

RDRMUG – WHY?

	Bow River	Oldman River	Red Deer River
Annual Flow	100 barrels	100 barrels	50 barrels
Maximum Allocation			
Allowable Use			
Allocation Status			
Licensed Status			
No. of dams			

	Bow River	Oldman River	Red Deer River
Annual Flow	100 barrels	100 barrels	50 barrels
Maximum Allocation	70%	70%	37% – 40%
Allowable Use			
Allocation Status			
Licensed Status			
No. of dams			

	Bow River	Oldman River	Red Deer River
Annual Flow	100 buckets	100 buckets	50 buckets
Maximum Allocation	70%	70%	37% – 40%
Allowable Use	70 buckets	70 buckets	20 buckets (max.)
Allocation Status	Fully allocated	Fully allocated	54% allocated
Licensed Status			
No. of dams			

	Bow River	Oldman River	Red Deer River
Annual Flow	100 buckets	100 buckets	50 buckets
Maximum Allocation	70%	70%	37% – 40%
Allowable Use	70 buckets	70 buckets	20 buckets (max.)
Allocation Status	Fully allocated	Fully allocated	54% allocated
Licensed Status	Closed	Closed	Open
No. of dams			

	Bow River	Oldman River	Red Deer River
Annual Flow	100 buckets	100 buckets	50 buckets
Maximum Allocation	70%	70%	37% – 40%
Allowable Use	70 buckets	70 buckets	20 buckets (max.)
Allocation Status	Fully allocated	Fully allocated	54% allocated
Licensed Status	Closed	Closed	Open
No. of dams	9	3	1

RED DEER RIVER WATERSHED – DISADVANTAGES

- **GEOGRAPHY – LARGEST SUB-BASIN**
- **GEOGRAPHY – SMALLEST MOUNTAINOUS HEADWATERS AREA/LEAST AMOUNT OF WATER**
- **HISTORY – FIRST SOUTHERN ALBERTA MAJOR NEED FOR WATER – IRRIGATION**
- **HISTORY – IRRIGATION INDUSTRY HAS VERY SENIOR LICENCES – FITFIR**
- **ALLOCATION – BY FAR THE SMALLEST, YET THE LARGEST SUB-BASIN AND SECOND MOST POPULATED**

RDRMUG – EARLY/ONGOING ACTION PRIORITIES

- **CROWN RESERVATION – SET ASIDE PORTION OF UNALLOCATED WATER FOR FUTURE MUNICIPAL USE**
- **SECURE ANNUAL WATER SUPPLY – E.G. STORAGE (ON OR OFF STREAM)**

THESE ARE HIGHLY DEPENDENT ON PROVINCIAL ACTION

WATERSHED MUNICIPALITIES DOING THEIR PART

- **USING WATER WISELY – EFFECTIVE AND EFFICIENT USE OF WATER**
- **PROTECTING SOURCE WATER THROUGH LAND USE PLANNING AND MANAGEMENT**

THREE KEY OBSERVATIONS

- **1. WATER IS A CRUCIAL MUNICIPAL ASSET WATER AVAILABILITY IS VITAL TO MUNICIPAL SUSTAINABILITY – ECONOMICAL, ENVIRONMENTAL, SOCIAL**

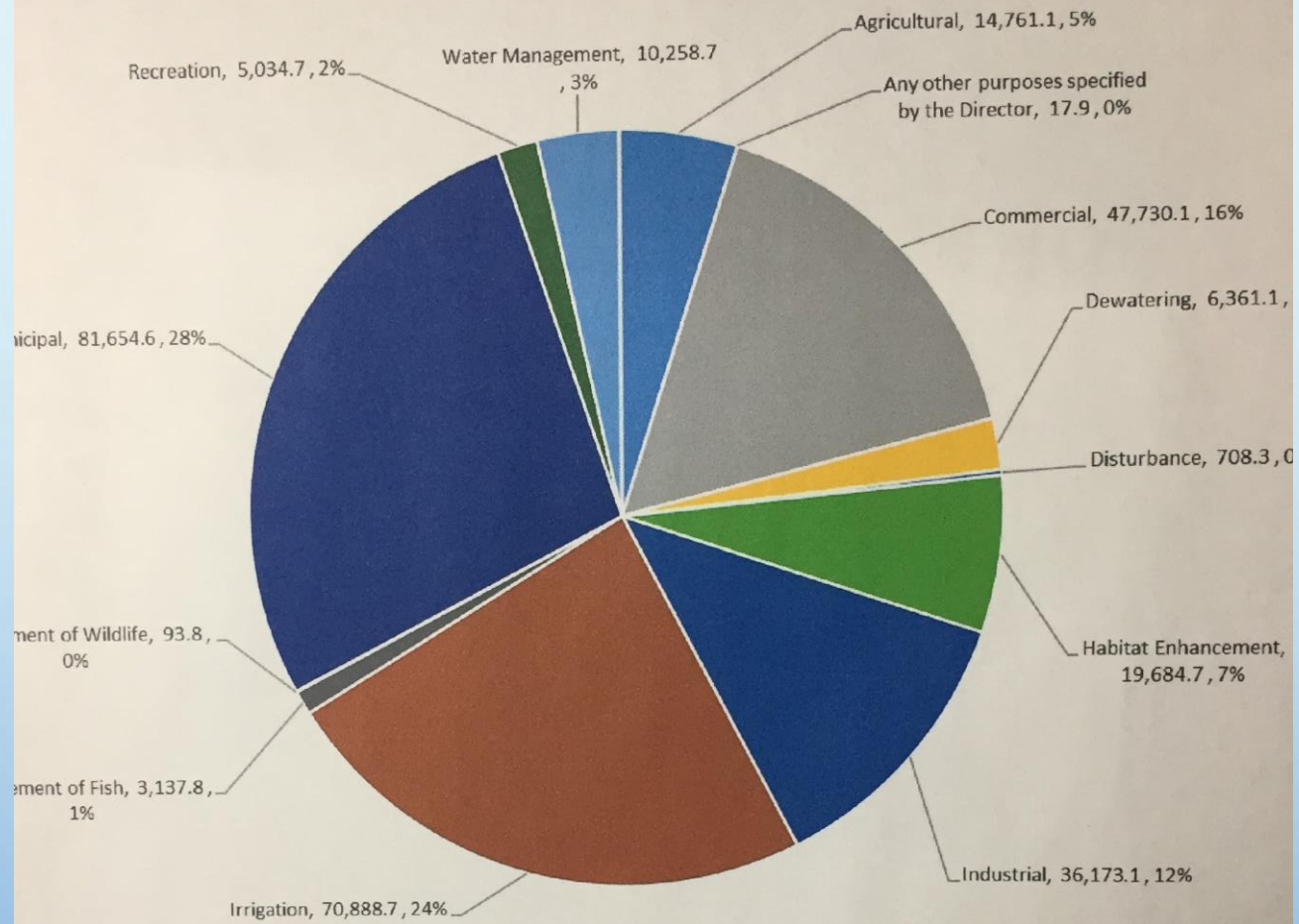
THREE KEY OBSERVATIONS

1. WATER IS A CRUCIAL MUNICIPAL ASSET WATER AVAILABILITY IS VITAL TO MUNICIPAL SUSTAINABILITY – ECONOMICAL, ENVIRONMENTAL, SOCIAL
2. ALL LAND USES IMPACT WATER – QUALITY AND/OR QUANTITY

THREE KEY OBSERVATIONS

1. WATER IS A CRUCIAL MUNICIPAL ASSET; WATER AVAILABILITY IS VITAL TO MUNICIPAL SUSTAINABILITY – ECONOMICAL, ENVIRONMENTAL, SOCIAL
 2. ALL LAND USES IMPACT WATER – QUALITY AND/OR QUANTITY
 3. MUNICIPALITIES NEED TO BE LEADERS IN SOURCE WATER PROTECTION AND WATERSHED CONSERVATION
- **THIS IS THE WHY THE RDRMUG**

Red Deer River Basin Licensed Surface Water Allocations including Preliminary Certificates - Total 296,504.7 cu.dam



- Agricultural
- Any other purposes specified by the Director
- Commercial
- Dewatering
- Disturbance
- Habitat Enhancement
- Industrial
- Irrigation
- Management of Fish
- Management of Wildlife
- Municipal
- Recreation
- Water Management

ALLOCATIONS

1	Municipal		28%
2	Irrigation		24%
3	Commercial		16%
4	Industrial		12%
5	Habitat Enhancement		7%
6	Agriculture		5%
7	Water Management		3%
		Total	95%

FLOW AND ALLOCATIONS

- ANNUAL RED DEER RIVER VOLUME 1,666,000 DAM3
- ALLOCATION TOTAL (INITIAL) 550,000 DAM3
- SEPTEMBER 2018 ALLOCATIONS 296,505 DAM3 54%
- ADD SPECIAL AREAS AND ACADIA VALLEY ? +/- 65%

RDRMUG OUTSTANDING ACTIONS

- CROWN RESERVATION ASSURED MUNICIPAL ALLOCATIONS
- WATER AVAILABILITY STORAGE ????? – DROUGHT ISSUE
- WATER QUALITY MUNICIPAL ACTIONS – LAND USE,
INFRASTRUCTURE
- OTHERS ? ? ? ? ? ? ? ? ?