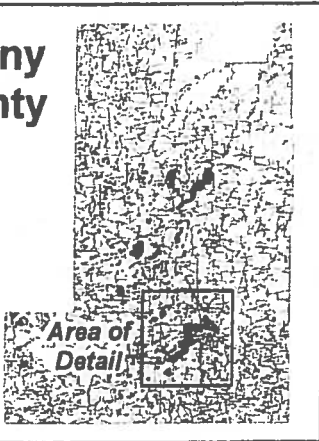
SAMPLES COLLECTED:

- Violation Observed (see attached)
- Further review indicated to determine compliance.
- No violations observed at this time

Shane Howe
Inspector

Malcolm Williams
Facility Representative

**Albany
County**



Laramie, Wyoming

Aerial Adulticide Application Date:
July 12, 2015



Flight Line

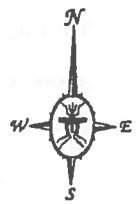
Sprayer Off

Sprayer On

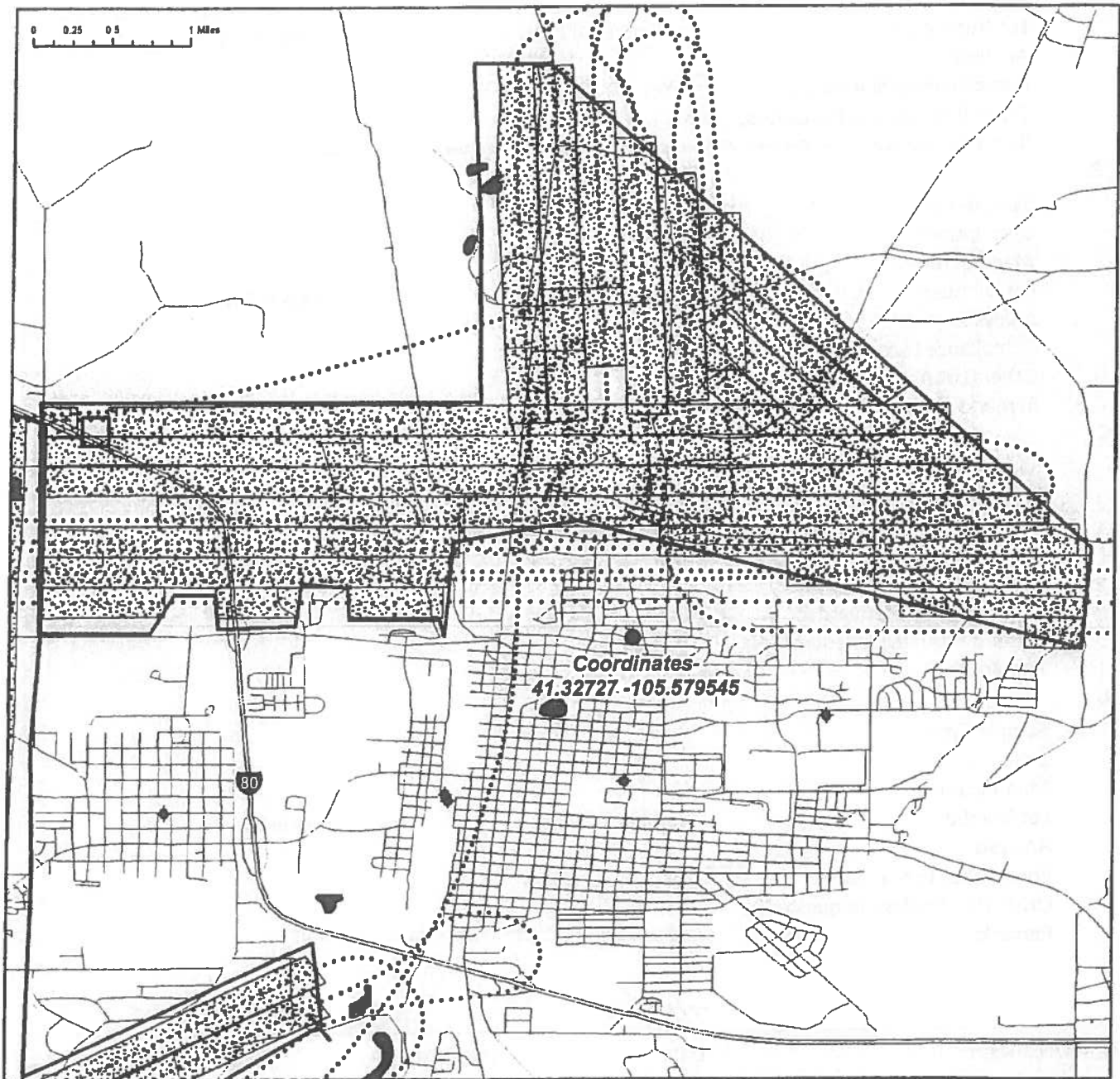
Towers

Spray Disposition

Treatment Area



0 0.25 0.5 1 Miles



Coordinates-
41.32727 -105.579545



Vector Disease Control
1320 Brookwood Dr., Suite H
Little Rock, AR 72202

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Plant Industry Sampling Report

Inspector: Shane Howe

Date: 7/14/15

Establishment Number: Howe101

Establishment: Howe 101

Sample Number: 101-071315

Address: 2219 Carey Ave.

City: Cheyenne

Zip: 82002

A.

Sample Type Pesticides

Description: bees

Manufacturer: NA

Lot Number: 1

Number of Bags: 1

Bags in Lot: 1

Analysis:

Compliance to Standards? Yes No

Other (List Analysis Requested): residue

Remarks: Complaint (Dibrom EPA#5481-480) active:Naled(1,2-dibromo-2,2-dichloroethyl dimethyl phosphate)

B.

Sample Type

Description:

Manufacturer:

Lot Number:

Number of Bags:

Bags in Lot:

Analysis:

Compliance to Standards? Yes No

Other (List Analysis Requested):

Remarks:

C.

Sample Type

Description:

Manufacturer:

Lot Number:

Number of Bags:

Bags in Lot:

Analysis:

Compliance to Standards? Yes No

Other (List Analysis Requested):

Remarks:

D.

Sample Type

Description:

Manufacturer:

Lot Number:

Number of Bags:

Bags in Lot:

Analysis:

Compliance to Standards? Yes No

Other (List Analysis Requested):

Remarks:

Owner/Manager

7/14/15
Date

Shane Howe
Inspector



Chain of Custody Form

The sample(s) described below were obtained as evidence by the undersigned during an official investigation of the:		
Description of Sample: Jar of Bees		
Obtained from: (title, name, location, phone number) Shane Howe Inspector Cheyenne 307 399 4389		
Printed name of investigator: Shane Howe	Signature of Investigator: <i>Shane Howe</i>	Date Obtained: 7/14/15
Case Number: 101-071315		
Temporary disposition of sample(s): (where stored) NA		
Released by: (printed name and signature) Shane Howe <i>Shane Howe</i>	Released to: (printed name and signature) Veronica Giustino <i>Veronica Giustino</i>	Date: 11:00 a.m. 7/14/15
Temporary disposition of sample(s): (where stored) WDA Lab		
Released by: (printed name and signature)	Released to: (printed name and signature)	Date:
Temporary disposition of sample(s): (where stored)		
Released by: (printed name and signature)	Released to: (printed name and signature)	Date:
Temporary disposition of sample(s): (where stored)		
Released by: (printed name and signature)	Released to: (printed name and signature)	Date:
Temporary disposition of sample(s): (where stored)		
Released by: (printed name and signature)	Released to: (printed name and signature)	Date:
Temporary disposition of sample(s): (where stored)		
Released by: (printed name and signature)	Released to: (printed name and signature)	Date:

**WYOMING DEPARTMENT OF AGRICULTURE
ANALYTICAL SERVICES**

1174 Snowy Range Road, Laramie, WY 82070

Phone: (307) 742-2984



Internet: <http://wyagric.state.wy.us/divisions/asl>

E-mail: analytical.lab@wyo.gov

Shane Howe 2219 Carey Avenue Cheyenne, WY. 82002 Phone : 307-777-6573 Email : Shane.Howe@wyo.gov	WDA Identification : 101-071315 Sample ID : AA09692 Date Collected : 07/14/2015 Date Received : 07/14/2015 Date Validated : 08/03/2015 Sample Description : Jar Of Bees
--	--

Retailer	Manufacturer
Shane Howe 2219 Carey Avenue Cheyenne, WY. 82002	NA NA NA Lot Number : 1

Analyte	Method	Units	Results	Comments	Analyst Date Completed
Special analyses			2	Dibrom None Detected Dichlorvos None Detected	C JESSE 08/03/2015

Sample Comments :

Sample Number: AA09692

101-071315

Page 1 of 1

I hereby certify that the above sample was analyzed by myself or my analyst.

T JARVIS

08/03/2015

Printed: 8/3/2015 16:12 Mountain Standard Time,42

Supervisor

Date

Record of Climatological Observations
 These data are quality controlled and may not be
 identical to the original observations.
 Generated on 08/06/2015

Observation Time Temperature: 2400 Observation Time Precipitation: Unknown

P r e l i m i n a r y	Y e a r	M o n t h	D a y	Temperature (F)		at O b s e r v a t i o n	Precipitation(see **)			Evaporation		4 in depth		8 in depth				
				24 hrs. ending at observation time	Min.		Rain, melted snow, etc. (in)	F l a g	Snow, ice pellets, hail (in)	F l a g	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
	2015	7	1	84	50	67												
	2015	7	2			59												
	2015	7	3	80	58	68												
	2015	7	4	82	48	72												
	2015	7	5	85	54	76												
	2015	7	6	80	55	55												
	2015	7	7	63	52	58												
	2015	7	8	67	52	55												
	2015	7	9		48	81												
	2015	7	10	70	47	64												
	2015	7	11	73	51	67												
	2015	7	12	75	49	70												
	2015	7	13	79	52	69												
	2015	7	14	81	49	71												
	2015	7	15	77	49	66												
	2015	7	16	75	51	69												
	2015	7	17	78	47	72												
	2015	7	18	78	47	67												
	2015	7	19	76	45	63												
	2015	7	20	73	48	67												
	2015	7	21	78	39	64												
	2015	7	22	69s	53	71s												
	2015	7	23	78	48	73												
	2015	7	24	81	45	73												
	2015	7	25	65s	60	74												
	2015	7	26	82	51	75												
	2015	7	27	85	44	75												
	2015	7	28	83	49	63												
	2015	7	29	74	41	66												
	2015	7	30	78	40	69												
	2015	7	31	82														
			Summary	76.9	49.0		0									0		

The "" flags in Preliminary indicate the data have not completed processing and quality control and may not be identical to the original observation. Empty, or blank, cells indicate that a data observation was not reported.
 *Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 9=Unknown
 **g This data value failed one of NCDC's quality control tests.
 *T values in the Precipitation category above indicate a TRACE value was recorded.
 *A values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.
 Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard Imperial units.

Select month and year:

July

2015

Show

Date	Sun				Twilight					
	Sunrise	Sunset	Solar Noon	Day Length	Civil		Nautical		Astronomical	
					Begin	End	Begin	End	Begin	End
Wednesday, July 1	5:33 AM	8:39 PM	1:06 PM	15h 6m 9s	4:59 AM	9:13 PM	4:16 AM	9:56 PM	3:25 AM	10:47 PM
Thursday, July 2	5:33 AM	8:39 PM	1:06 PM	15h 5m 26s	5:00 AM	9:12 PM	4:17 AM	9:55 PM	3:26 AM	10:46 PM
Friday, July 3	5:34 AM	8:39 PM	1:06 PM	15h 4m 40s	5:00 AM	9:12 PM	4:18 AM	9:55 PM	3:27 AM	10:45 PM
Saturday, July 4	5:35 AM	8:38 PM	1:06 PM	15h 3m 50s	5:01 AM	9:12 PM	4:18 AM	9:54 PM	3:28 AM	10:45 PM
Sunday, July 5	5:35 AM	8:38 PM	1:07 PM	15h 2m 57s	5:02 AM	9:11 PM	4:19 AM	9:54 PM	3:29 AM	10:44 PM
Monday, July 6	5:36 AM	8:38 PM	1:07 PM	15h 2m 1s	5:02 AM	9:11 PM	4:20 AM	9:54 PM	3:30 AM	10:44 PM
Tuesday, July 7	5:36 AM	8:37 PM	1:07 PM	15h 1m 2s	5:03 AM	9:11 PM	4:21 AM	9:53 PM	3:31 AM	10:43 PM
Wednesday, July 8	5:37 AM	8:37 PM	1:07 PM	14h 59m 58s	5:04 AM	9:10 PM	4:22 AM	9:52 PM	3:32 AM	10:42 PM
Thursday, July 9	5:38 AM	8:37 PM	1:07 PM	14h 58m 53s	5:05 AM	9:10 PM	4:23 AM	9:52 PM	3:33 AM	10:41 PM
Friday, July 10	5:38 AM	8:36 PM	1:07 PM	14h 57m 43s	5:05 AM	9:09 PM	4:23 AM	9:51 PM	3:34 AM	10:40 PM
Saturday, July 11	5:39 AM	8:36 PM	1:07 PM	14h 56m 30s	5:06 AM	9:09 PM	4:24 AM	9:51 PM	3:36 AM	10:39 PM
Sunday, July 12	5:40 AM	8:35 PM	1:08 PM	14h 55m 14s	5:07 AM	9:08 PM	4:25 AM	9:50 PM	3:37 AM	10:38 PM
Monday, July 13	5:41 AM	8:35 PM	1:08 PM	14h 53m 56s	5:08 AM	9:07 PM	4:26 AM	9:49 PM	3:38 AM	10:37 PM
Tuesday, July 14	5:42 AM	8:34 PM	1:08 PM	14h 52m 34s	5:09 AM	9:07 PM	4:27 AM	9:48 PM	3:40 AM	10:36 PM
Wednesday, July 15	5:42 AM	8:34 PM	1:08 PM	14h 51m 9s	5:10 AM	9:06 PM	4:28 AM	9:47 PM	3:41 AM	10:35 PM
Thursday, July 16	5:43 AM	8:33 PM	1:08 PM	14h 49m 41s	5:11 AM	9:05 PM	4:30 AM	9:46 PM	3:42 AM	10:34 PM
Friday, July 17	5:44 AM	8:32 PM	1:08 PM	14h 48m 11s	5:12 AM	9:05 PM	4:31 AM	9:46 PM	3:44 AM	10:33 PM
Saturday, July 18	5:45 AM	8:31 PM	1:08 PM	14h 46m 37s	5:13 AM	9:04 PM	4:32 AM	9:45 PM	3:45 AM	10:31 PM
Sunday, July 19	5:46 AM	8:31 PM	1:08 PM	14h 45m 1s	5:13 AM	9:03 PM	4:33 AM	9:44 PM	3:46 AM	10:30 PM
Monday, July 20	5:47 AM	8:30 PM	1:08 PM	14h 43m 23s	5:14 AM	9:02 PM	4:34 AM	9:43 PM	3:48 AM	10:29 PM
Tuesday, July 21	5:47 AM	8:29 PM	1:08 PM	14h 41m 42s	5:15 AM	9:01 PM	4:35 AM	9:41 PM	3:49 AM	10:27 PM
Wednesday, July 22	5:48 AM	8:28 PM	1:08 PM	14h 39m 58s	5:16 AM	9:00 PM	4:36 AM	9:40 PM	3:51 AM	10:26 PM
Thursday, July 23	5:49 AM	8:27 PM	1:08 PM	14h 38m 12s	5:17 AM	8:59 PM	4:38 AM	9:39 PM	3:52 AM	10:24 PM
Friday, July 24	5:50 AM	8:27 PM	1:08 PM	14h 36m 24s	5:18 AM	8:58 PM	4:39 AM	9:38 PM	3:54 AM	10:23 PM
Saturday, July 25	5:51 AM	8:26 PM	1:08 PM	14h 34m 33s	5:19 AM	8:57 PM	4:40 AM	9:37 PM	3:55 AM	10:21 PM
Sunday, July 26	5:52 AM	8:25 PM	1:08 PM	14h 32m 41s	5:21 AM	8:56 PM	4:41 AM	9:36 PM	3:57 AM	10:20 PM
Monday, July 27	5:53 AM	8:24 PM	1:08 PM	14h 30m 45s	5:22 AM	8:55 PM	4:42 AM	9:34 PM	3:58 AM	10:18 PM
Tuesday, July 28	5:54 AM	8:23 PM	1:08 PM	14h 28m 48s	5:23 AM	8:54 PM	4:44 AM	9:33 PM	4:00 AM	10:17 PM
Wednesday, July 29	5:55 AM	8:22 PM	1:08 PM	14h 26m 48s	5:24 AM	8:53 PM	4:45 AM	9:32 PM	4:01 AM	10:15 PM
Thursday, July 30	5:56 AM	8:21 PM	1:08 PM	14h 24m 47s	5:25 AM	8:52 PM	4:46 AM	9:30 PM	4:03 AM	10:14 PM
Friday, July 31	5:57 AM	8:20 PM	1:08 PM	14h 22m 44s	5:26 AM	8:51 PM	4:47 AM	9:29 PM	4:05 AM	10:12 PM

Wyoming Department of Agriculture

Case number 101-071315

[Helen Coates email to Shane Howe on 7/20/15]

Shane Howe
Inspector II

The following email was not replied to because of the status of the investigation of this case. The answers to her questions in the email are in this case file.



Shane Howe <shane.howe@wyo.gov>

Mosquito spraying in Laramie

1 message

Helen Coates <free2hike09@yahoo.com>
Reply-To: Helen Coates <free2hike09@yahoo.com>
To: "shane.howe@wyo.gov" <shane.howe@wyo.gov>

Mon, Jul 20, 2015 at 6:59 PM

To Shane

On sunday July 10 a corporation associated with the city of laramie, called " Big Laramie Mosquito Control Corporation" sprayed approx 15,000 acres in the laramie valley with Dibrom

This spraying covered wetlands and large amounts of blooming yellow clover.

ALL TESTS for the presence of West nile virus have been negative. There were few mosquitos in town. Neverthe less starting at 7pm (sunset was 8:35 pm) they sprayed the flowering yellow clover and wetands and more.

The product label says " this pesticide is highly toxic to fish, aquatic invertebrates and wildlife " " do not apply over bodies of water"

Also " this producy is highly toxic to bees exposed to direct treatment on blooming crops or weeds.do not apply less than 2 hours before sunset. " except to control a threat to public health - which CLEARLY there was NOT.

On monday am my bees were fine but by 1pm the ground in front of hives was littered with dead bees and they were still dropping dead on return on tuesday when you saw them.

My own garden is NOT treated with any kind of insecticides and the bees have not had any mite treament since 5/4/15

May 4 2015. drone boards do Not show presence of any mites.

My concerns. 1. This corporation is operating in an evironmentally neglectful way.
2. Despite zero west Nile and minimal mosquitos they drenched 15,000 acres in an highly toxic and environmentally hazardous compound with apparent almost total disregard for other living things such as bees on the flowering clover then and next day . It does NOT dissappear overnight.

3. This mosquito control operation is NOT operating within best practices andcertainly not environmentally.

My questions are : is this legal ??
and what can be done if anything.?

Thank you
Helen Coates

attached is dibrom label and newspaper clipping

2 attachments

 **Dibrom-Label.pdf**
219K

 **Scan0001.pdf**
628K

RESTRICTED USE PESTICIDE
DUE TO EYE AND SKIN CORROSIVITY HAZARD
 For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicators Certification.

DIBROM® CONCENTRATE

INSECTICIDE

FOR USE ONLY BY FEDERAL, STATE, TRIBAL, OR LOCAL GOVERNMENT OFFICIALS RESPONSIBLE FOR PUBLIC HEALTH OR VECTOR CONTROL, OR BY PERSONS CERTIFIED IN THE APPROPRIATE CATEGORY OR OTHERWISE AUTHORIZED BY THE STATE OR TRIBAL LEAD PESTICIDE REGULATORY AGENCY TO PERFORM ADULT MOSQUITO CONTROL APPLICATIONS, OR BY PERSONS UNDER THEIR DIRECT SUPERVISION, NOT FOR USE IN AND AROUND THE HOME BY HOMEOWNERS OR PROFESSIONAL APPLICATORS.

ACTIVE INGREDIENT:
 Naled (1,2-dibromo-2,2-dichloroethyl dimethyl phosphate) 87.4%
INERT INGREDIENTS: 12.6%
TOTAL: 100.0%
 Contains 13.2 pounds Naled per gallon.
 Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

ANGER / PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID Organophosphate	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently from the side of the eye with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
If Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth unless individual is contaminated with product. • Call a poison control center or doctor for further treatment advice.
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
Transportation Only: CHEMTREC.....1-800-424-9300	
All Other: AMVAC.....1-323-264-3910	

NOTE TO PHYSICIAN

Naled is an organophosphate cholinesterase inhibitor. Contains petroleum distillates. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (Protopam) is also antidotal and may be used in conjunction with atropine, but should not be used alone. Probable mucosal damage may contraindicate the use of gastric lavage. May pose an aspiration/pneumonia hazard.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER. CORROSIVE. Causes irreversible eye and skin damage. Causes skin burns. May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
 Some materials that are chemical-resistant to this product are Barrier laminate, Butyl Rubber, Nitrile Rubber, and Viton.

Mixers, loaders, and other handlers must wear:

- Protective eye wear (goggles, face shield, or safety glasses)
- Long-sleeved shirt and long pants
- Socks plus shoes
- Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber, or viton, selection category E) and apron when mixing or loading

See engineering controls for additional requirements.

In addition, mixers and loaders must:

- Have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown the PPE specified above for handlers engaged in those activities for which use of an engineering control is not possible

Mixers, loaders, applicators and other handlers engaged in those handler activities for which use of an engineering control is not possible, such as cleaning up a spill or leak and cleaning or repairing contaminated equipment, must wear:

- Protective eye wear (goggles, face shield, or safety glasses)
- Coveralls over long-sleeve shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant apron if exposed to the concentrate
- Chemical-resistant headgear for overhead exposure
- A respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23G), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter. Please note that N designation for respirator filters does not apply when application is made with oils.

USER SAFETY REQUIREMENTS

- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water.
- Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENGINEERING CONTROLS

- Mixers and loaders supporting aerial or mechanical ground applications must use a closed system designed by the manufacturer to enclose the pesticide to prevent it from contacting handler or other people AND the system must be functioning properly and must be used and maintained in accordance with the manufacturer's written operating instructions.
- The system must be capable of removing the pesticide from the shipping container and transferring it into mixing tanks and/or application equipment.
- At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that is warranted by the manufacturer to minimize drippage to not more than 2 mL per disconnect point.

Applicators must

- Use an enclosed cab/cockpit. Wearing specified PPE (e.g., chemical resistant gloves) within an enclosed cab/cockpit is not required.
- Be provided and have immediately available for use in case of an emergency repair of the application equipment, the PPE specified in the PPE section of this labeling for handlers engaged in those activities for which use of an engineering control is not possible.
- Take off any PPE that was contaminated before entering or reentering the cab/cockpit.
- Store all such PPE in a closed, chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab/cockpit.

In addition, motorized ground-equipment applicators must:

- Use an enclosed cab with a nonporous barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. The cab must either have a properly functioning ventilation system that is used and maintained according to the manufacturer's written operating instructions and is declared in writing by the manufacturer or by a governmental agency to provide at least as much protection as the type of respirator listed in the PPE section above or the occupant must wear a respirator as specified in the PPE section above.

EPA REG. NO. 5481-480
 EPA EST. NO. 5481-CA-1
 EPA EST. NO. 5481-AL-1

NET CONTENTS:
 AS MARKED ON CONTAINER

AMVAC
 4100 E. Washington Blvd.
 Los Angeles, CA 90023, USA
 1-323-264-3910

11119-6

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

It is recommended that any worker displaying clinical signs of cholinesterase-inhibition, such as headaches, nausea, and dizziness have an immediate physical examination including appropriate cholinesterase measurements. If initial examination was not conducted by a board-certified person who is certified in occupational health, then a separate examination should be conducted within 24 hours by a person so certified.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and wildlife. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Before making the first application in a season, consult with the primary State agency responsible for regulating the pesticides to determine if permits are required or regulatory mandates exist. Do not apply over bodies of water (e.g., lakes, swamps, rivers, permanent streams, natural ponds, commercial fish ponds, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment washwaters or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. To minimize hazard to bees, it is recommended that the product is not applied more than two hours after sunrise or two hours before sunset, limiting application to times when bees are least active. Do not apply this product or allow it to drift to blooming crops or weeds while bees are visiting the treatment area, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or the tribe during a natural disaster recovery effort.

DIRECTIONS FOR USE

Before making the first application of the season, consult with the primary State agency responsible for regulating the use of pesticides to determine if permits are required or regulatory mandates exist.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. **READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product shall be the exclusive risk of user, applicator and/or application advisor. Read and follow the entire label of each product to be used in the tank mix with this product.

DIBROM Concentrate is a special formulation for the control of mosquitoes, flies and certain other nuisance insects. **This product cannot be diluted with water.**

APPLICATION RESTRICTIONS

For application by, or under the supervision of, personnel certified/trained in public health pest control or mosquito control. For each application, a record must be kept of:

- Date, time and areas where application occurred
- Type and size of spray nozzle used
- Dilution and application rate
- Speed of application vehicle (whether air or ground)
- A description of insecticide delivery system used for the specific application
- Climate factors (e.g., ambient temperature, wind speed/direction) as determined using a reliable means
- Employees involved in mixing, loading and applying DIBROM Concentrate

These records must be kept by the responsible public agency or their designee for a minimum of two years using storage methods that will allow the records to be easily retrieved.

Any system used to apply this product **must** be capable of providing the correct droplet size as specified below. Likewise, all applications **must** use the correct droplet size as specified below. Careful attention to directions concerning nozzles, nozzle positioning, air speed and droplet size is essential to avoid unwanted effects. Under-atomization produces large droplets that will quickly fall to the ground, while over-atomization produces finer droplets which either evaporate, dissipate, or drift in an unanticipated manner. Correct droplet size is critical to ensure effective mosquito control.

The entire spray system must be inspected before each operation to correct any leaks or obstructions, to detect whether the nozzle, hoses, or other parts are worn and need replacement, to ensure that the flow is properly calibrated and to determine that adequate pressure is being maintained. Adequate cleaning and maintenance of unit must be performed to ensure that the entire system is operating properly. Spray system components essential for correct droplet size must be cleaned or replaced as needed to ensure correct droplet size.

Spray during periods when ground level wind speed is equal to or greater than 1 mph. Apply when thermal activity is low. Do not apply when ambient temperature is less than 50°F.

Do not apply when it is raining in the treatment area.

Treatment of a site must be based on pest surveillance results. Do not treat any site more than 1 time per day. Do not treat any site with more than 2 fl. oz. of undiluted DIBROM Concentrate per acre within a 7 day period and the amount of undiluted DIBROM Concentrate applied to any site should not exceed 104 fl. oz. (10.73 pounds per acre of a.i./acre) per year. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Ground-Based Application:

Spray equipment must be adjusted so that the volume median diameter (VMD) is less than 40 microns (Dv 0.5 < 40 µm) and that 90% of the spray is contained in droplets smaller than 75 microns (Dv 0.9 < 75 µm). Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure, the nozzle and nozzle flow rate(s) are properly calibrated.

Aerial Application:

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns (Dv 0.5 < 60 µm) and that 90% of the spray is contained in droplets smaller than 115 microns (Dv 0.9 < 115 µm). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

OPERATIONAL USE INSTRUCTIONS

- All equipment used in the mixing or application (by ground or air) of DIBROM Concentrate must be constructed of corrosion-resistant materials. Stainless steel, bronze, brass, fiberglass, polypropylene and rigid PVC have all proven to be adequately resistant to the effects of DIBROM Concentrate when properly maintained and inspected.
- Use of Teflon or Viton seals is recommended. Even when these materials are used to construct a spray system, a careful maintenance program involving flushing, cleansing and constant inspection must be followed. Avoid use of steel or galvanized steel. Strain DIBROM Concentrate as it is being loaded. Use a 100 mesh stainless steel or nylon screen. If product crystallization occurs, warm at 80°F until crystals disappear. The use of DIBROM Concentrate and some grades of diesel fuel may result in precipitates which cause nozzle clogging and operational difficulties. Flushing the system following application is required. Use of heavy aromatic naphtha "Jet A" aircraft fuel, Aromatic 150, Aromatic 200, and Aromatic 200ND have been successful.
- DIBROM Concentrate must be applied using the correct droplet size. Over-atomization produces finer droplets which either evaporate or dissipate too quickly and become unavailable for mosquito contact. If applied incorrectly, DIBROM Concentrate will spot certain automobile paint finishes. Careful attention to recommendations concerning nozzles, nozzle positioning, air speed and droplet size is essential to avoid paint spotting.

ADULT MOSQUITO CONTROL

Adult Mosquito Control in Residential Areas, Municipalities, Tidal Marshes, Swamps, Woodlands, and Agricultural Areas (when applied in wide-area public pest control programs sponsored by governmental entities): It is not necessary to avoid farm buildings, dairy barns, pastures, feed or forage areas. Use in agricultural areas must be in a manner as to ensure that residues do not exceed the established federal tolerance for the active ingredient in or on raw agricultural commodities resulting from use for wide area pest control. Treat shrubbery and vegetation where mosquitoes may be present. Shrubby and vegetation around stagnant pools, marshy areas, swamps, residential areas, municipalities, woodlands, pastures, farm buildings and feedlots may be treated.

Ultra Low Volume (ULV) Aerial Application: Apply 1/2 to 1 fl. oz. of undiluted product per acre (equivalent to 0.05 to 0.1 lb. a.i./acre). Use the 1 fl. oz. rate where heavy vegetation exists; i.e., woodlands, etc.

Dilute Aerial Application: Apply 1/2 to 1 fl. oz. of undiluted DIBROM Concentrate per acre in a diluted spray solution (equivalent to 0.05 to 0.1 lb. a.i./acre). Use a diluent that is safe for use with the equipment being used and which will not harm the area being treated. Use a diluent that is compatible with DIBROM Concentrate. Test compatibility prior to using any diluent.

Ultra Low Volume (ULV) Ground Application: Apply DIBROM Concentrate undiluted at a rate of 1.2 fl. oz. per minute at 10 mph, applying a 300 ft. swath. This flow rate is equivalent to 0.02 lb. active per acre. In conditions of high pest pressure and/or heavy foliage, a maximum of 0.1 lb. active per acre may be applied.

Vehicles used to apply DIBROM Concentrate must be kept closed during application (air-conditioned) and equipped with an automatic flow control device. Consult equipment manufacturers for specific recommendations.

Dilute Ground Application: Apply 0.2 fl. oz. of DIBROM Concentrate per acre in a diluted spray solution. Use a diluent that is safe for use with the equipment being used and which will not harm the area being treated. Use a diluent that is compatible with Dibrom Concentrate. Test compatibility prior to using any diluent.

Vehicles used to apply DIBROM Concentrate must be kept closed during application (air-conditioned) and equipped with an automatic flow control device. Consult equipment manufacturers for specific recommendations.

HOUSEFLIES, GNATS, CERTAIN OTHER NUISANCE INSECTS AND SUPPRESSION OF BLACKFLIES

Small Flying Moths, Flies (including but not limited to Crane Flies, Adult Stable Flies, Dog Flies, Biting Flies, Filth Flies), Midges in Residential Areas, Municipalities, Tidal Marshes, Swamps, Woodlands, and Agricultural Areas (when applied in wide-area public pest control programs sponsored by governmental entities): It is not necessary to avoid farm buildings, dairy barns, and feed or forage areas. Apply 1 fl. oz. of undiluted DIBROM Concentrate per acre by ground (equivalent to 0.1 lb. a.i./acre).

SUPPRESSION OF DEER FLIES AND OTHER TABANIDS

Deer Flies in Residential Areas, Municipalities, Tidal Marshes, Swamps, Woodlands, and Agricultural Areas (when applied in wide-area public pest control programs sponsored by governmental entities): It is not necessary to avoid farm buildings, dairy barns, and feed or forage areas.

Aerial Application: Apply 1 fl. oz. of undiluted DIBROM Concentrate per acre (equivalent to 0.1 lb. a.i./acre).

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

PESTICIDE STORAGE Keep pesticides in original container. Do not put concentrate into, or dilute in food or drink containers. For help with any spill, leak, fire or exposure involving this material, call day or night 1-323-264-3910.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling:

Returnable Container. Nonrefillable container. Do not reuse or refill this container. This container is a dedicated, single-product returnable container. Return empty container to seller at location designated by seller as a collection point. Do not break seals, add anything to container or open container after use. Do not rinse or contaminate empty container. Do not dispose of untempered empty container or use it for any other purposes. Any evidence of broken seals or other tampering or adding anything to the container renders it unfit for return. In such case, it is the obligation of the holder of the container to dispose of it properly or offer for recycling, if available.

It is required that this product be used in a CLOSED SYSTEM. This container may require a tank adaptor. For questions regarding tank adaptors, call AMVAC Customer Service at 1-888-482-8822 (1-888-GO-AMVAC).

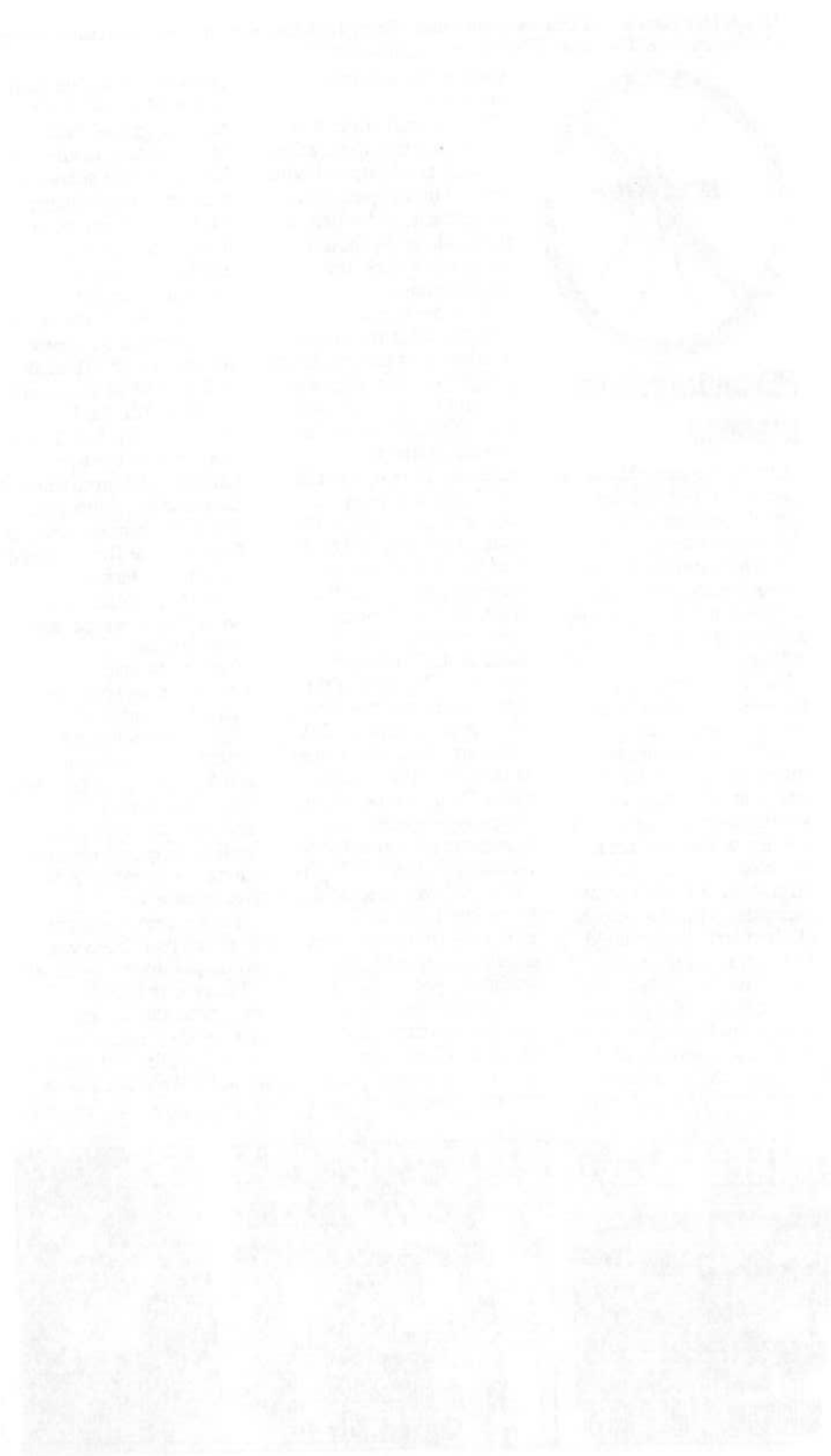
LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label, (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC. DIBROM® is a registered trademark of Amvac Chemical Corporation.

Amvac Chemical Corporation
4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A.
1-323-264-3910



 **AMVAC**
4100 E. Washington Blvd.
Los Angeles, CA 90023, USA
1-323-264-3910

Happy Jack Harvest, LLC farmer and vendor Scott Taylor sells fresh produce to customers at the Undine Park. JEREMY MARTIN/Boomerang photographer



Mosquito control planned

City of Laramie Mosquito Control scheduled the aerial application of Dibrom for control of adult mosquitoes in rural areas adjacent to the city to begin at 7 p.m. Tuesday, according to a news release.

The application is targeted to control both nuisance and vector mosquitoes, including *Culex tarsalis*, which can transmit West Nile virus. Vector mosquito numbers are low in the city but are increasing in rural areas. Migration of these vector mosquitoes into the city is likely if left uncontrolled. The aerial application should be conducted during the evening hours to coordinate with the peak of mosquito activity and to reduce the likelihood of contact with residents

work and recreational activities.

The aircraft contracted to provide the application service are equipped with special night operations equipment, and much of the application should occur after dark, the release states.

Three areas are scheduled for treatment: Southwest of the city limits along Wyoming Highway 230 and the Big Laramie River drainage from the city limits a out nine miles southwest, west of city limits between the Big Laramie River to the south, Interstate 80 to the north and the Laramie Regional Airport to the west; and north of city limits between Welsh Lane and 4 th Street, including the area of the city wastewater treatment plant and the city landfill.

Dibrom should be applied at the ultra low volume rate of 1/2 ounce per acre, the release states. No application is expected to be made within city limits.

The application should be rescheduled for 7 p.m. July 10 if inclement weather prevents the Tuesday application.

Schedules regarding Mosquito Control and Parks and Cemetery chemical applications for control of weeds and insect

pests are available daily on the Mosquito Control and Integrated Pest Management Hotline at 721-5056. The schedule is available at approximately 4 p.m. daily. Spraying information is also available at www.cityoflaramie.org.

Contact Keith Wardlaw, mosquito control crew supervisor, at 721-5258 or Parks Manager David Schott at 721-5264.

Additionally, Ron Blake, chairman of the Big Laramie Mosquito Control Corporation, announced aerial application along the Big Laramie River should commence Monday, weather permitting, according to a separate news release.

The spray area encompasses acreages along both sides of Wyoming Highway 230 from about the 5-mile marker to Woods Landing, including Pahlow Lane and the Harmony area, as well as irrigated meadows along the Laramie River, the release states.

Bee keepers are advised to cover their beehives while planes are in the air.

Those with health concerns should stay inside, the release states.

Contact Blake at 745-9521 or John Wetstein at 742-8734 for more information

Independence Day



Create your own fireworks at SENSUOUS LLC

701 W. 1st St. Laramie, WY 82001
719-335-1111

Mon-Sat 10am-6pm
Closed July 4th

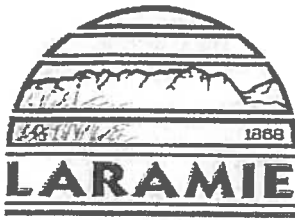
Abstract

Author: [Name]
Title: [Title]
Journal: [Journal]
Year: [Year]

Abstract: [Summary of the paper's content]




Attachment 3



CITY OF LARAMIE
PARKS & RECREATION DEPARTMENT
P.O. Box C
Laramie, WY 82073

Parks Division: (307) 721-5264
Fax (307) 721-5256
Recreation Division: (307) 721-5269
Fax: (307) 721-5284
Facilities Mgmt Division: (307) 721-3585
TDD (307) 721-5295
Administration: (307) 721-3572

Memorandum

To: Paul Harrison, Parks and Recreation Director 

From: David Schott, Parks Manager

Date: July 23, 2015

Re: July 12, 2015 Aerial Application for Adult Mosquito Control

Director Harrison,

On Sunday evening, July 12, 2015 from 7:26 pm through 8:25 pm, the City of Laramie Mosquito Control conducted an aerial application of Dibrom, ½ ounce per acre, over 15,360 acres in Albany County adjacent to City limits to control vector and nuisance mosquito populations, see Attachment A. The application was done by Vector Disease Control International under a profession services agreement approved by the Laramie City Council on March 17, 2015.

The original application was scheduled for July 7, 2015, but due to weather conditions the application was rescheduled for July 12, 2015 where weather conditions were favorable. Mosquito Control Crew Supervisor, Keith Wardlaw, informed all nineteen (19) bee keepers on the Beekeeper List 2015, Attachment B. Ms. Coates was notified by a phone message on July 2, 2015 at 2:37 pm for the application scheduled for July 7, 2015. A second call was made to all bee keepers on July 7, 2015 to inform them that the July 7, 2015 application was postponed until July 12, 2015. Ms. Coates was notified at 3:44 pm. As stated in Attachment B, she “got the message but was not ok.”

Post application on July 13, 2015, Ms. Coates contacted Keith to discuss the application and was very agitated, Attachment C. Ms. Coates, according to Keith, launched into a personal attack stating, “Of course you don’t, because you don’t have any idea what you are doing.” This was in regard to Ms. Coates’s inquiry regarding Colorado Front Range programs. With the conversation escalating, Keith opted to disconnect the call rather than escalate the conversation further.

She also had left several voice messages on both my office phone and cell phone. I returned her phone call at 4:44 pm. She alleged that the aerial application of Dibrom had an adverse effect on here bee hive and that many off the bees were dead. Specifically, she had three major concerns; one, she was hung up by Keith; two, aerial application of Dibrom was not done in the Front Range of Colorado; and three, the wind was from the West. She also informed me that she had contacted the Wyoming Department of Agriculture.

Keith and I met with Shane Howe, Inspection Specialist II, with the Wyoming Department of Agriculture on July 14, 2015 to discuss the aerial application and turn over records. This meeting was after Mr. Howe conducted a field visit to Ms. Coates’s residence. He also stated that bees were collected and sent to the State Veterinary Lab for analysis. Results were expected by the end of September.



Vector Disease Control International
Post-Application Report

	Laramie County, WY	Laramie County, WY	TOTALS
Customer	Laramie County, WY	Laramie County, WY	Laramie County, WY
Date	7/12/2015	7/12/2015	7/12/2015
Type of Aircraft	Piper Aztec	Piper Aztec	Piper Aztec
Registration # of Aircraft	203DM	311BB	203DM & 311BB
Type of Application	Adulticide	Adulticide	Adulticide
Spray Swath Width	1000'	1000'	1000'
Pilot	Robbie Allen (License #51208)	Dave Brailsford (License #52029)	Allen & Brailsford
Co-Pilot	Rozie Neilson	Cory Whitworth	Neilson & Whitworth
Treatment Area	Carrols & Airport West	Monolith & Airport West	Carrols, Monolith, & Airport West
Chemical Applied	Dibrom (EPA #5481-480)	Dibrom (EPA #5481-480)	Dibrom (EPA #5481-480)
Quantity (Gal)	30.0	30.0	60.0
Application Rate	0.50 oz/acre	0.50 oz/acre	0.50 oz/acre
Mix Ratio	N/A	N/A	N/A
Acres Treated	7,680.0	7,680.0	15,360.0
Time of Application Start	19:35	19:26	19:26
Time of Application End	20:25	20:24	20:25
Aircraft Indicated Speed	150 kts	150 kts	150 kts
Release Altitude	150-300'	150-300'	150-300'
Wind speed	7 mph	7 mph	7 mph
Wind direction	250	270	Variable
Temperature/Dew Pt	75F/35F	75F/35F	75F/35F

Dept of Ag

Registered ✓

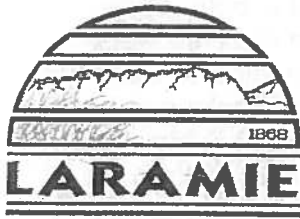
Attachment B

MSG = Left message
OK = Talked to someone

BEEKEEPER LIST 2015

NAME	AREA	PHONE	CALLED	DATE
Steve Starks	Carrols North of I-80	Shelley Cell 399-0509 Steve cell- 399-0455	MSG 7/2/15 1:42 pm	MSG 7-7-15 3:11pm
Dillon Dallarasa-Handrich	Prarie Monarch Buffalo ranch	Cell 720-939-5831 742-4429	Meeting 7/6/15	MSG 7-7-15 3:15pm
✓ Reid Fletcher	Mears Morgans, UW Agronomy	Cell- 399-7094 742-0287 766-3531	OK By e-mail!	7-7-15 3:17 no answer
Larry Hazlett	2412 Cottonwood Dr	cell 760-4545 742-4117	MSG 7/6/15 3:53p	OK 7-7-15 3:18 pm
✓ Judith Shreckeghost	North - Howell Rd	760-2092	OK 7/2/15 1:45p	OK 7-9-15 3:19pm
✓ Adrienne Szababy	605 E Harney	760-2051	OK 7/2/15 1:47p	OK 7-7-15 3:20pm
Al Emmons	Ag Farm	399-1369	MSG 7/2/15 1:49p	MSG 7-7-15 3:22pm
Lee Lang	856 1/2 N 12 th St	399-1345	MSG 7/2/15 1:51p	MSG 7-7-15 3:23pm
✓ Mark Mustard	Carrols/9H	Cell 761-7005 745-4179	OK 7/2/15 1:53p	MSG 7-7-15 3:24pm
✓ Bruce Embury	2228 Fairview road by PBs house	742-0853	MSG 7/2/15 1:55p	OK 7-7-15 3:25pm
✓ Chris Moody	1014 S. 9th St.	760-3790	OK 7/2/15 1:59p	OK 7-7-15 3:26pm
✓ Rene Sollars	470 N 5 th St	760-3973	OK 7/2/15 2:30p	OK 7-7-15 3:27pm
Jay Talbot	Smiley Lentz and Longs on Pahlow	760-1205	OK 7/2/15 2:27p	OK 7/7/15 3:35p
✓ Isaac Gordon	Air Tox Enviro	719-494-5656	MSG 7/2/15 2:31	MSG 7/7/15 3:37p
✓ Larry Struempf	719 S. 21 st	cell 760-9411 307-740-9285	MSG 7/2/15 2:33	MSG 7/7/15 3:39p
✓ Rhonda Johnson	Harrison St	399-1827	OK 7/2/15 2:35	MSG 7/7/15 3:41p
✓ Helen Coates	W-Hill Road	399-1065	MSG 7/2/15 2:37p	Not OK but got message 7/7/15 3:44
✓ Katrina Mc Gee	Pilot Peak Road-314-9630	766-4266	7/2/15 1:30p OK	OK 7/7/15 3:46
✓ David Lang	25 th St	745-8559	MSG 7/2/15 2:40p	MSG 7/7/15 3:47

Attachment C



CITY OF LARAMIE
PARKS & RECREATION DEPARTMENT
P.O. Box C
Laramie, WY 82073

Parks Division: (307) 721-5264
Fax (307) 721-5256
Recreation Division: (307) 721-5269
Fax: (307) 721-5284
Facilities Mgmt Division: (307) 721-3585
TDD (307) 721-5295

MEMORANDUM

To: David Schott, Parks Manger
From: Keith Wardlaw, Mosquito Control Crew Supervisor *KW*
Re: Aerial Dibrom application 7/12/15
CC: Paul Harrison

On June 26, 2015 surveillance showed that *Culex tarsalis* activity was beginning to increase in the traps that normally show the most activity. I contacted Robbie Allen at Vector Disease Control International (VDCI) on that day to schedule an aerial application to control the vector mosquito population. Normally the population of *Culex tarsalis* mosquitoes takes a couple weeks to produce a significant spike so I chose a date within that time frame to make the application. We tentatively decided on Friday July 10th for the application but left the option of a sooner date if VDCI had an opening available. On July 1, 2015 I corresponded again with VDCI to check on potential dates and was able to schedule the application to July 7th in a slot that had opened in the VDCI schedule. After confirming this date I informed Parks and Recreation administration of the schedule and produced a press release on the planned application. On July 2, 2015, five days before the scheduled application, I notified the 18 beekeepers that are on my list. I called all the keepers between 1:42 pm and 2:40pm and either talked to the keeper or left a detailed message with callback information. I reached Ms. Coates answering machine at 2:37pm on that day and left a message. I received no response from Ms. Coates from that call.

Weather conditions on the scheduled July 7th date were windy and rainy and unsuitable for the application. I contacted VDCI at 12:41 pm and cancelled the application. We looked ahead at the long term forecast and then re-scheduled the application based on the next window of acceptable weather for July 12th. I produced a PSA to announce the postponement and re-scheduling at 3:17 pm and forwarded it for publication. I called all the beekeepers on my list between 3:12 pm 3:347 and to communicate that the operation had been cancelled and to appraise them of the re-scheduled application date. At 3:44pm I contacted Ms. Coates about the application change of schedule. Ms. Coates was outwardly unhappy about the planned application and questioned the need for it. I attempted to explain the need based on surveillance of the vector mosquitoes that can transmit West Nile virus but was rebuffed by her statement that "People who are worried about West Nile virus should move somewhere else" She listed New York as a location to move, which I found unusual as New York City was the location of the introduction of WNV to the United States. I took her to mean that they should move to a location that had fewer mosquitoes. Her general tone was that the application was unnecessary and that other methods should be used to control mosquitoes. This conversation was fairly short about 2 minutes as my record of contact with beekeeper Katrina McGee is logged at 3:44pm. I noted on my call log that Ms. Coates was not OK with the application but did receive the information. I was trying to work quickly as I still had the rest of the beekeeper list to call; the chemically sensitive list, as well as affected landowners that needed notification of the re-schedule. Beekeeper Shelly Starks was the only keeper that called me back for further information on the planned change of schedule. I was off work on July 9th and 10th and Ms. Coates did contact Parks Manager David Schott during that time period to request a Label and MSDS for Dibrom.

On July 12th the conditions throughout the afternoon were very windy and it was unknown if we would be able to initiate the application at all. National Weather Service forecast wind conditions that would be acceptable at around 8pm in the evening so we had the VDCI crew travel to Laramie to

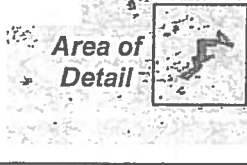
prepare for the application. Temperature limitations would limit the length of time that would be acceptable for the application as we would drop below 60F by 10pm. City staff arrived at 6pm to prep for the application and were assigned to various locations within the spray blocks and two units were dispatched specifically to mark beehive locations that were located within the spray blocks. Other units are assigned to collect and record meteorological information at sites within the blocks and to inform citizens about the application. I met with the pilots at Laramie Regional Airport at 6:15pm to discuss the application and especially the no spray zone that had been set up north of town to protect the commercial organic operation of the Prairie Monarch Bison Ranch. VDCI had decided to dispatch two aircraft to complete the application. Both crews were briefed on the locations of bees and the no spray zone as well as towers and our crew locations. By 7:15 the wind conditions were verified by ground crews to be within the parameters for the application and we started the air crews to the spray blocks for a 7:30 application. (Data sheet attached). Sunset for the date was 8:36 pm. Air crews started the application at 7:26 pm and completed the application at 8:25 pm. Wind at the elevation of the application was recorded by flight crews at 7mph from the West/ Southwest. Ground crews noted heavy mosquito activity at several locations indicating appropriate temperature to achieve good mosquito mortality. Nothing else was noted as unusual about the application.

I was contacted by Ms. Coates at approximately 2:30pm on July 13th. She was extremely agitated and expressed her displeasure about the application and that it had affected her bee hive. Although I tried to gather some more information about her situation she continued to question the application and then launched into a personal attack. At one point she asked me why we do the aerial applications when no one in the Colorado front range area makes these types of applications? I replied that I didn't have a great answer to that question. Meaning that I would have to look into the answer. To which she replied: "Of course you don't, because you don't have any idea what you are doing!" She also stated that she was going to; "Call somebody about the negligence of the application because she knew there was somebody to call", but at that point did not say who she would call. At this point I chose to disconnect the call as I felt that I was not going to influence her opinion with any factual information about our program.

I immediately drafted an e-mail to Shane Howe at Wyoming Department of Ag with my information on the incident and sent it to him later after I had contacted Parks Manger, David Schott.

Attached are the spray logs compiled by VDCI of the application flight pattern and dispersion of the control agent; Records of the calibration and droplet spectrum from each of the aircraft used in the operation; Commercial applicators log; Beekeepers call log; Wind log, Sunrise / Sunset Calendar, and Aerial spraying call log.



Albany County

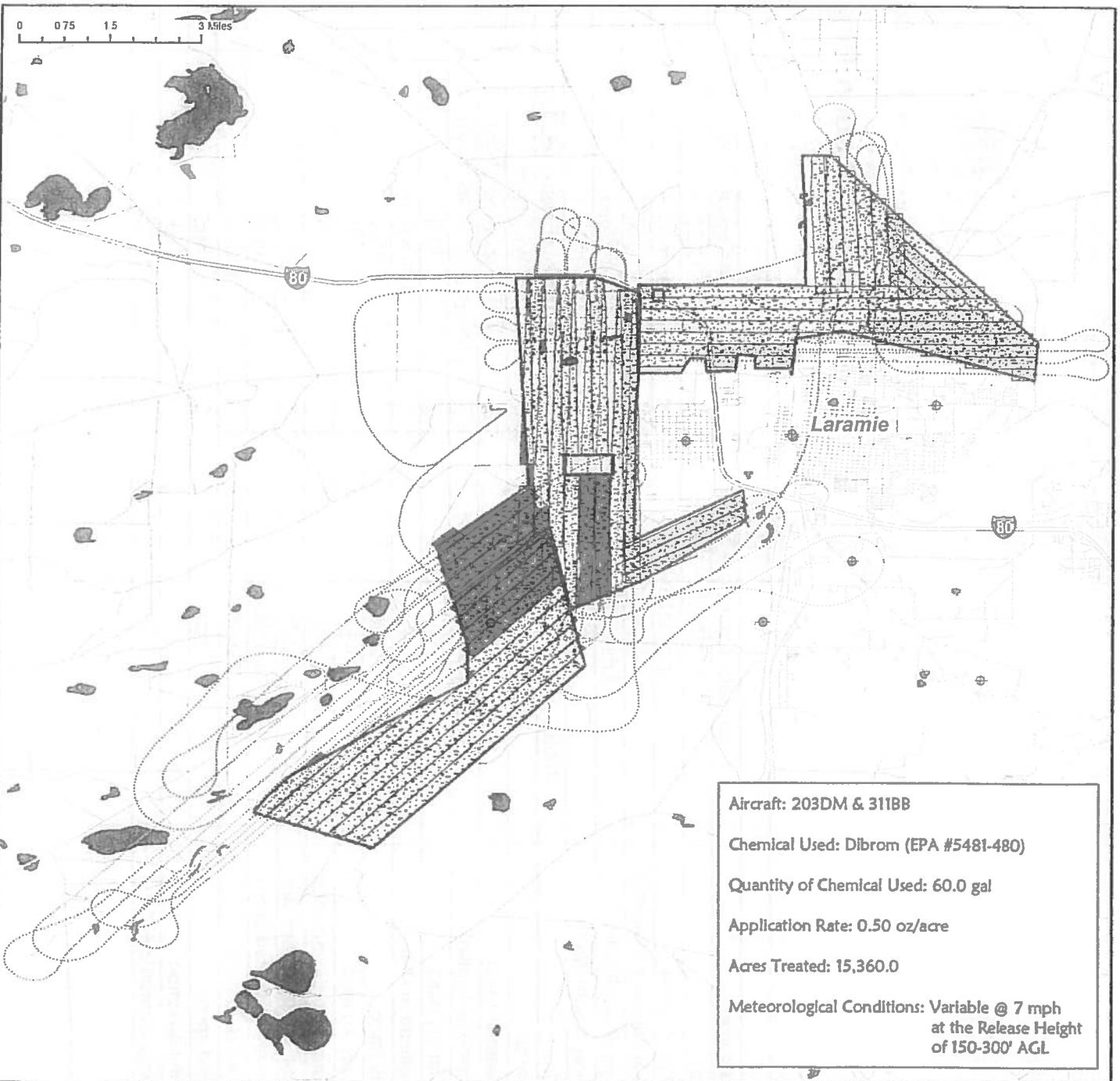
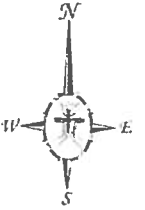


Laramie, Wyoming

Aerial Adulticide Application Date:
July 12, 2015



- Flight Line**
- Sprayer Off ○
- Sprayer On ○
- Towers ⊕
- Spray Disposition 
- Treatment Area 



Aircraft: 203DM & 311BB
Chemical Used: Dibrom (EPA #5481-480)
Quantity of Chemical Used: 60.0 gal
Application Rate: 0.50 oz/acre
Acres Treated: 15,360.0
Meteorological Conditions: Variable @ 7 mph
 at the Release Height
 of 150-300' AGL



Vector Disease Control International

Post-Application Report

	Laramie County, WY	Laramie County, WY	Laramie County, WY	TOTALS
Customer	Laramie County, WY	Laramie County, WY	Laramie County, WY	Laramie County, WY
Date	7/12/2015	7/12/2015	7/12/2015	7/12/2015
Type of Aircraft	Piper Aztec	Piper Aztec	Piper Aztec	Piper Aztec
Registration # of Aircraft	203DM	311BB	203DM & 311BB	203DM & 311BB
Type of Application	Adulticide	Adulticide	Adulticide	Adulticide
Spray Swath Width	1000'	1000'	1000'	1000'
Pilot	Robbie Allen (License #51208)	Dave Brailsford (License #52029)	Allen & Brailsford	Allen & Brailsford
Co-Pilot	Rozie Neilson	Cory Whitworth	Neilson & Whitworth	Neilson & Whitworth
Treatment Area	Carrols & Airport West	Monolith & Airport West	Carrols, Monolith, & Airport West	Carrols, Monolith, & Airport West
Chemical Applied	Dibrom (EPA #5481-480)	Dibrom (EPA #5481-480)	Dibrom (EPA #5481-480)	Dibrom (EPA #5481-480)
Quantity (Gal)	30.0	30.0	60.0	60.0
Application Rate	0.50 oz/acre	0.50 oz/acre	0.50 oz/acre	0.50 oz/acre
Mix Ratio	N/A	N/A	N/A	N/A
Acres Treated	7,680.0	7,680.0	15,360.0	15,360.0
Time of Application Start	19:35	19:26	19:26	19:26
Time of Application End	20:25	20:24	20:25	20:25
Aircraft Indicated Speed	150 kts	150 kts	150 kts	150 kts
Release Altitude	150-300'	150-300'	150-300'	150-300'
Wind speed	7 mph	7 mph	7 mph	7 mph
Wind direction	250	270	Variable	Variable
Temperature/Dew Pt	75F/35F	75F/35F	75F/35F	75F/35F

Aircraft Calibration Record

Vector Disease Control International
 1320 Brookwood Dr. St H
 Little Rock, AR 72202
 (T) 800-413-4445
 (F) 866-839-8595



Date: 5/12/2015

Name: Robert Allen

Aircraft: N311BB

Nozzle Type: AU-4000

Pump Pressure: 11

Test Time (seconds): 1 Min.

	Nozzle 1	Nozzle 2	Nozzle 3	Nozzle 4
Volume Collected:	75	75		
Nozzle Variation:	1.00	1.00		

No. of Nozzles Tested:	2
Avg. Nozzle Volume (oz):	75.0
Total Volume (oz):	150.0
Aircraft Speed (mph):	150
Swath Width (ft):	1000
Minutes to Travel 1 Mile:	0.4
Acres Sprayed/Minute:	303.0
Acres Sprayed/Mile:	121.2
Ounces of Spray/Acre:	0.50

Applicator Signature: Robert Allen

Aircraft Calibration Record

Date: 5/12/2015

Name: Robert Allen

Aircraft: N203DM

Nozzle Type: AU-4000

Pump Pressure: 12

Test Time (seconds): 1 Min.

Vector Disease Control International
 1320 Brookwood Dr. St H
 Little Rock, AR 72202
 (T) 800-413-4445
 (F) 866-839-8595



	Nozzle 1	Nozzle 2	Nozzle 3	Nozzle 4
Volume Collected:	75	75		
Nozzle Variation:	1.00	1.00		

No. of Nozzles Tested:	2
Avg. Nozzle Volume (oz):	75.0
Total Volume (oz):	150.0
<hr/>	
Aircraft Speed (mph):	150
Swath Width (ft):	1000
Minutes to Travel 1 Mile:	0.4
Acres Sprayed/Minute:	303.0
Acres Sprayed/Mile:	121.2
Ounces of Spray/Acre:	0.50

Applicator Signature: Robert Allen

VMD

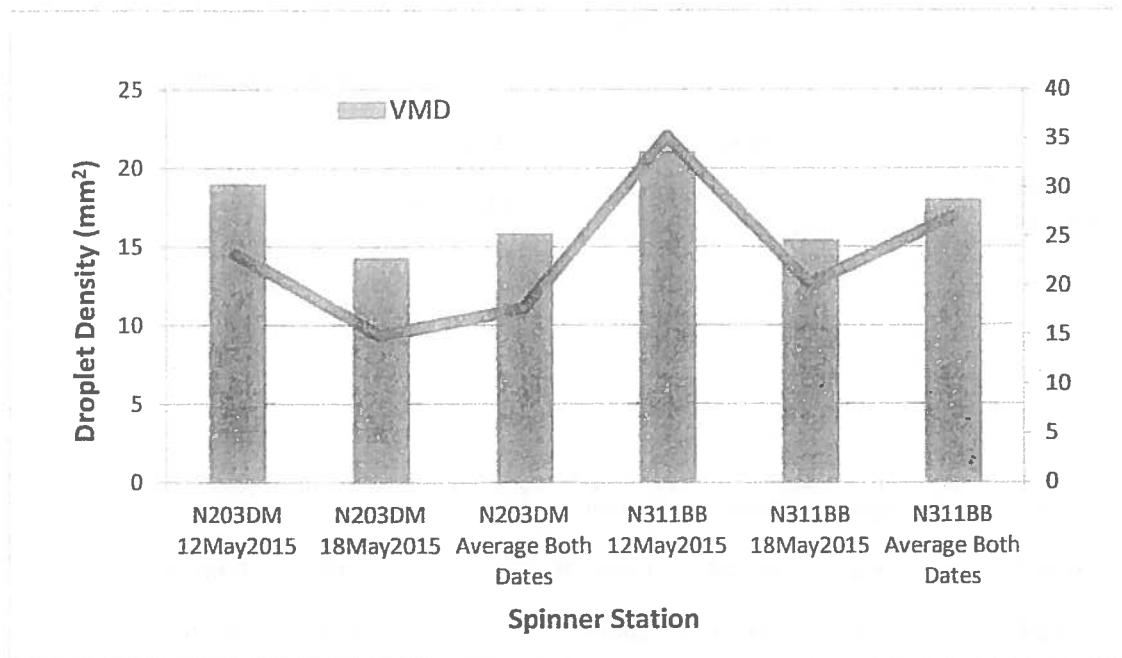
12-May-15			18-May-15		
Plane DM	VMD	Density	Plane DM	VMD	Density
Slide 2	34	12.448	Slide 7	19.89	12.887
Slide 4	28.09	10.395	Slide 8	20.08	12.679
Slide 5	29.13	20.747	Slide 9	24.07	12.074
AVG	30.40667	14.53	Slide 10	25.75	8.314
			Slide 11	24.7	5.574
			Slide 12	22.53	4.619
			AVG	22.83667	9.357833

	VMD	Density
AVERAGE for N203DM	25.36	11.08189

12-May-15			18-May-15		
Plane BB	VMD	Density	Plane BB	VMD	Density
Slide 7	36.3	24.948	Slide 1	14.95	5.238
Slide 8	35.18	20.79	Slide 2	16.29	4.375
Slide 9	31.96	31.185	Slide 3	22.64	11.876
Slide 10	36.82	23.546	Slide 4	27.38	14.894
Slide 12	28.19	9.594	Slide 5	34.53	17.763
AVG	33.69	22.0126	Slide 6	32.63	21.822
			AVG	24.73667	12.66133

	VMD	Density
Average for N311BB	28.80636	16.91191

Location	VMD	Density (mm ²)
N203DM 12May2015	30.41	14.53
N203DM 18May2015	22.84	9.36
203DM Average Both Dates	25.36	11.08
N311BB 12May2015	33.69	22.01
N311BB 18May2015	24.74	12.66
311BB Average Both Dates	28.81	16.91



Commercial Applicators Daily Spraying Record

Name of applicator(s): Keith Wardlaw, Robbie Allen, Dave Brailsford

Date and time of application(s): 7/12/15 2 loads Simultaneously.
Start 7:22pm End 8:38pm

Location(s) of pesticide application(s):
Bath, Minlith, Mc Kinsey, Pomsa, UW, Evans, 9H,
Garretson, Lafarge, Schmidt (See attached Map.)

Commodity treated: Air

Pest Controlled: Adult Mosquitoes

Pesticide applied: Dibrom Concentrate
EPA REG. NO. 5481-480
EPA EST. NO. 5481-CA-1
EPA EST. NO. 5481-AL-1

15,360 Acres

Total amount of pesticide used: 60 gal. Next

Rate of application: 1/2 oz/acre

Approximate temperature: Start 74°F End 72°F

Approximate wind velocity and direction: 0-10 mph Aerial

Soil moisture (wet, dry, moist): All three

The above record shall be filled out daily immediately after each application of any pesticide. Such records shall be available for inspection at any time during business hours by the commissioner or his designated Department of Agricultural employee.

Dept of Ag
Registered ✓

MSG = Left message
OK = Talked to someone

BEEKEEPER LIST 2015

NAME	AREA	PHONE	CALLED	DATE
Steve Starks	Carrols North of I-80	Shelley Cell 399-0509 Steve cell- 399-0455	MSG 7/2/15 1:42 pm	MSG 7-7-15 3:14 pm
Dillon Dallarasa-Handrich	Prarie Monarch Buffalo ranch	Cell 720-939-5831 742-4429	Meeting 7/6/15	MSG 7-7-15 3:15 pm
✓ Reid Fletcher	Mears Morgans, UW Agronomy	Cell- 399-7094 742-0287 766-3531	OK By e-mail	7-7-15 3:17 no answer
Larry Hazlett	2412 Cottonwood Dr	cell 760-4545 742-4117	MSG 7/6/15 3:53 p	OK 7-7-15 3:18 pm
✓ Judith Shreckeghost	North - Howell Rd	760-2092	OK 7/2/15 1:45 p	OK 7-7-15 3:19 pm
✓ Adrienne Szababy	605 E Harney	760-2051	OK 7/2/15 1:47 p	OK 7-7-15 3:20 pm
Al Emmons	Ag Farm	399-1369	MSG 7/2/15 1:49 p	MSG 7-7-15 3:22 pm
Lee Lang	856 1/2 N 12 th St	399-1345	MSG 7/2/15 1:47 p	MSG 7-7-15 3:23 pm
✓ Mark Mustard	Carrols/9H	Cell 761-7005 745-4179	OK 7/2/15 1:53 p	MSG 7-7-15 3:24 pm
✓ Bruce Embury	2228 Fairview road by PBs house	742-0853	MSG 7/2/15 1:55 p	OK 7-7-15 3:25 pm
✓ Chris Moody	1014 S. 9th St.	760-3790	OK 7/2/15 1:57 p	OK 7-7-15 3:26 pm
✓ Rene Sollars	470 N 5 th St	760-3973	OK 7/2/15 2:30 p	OK 7-7-15 3:27 pm
Jay Talbot	Smiley Lentz and Longs on Pahlow	760-1205	OK 7/2/15 2:27 p	OK 7/7/15 3:35 p
✓ Isaac Gordon	Air Tax Enviro	719-494-5656	MSG 7/2/15 2:31	MSG 7/7/15 3:37 p
✓ Larry Struempf	719 S. 21 st	cell 760-9411 307-740-9285	MSG 7/2/15 2:33	MSG 7/7/15 3:39 p
✓ Rhonda Johnson	Harrison St	399-1827	OK 7/2/15 2:35	MSG 7/7/15 3:41 p
✓ Helen Coates	W-Hill Road	399-1065	MSG 7/2/15 2:37 p	Not OK but got message 7/7/15 3:44
✓ Katrina Mc Gee	Pilot Peak Road-314 963E	766-4266	7/2/15 1:39 p OK	OK 7/7/15 3:46
✓ David Lang	25 th St	745-8559	MSG 7/2/15 2:40 p	MSG 7/7/15 3:47

Load 152

Vind 7:22 P

8:26 P

8:38

Temp

729 3rd St 7 mph - 0 mph N/A

726 9th St 7 mph 0 mph N/A

737 Canal 6 1/2 0 mph 0

730 W 4th 4-6 — 10 mph 72°

732 West Bath 5 4 mph 72°

737 As Fann 3-5 0 mph 73°

727 Fish access 5 0 72°

Works Better, Safer

Enviro-Safe™ replacement R134a refrigerant saves energy and money!

July 2015

Laramie, Wyoming

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Twilight: 4:59am Sunrise: 5:33am Sunset: 8:40pm Twilight: 9:13pm Full Moon: 8:21pm	2 Twilight: 4:59am Sunrise: 5:33am Sunset: 8:39pm Twilight: 9:13pm	3 Twilight: 5:00am Sunrise: 5:34am Sunset: 8:39pm Twilight: 9:13pm	4 Twilight: 5:01am Sunrise: 5:34am Sunset: 8:39pm Twilight: 9:13pm
5 Twilight: 5:01am Sunrise: 5:35am Sunset: 8:39pm Twilight: 9:12pm	6 Twilight: 5:02am Sunrise: 5:35am Sunset: 8:39pm Twilight: 9:12pm	7 Twilight: 5:03am Sunrise: 5:36am Sunset: 8:38pm Twilight: 9:12pm	8 Twilight: 5:03am Sunrise: 5:37am Sunset: 8:38pm Twilight: 9:11pm Last Qtr: 2:25pm	9 Twilight: 5:04am Sunrise: 5:37am Sunset: 8:38pm Twilight: 9:11pm	10 Twilight: 5:05am Sunrise: 5:38am Sunset: 8:37pm Twilight: 9:10pm	11 Twilight: 5:06am Sunrise: 5:39am Sunset: 8:37pm Twilight: 9:10pm
12 Twilight: 5:06am Sunrise: 5:39am Sunset: 8:36pm Twilight: 9:09pm	13 Twilight: 5:07am Sunrise: 5:40am Sunset: 8:36pm Twilight: 9:09pm	14 Twilight: 5:08am Sunrise: 5:41am Sunset: 8:35pm Twilight: 9:08pm	15 Twilight: 5:09am Sunrise: 5:42am Sunset: 8:35pm Twilight: 9:08pm New Moon: 7:26pm	16 Twilight: 5:10am Sunrise: 5:42am Sunset: 8:34pm Twilight: 9:07pm	17 Twilight: 5:11am Sunrise: 5:43am Sunset: 8:34pm Twilight: 9:06pm	18 Twilight: 5:12am Sunrise: 5:44am Sunset: 8:33pm Twilight: 9:05pm
19 Twilight: 5:12am Sunrise: 5:45am Sunset: 8:32pm Twilight: 9:05pm	20 Twilight: 5:13am Sunrise: 5:46am Sunset: 8:32pm Twilight: 9:04pm	21 Twilight: 5:14am Sunrise: 5:47am Sunset: 8:31pm Twilight: 9:03pm	22 Twilight: 5:15am Sunrise: 5:48am Sunset: 8:30pm Twilight: 9:02pm	23 Twilight: 5:16am Sunrise: 5:48am Sunset: 8:29pm Twilight: 9:01pm First Qtr: 10:05pm	24 Twilight: 5:17am Sunrise: 5:49am Sunset: 8:28pm Twilight: 9:00pm	25 Twilight: 5:18am Sunrise: 5:50am Sunset: 8:27pm Twilight: 8:59pm
26 Twilight: 5:19am Sunrise: 5:51am Sunset: 8:27pm Twilight: 8:58pm	27 Twilight: 5:20am Sunrise: 5:52am Sunset: 8:26pm Twilight: 8:57pm	28 Twilight: 5:21am Sunrise: 5:53am Sunset: 8:25pm Twilight: 8:56pm	29 Twilight: 5:23am Sunrise: 5:54am Sunset: 8:24pm Twilight: 8:55pm	30 Twilight: 5:24am Sunrise: 5:55am Sunset: 8:23pm Twilight: 8:54pm	31 Twilight: 5:25am Sunrise: 5:56am Sunset: 8:22pm Twilight: 8:53pm Full Moon: 4:44am	

Joyce Gore 970-980-1323
 Call before aerial spraying 2015

		MSG 7/2	OK 7/7			
Aerial Bti	Aerial Dibrom	Cancel				
Date 7/2	Date 7/7	Date	Date	Date		
Diann Fielder	742-7768 North of town	OK 5/28	OK 7/2/15 2:55pm	OK 7/7/15 3:15p		
Linda Cooper	745-7716 like more lead time	OK 5/28	OK 7/2/15 2:15p			
Brenda Lieske	745-8532	MSG 5/24	MSG 7/2/15 2:57	MSG 7/7/15 3:52p		
Betty Rasmussen	742-0474 or 760-2836	MSG 5/28	OK 7/2/15 3:00	OK 7/7/15 3:52p		
Kris Anderson Sprecker	745-8536	MSG 5/28	MSG 7/2/15 3:02	MSG 7/7/15 4:27p		
Joe Sheridan	460-2657	OK 5/28	OK 7/2/15 3:17p	OK 7/7/15 4:02p		
Rae Hoffmaster	399-3220	MSG 5/28	OK 7/2/15	OK 7/7/15 4:05p		
Jim Rubeno	460-2075	MSG 5/24	OK 7/2/15	OK 7/7/15 4:06p		
Susan Davis	307-220-0087	OK 5/28	OK 7/2/15	MSG 7/7/15 4:07p		
Diana Kocornik	745-4375	OK 5/28	Normal box MSG 7/2/15	OK 7/7/15 4:07		
Diann Fielder	742-7768 North of Town	Date	Date	Date	Date	Date
Linda Cooper	745-7716 like more lead time					
Brenda Lieske	745-8532					
Betty Rasmussen	742-0474 or 760-2836					
Kris Anderson Sprecker	745-8536					
Joe Sheridan	460-2657					
Rae Hoffmaster	399-3220					
Jim Rubeno	460-2075					
Susan Davis	307-220-0087					
Diana Kocornik	745-4375					

Answered by phone at
 11:50 AM 7/2/15
 make sure
 5/28

5/28
 bus was #
 no more in
 11:50 AM 7/2/15
 11:50 AM

Attachment D

David Schott

From: Helen Coates <free2hike09@yahoo.com>
Sent: Tuesday, July 14, 2015 11:11 PM
To: David Schott; Paul Harrison
Subject: Fw: Pesticide bee kill and revise the mosquito program
Attachments: P1100537.JPG; P1100533.JPG; P1100534.JPG

On Tuesday, July 14, 2015 11:02 PM, Helen Coates <free2hike09@yahoo.com> wrote:

On Sunday July 13 the city sprayed a large area, acres of blooming yellow clover west of town with Dibrom during daylight hours.

Dibrom is 1,2 dibromo, 2,2 dichloroethyl dimethyl phosphate. It is an extremely toxic substance related to nerve gas,

It is extremely toxic to bees , other pollinators, fish, birds, causes nerve damage in mammals.

Spraying started at 7 - sunset 8:35 dusk 9:08pm On top of that the wind was blowing from west at 15 mph.

The next morning, Monday , when I left home all was well and ground clean in front of my hives, at 1pm when i came back the ground was littered with dead and dying bees. see pics.

After the guy at the parks department hung up the phone on me when i asked why they did this here since they dont in Colorado I got really upset and contacted EVERYONE , EPA , pollinator protection groups , US fish and wildlife and the State of Wyoming Ag dept.

I researched the subject and found this Dibrom is not used in modern integrated mosquito management programs, it is NOT used ANYWHERE in the front range down in Colorado . NOT used in Larimer, Weld, jefferson, Boulder , Denver, Arapahoe, Adams etc counties.

It is a very toxic compound. There is also supposed to be a real reason IE positive evidence of west Nile infection of mosquitos BEFORE it is used. It is hard to get information but I dont think that was the case.

The next day Tuesday July 14 the state pesticide person came from Cheyenne . He looked at the mess, Bees were still returning and dropping dead in front of hive right in front of him. He was impressed. He scooped up lots of bees for analysis and made a report. The analysis could take months.

I dont know if it was a pesticide happy neighbor or the county spraying the yellow clover fields. But timewise it seems related to the spraying. Hopefully they will recover soon BUT like the canary in the coal mine NOT a good sign when they just drop dead.
And I dont like the idea of wind borne toxic stuff , micro aerosolized, floating around for me to breathe.

HOWEVER I feel very strongly that the mosquito control program in Laramie is outdated and in fact a danger to the environment as well as to people's health. It is time to move forward with a modern, scientific ,evidence based, pollinator friendly program.

There are other states besides Colorado with such - like Washington state. We do not have to reinvent the wheel nor be stuck in the stone age of mosquito control . We all know bees and pollinators are declining - in my view this spraying was reckless and harmful and in the long run makes the mosquito problem worse, The information exists to set up an effective program without spraying toxic organophosphates in daylight.

You can check out Colorado Mosquito Control on web , also good information is found on state webs for Washington Massachusetts and New Jersey.

Thank you for reading this

Helen Coates
Laramie

ALL CITY OF LARAMIE ELECTRONIC CORRESPONDENCE AND ATTACHMENTS MAY BE TREATED AS PUBLIC RECORDS AND SUBJECT TO PUBLIC DISCLOSURE

RESTRICTED USE PESTICIDE

DUE TO EYE AND SKIN CORROSIVITY HAZARD

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicators Certification.

***DIBROM* CONCENTRATE**

INSECTICIDE

FOR USE ONLY BY FEDERAL, STATE, TRIBAL, OR LOCAL GOVERNMENT OFFICIALS RESPONSIBLE FOR PUBLIC HEALTH OR VECTOR CONTROL, OR BY PERSONS CERTIFIED IN THE APPROPRIATE CATEGORY OR OTHERWISE AUTHORIZED BY THE STATE OR TRIBAL LEAD PESTICIDE REGULATORY AGENCY TO PERFORM ADULT MOSQUITO CONTROL APPLICATIONS, OR BY PERSONS UNDER THEIR DIRECT SUPERVISION. NOT FOR USE IN AND AROUND THE HOME BY HOMEOWNERS OR PROFESSIONAL APPLICATORS.

ACTIVE INGREDIENT:

Naled (1,2-dibromo-2,2-dichloroethyl dimethyl phosphate) 87.4%

INERT INGREDIENTS: 12.6%

TOTAL: 100.0%

Contains 13.2 pounds Naled per gallon.

Contains petroleum distillates

**KEEP OUT OF REACH OF CHILDREN
DANGER / PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID Organophosphate	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently from the side of the eye with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth unless individual is contaminated with product. • Call a poison control center or doctor for further treatment advice.

EMERGENCY INFORMATION

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

For Medical Emergencies phone:.....1-888-681-4261

For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC.....1-800-424-9300

For Product Use Information phone : AMVAC.....1-888-462-6822

NOTE TO PHYSICIAN

Naled is an organophosphate cholinesterase inhibitor. Contains petroleum distillates. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (Protopam) is also antidotal and may be used in conjunction with atropine, but should not be used alone. Probable mucosal damage may contraindicate the use of gastric lavage. May pose an aspiration pneumonia hazard.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA Reg. No. 5481-480

EPA Est. No. 5481-CA-1

EPA Est. No. 5481-AL-1

Net Contents:

As Marked on Container



4100 E. Washington Blvd., Los Angeles, CA 90023 U.S.A.

1-888-462-6822

ENGINEERING CONTROLS

- Mixers and loaders supporting aerial or mechanical ground applications must use a closed system designed by the manufacturer to enclose the pesticide to prevent it from contacting handler or other people *AND* the system must be functioning properly and must be used and maintained in accordance with the manufacturer's written operating instructions.
- The system must be capable of removing the pesticide from the shipping container and transferring it into mixing tanks and/or application equipment.
- At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that is warranted by the manufacturer to minimize drippage to not more than 2 mL per disconnect point.

Applicators must:

- Use an enclosed cab/cockpit. Wearing specified PPE (e.g.; chemical resistant gloves) within an enclosed cab/cockpit is not required.
- Be provided and have immediately available for use in case of an emergency repair of the application equipment, the PPE specified in the PPE section of this labeling for handlers engaged in those activities for which use of an engineering control is not possible.
- Take off any PPE that was contaminated before entering or reentering the cab/cockpit.
- Store all such PPE in a closed, chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab/cockpit.

In addition, motorized ground-equipment applicators must:

- Use an enclosed cab with a nonporous barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. The cab must either have a properly functioning ventilation system that is used and maintained according to the manufacturer's written operating instructions and is declared in writing by the manufacturer or by a governmental agency to provide at least as much protection as the type of respirator listed in the PPE section above *or* the occupant must wear a respirator as specified in the PPE section above.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

It is recommended that any worker displaying clinical signs of cholinesterase-inhibition, such as headaches, nausea, and dizziness have an immediate physical examination including appropriate cholinesterase measurements. If initial examination was not conducted by a board-certified person who is certified in occupational health, then a separate examination should be conducted within 24 hours by a person so certified.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and wildlife. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Before making the first application in a season, consult with the primary State agency responsible for regulating the pesticides to determine if permits are required or regulatory mandates exist. Do not apply over bodies of water (e.g., lakes, swamps, rivers, permanent streams, natural ponds, commercial fish ponds, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment washwaters or rinsate.

Treatment of a site must be based on pest surveillance results. Do not treat any site more than 1 time per day. Do not treat any site with more than 2 fl. oz. of undiluted DIBROM Concentrate per acre within a 7 day period and the amount of undiluted DIBROM Concentrate applied to any site should not exceed 104 fl. oz. (10.73 pounds per acre of a.i./acre) per year. More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Ground-Based Application:

Spray equipment must be adjusted so that the volume median diameter (VMD) is less than 40 microns ($D_v 0.5 < 40 \mu\text{m}$) and that 90% of the spray is contained in droplets smaller than 75 microns ($D_v 0.9 < 75 \mu\text{m}$). Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Aerial Application:

Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ($D_v 0.5 < 60 \mu\text{m}$) and that 90% of the spray is contained in droplets smaller than 115 microns ($D_v 0.9 < 115 \mu\text{m}$). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant, or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

OPERATIONAL USE INSTRUCTIONS

- All equipment used in the mixing or application (by ground or air) of DIBROM Concentrate must be constructed of corrosion-resistant materials. Stainless steel, bronze, brass, fiberglass, polypropylene and rigid PVC have all proven to be adequately resistant to the effects of DIBROM Concentrate when properly maintained and inspected.
- Use of Teflon or Viton seals is recommended. Even when these materials are used to construct a spray system, a careful maintenance program involving flushing, cleansing and constant inspection must be followed. Avoid use of steel or galvanized steel.
- Strain DIBROM Concentrate as it is being loaded. Use a 100 mesh stainless steel or nylon screen. If product crystallization occurs, warm at 80°F until crystals disappear. The use of DIBROM Concentrate and some grades of diesel fuel may result in precipitates which cause nozzle clogging and operational difficulties.
- Flushing the system following application is required. Use of heavy aromatic naphtha "Jet A" aircraft fuel, Aromatic 150, Aromatic 200, and Aromatic 200ND have been successful.
- DIBROM Concentrate must be applied using the correct droplet size. Over-atomization produces finer droplets which either evaporate or dissipate too quickly and become unavailable for mosquito contact. If applied incorrectly, DIBROM Concentrate will spot certain automobile paint finishes. Careful attention to recommendations concerning nozzles, nozzle positioning, air speed and droplet size is essential to avoid paint spotting.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

PESTICIDE STORAGE: Keep pesticides in original container. Do not put concentrate into, or dilute in food or drink containers. For help with any spill, leak, fire or exposure involving this material, call day or night 1-888-462-6822.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling:

Returnable Container. Nonrefillable container. Do not reuse or refill this container. This container is a dedicated, single-product returnable container. Return empty container to seller at location designated by seller as a collection point. Do not break seals, add anything to container or open container after use. Do not rinse or contaminate empty container. Do not dispose of untampered empty container or use it for any other purposes. Any evidence of broken seals or other tampering or adding anything to the container renders it unfit for return. In such case, it is the obligation of the holder of the container to dispose of it properly or offer for recycling, if available.

It is required that this product be used in a CLOSED SYSTEM. This container may require a tank adapter. For questions regarding tank adapters, call AMVAC Customer Service at 1-888-462-6822 (1-888-GO-AMVAC).

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

DIBROM[®] is a registered trademark of Amvac Chemical Corporation.

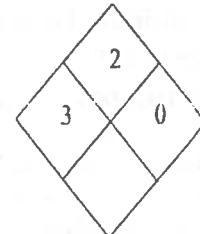
Amvac Chemical Corporation
4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A.
1-888-462-6822

11119-8

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DIBROM® CONCENTRATE
GENERAL USE: Insecticide
PRODUCT DESCRIPTION: Off-white to straw yellow liquid with a sharp,
pungent odor
EPA REGISTRATION NUMBER: 5481-480
MSDS NUMBER: 260_11
CURRENT REVISION DATE: 13 December, 2011



MANUFACTURER:
AMVAC CHEMICAL CORPORATION
4100 E. Washington Blvd.
Los Angeles, CA 90023-4406
PHONE: 323-264-3910
FAX: 323-268-1028

EMERGENCY TELEPHONE NUMBERS:
MANUFACTURER: 323-264-3910
TRANSPORTATION (24 HOURS)
CHEMTREC: 800-424-9300
OTHER (24 HOURS)
AMVAC: 323-264-3910

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Naled	DDVP	Naphthalene
Synonyms	1,2-Dibromo-2,2-dichloroethyl dimethylphosphate; DIBROM®	2,2-Dichloroethyl dimethylphosphate; DICHLORVOS	
CAS Number	300-76-5	62-73-7	91-20-3
Hazard	Poison; Corrosive	Poison, Possible carcinogen	Possible Carcinogen
Wt%, Typical	87.4%	less than 2%	less than 1%
Exposure Limits	OSHA PEL: 3 mg/m ³ ACGIH TLV: 0.1 mg/m ³	OSHA PEL: 1 mg/m ³ ACGIH TLV 0.1 mg/m ³	OSHA PEL: 10 ppm ACGIH TLV: 10 ppm ACGIH STEL: 15 ppm

DIBROM is a Registered Trademark of AMVAC Chemical Corporation.

3. **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW:

DANGER! POISON! CORROSIVE! An off-white to straw yellow liquid with a sharp, pungent odor that causes irreversible eye and skin damage. May be fatal if swallowed, inhaled or absorbed through skin and eyes. Is a cholinesterase inhibitor. Rapidly absorbed through skin. Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to organophosphate (including Naled) poisoning. May be an aspiration hazard. May cause an allergic reaction.

PRODUCT is combustible.

TOXIC to fish, birds, and other wildlife.

KEEP OUT OF THE REACH OF CHILDREN!

POTENTIAL HEALTH EFFECTS

ROUTE(S) OF ENTRY: May be fatal if swallowed, inhaled or absorbed through skin and eyes. May produce acute cholinesterase depression. May cause corrosive destruction of the skin, mucous membranes and the eyes.

SIGNS OF ACUTE OVEREXPOSURE: Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, tightness in chest, weakness, muscle twitching and confusion; in extreme cases, unconsciousness, convulsions, severe respiratory depression and death may occur.

This product is expected to be corrosive to the eyes. The degree of injury will depend on the amount and duration of the contact and the speed and thoroughness of the first aid treatment. Expected adverse health effects resulting from direct exposure to the eye may include pain, tears, swelling, redness, blurred vision, irreversible eye damage and possibly blindness.

This product is expected to be corrosive to the skin. The degree of injury will depend on the amount and duration of the contact and the speed and thoroughness of the first aid treatment. The expected adverse health effects resulting from a direct exposure to the skin may include pain or a feeling of heat, discoloration, swelling, blistering, and irreversible tissue damage. This product is expected to be corrosive to the digestive tract, and, if ingested, may cause nausea, vomiting and diarrhea.

This product is expected to be corrosive to the respiratory tract, and, if inhaled, may cause symptoms that include nasal discharge, sore throat, coughing, bronchitis, pulmonary edema, and difficulty in breathing.

3. HAZARDS IDENTIFICATION, cont'd

SIGNS OF CHRONIC OVEREXPOSURE: Repeated exposures to small doses of Naled and other organophosphates may lower the cholinesterase to levels where the above symptoms of acute overexposure are observed.

CARCINOGENICITY: There is no evidence of carcinogenicity in laboratory animals with Naled Technical. EPA under its 1999 proposed Guidelines for Carcinogen Risk Assessment has classified DDVP, an impurity in Naled, as having "suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential.". IARC lists DDVP (Dichlorvos) as being possibly carcinogenic to humans (Group 2B). Based on the results of testing in mice, the IARC has recently classified Naphthalene, a component of the solvent used for this formulation, as being possibly carcinogenic to humans (Group 2B). **CARE SHOULD BE EXERCISED IN HANDLING THIS FORMULATION.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Preexisting conditions which lower cholinesterase levels increase vulnerability to cholinesterase depression. These include: (for plasma) genetic cholinesterase deficiency; advanced liver disease; chronic alcoholism; malnutrition; dermatomyositis; existing toxicity from exposure to carbon disulfide; benzalkonium salts, organic mercury compounds, ciguatoxins or solanines; and (for RBC) hemolytic anemias.

4. FIRST AID MEASURES

DIBROM® CONCENTRATE CONTAINS A CHOLINESTERASE INHIBITOR (NALED). A PHYSICIAN SHOULD BE CONTACTED IN ALL CASES OF EXPOSURE TO NALED AND ITS FORMULATIONS.

THIS PRODUCT IS CORROSIVE TO EYES AND SKIN.

EYES: Immediately flush the eyes with copious amounts of clear, cool running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Contact a physician immediately. If there will be a delay in getting medical attention, rinse the eyes for at least another 15 minutes.

INHALATION: Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately.

INGESTION: DO NOT induce vomiting. If victim is conscious, administer an 8 oz. glass of water containing 2 tbsp. activated charcoal. Have person lie on their left side to slow down absorption of the ingested material. Never give anything by mouth to an unconscious person. Contact a physician immediately.

SKIN: Immediately flush all affected areas with large amounts of clear water for at least 15 minutes. Remove contaminated clothing. Do not attempt to neutralize with chemical agents. Wash clothing before reuse. Contact a physician immediately.

4. FIRST AID MEASURES, cont'd

NOTE TO PHYSICIANS: This is an Organophosphate (OP) Insecticide. Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning. In the USA and other countries, contact your local or national poison control center for more information.

Do Not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Dispose of heavily contaminated clothing, including shoes, as a hazardous waste.

Establish airway and oxygenation. IV Atropine sulfate is the antidote of choice. Moderately severe poisoning: use 0.4-2.0 mg in adults or 0.05 mg/kg in children. Repeat every 15 minutes until atropinization is achieved. Severe poisoning may require larger doses. Cholinergic toxicity may recur as atropinization wears off; monitor patient closely. Draw blood for RBC and plasma cholinesterase. In addition, Pralidoxime (2-PAM) is indicated during the first 36 hours in severe poisonings. Slow IV administration (no less than 2 minutes) of 1 g in adults or 20-50 mg/kg in children may be repeated in 1 to 2 hours if muscle weakness, twitching, and/or respiratory depression persist. Avoid morphine, aminophylline, phenothiazines, reserpine, furosemide and ethacrynic acid.

Bathe and shampoo contaminated skin and hair. If ingested, empty stomach. Due to the presence of aromatic solvents, gastric lavage should be considered following intubation with a cuffed endotracheal tube to prevent aspiration of vomitus. Activated charcoal is useful to further limit absorption.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: 151°F (closed cup)

Autoignition Temperature: No data available

Flammable Limits:

Lower flammable limit: No data available

Upper flammable limit: No data available

Flammability: This is a combustible liquid that will burn when heated (NFPA rating = 2)

EXPLOSIVITY

Mechanical Impact: Not explosive

Static Discharge: Will not occur

HAZARDOUS COMBUSTION PRODUCTS: This product will emit toxic fumes when burned, including hydrogen chloride, hydrogen bromide, phosphorous oxides and carbon monoxide. Vapors of the unburned product may also be hazardous. Contact with the fumes and vapors should be avoided by staying upwind and by wearing impervious clothing and positive pressure self-contained breathing apparatus.

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray (fog).

5. FIRE FIGHTING MEASURES, cont'd

FIRE FIGHTING INSTRUCTIONS: Evacuate nonessential personnel from the area. Keep upwind. Wear self-contained breathing apparatus and impervious clothing, including gloves and eye protection. Clean all clothing before reuse.

6. ACCIDENTAL RELEASE MEASURES

GENERAL: Evacuate personnel and thoroughly ventilate the area. Use adequate ventilation and air-supplied respirators, as well as impervious clothing and safety goggles. Keep bystanders upwind and away from the spill.

SMALL SPILL: Cover with nonflammable absorbent (clay, sand, oil dry, kitty litter, etc.) to absorb the liquid. Sweep into an open plastic drum. Decontaminate the area and equipment with dilute alkali or ammonia (less than 5% solution) and detergent. Flush the area with water. Absorb and sweep into the same open plastic drum. Close the drum and dispose of as a hazardous waste.

LARGE SPILL: Dike the spill to prevent contamination of local water sources. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Clean the area as described for a small spill.

7. HANDLING AND STORAGE

HANDLING: Prevent skin contact. Do not breathe fumes. Wear appropriate personal protective equipment (See Section 8). Wash thoroughly and change clothes after handling. Keep product away from food drink, cosmetics, and tobacco products. See product label for more detailed handling procedures.

STORAGE: Do not contaminate water, food or feed by storage or disposal. Store product in a cool, dry, locked place out of reach of children. Store in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: A well-ventilated area is recommended for handling DIBROM® CONCENTRATE. Use of mechanical or local exhaust systems is recommended.

RESPIRATORY PROTECTION: When respiratory protection is required, or concentrations may exceed the PEL, use a NIOSH/MSHA approved air-purifying respirator equipped with organic vapor cartridges or canisters. For emergency and other conditions where the exposure limit may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION, cont'd

SKIN PROTECTION: Chemical resistant gloves (preferably nitrile), body covering clothing that has long sleeves and long pants, and chemical resistant shoes or boots, are required to prevent skin contamination. A chemical resistant apron is required when there is a risk of spillage or splashing. Wear clean clothes daily. Wash well with soap and water after handling this product. See the label for more specific instructions.

EYE PROTECTION: Safety glasses should be worn whenever working with chemicals. Goggles or a faceshield are required if there is a chance of splashing.

OTHER PROTECTION: There should be an eyewash station and a safety shower in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	An off-white to straw yellow color
ODOR:	Sharp, pungent, with overtones of aromatic solvent
ODOR THRESHOLD:	No data available
BOILING POINT:	320°F/160°C
FREEZING/MELTING POINT:	60°F/15°C
SPECIFIC GRAVITY:	1.794 to 1.831
BULK DENSITY:	14.97 to 15.28 lb/gal
VAPOR PRESSURE (mm/Hg):	10 mm Hg @ 100°F
VAPOR DENSITY:	Heavier than air
PERCENT VOLATILE BY VOLUME:	5%
SOLUBILITY IN WATER:	0.2%
SOLUBILITY (Other):	This product is soluble in aromatic hydrocarbons, chlorinated hydrocarbons, ketones, and esters
PARTITION COEFFICIENT (O/W):	Approx. 100 (a.i.) at ambient temperatures
pH:	Not available
EVAPORATION RATE:	Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: This product is stable under normal use and storage conditions. It may be photochemically reactive.

INCOMPATIBILITY: Unstable in the presence of iron or alkaline media. Corrosive to iron, aluminum and magnesium. Hydrolyzes slowly under neutral or acid conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Heating product to decomposition will cause emission of acrid smoke and fumes of hydrogen chloride, hydrogen bromide, phosphorous oxides, carbon oxides and unknown organic compounds.

HAZARDOUS POLYMERIZATION: This product will not polymerize.

11. TOXICOLOGICAL INFORMATION

GENERAL: The following information is available for Naled technical and two related formulations, DIBROM® 8 and DIBROM® 14:

INGESTION:	Oral LD ₅₀ (rat):	>50 mg/kg <500 mg/kg (Naled Technical)
INHALATION:	Inhalation LC ₅₀ (rat):	1.51/>2.07 mg/L (male/female), 4 hr (DIBROM® 8)
DERMAL:	Skin LD ₅₀ (rabbit):	4037 mg/kg (female/male) Naled Technical
IRRITATION:	Eye irritation:	Corrosive (DIBROM® 14) Tox. Cat. I
	Skin irritation:	Corrosive (DIBROM® 14) Tox. Cat. I
SENSITIZATION:	Skin sensitization: (guinea pig)	Weak Skin Sensitizer (Naled Technical)

TERATOGENICITY: Maternal toxicity in rats was observed at 40 mg/kg/day (body weight loss, tremors, painful or difficult breathing, and decreased activity) using Naled Technical (a.i.). No developmental effects were observed at this dose level. The maternal NOEL was 10 mg/kg/day. The developmental NOEL was 40 mg/kg/day.

REPRODUCTIVE TOXICITY: In a two-generation rat reproduction study with Naled Technical (a.i.), a decrease in male body weight gain was observed at 18 mg/kg/day; however, no effects on reproduction were found in adult animals. Decreases in offspring survival, number of pups born and decreased pup weights were noted at 18 mg/kg/day. The NOEL for both adults and offspring was 6 mg/kg/day.

MUTAGENICITY: No evidence of mutagenicity activity from *in vitro* and *in vivo* tests, using Naled Technical (a.i.).

CARCINOGENICITY: No evidence of carcinogenicity in laboratory animals with Naled Technical. However, EPA under its 1999 proposed Guidelines for Carcinogen Risk Assessment has classified DDVP, an impurity in Naled, as having "suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential." Based on the results of testing in mice, the IARC has recently classified Naphthalene, a component of the solvent used for this formulation, as being possibly carcinogenic to humans (Group 2B).

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: No data available.

12. ECOLOGICAL INFORMATION

GENERAL: This product is toxic to fish, birds, and other wildlife. Keep out of any body of water. Do not contaminate water when disposing of equipment washwaters or wastes.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed by use according to label instructions, contact your nearest State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.

13. DISPOSAL CONSIDERATIONS, cont'd

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Contact your nearest State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.

14. TRANSPORTATION INFORMATION

DOT CLASS:	8*, 6.1
CANADA SHIPPING CLASS:	8, 6.1
ADR CLASS (road):	8, 6.1
AUSTRALIAN SHIPPING CLASS:	8, 6 Subsection 111
UN NUMBER:	UN2922
IMDG CLASS (sea):	8, 6.1
IATA CLASS (air):	8, 6.1
MARINE POLLUTANT:	Yes
PACKING GROUP:	III
HAZARD LABEL(S):	CORROSIVE, TOXIC
PROPER SHIPPING NAME(S):	Corrosive liquids, toxic, n.o.s. (Naled)
REPORTABLE QUANTITY:	Yes
(DOT, 172.101, Appendix A)	

TYPICAL PACKAGING : 30 gallon polyethylene drums
(General Description)

* **NOTE:** A study run with Naled Technical showed that it is considered non-corrosive by DOT criteria when applied to the intact skin of albino rabbits. However, DIBROM® 8 Emulsive, a similar product to DIBROM® Concentrate, is corrosive to carbon steel at a rate exceeding 0.25 inches per year, so it is a packing group III corrosive for DOT purposes.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

CANADIAN REGULATIONS: This product is not registered under the Pest Control Product Act of Canada.

EUROPEAN UNION REGULATIONS: This product is not registered in the European Union.

15. REGULATORY INFORMATION, cont'd

SARA TITLE III DATA

Section 311 & 312 Hazard Categories:

Immediate Health Hazard: Yes
Delayed Health Hazard: Yes
Fire Hazard: Yes
Reactive Hazard: No
Sudden Pressure Release Hazard: No

Section 302 Extremely Hazardous Substances: DDVP (Dichlorvos, 62-73-7)

Section 313 Toxic Chemicals: Naled (300-76-5); DDVP (Dichlorvos, 62-73-7);
Naphthalene (91-20-3)

CERCLA/EHS Reportable Quantities: DDVP (Dichlorvos) - 10 lbs; Naled - 10 lbs;
Naphthalene -100 lbs; Product (calc'd) - 11 lbs (based on Naled content)

STATE REGULATIONS:

CALIFORNIA (Proposition 65): This product contains chemicals known to the State of California to cause cancer - DDVP, Naphthalene.

16. OTHER INFORMATION

MSDS STATUS:

Date This Revision: 13 December, 2011
Date Previous Revision: 24 October, 2008
Person Responsible for Preparation: Gary A. Braden

REASONS FOR REVISION: Annual review. Reference to registration in Australia was removed.
Minor formatting changes were made throughout the msds.

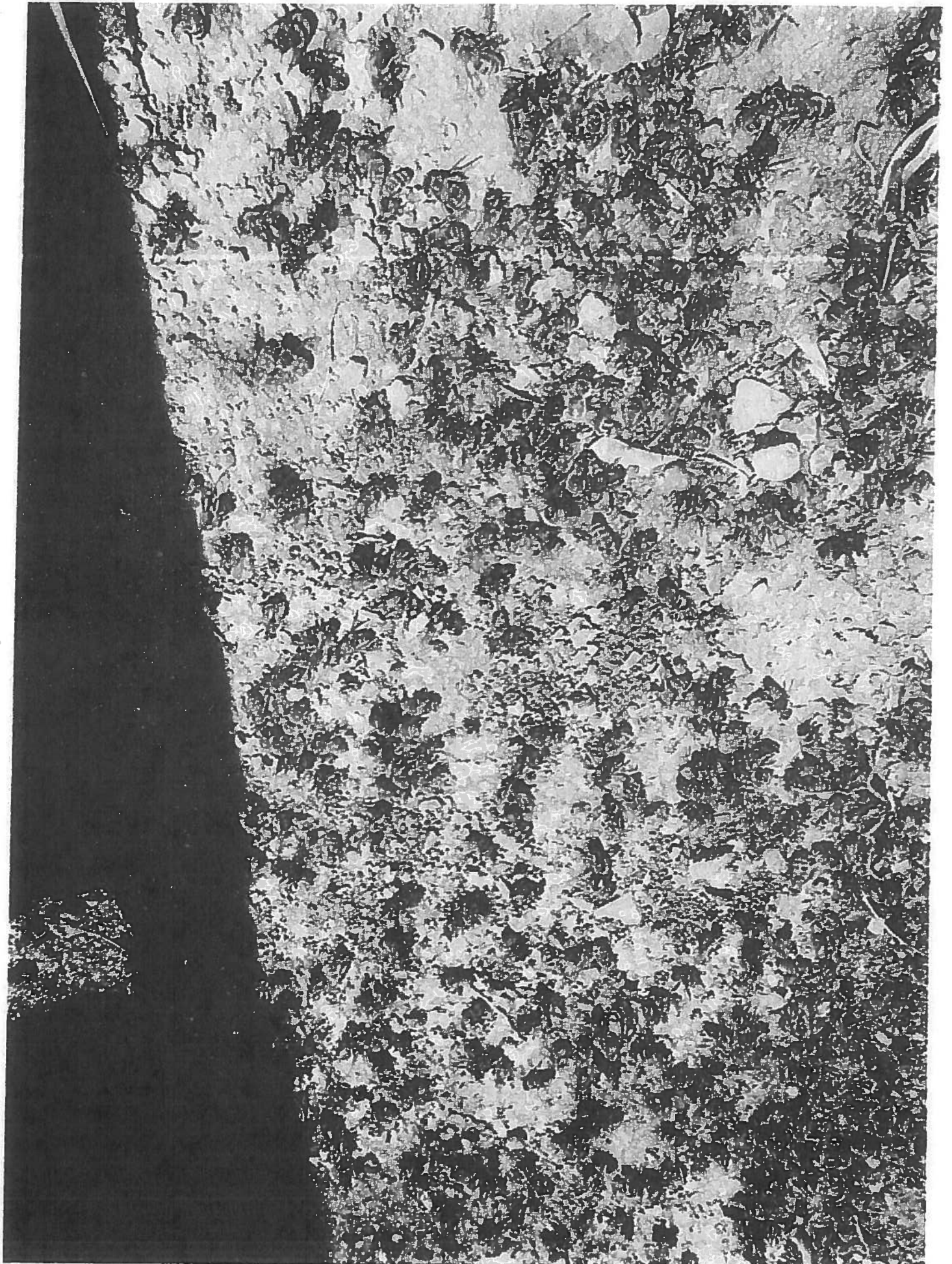
DISCLAIMER: This information is provided for the limited guidance to the user. While AMVAC believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

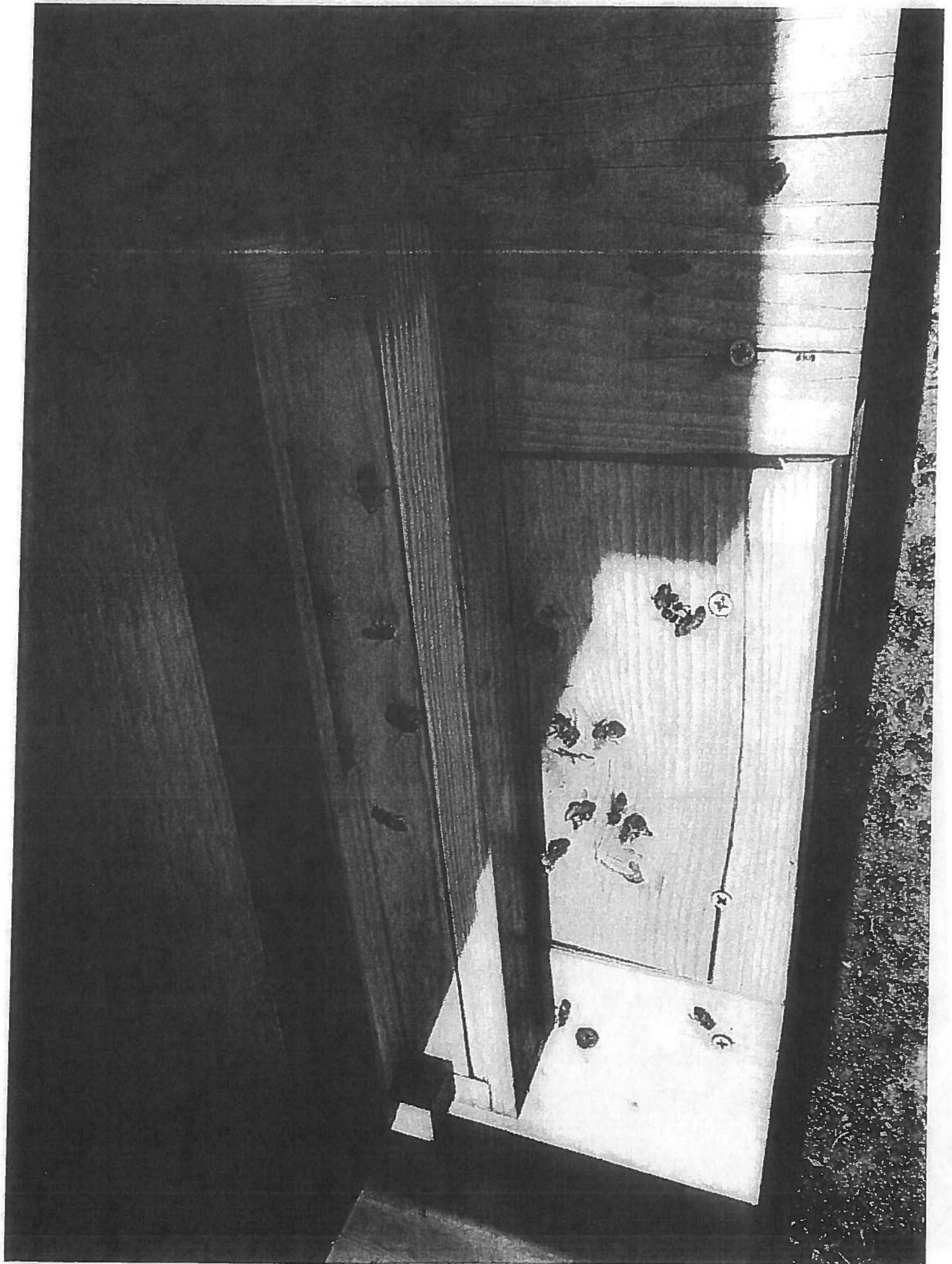
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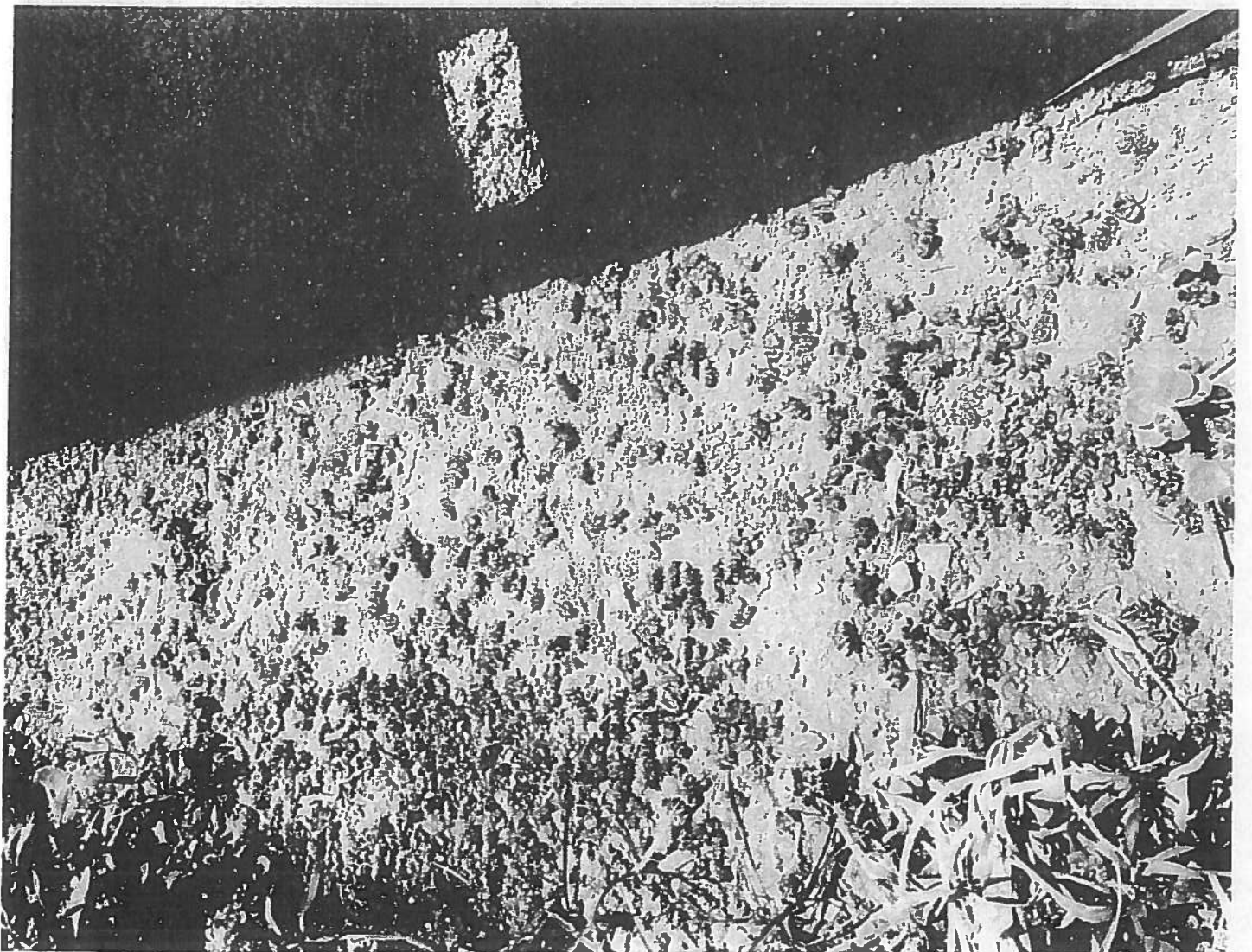
ABBREVIATIONS:

a.i.	-	active ingredient
ACGIH	-	American Conference of Governmental Industrial Hygienists
ADR	-	Mark used to indicate European Approval for the Transport of Dangerous Goods by Road
CERCLA	-	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	-	Department of Transportation (USA)
EPA	-	Environmental Protection Agency
FIFRA	-	Federal Insecticide, Fungicide, and Rodenticide Act
IARC	-	International Agency for Research on Cancer
IATA	-	International Air Transport Association
IMDG	-	International Maritime Dangerous Goods
NTP	-	National Toxicology Program
SARA	-	Superfund Amendments and Reauthorization Act
Tox. Cat.	-	Toxicity Category
TSCA	-	Toxic Substances Control Act

This is the last page of this MSDS. There should be 10 pages.







Attachment E

Programs in the western United States using Dibrom by aerial application.

WY

City of Laramie

Little Laramie MCD

Elk Mountain

Casper/Natrona County

Uinta County

UT

Utah Co

Davis Co

Salt Lake Co

Vernal

Box Elder

South SLC Co

Rich Co

ID

ADA Co

Teton Co

Bingham Co

Power Co

Payette Co

OR

Baker CO

Union Co

Umitila Co

North Morrow Co

WA

Benton Co

Franklin Co

Columbia Co

Programs using Malathion aerially

CO

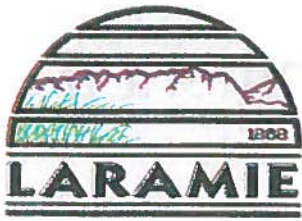
Alamosa MCD

WY

Rock Creek MCD

Town of Lusk

Town of Saratoga




CITY OF LARAMIE
PARKS & RECREATION DEPARTMENT
P.O. Box C
Laramie, WY 82073

Parks Division: (307) 721-5264
Fax (307) 721-5256
Recreation Division: (307) 721-5269
Fax: (307) 721-5284
Facilities Mgmt Division: (307) 721-3585
TDD (307) 721-5295
Administration: (307) 721-3572

Memorandum

To: Parks, Tree, and Recreation Advisory Board

From: David Schott, Parks Manager 

Date: September 9, 2015

Re: Parks Division Staff Report

Dear Members of the Parks, Tree, and Recreation Advisory Board,

The Parks Division is committed to providing excellent recreational experiences for our residents and visitors. Staff is currently involved in the following items.

- The staff has submitted a Wyoming Cultural Trust Fund grant application for lighting upgrades to the Edgar. J Lewis Bandshell at Washington Park prior to repairing and painting. In March, Council considered and approved Resolution 2015-26 in support of the grant application for \$23,000. The award was approved in the reduced amount of \$10,000. Staff has reduced the scope of the project for the ambient lighting and will begin the project this fall. Painting and repairs is schedule for the spring of 2016.
- The Parks, Tree and Recreation Advisory Board and the Laramie Beautification Committee considered and approved Snowy Range Road as the entrance beautification site for the 2015 Community Service Day Project. The project site is located on Snowy Range Road from I-80 to Garfield Street. The date has been set for October 10th to align with the "Big Event" of volunteer efforts.
- The LaPrele Park Huck Finn Pond fishing pier replacement and ADA upgrades has been completed.
- Staff has completed the improvements to the Optimist Park Dog Friendly off Leash Area. The improvements include a dog drinking fountain, fencing to protect existing trees, re-seeding, and a bench.
- Mosquito control has concluded adult mosquito control fogging operations for the season.
- The City Arborist has inventoried the public right of way trees in the tree area to update the inventory done in 1998 by the Wyoming State Forestry Division.
- Staff will begin winterization of the parks including irrigation and restroom beginning in late September.
- The pad for the Little Free Library on Plains and Bath has been completed along with the installation of the Little Free Library.
- Parks staff completed the Skatepark maintenance at LaBonte Park.
- Cyclocross practices have begun at LaPrele Park on Wednesday evenings through October, weather permitting.

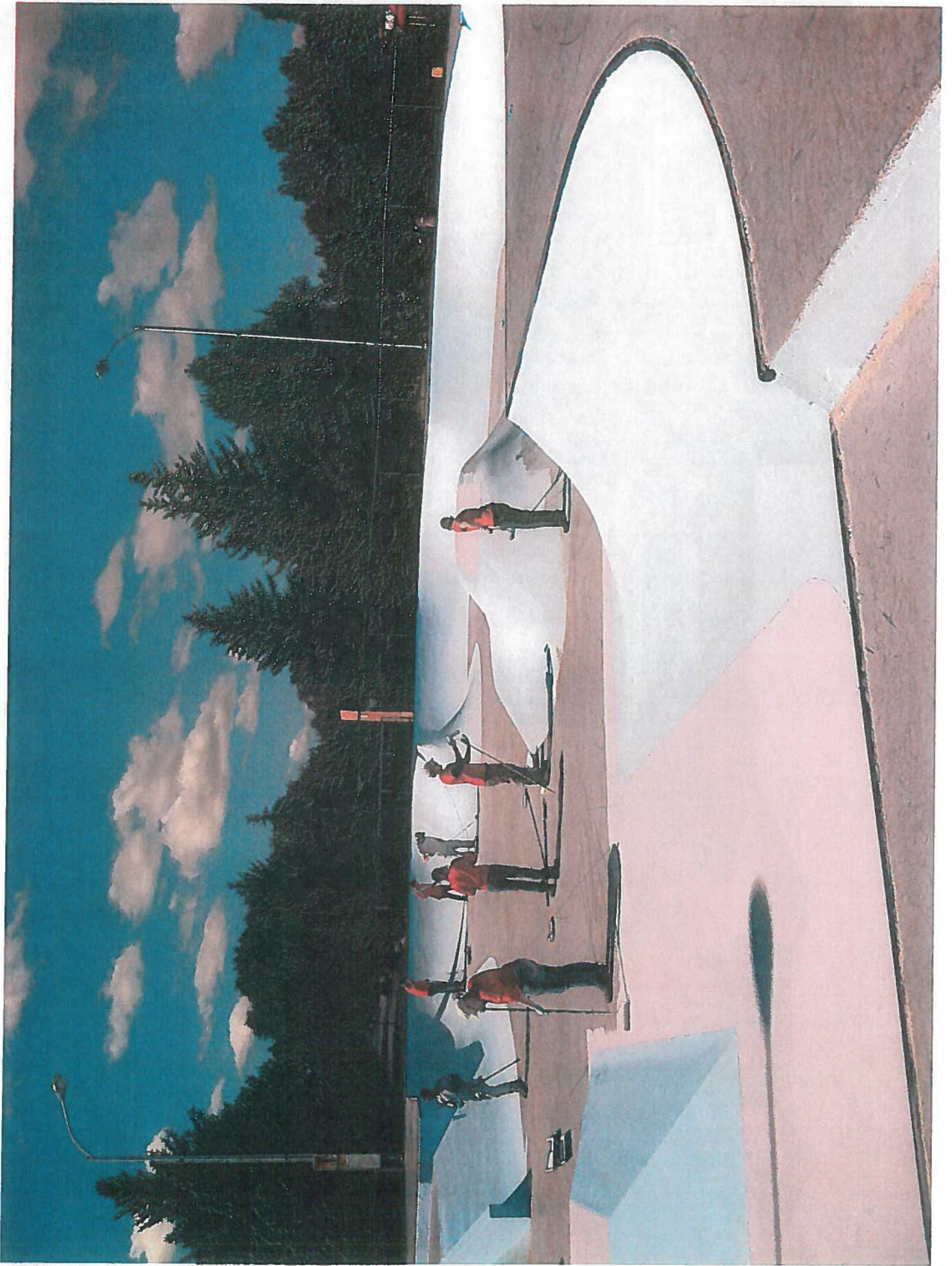
Respectively Submitted,

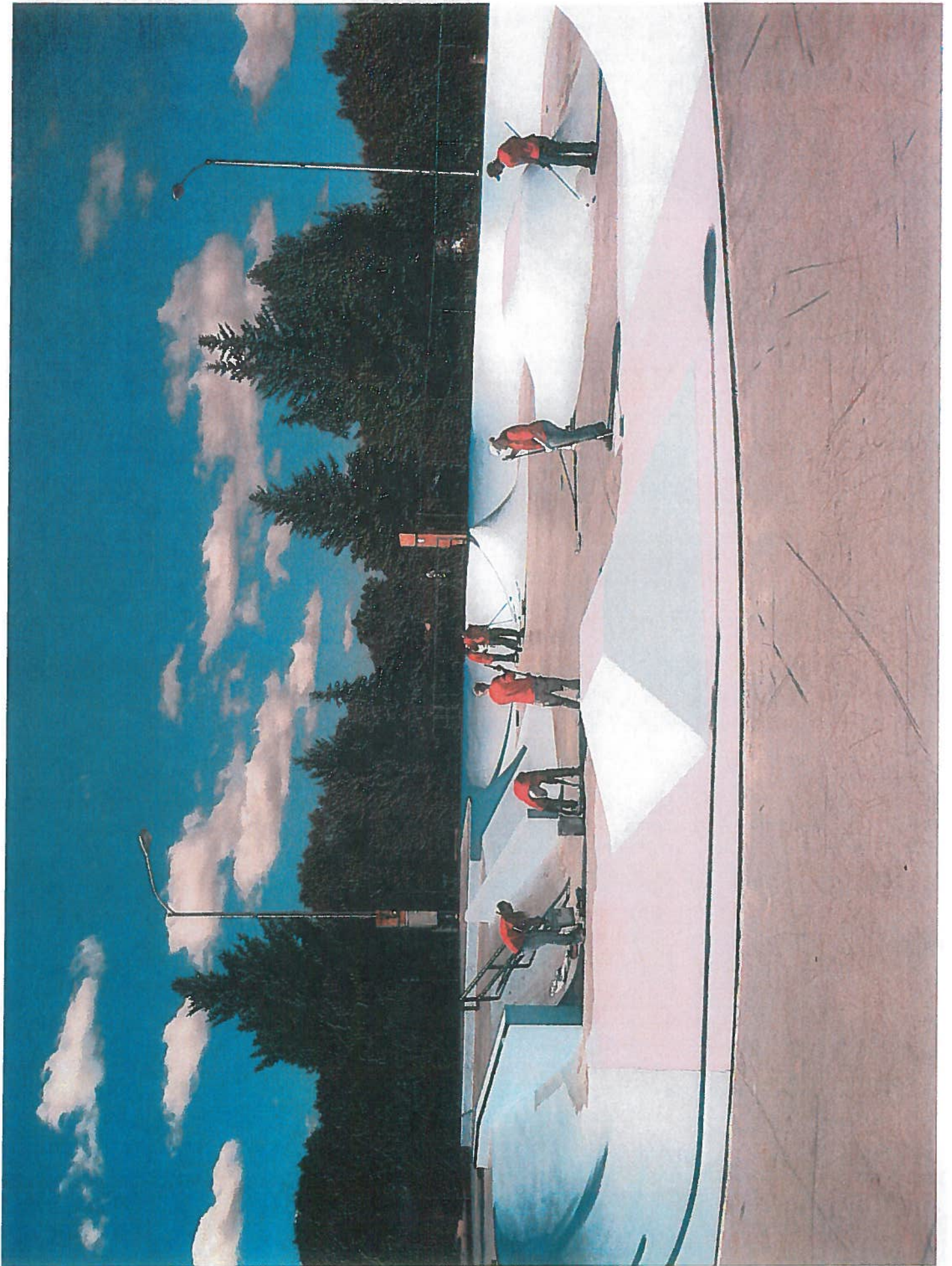
David R. Schott

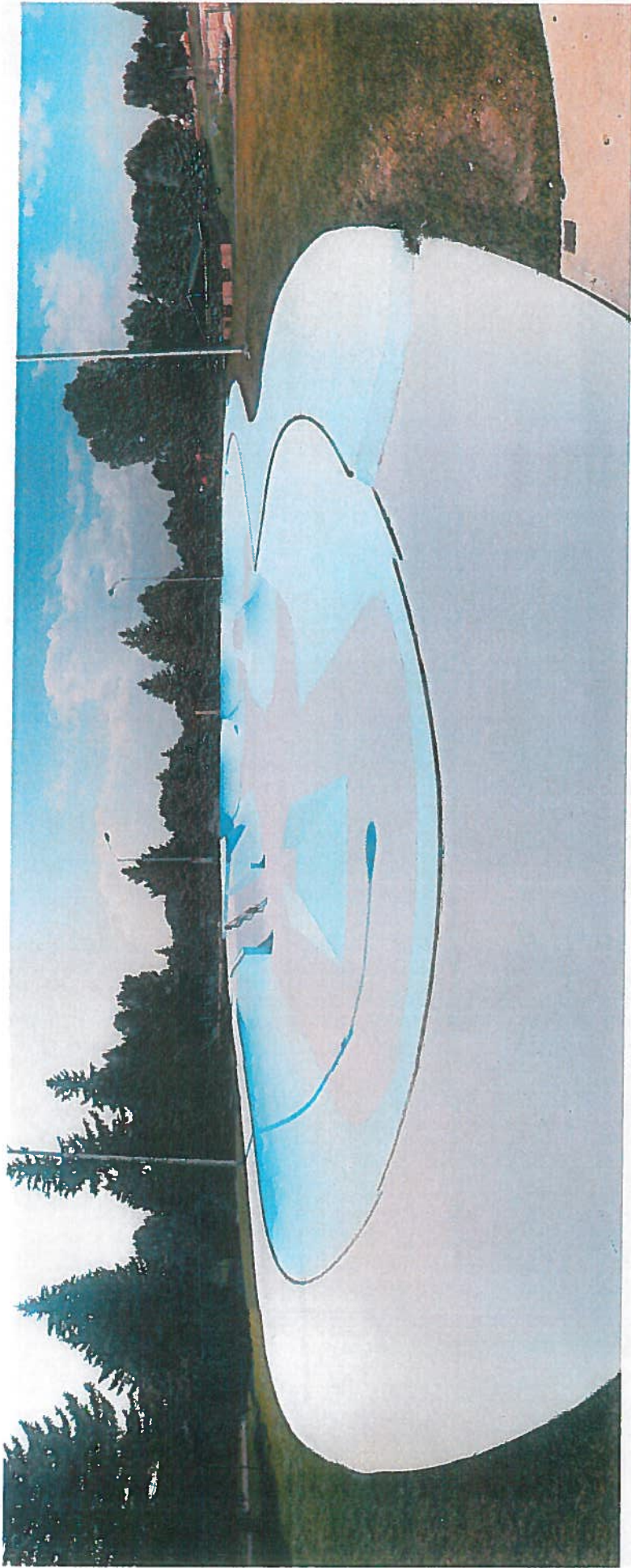
David Schott
Parks Manager











Laramie River Greenbelt Trail Count 2015

North (located on the east end of UPRR trestle bridge)

Month:	Total:	Notes:
January	1,638	Checked and reset Feb. 2, 2015
February	1,700	Battery Change. Checked and reset Mar. 2, 2015
March	3,233	Checked and reset Apr. 2, 2015
April	3,371	Checked and reset May 1, 2015
May	2,617	Checked and reset Jun. 1, 2015
June	2,346	Battery Change. Checked and reset Jun. 30, 2015
July	3,621	Checked and reset Jul. 31st, 2015
August	4,935	Checked and reset Aug. 31, 2015
September		
October		
November		
December		

Yearly Total (North):	23,461
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Average Per Month:	2,933
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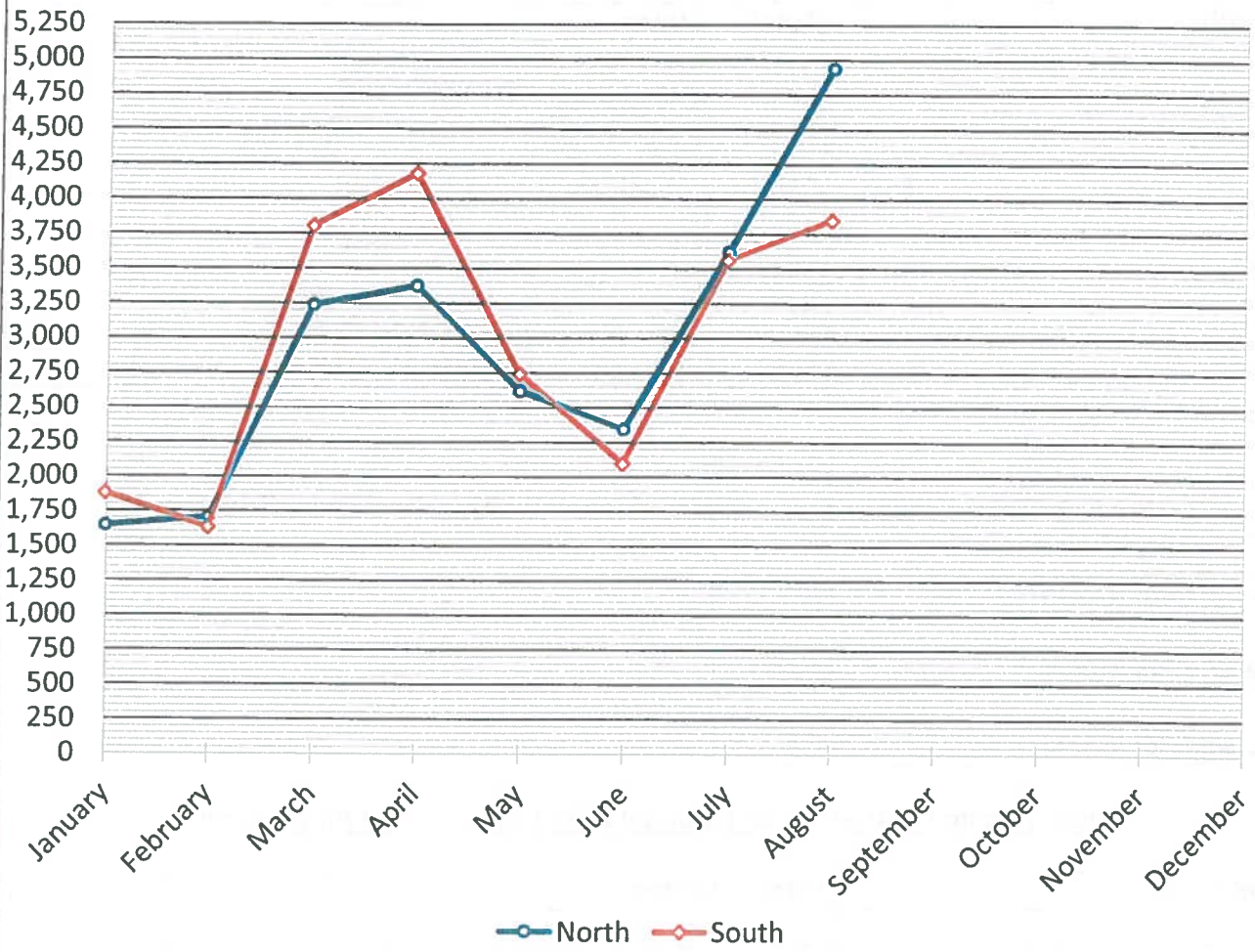
Average Per Week:	711
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South (located just south of Optimist Park trailhead and playground)

Month:	Total:	Notes:
January	1,872	Checked and reset Feb. 2, 2015
February	1,627	Battery Change. Checked and reset Mar. 2, 2015
March	3,803	Checked and reset Apr. 2, 2015
April	4,179	Checked and reset May 1, 2015
May	2,741	Checked and reset Jun. 1, 2015
June	2,097	Battery Change. Checked and reset Jun. 30, 2015
July	3,564	Checked and reset Jul. 31, 2015
August	3,850	Checked and reset Aug 31, 2015
September		
October		
November		
December		

Yearly Total (South):	23,733	Notes:
Average Per Month:	2,967	
Average Per Week:	719	
Yearly Total (North and South)	47,194	

Laramie River Greenbelt Trail Count 2015



Recreation Division Staff Reports

For the Month of : August 2015

Presented by: Jodi Guerin

August Fitness User Counts

Drop-in Vists

Member	169
Non-Member	68

Totals	237
---------------	------------

Fitness Pass Visits

6 Month Pass	40
12 Month Pass	82

Totals	122
---------------	------------

August User Counts	359
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Fitness Notes

Water fitness continues to be strong averaging 4 participants each class. Adding a weekly Wednesday 6:15 PM Deep Water Aerobics drop-in class.

The Fall Fitness Schedule starts August 31st and includes a few new courses to the drop-in schedule.

Now that school has started morning class attendance has increased.

Yoga is moving to 9:30 AM from 9:45AM

Athletics August 2015

Adult Softball

Coed Softball has been running throughout the month of August and is beginning the tournaments on August 31st. The weather has been much more cooperative during the Coed season, and we should be completing the tournament on September 11th.

Sand Volleyball

The Adult Sand Volleyball League finished up during the month of August. We had a larger field of teams this year than in the past, and the teams all seemed to have an enjoyable experience. There was a showing of excellent sportsmanship exhibited by the teams, and I received several pieces of positive feedback from teams and captains.

Jr. Cowboys Flag Football

The Jr. Cowboys Flag Football Program finished up the last week of August. The season last year began near the end of August, and we moved it to earlier dates in the season to accommodate the soccer use this fall. The positive result was better weather for the kids to play in, with happy parents watching the games. There was a large gap in the number of participants this year with a much larger group in the 2nd-3rd grade division than in the K-1st grade division. The plan for the future is to change the way we advertise for the program.

Little Sluggers T-Ball

The Little Sluggers T-Ball program also finished up the last week of August. It was a fun program that was supported by many parents. Our numbers were down this year, so we gathered information from the parents to help improve the program in the future.

Adult Volleyball

The registration period has begun for our Fall Session of Adult Volleyball. There will be four divisions, Monday/Wednesday Coed Rec, Tuesday/Thursday Coed Rec, Competitive, and Women's. We will begin games the last week of September and go through November.

SACCErollment - Fall 2015

There are currently 66 children enrolled in the SACC program, with the following breakdown of registration, by day of week:

M	T	W	Th	Fr
46	48	54	55	47

SACC Updates

September Clubs include STEM, Cooking, Mythology, Superhero Boot Camp, Swimming, Gym & Yard Games. Our partnership with Abundance Creative Arts Center to provide art, dance, music, theatre, creative writing, and yoga continues as an ever-popular weekly club option for the children.

Head Teacher, Leah Ritz, gave a two-week notice of resignation, with her last day being Friday, August 29, as she accepted a position as Director of Education for Science Corps in Casper. The position was immediately posted, with applications currently being reviewed and interviews scheduled. If you know of anyone who may be qualified and interested, please direct them to www.cityoflaramie.org to complete an application.

Ice & Event Center

July

Public Skate Admissions --92

Total Rental Hours--67 Hours

August

Public Skate Admissions --50

Total Rental Hours--73 Hours

Total Party Package #3--1

Notes

In August, we changed focus to the pending Ice season. We ended our public skate on August 14th and finished our reservations with the Naughty Pines. Preparations for the Ice Season include equipment maintenance, staff training and ice building. We will start laying Ice September 1st and open our doors for the winter season October 1st.

Pool Attendance - August, 2015

	Leisure		8 Lane	ODL	Daily Totals
1	151		55	72	278
2	188		77	101	366
3	0		0	133	133
4	0		0	88	88
5	0		0	119	119
6	0		0	122	122
7	0		0	114	114
8	0		0	150	150
9	0		0	65	65
10	151		62	61	274
11	148		69	73	290
12	209		103	166	478
13	133		94	141	368
14	219		77	55	351
15	184		104	103	391
16	186		73	109	368
17	135		51	17	203
18	196		89	79	364
19	127		51	0	178
20	204		68	0	272
21	151		93	116	360
22	85		40	69	194
23	121		50	57	228
24	205		82	139	426
25	159		122	0	281
26	90		56	0	146
27	85		48	0	133
28	66		47	0	113
29	149		48	0	197
30	171		41	0	212
31	122		102	0	224
Total	3635		1702	2149	7486

Aquatics Notes

1. Closed the 8 Lane and IDL 3rd thru 9th for annual maintenance.
2. 1st swim meet is a practice meet (girls h.s.) August 25th 3. 1st official swim meet is August 31st vs. Central.
4. Fall swim lessons begin August 31st.
5. The ODL pool closed after the 24th.
6. Dog Day at the Park was a success with approximately 75 dogs enjoying the Washington Park Pool.

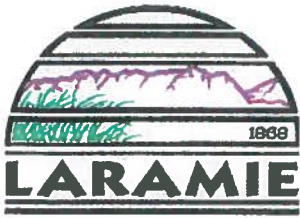
**City of Laramie Recreation
CHILD CARE**

January - December 2014/15

Activity/Program	#s	Income	Hours	Personnel	Materials	Net Income
<i>Child Care - January 2015</i>	98	\$367.00	60.50	\$540.00		-\$173.00
<i>Child Care - January 2014</i>	121	\$429.00	69.25	\$630.59		-\$201.59
<i>Child Care - February 2015</i>	62	\$233.00	59.00	\$525.00		-\$292.00
<i>Child Care - February 2014</i>	152	\$461.50	57.52	\$508.65		-\$104.67
<i>Child Care - March 2015</i>	66	\$257.50	50.00	\$437.50		-\$180.00
<i>Child Care - March 2014</i>	110	\$405.00	57.70	\$502.70		-\$97.70
<i>Child Care - April 2015</i>	67	\$281.50	54.50	\$476.87		-\$195.37
<i>Child Care - April 2014</i>	107	\$392.00	48.50	\$370.24		21.76
<i>Child Care - May 2015</i>	55	\$205.50	36.00	\$322.92		-\$117.42
<i>Child Care - May 2014</i>	130	\$495.00	49.25	\$214.50		\$280.50
<i>Child Care - June 2015</i>	47	\$179.50	36.00	\$322.93		-\$143.43
<i>Child Care - June 2014</i>	89	\$371.00	30.00	\$269.10		\$101.90
<i>Child Care - July 2015</i>	37	\$145.00	23.25	\$204.43		-\$59.43
<i>Child Care - July 2014</i>	87	\$304.50	28.00	\$251.16		\$53.34
<i>Child Care - August 2015</i>	28	\$106.00	20.25	\$189.35		-\$83.35
<i>Child Care - August 2014</i>	74	\$259.00	30.00	\$269.10		-\$10.10
<i>Child Care - September 2014</i>	86	\$304.00	43.00	\$390.69		-\$86.69
<i>Child Care - October 2014</i>	104	\$430.00	46.75	\$419.37		\$10.63
<i>Child Care - November 2014</i>	98	\$361.00	45.00	\$403.66		-\$42.66
<i>Child Care - December 2014</i>	60	\$229.50	34.25	\$307.22		-\$77.72
TOTAL 2015:	460	\$1,775.00	\$339.50	\$3,019.00	\$0.00	-\$1,244.00
TOTAL 2014:	1218	\$4,441.50	539.22	\$4,536.98		-\$95.48

CONCESSIONS 2014/15

	Front Desk		Outdoor Pool		Merchandise		Ice Arena	
	Count	Sales	Count	Sales	Count	Sales	Count	Sales
January, 2015	1078	\$1,373.19			110	\$689.36	2454	\$4,093.71
January, 2014	1926	\$2,016.92	1	\$0.47	211	\$1,019.68	2685	\$3,679.54
February, 2015	947	\$1,229.30			163	\$699.79	1228	\$2,008.65
February, 2014	1372	\$1,433.28	89	\$63.92	202	\$1,023.83	2128	\$2,811.27
March, 2015	1553	\$2,088.07			219	\$839.51	508	\$800.03
March, 2014	1624	\$1,696.35	1	\$2.35	185	\$699.14	1061	\$1,482.03
April, 2015	1201	\$1,577.79			228	\$928.15	225	\$345.24
April, 2014	1551	\$1,710.35	0	0	155	\$649.32	142	\$195.92
May, 2015	743	\$984.47			122	\$317.59	220	\$967.02
May, 2014	994	\$1,057.67	0	\$0.00	138	\$548.27	393	\$1,510.81
June, 2015	818	\$1,062.11	1912	\$3,025.70	225	\$954.38	55	\$72.88
June, 2014	1080	\$1,076.96	676	\$768.12	168	\$886.17	702	\$852.61
July, 2015	684	\$922.12	1356	\$2,156.01	209	\$1,016.88	123	\$149.33
July, 2014	875	\$984.09	1930	\$2,420.35	206	\$1,204.21	80	\$111.78
August, 2015	484	\$657.01	817	\$1,269.80	158	\$642.96	262	\$339.85
August, 2014	489	\$514.97	841	\$1,113.58	93	\$399.76	56	\$67.39
September, 2015								
September, 2014	680	\$661.96	36	52.84	98	\$568.05	1	\$1.65
October, 2015								
October, 2014	959	\$1,220.54			93	\$497.41	1835	\$3,175.80
November, 2015								
November, 2014	911	\$1,164.98			106	\$635.81	2012	\$3,339.26
December, 2015								
December, 2014	710	\$873.68			83	\$418.17	1815	\$3,043.90
2015 TOTALS	7508	\$9,894.06	4085	\$6,451.51	1434	\$6,088.62	5075	\$8,776.71
2014 TOTALS	13171	\$14,411.75	3574	\$4,421.63	1738	\$7,715.60	12910	\$20,271.96



CITY OF LARAMIE
PARKS & RECREATION DEPARTMENT
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Facilities Mgmt Division: (307) 721-3585
TDD (307) 721-5295

September 2, 2015

To: Parks Tree & Recreation Advisory Board
Fr: Scott Stevenson Facilities Maintenance Manager
Re: Division Staff Report September, 2015

- This week the facilities staff will begin the month long process of making ice at the Ice & Event Center for the October 1st opening date.
- The process of winterizing the Washington Park wading pool and the splash pad at Undine Park will begin this week. The Recreation Center outdoor pool winterization will begin on September 8, after the Dog Day in the pool event scheduled for Labor Day.
- A new, height adjustable, ADA compliant, podium has been purchased and will be installed in Council chambers in September.
- The Ice and Event Center chiller compressor A replacement project will be advertised for bid in September.
- Requests For Qualifications are being solicited for a structural engineering evaluation of the City Hall annex building in September due to a significant crack in an exterior wall.
- The re-striping of the Recreation Campus parking lots will be completed this week.
- Requests for Quotes will be solicited, this month, for supplying and installing an Ultra Violet secondary disinfection system on the Recreation Center Spa. The Spa currently uses Ozone for secondary disinfection and this system is in need of replacement.

Respectively Submitted,

Scott Stevenson,
Facilities Maintenance Manager

