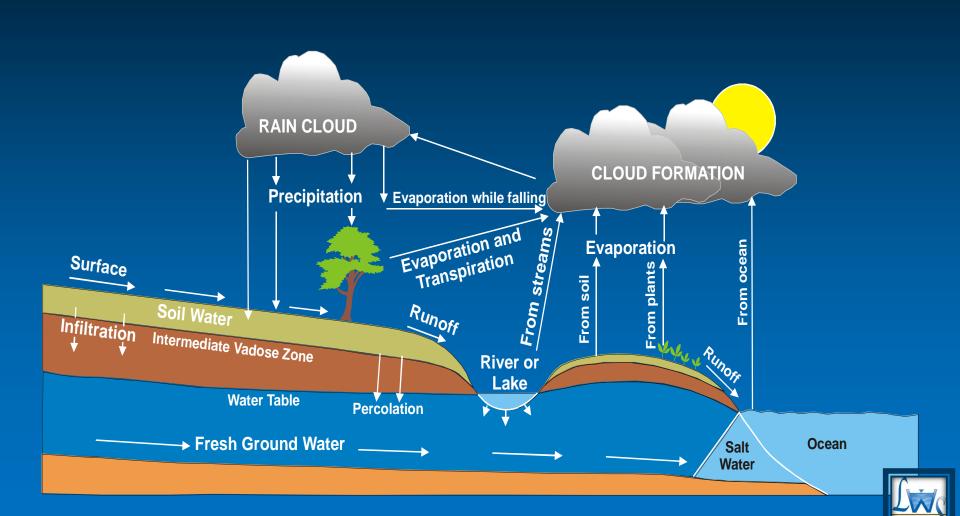


COMMERCIAL REAL ESTATE MARKETING NETWORK OCTOBER 7, 2016



### HYDROLOGIC CYCLE



### COLORADO WATER RESOURCES

- > TRIBUTARY
  - > DIRECT FLOW
  - > STORAGE
- ➤ NONTRIBUTARY / NOT-NONTRIBUTARY
  - > DENVER BASIN



### PRINCIPLES OF TRIBUTARY WATER

- DOCTRINE OF PRIOR APPROPRIATION
  - "FIRST IN TIME, FIRST IN RIGHT"
- USE IT OR LOSE IT
- IMPORTANT FACTORS TO EVALUATE
  - PRIORITY DATE
  - DECREED USES
  - HISTORIC USE
  - RELIABILITY

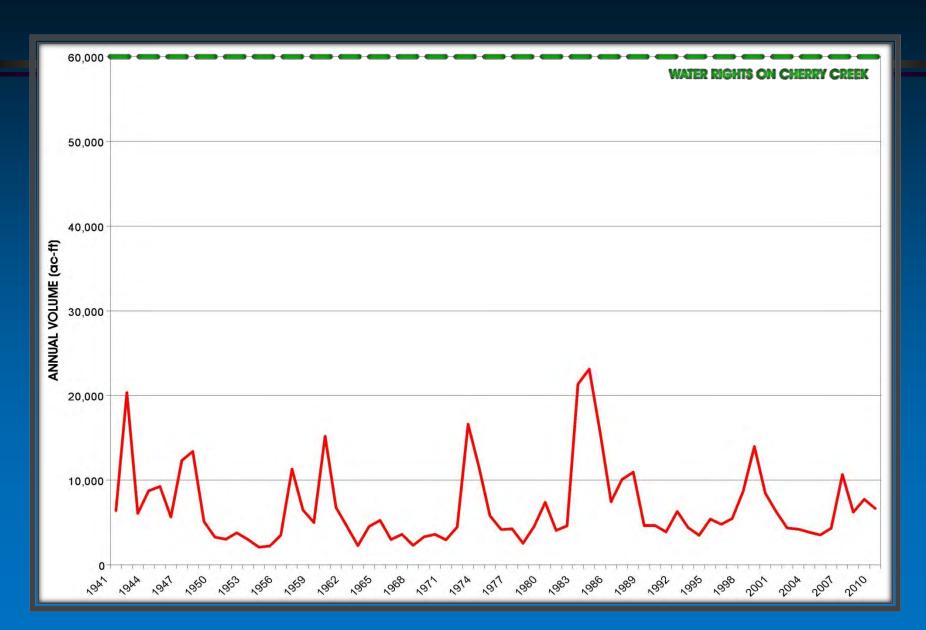


#### TRIBUTARY WATER RIGHTS

- \* SURFACE DIVERSION
- \* SHALLOW WELLS
- \* AUGMENTATION PLANS
- \* EXCHANGE
- STORAGE



#### WET WATER VS PAPER WATER



# WHAT'S WRONG WITH THESE RIGHTS?

#### DIRECT FLOW

- PLATTEVILLE DITCH, JULY 1, 1862: 71.1cfs
- ✓ <u>ILIFF</u> & PLATTE VALLEY DITCH, OCT. 1, 1883: 150 cfs
- X UNION DITCH, SEPT. 26, 1873: 4 cfs
- X WELTON DITCH, APRIL 15, 1861(1863): 11.2 CFS
- ✓ SHOSHONE POWER, JAN. 7, 1902: 1250 cfs

#### **STORAGE**

- ✓ NORTH STERLING, JUNE 15, 1908: 69,446 AF
- X CUCHARAS RESERVOIR, MARCH 14, 1906: 66,362 AF



#### **AUGMENTATION PLANS**

- DIVERT WATER WHEN OTHERWISE WOULD NOT BE ALLOWED
- HAVE TO AUGMENT STREAM FLOW TO EXTENT OF YOUR DEPLETION UPSTREAM OF CALLING RIGHT



#### **EXCHANGE**

- HAVE A DECREED RIGHT AND LOCATION TO DIVERT BUT WANT TO TAKE WATER UPSTREAM
- CAN EXCHANGE WATER TO A DIVERSION POINT UPSTREAM AS LONG AS INTERVENING RIGHTS SATISFIED



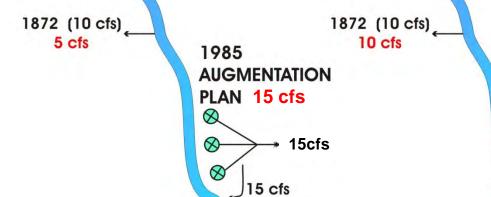
#### **DIRECT FLOW RIGHTS**

# 20 cfs 1900 (20 cfs) NOTHING

#### **AUGMENTATION PLAN**



**EXCHANGE** 







# NONTRIBUTARY GROUND WATER RIGHTS

- MOST WATER IN COLORADO IS PRESUMPTIVELY TRIBUTARY
- DENVER BASIN IS ONLY AREA WHERE WATER IS PRESUMPTIVELY NONTRIBUTARY
- NOT SUBJECT TO PRIORITY SYSTEM
- NON-RENEWABLE WATER RESOURCE



# TRIBUTARY WATER RIGHTS VALUATIONS

- TYPICALLY DONE SEPARATELY FROM LAND APPRAISALS
- ✓ WATER IS A SEPARATE REAL-PROPERTY INTEREST
- MANY TIMES WATER IS THE MOST VALUABLE ASSET
- EVALUATED ON HIGHEST AND BEST USE



# TRIBUTARY WATER RIGHTS VALUATION PROCESS

- UNDERSTANDING OF LEGAL RIGHT(S)
- EVALUATING HISTORIC PHYSICAL MANIFESTATION OF USE OF RIGHTS
  - HISTORIC USE
  - RELIABILITY
- VALUES INCREASING WITH GROWING STRESS ON LIMITED SUPPLIES



#### VALUATION

- RESULTS OF HCU ANALYSIS = THE AMOUNT TO BE VALUED
  - COMPARABLE SALES
  - PRIORITY
  - HISTORIC USE
  - RELIABILITY
- VALUE INCREASING WITH GROWING STRESS ON LIMITED SUPPLIES



### THANK YOU!



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