

PLANNING & DEVELOPMENT

Initiatives Adopted by District In Response to 2004 Metro Water Supply Study

- ◆ Hired District Manager Jim McGrady with the skills and knowledge to develop a plan for renewable water.
- ◆ Developed an **Integrated Water Resource Plan - IWRP**.
- ◆ Developed Conservation Plan to reduce water usage by 10%.
- ◆ Restructure existing debt to remove restrictive covenants.

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Integrated Water Resource Plan (IWRP)

Contracted Camp, Dresser, McKee to provide **IWRP** for CPNMD.

- ◆ Determine if Castle Pines North has a sustainable groundwater supply and, if not, when a renewable supply will be required.
- ◆ If a renewable water supply is required, where can it be acquired.
- ◆ Determine approximate cost for alternatives.

Progress on the IWRP was communicated to the CPN community through interim presentations with the final presentation given on August 2006.

A brochure of **IWRP** results mailed to all residents & businesses January 2007.

NOTE: FINAL PRESENTATION MAY BE VIEWED ON WWW.CPNMD.ORG.

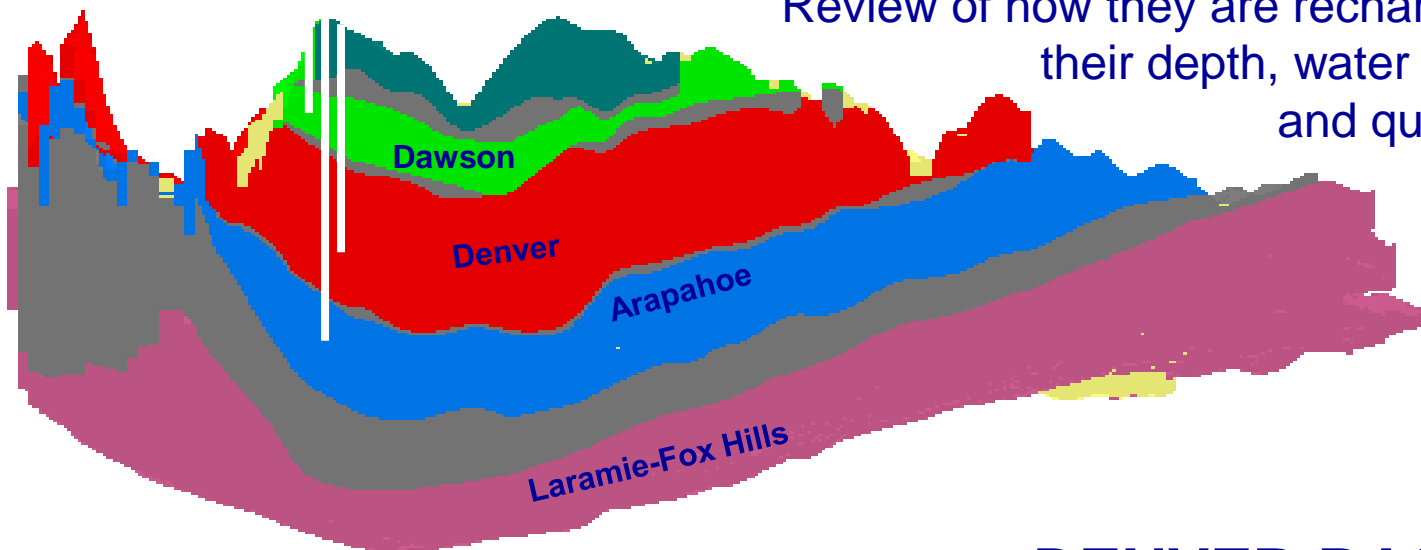
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West

Castle Pines
North

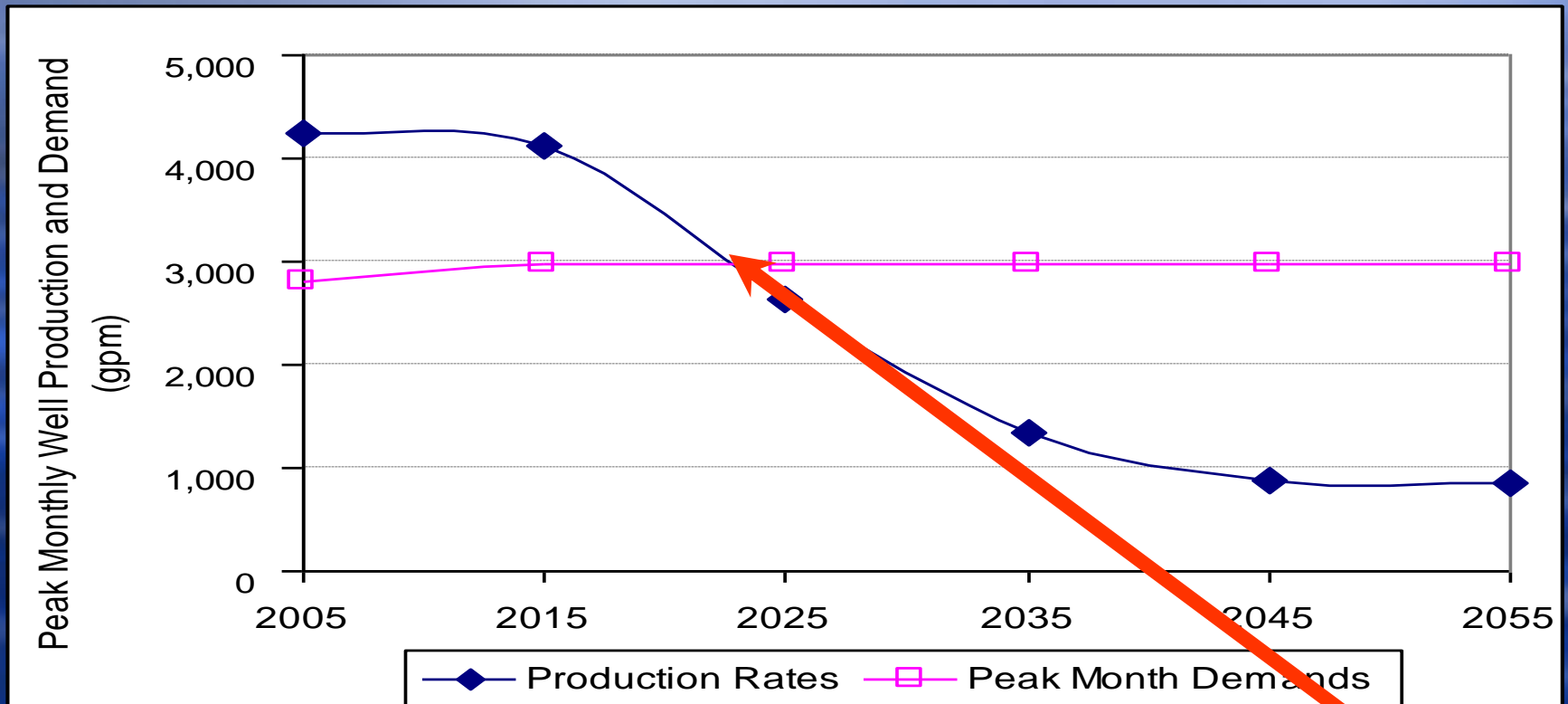
East

Cross-section showing the
four aquifers of the Denver Basin.
Review of how they are recharged,
their depth, water yield
and quality.



DENVER BASIN

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Peak well production and demand during irrigation season illustrates when we will be unable to meet maximum daily demand - approximately **2022**.

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- ◆ Camp, Dresser, McKee developed a **Conservation Plan** based on guidelines established by the Colorado Water Conservation Board (CWCB).
- ◆ Study completed in June 2006 and adopted in August 2006
Note: CPN Metro District was the first community in Colorado to complete this effort and obtain CWCB's approval.
- ◆ CPN Metro District can now apply for low interest Revenue Bonds (up to \$33 million in increments as required) backed by the State's Colorado Water Resource & Power Development Authority (CWRPDA).

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Challenge 1

CONSERVATION PLAN

How we integrate the plan in our community.

- ◆ Promote conservation to reduce consumption by 10 percent by 2010.
- ◆ Focus on the necessity of a new water supply and how it will be paid for as progress is made.
- ◆ Tiered water rates implemented to discourage water waste.

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How we integrate the plan in our community *(continued)*:

- ◆ Provide information on transitioning our non-sustainable groundwater supply to a renewable water supply in a timely and cost-effective way.
- ◆ Developed rebate program with incentives to achieve conservation, (i.e. low flow toilets, high efficiency washing machines, replacement of bluegrass with low water grasses and/or xeriscaping).
- ◆ Participated in the development and distribution of a Xeriscaping DVD sent to all residents in Douglas and portions of Arapahoe counties in April 2007.

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Challenge 2 RENEWABLE WATER SUPPLY OPTIONS

- | | | |
|-------------------------------|-----------|----------|
| 1. Long Term projects | 20 + Yrs. | ~ \$\$\$ |
| 2. Intermediate Term projects | ~ 15 Yrs. | ~ \$\$ |
| 3. Short Term projects | ~ 7 Yrs. | ~ \$ |

These projects are competitive between communities and often cannot be openly discussed. Before the District is committed to any project, community input will be sought.

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We make every effort to let residents know about water purchases and other infrastructure improvements through:

- ◆ periodic newsletters
- ◆ bill stuffers
- ◆ website updates www.cpnmd.org

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PARTICIPATE IN

Chatfield Reallocation

20,600 acre feet reservoir
with ~ 550 acre-feet
storage expansion for CPN



Rueter-Hess Development

70,000 acre-feet reservoir
with ~ 3,000 acre-feet
storage expansion for CPN

