

**Report on 2035 Regional Water Balance Model
projections of water supply and demand,
wastewater flow and treatment capacity,
water reclamation and effluent disposal
capacity**

Washoe County Planning Commission

March 7, 2017

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Regional Water Plan Outline

Plan chapters developed to address WRWC Act required elements

Executive Summary

Introduction

1. Water Planning Policies and Criteria
2. Water Resources
3. Water Purveyors and other Water Providers
4. Wastewater and Watershed-Based Water Quality Planning
5. Flood Management and Storm Water Drainage
6. Population Forecast and Projections of Water Demand, Peak Day Requirements and Wastewater Flow
7. Water Conservation Plan – Efficient Use of Water
8. Cost and Financing
9. Issues and Action Plan

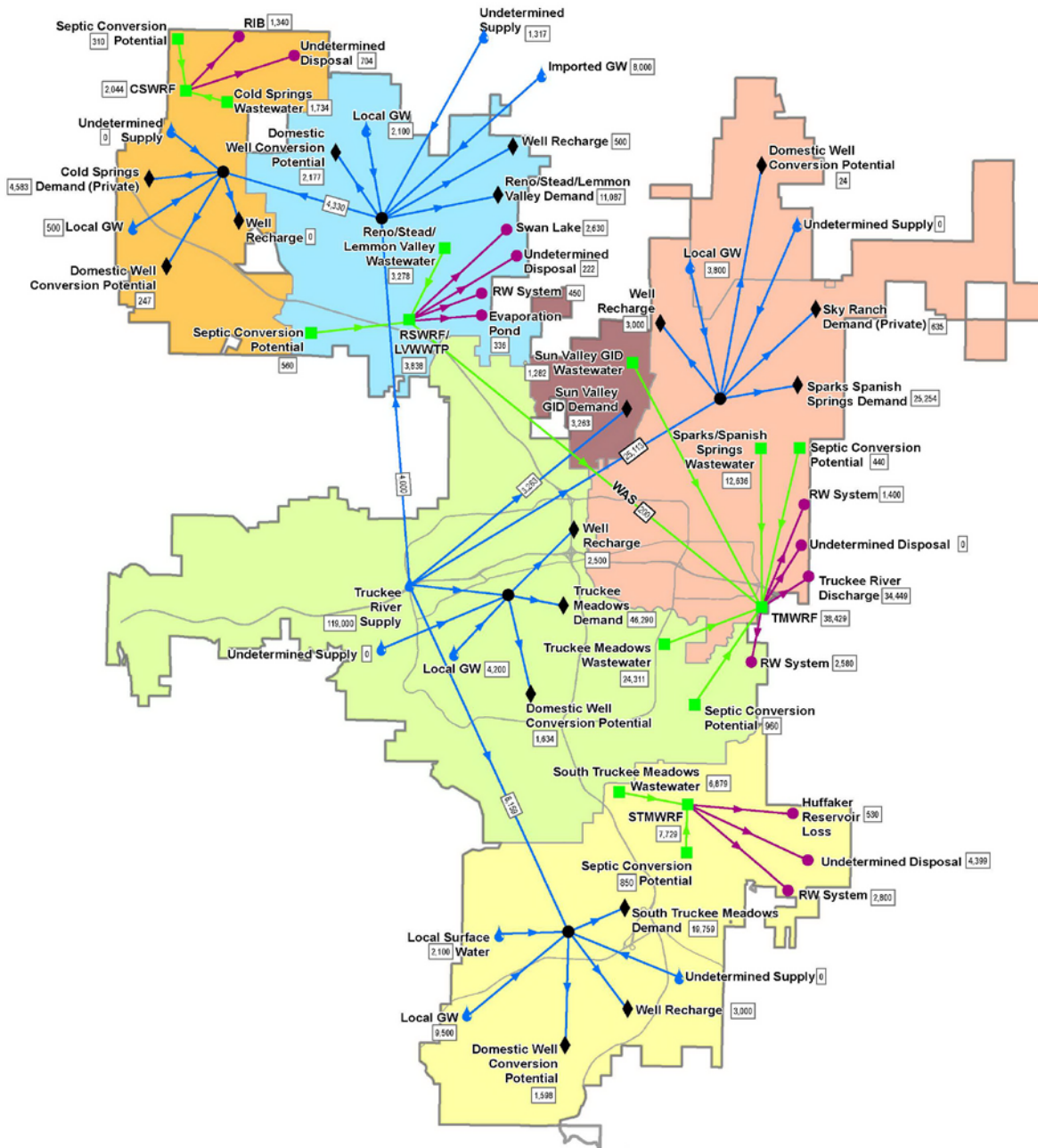
Appendices

Regional Water Plan

- The 2016 Washoe County Consensus Forecast projects a 2036 population of 548,159;
- The RWMP includes an estimate of potentially available, sustainable water resources of approximately 183,250 acre feet per year;
- The water demand estimate to serve a population of 548,159 is approximately 116,000 acre feet per year



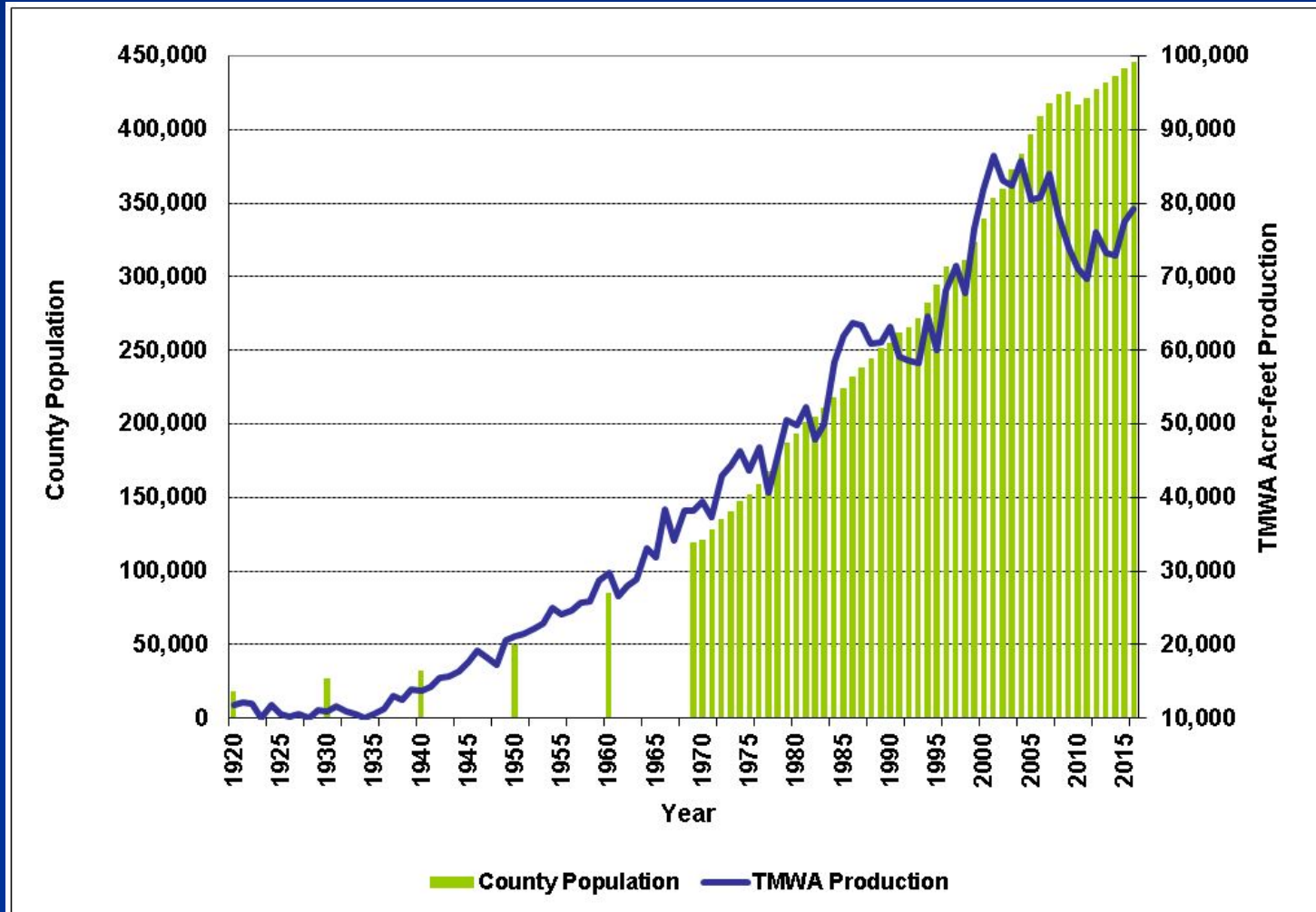
2035 Regional Water Balance Map



2035 Regional Water Balance Map

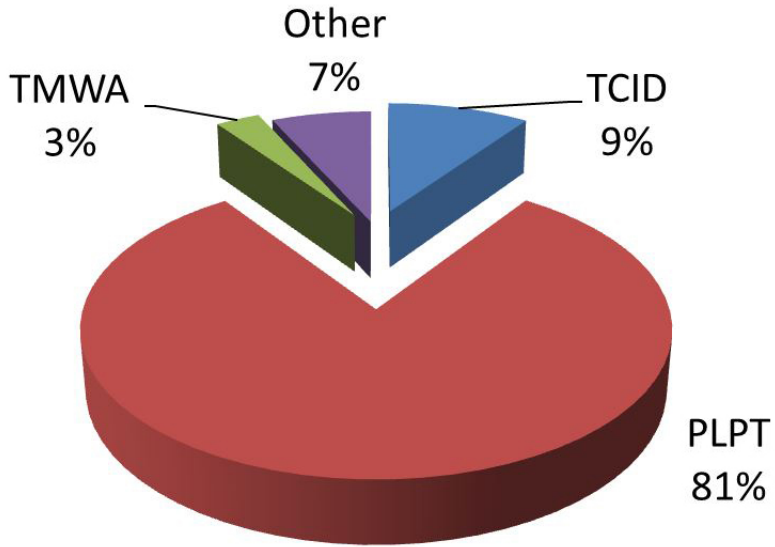
Potable Water Balance			
Planning Areas	Estimated Total of Demand and Exports (AFA)	Identified Supply Capacity Resource (AFA)	Deficit (-)/Surplus (+) Supply (AFA)
Cold Springs	4,830	4,830	0
Reno Stead/ Lemmon Valley	15,417	14,100	-1,317
Sun Valley GID	3,263	3,263	0
Sparks/Spanish Springs	28,913	28,913	0
Central Truckee Meadows	86,824	119,000	32,176
South Truckee Meadows	19,759	19,759	0
Wastewater Balance			
Wastewater Service Areas	Estimated Flow (AFA)	Identified Disposal Capacity (AFA)	Additional Disposal Capacity Required (AFA)
CSWRF	2,044	1,340	704
RSWRLF/LVWWTP	3,838	3,616	222
TMWRF (RENO)	38,429	44,806	0
TMWRF (SPARKS)			
STMWRF	7,729	3,330	4,399

Washoe County Population Compared to TMWA Water Production

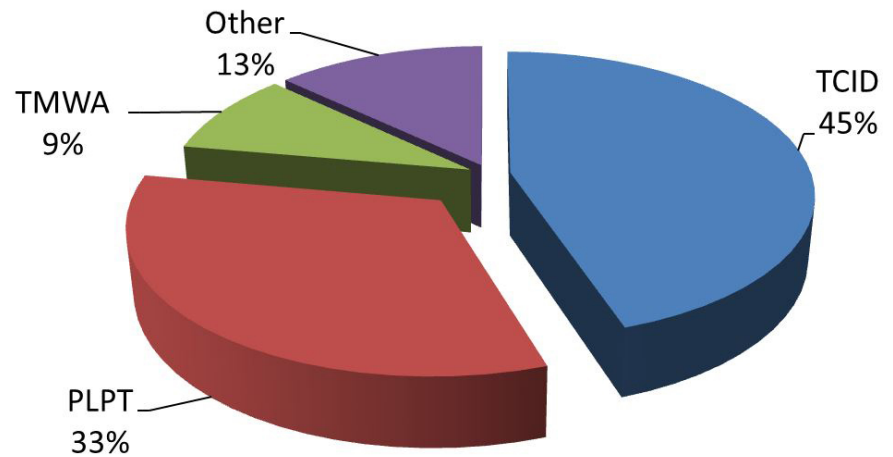


Typical Diversion of the Truckee River

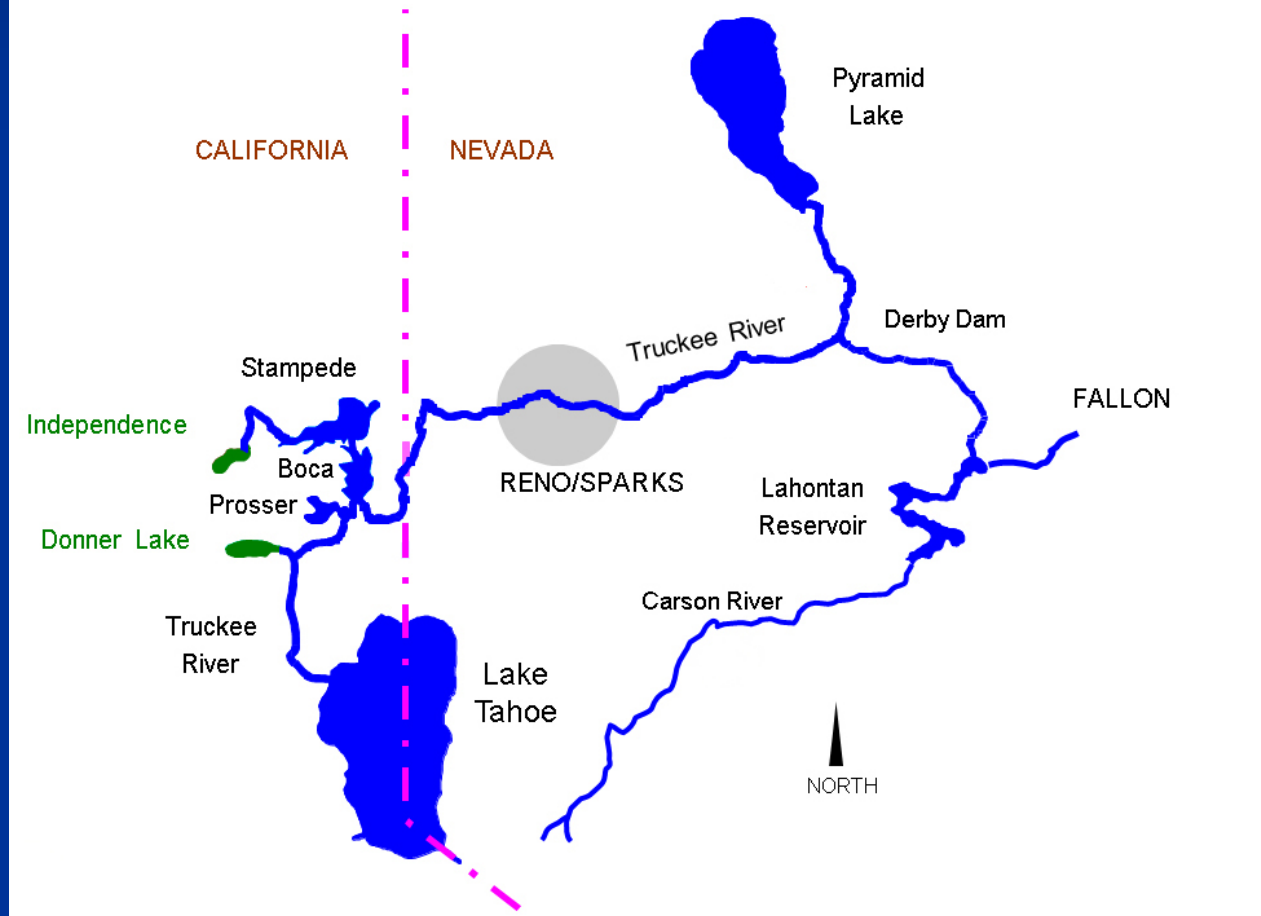
Normal Year



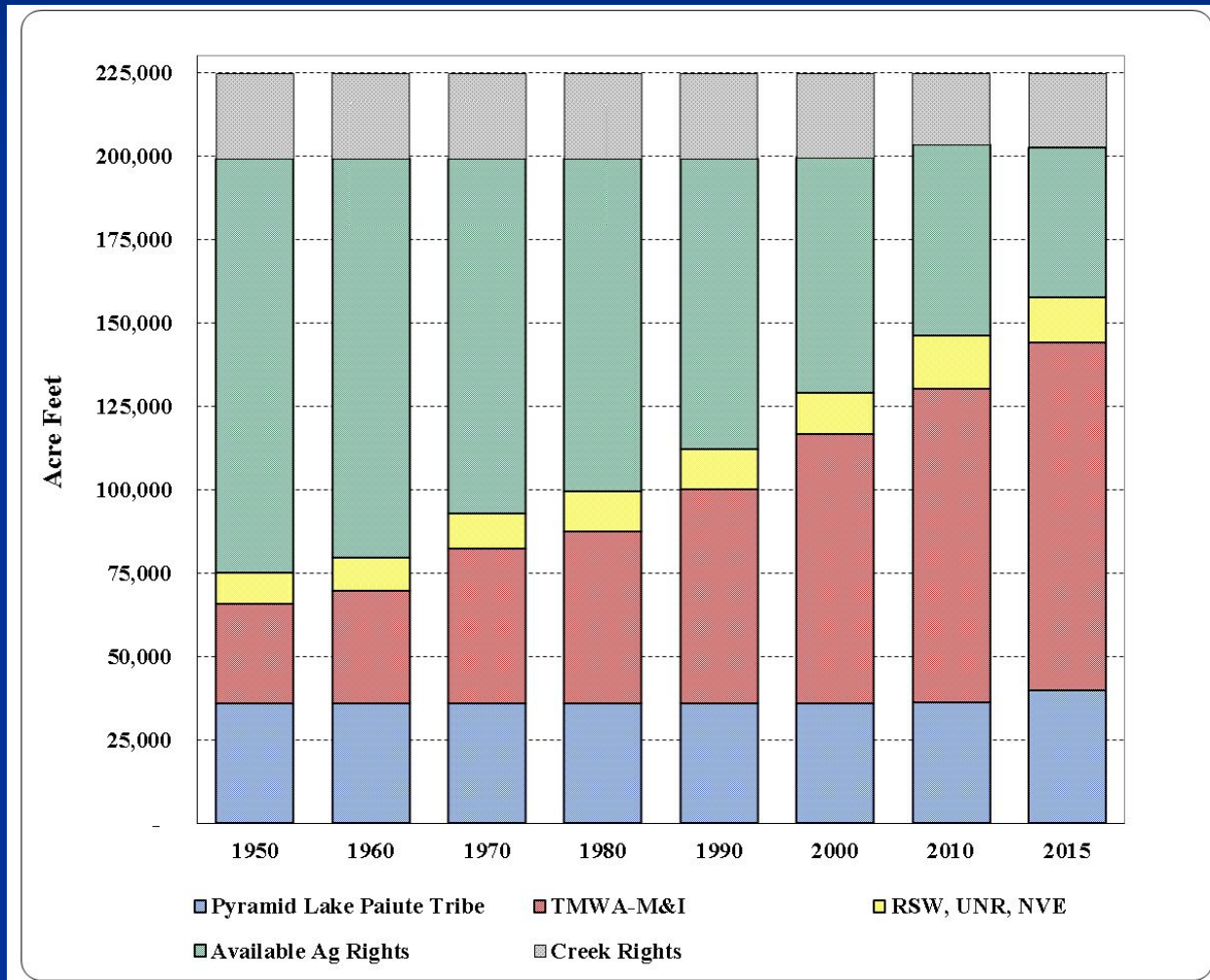
Dry Year



The Truckee and Carson River Systems



Water Rights Allocation Over Time



Existing Wastewater Treatment Capacity and Wastewater Flow

Wastewater Treatment Capacity			
Facility	Capacity	Current	Facility Planning
South Truckee Meadows	4.1 MGD	3.2 MGD	2016 Facility Plan estimate: Treatment expansion needed by 2021-2022
Lemmon Valley	0.3 MGD	0.21 MGD	Facility Plan Update Ongoing Estimated Completion March 2017 Strategic planning underway
Reno-Stead	2.0 MGD	1.4 MGD	Strategic planning is underway to divert future growth flows to TMWRF
Cold Springs	0.7 MGD	0.3 MGD	Facility Plan Update Ongoing Estimated Completion Spring 2017
Spanish Springs (Collection System)	8,495 Units	4,175 Units	Latest Facility Plan Update Feb. 2016 Buildout with current zoning: Roughly 7,500 Units
Truckee Meadows Water Reclamation Facility	44 MGD	26.3 MGD	Implementing existing facility plans for rehab and replacement Anticipate future master planning

Questions?

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