BUREAU OF RECLAMATION

Technical Memorandum for the Upper Red River Basin Study

Water Availability Modeling Results

November 2022

BUREAU OF RECLAMATION

State of Oklahoma
OWRB
WATER RESOURCES BOARD
the water agency

Mission Statements

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitments to island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Table of Contents

Introduction

This Technical Memorandum (TM) was developed in support of the Upper Red River Basin Study (URRBS). Among the many water management strategies identified in the URRBS was the adoption of hydrologic thresholds that could be used to protect the yield of Tom Steed Reservoir from diversions from existing and future stream permit holders during drought periods. The reader is strongly encouraged to read the URRBS report for a thorough understanding on the background and need for such a strategy, but for the purposes of this TM, only a brief explanation is provided.

Approach

The North Fork Red River (NFRR) Surface Water Allocation Model (SWAM) was used to quantify the impacts of each of the 200 Stream-Water Rights Management Alternatives on water availability in the Tom Steed Reservoir hydrologic basin. These results were compared to the impacts quantified by the NFRR SWAM under Status Quo management presented in Chapter 6.4.4 of the URRBS Report for each of the 12 development scenarios. When accounting for the 12 development scenarios, both with and without seniority and varying reservoir use conditions, a total of 2,524 modeling scenarios were evaluated.

Content Organization

This TM presents the impacts on water availability in the Tom Steed Reservoir hydrologic basin from curtailing junior stream permits based on the five hydrologic thresholds selected in Chapter 8.3.2 of the URRBS Report. Water availability was evaluated under each of the 12 groundwater and stream-water development scenarios in terms of the resulting Tom Steed Reservoir firm yields, the water supply dependability of Tom Steed Reservoir under a range of reservoir use scenarios, and the average annual water availability of junior upstream permits. A general framework also is provided in Chapter 8.3.9. of the URRBS Report for how one could approach a trade-off analysis of curtailment thresholds. Because of the large number of modeling scenarios, only summary tables of the results are provided. Within this TM, detailed results are presented and are organized into separate subsections in order of increasing groundwater and surface water development as defined in Chapter 6.3.3. of the URRBS Report. For all results, including summary results here in the URRBS Report and detailed results in this TM, impacts under the existing and new groundwater permitting scenarios were combined[1].

In addition to the metrics above, the impacts of curtailments also were evaluated for each individual stream permit in the Tom Steed Reservoir hydrologic basin, including existing permits (both junior and senior to MPMCD's permit), as well as new junior upstream permits. Metrics include average annual availability of each existing permit; the percent of years when some portion of

[1] Recall that Chapter 6.4 showed that there were no measurable differences in impacts between the "Existing GW Permits" and "New GW Permits" scenarios. This is because the OCWP-projected development of the NFRR aquifer through 2060 was relatively minor.

each individual permit's water was available; and the percent of years when each individual's full permit water was available.

The results tables and figures provided here include results for the four inflow-PDSI curtailment thresholds combined with each of the four reservoir curtailment thresholds selected in Chapter8.3.2.: (1) < 100 percent full (Top of Conservation Pool); (2) ≤ 90 percent full; (3) ≤ 70 percent full; and (4) ≤ 50 percent full. The URRBS Report presents only the *Top of Conservation Pool* threshold as one example of how results could be evaluated[2]. This TM discusses the impacts caused by the various curtailment thresholds across only a subset of the development scenarios that represent opposite ends of the development spectrum, and thus encompass the full range of impacts that occurred across the development scenarios. Specifically, the results presented here are for two stream-water permitting conditions ("None" and "Low") in combination with the "Existing GW Permits/ Existing Domestic SW" development scenario, and the "Full GW Permits/ New Domestic SW (High)/ Full SW Permits" development scenario. The URRBS Report and this TM present the results of curtailing upstream junior permits based on the four inflow-PDSI thresholds combined with each of the four reservoir thresholds selected for all 12 development scenarios. To be clear, permits that were considered senior to MPMCD's permit were not curtailed in this analysis; only junior permits were curtailed[3]. Again, this TM is limited to a subset of the development scenarios, and the reader is encouraged to carefully review the summary tables presented in the URRBS Report and the detailed information provided in this TM to develop a full understanding of how implementation of these curtailment thresholds impacts water supply availability both from Tom Steed Reservoir and for the upstream permit holders.

[2] The decision was made to discuss only the Top of Conservation Pool threshold for practical reasons given the large volume of results. However, results did show that under all 12 development scenarios, there were no measurable differences in reservoir firm yield among the five curtailment thresholds when selecting the 50 percent reservoir full threshold; as well there was no measurable difference among the thresholds when selecting the 70 percent full threshold for all but the full development scenario. This is because as reservoir storage dropped, the inflow-PDSI thresholds were always met before the reservoir storage threshold, and reservoir storage became the only factor influencing curtailment frequency across all four inflow-PDSI thresholds (Table 35; Figure 43), at which point the management of stream-water rights did not provide any benefits to Tom Steed Reservoir.

[3] As discussed in Chapter 6.4.4 and 7.3.1, Kershen (2021) noted that MPMCD's existing permit has a priority date of 1955, not 1967. However, OWRB's water rights database lists MPMCD's permit as having a priority date of 1967, which is the year that MPMCD filed its application for the permit. For the purposes of the URRBS, 1967 was selected as the priority date for MPMCD's permit for all hydrologic modeling analyses. It was considered beyond the scope this URRBS to attempt to reconcile the inconsistent seniority dates; this decision would likely be made by OWRB as part of a potential future adjudication of vested water rights in the Tom Steed Reservoir hydrologic basin.

Organization

Results are ordered first by development scenarios, progressing from current development to full development (Table 1). Then are ordered based on thresholds evaluated (i.e., all reservoir storage thresholds vs top conservation pool).

Table 1. Summary of ground- and stream-water modeling conditions for the Tom Steed Reservoir hydrologic basin.

Modeling Conditions	GW Permits	SW Permits	Tom Steed Reservoir	SW Domestic
Naturalized	Naturalized	Naturalized	-	-
Existing and/or New GW Permits, Existing SW Permits, Existing Domestic SW	Existing	Existing	Existing / Mid / Full	Existing
Existing and/or New GW Permits, Existing and New SW Permits (Low), Existing Domestic SW	Existing	New (Low)	Existing / Mid / Full	Existing
Existing and/or New GW Permits, Existing and New SW Permits (Low), Existing Domestic SW	New	New (Low)	Existing / Mid / Full	Existing
Existing and/or New GW Permits Existing and New SW Permits (High), Existing Domestic SW	Existing	New (High)	Existing / Mid / Full	Existing
Existing and/or New GW Permits, Existing and New SW Permits (High), Existing Domestic SW	New	New (High)	Existing / Mid / Full	Existing
Full GW Permits, Existing SW Permits, Existing Domestic SW	Full	Existing	Full	Existing
Full GW Permits, Existing SW Permits, New Domestic SW (Low)	Full	Existing	Full	New (Low)
Full GW Permits, Full SW Permits, New Domestic SW (Low)	Full	Full	Full	New (Low)
Full GW Permits, Existing SW Permits, New Domestic SW (High)	Full	Existing	Full	New (High)
Full GW Permits-, Full SW Permits, New Domestic SW (High)	Full	Full	Full	New (High)

Impacts on Tom Steed Reservoir Firm Yield and Basin-Wide Average Annual Permit Availability

Curtailment Based on Four Reservoir Storage Thresholds Combined with Four Inflow-PDSI Thresholds

Summary Tables

Table 2. Tom Steed Reservoir firm yield that results from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is < 100 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,200 +6%	14,200 +6%	14,200 +6%	14,200 +6%	14,200 +6%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	11,300	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	12,400 +113%	12,400 +113%	11,000 +89%	11,300 +94%	12,400 +113%	12,100 +108%	12,000 +106%	10,800 +86%	11,100 +91%	12,000 +106%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	10,200 +106%	10,100 +104%	8,800 +77%	9,020 +82%	10,100 +104%	9,870 +99%	9,780 +97%	8,560 +73%	8,780 +77%	9,780 +97%
Average Incremental Changes		-	+4%	+4%	+4%	+4%	+4%	+109%	+108%	+83%	+88%	+108%	+103%	+102%	+79%	+84%	+102%

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 3. Tom Steed Reservoir firm yield that results from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is < 100 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,300 +7%	14,100 +5%	14,100 +5%	14,100 +5%	14,100 +5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	14,300 +18%	14,000 +16%	13,900 +15%	13,900 +15%	14,000 +16%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%
	High (5,000)	11,300	-	-	-	-	-	14,300 +27%	13,900 +23%	13,800 +22%	13,800 +22%	13,900 +23%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,800 +5%	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	12,500 +115%	11,600 +99%	11,100 +91%	11,100 +91%	11,600 +99%	12,100 +108%	11,200 +92%	10,800 +86%	10,800 +86%	11,200 +92%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	10,200 +106%	9,440 +90%	8,850 +78%	8,850 +78%	9,440 +90%	9,880 +99%	9,160 +85%	8,610 +74%	8,610 +74%	9,160 +85%
Average Incremental Changes		-	+4%	+4%	+4%	+4%	+4%	+66%	+57%	+52%	+52%	+57%	+59%	+52%	+47%	+47%	+52%

Table 4. Tom Steed Reservoir firm yield that results from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is ≤ 90 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,200 +6%	14,200 +6%	14,200 +6%	14,200 +6%	14,200 +6%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	11,300	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	12,200 +110%	12,400 +113%	11,000 +89%	11,300 +94%	12,400 +113%	11,900 +104%	12,000 +106%	10,800 +86%	11,100 +91%	12,000 +106%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	9,950 +101%	10,100 +104%	8,800 +77%	9,020 +82%	10,100 +104%	9,660 +95%	9,780 +97%	8,560 +73%	8,780 +77%	9,780 +97%
Average Incremental Changes		-	+4%	+4%	+4%	+4%	+4%	+105%	+108%	+83%	+88%	+108%	+100%	+102%	+79%	+84%	+102%

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 5. Tom Steed Reservoir firm yield that results from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is ≤ 90 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,100 +5%	14,100 +5%	14,100 +5%	14,100 +5%	14,100 +5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	14,000 +16%	14,000 +16%	13,900 +15%	13,900 +15%	14,000 +16%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%
	High (5,000)	11,300	-	-	-	-	-	13,900 +23%	13,900 +23%	13,800 +22%	13,800 +22%	13,900 +23%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	11,600 +99%	11,600 +99%	11,100 +91%	11,100 +91%	11,600 +99%	11,200 +92%	11,200 +92%	10,800 +86%	10,800 +86%	11,200 +92%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	9,440 +90%	9,440 +90%	8,850 +78%	8,850 +78%	9,440 +90%	9,160 +85%	9,160 +85%	8,610 +74%	8,610 +74%	9,160 +85%
Average Incremental Changes		-	+4%	+4%	+4%	+4%	+4%	+57%	+57%	+52%	+52%	+57%	+52%	+52%	+47%	+47%	+52%

Table 6. Tom Steed Reservoir firm yield that results from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is ≤ 70 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,100 +5%	14,100 +5%	14,100 +5%	14,100 +5%	14,100 +5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	11,300	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	11,600 +99%	11,800 +103 %	11,000 +89%	11,300 +94%	11,800 +103%	11,300 +94%	11,500 +98%	10,800 +86%	11,100 +91%	11,500 +98%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	9,600 +94%	9,700 +96%	8,800 +77%	9,020 +82%	9,700 +96%	9,320 +88%	9,410 +90%	8,560 +73%	8,780 +77%	9,410 +90%
Average Incremental Changes		-	+4%	+4%	+4%	+4%	+4%	+96%	+99%	+83%	+88%	+99%	+91%	+94%	+79%	+84%	+94%

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 7. Tom Steed Reservoir firm yield that results from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is ≤ 70 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,100 +5%	14,100 +5%	14,100 +5%	14,100 +5%	14,100 +5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	13,900 +15%	13,900 +15%	13,900 +15%	13,900 +15%	13,900 +15%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%
	High (5,000)	11,300	-	-	-	-	-	13,800 +22%	13,800 +22%	13,800 +22%	13,800 +22%	13,800 +22%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	13,700 +4%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	12,500 +3%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	11,600 +99%	11,600 +99%	11,100 +91%	11,100 +91%	11,600 +99%	11,200 +92%	11,200 +92%	10,800 +86%	10,800 +86%	11,200 +92%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	10,200 +3%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	9,440 +90%	9,440 +90%	8,850 +78%	8,850 +78%	9,440 +90%	9,160 +85%	9,160 +85%	8,610 +74%	8,610 +74%	9,160 +85%
Average Incremental Changes		-	+4%	+4%	+4%	+4%	+4%	+57%	+57%	+52%	+52%	+57%	+52%	+52%	+47%	+47%	+52%

Table 8. Tom Steed Reservoir firm yield that results from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is ≤ 50 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,000 +4%	14,000 +4%	14,000 +4%	14,000 +4%	14,000 +4%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	11,300	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,600 +3%	13,600 +3%	13,600 +3%	13,600 +3%	13,600 +3%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,400 +2%	12,400 +2%	12,400 +2%	12,400 +2%	12,400 +2%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	11,500 +98%	11,100 +91%	11,000 +89%	11,100 +91%	11,100 +91%	11,200 +92%	10,800 +86%	10,700 +84%	10,500 +80%	10,800 +86%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,100 +2%	10,100 +2%	10,100 +2%	10,100 +2%	10,100 +2%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	9,420 +90%	8,940 +80%	8,800 +77%	8,860 +79%	8,940 +80%	9,150 +84%	8,700 +75%	8,560 +73%	8,620 +74%	8,700 +75%
Average Incremental Changes		-	+3%	+3%	+3%	+3%	+3%	+94%	+85%	+83%	+85%	+85%	+88%	+80%	+78%	+77%	+80%

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 9. Tom Steed Reservoir firm yield that results from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is ≤ 50 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Tom Steed Reservoir Firm Yield (acre-ft/yr) Bottom Row – Percent Change Relative to Status Quo Conditions															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	13,400	14,000 +4%	14,000 +4%	14,000 +4%	14,000 +4%	14,000 +4%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	12,100	-	-	-	-	-	13,600 +12%	13,600 +12%	13,600 +12%	13,600 +12%	13,600 +12%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%	13,400 +11%
	High (5,000)	11,300	-	-	-	-	-	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%	13,400 +19%
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	13,200	13,600 +3%	13,600 +3%	13,600 +3%	13,600 +3%	13,600 +3%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	12,100	12,400 +2%	12,400 +2%	12,400 +2%	12,400 +2%	12,400 +2%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	5,820	-	-	-	-	-	11,100 +91%	11,100 +91%	11,100 +91%	11,100 +91%	11,100 +91%	10,800 +86%	10,800 +86%	10,800 +86%	10,800 +86%	10,800 +86%
Full Groundwater Permit Use and High Domestic Use Conditions	None	9,880	10,100 +2%	10,100 +2%	10,100 +2%	10,100 +2%	10,100 +2%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	4,960	-	-	-	-	-	8,850 +78%	8,850 +78%	8,850 +78%	8,850 +78%	8,850 +78%	8,610 +74%	8,610 +74%	8,610 +74%	8,610 +74%	8,610 +74%
Average Incremental Changes		-	+3%	+3%	+3%	+3%	+3%	+50%	+50%	+50%	+50%	+50%	+47%	+47%	+47%	+47%	+47%

Table 10. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is < 100 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	1,190 0 1,190	1,710 0 1,710	2,050 0 2,050	1,910 0 1,910	1,710 0 1,710	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	1,160 0 1,160	1,670 0 1,670	2,000 0 2,000	1,870 0 1,870	1,670 0 1,670	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	830 0 830	1,240 0 1,240	1,430 0 1,430	1,360 0 1,360	1,240 0 1,240	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	810 5,730 6,540	1,420 9,920 11,340	1,720 12,570 14,290	1,620 11,780 13,400	1,420 9,950 11,370	1,910 3,190 5,100	1,910 9,130 11,040	1,910 12,410 14,320	1,910 11,480 13,390	1,910 9,210 11,120
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	670 0 670	1,050 0 1,050	1,230 0 1,230	1,180 0 1,180	1,050 0 1,050	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	660 4,980 5,640	1,120 8,800 9,920	1,330 11,140 12,470	1,270 10,490 11,760	1,120 8,890 10,010	1,430 2,590 4,020	1,430 8,190 9,620	1,430 11,050 12,480	1,430 10,240 11,670	1,430 8,300 9,730

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 11. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is < 100 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	1,040 0 1,040	1,730 0 1,730	2,080 0 2,080	1,870 0 1,870	1,820 0 1,820	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	1,070 730 1,800	1,700 1,250 2,950	2,080 1,610 3,690	1,870 1,420 3,290	1,750 1,320 3,070	2,320 210 2,530	2,320 1,060 3,380	2,320 1,540 3,860	2,320 1,310 3,630	2,320 1,150 3,470
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	1,050 1,390 2,440	1,700 2,360 4,060	2,080 3,000 5,080	1,870 2,640 4,510	1,750 2,480 4,230	2,320 410 2,730	2,320 1,980 4,300	2,320 2,860 5,180	2,320 2,440 4,760	2,320 2,150 4,470
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	1,010 0 1,010	1,660 0 1,660	2,030 0 2,030	1,820 0 1,820	1,750 0 1,750	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	710 0 710	1,180 0 1,180	1,410 0 1,410	1,280 0 1,280	1,220 0 1,220	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	690 5,380 6,070	1,390 9,800 11,190	1,720 12,300 14,020	1,560 11,200 12,760	1,440 10,400 11,840	1,910 1,640 3,550	1,910 8,300 10,210	1,910 11,800 13,710	1,910 10,600 12,510	1,910 9,230 11,140
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	550 0 550	980 0 980	1,190 0 1,190	1,080 0 1,080	1,010 0 1,010	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	530 4,620 5,150	1,060 8,580 9,640	1,300 11,000 12,300	1,190 9,880 11,070	1,090 9,170 10,260	1,430 590 2,020	1,430 7,130 8,560	1,430 10,490 11,920	1,430 9,300 10,730	1,430 8,000 9,430

Table 12. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is ≤ 90 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	1,540 0 1,540	1,790 0 1,790	2,050 0 2,050	1,930 0 1,930	1,790 0 1,790	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	1,520 0 1,520	1,750 0 1,750	2,010 0 2,010	1,890 0 1,890	1,750 0 1,750	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	1,080 0 1,080	1,250 0 1,250	1,430 0 1,430	1,370 0 1,370	1,250 0 1,250	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	1,160 7,000 8,160	1,470 10,010 11,480	1,720 12,580 14,300	1,620 11,780 13,400	1,470 10,100 11,570	1,910 5,450 7,360	1,910 9,430 11,340	1,910 12,530 14,440	1,910 11,530 13,440	1,910 9,560 11,470
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	830 0 830	1,060 0 1,060	1,230 0 1,230	1,180 0 1,180	1,060 0 1,060	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	860 5,860 6,720	1,130 8,890 10,020	1,330 11,140 12,470	1,270 10,490 11,760	1,140 9,030 10,170	1,430 4,440 5,870	1,430 8,460 9,890	1,430 11,100 12,530	1,430 10,320 11,750	1,430 8,590 10,020

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 13. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is ≤ 90 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%	≤90%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	1,430 0 1,430	1,750 0 1,750	2,080 0 2,080	1,890 0 1,890	1,820 0 1,820	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	1,430 990 2,420	1,750 1,280 3,030	2,080 1,610 3,690	1,890 1,440 3,330	1,770 1,330 3,100	2,320 630 2,950	2,320 1,110 3,430	2,320 1,540 3,860	2,320 1,350 3,670	2,320 1,170 3,490
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	1,430 1,880 3,310	1,750 2,410 4,160	2,080 3,000 5,080	1,890 2,680 4,570	1,770 2,490 4,260	2,320 1,190 3,510	2,320 2,080 4,400	2,320 2,860 5,180	2,320 2,500 4,820	2,320 2,190 4,510
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	1,330 0 1,330	1,710 0 1,710	2,030 0 2,030	1,850 0 1,850	1,780 0 1,780	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	920 0 920	1,210 0 1,210	1,410 0 1,410	1,300 0 1,300	1,230 0 1,230	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	980 6,900 7,880	1,440 10,030 11,470	1,720 12,350 14,070	1,560 11,240 12,800	1,460 10,460 11,920	1,910 4,030 5,940	1,910 8,780 10,690	1,910 11,830 13,740	1,910 10,600 12,510	1,910 9,420 11,330
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	680 0 680	1,010 0 1,010	1,190 0 1,190	1,110 0 1,110	1,020 0 1,020	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	720 5,810 6,530	1,080 8,650 9,730	1,300 10,960 12,260	1,190 9,880 11,070	1,110 9,240 10,350	1,430 3,000 4,430	1,430 7,520 8,950	1,430 10,490 11,920	1,430 9,300 10,730	1,430 8,380 9,810

Table 14. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is ≤ 70 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	1,950 0 1,950	1,980 0 1,980	2,080 0 2,080	2,030 0 2,030	2,000 0 2,000	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	1,880 0 1,880	1,920 0 1,920	2,030 0 2,030	1,990 0 1,990	1,940 0 1,940	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	1,290 0 1,290	1,330 0 1,330	1,430 0 1,430	1,400 0 1,400	1,390 0 1,390	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	1,470 9,790 11,260	1,560 10,930 12,490	1,720 12,590 14,310	1,650 11,940 13,590	1,560 10,900 12,460	1,910 9,330 11,240	1,910 10,710 12,620	1,910 12,530 14,440	1,910 11,870 13,780	1,910 10,680 12,590
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	1,030 0 1,030	1,110 0 1,110	1,230 0 1,230	1,180 0 1,180	1,140 0 1,140	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	1,080 8,250 9,330	1,180 9,490 10,670	1,330 11,190 12,520	1,280 10,590 11,870	1,180 9,590 10,770	1,430 7,810 9,240	1,430 9,320 10,750	1,430 11,160 12,590	1,430 10,540 11,970	1,430 9,440 10,870

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 15. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is ≤ 70 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%	≤70%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	1,900 0 1,900	1,970 0 1,970	2,080 0 2,080	2,010 0 2,010	2,040 0 2,040	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	1,850 1,390 3,240	1,930 1,470 3,400	2,080 1,610 3,690	1,970 1,510 3,480	1,940 1,500 3,440	2,320 1,250 3,570	2,320 1,380 3,690	2,320 1,540 3,850	2,320 1,430 3,750	2,320 1,410 3,730
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	1,820 2,560 4,380	1,930 2,740 4,670	2,080 3,000 5,080	1,970 2,810 4,780	1,940 2,790 4,730	2,320 2,330 4,650	2,320 2,560 4,880	2,320 2,860 5,180	2,320 2,650 4,970	2,320 2,620 4,940
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	1,830 0 1,830	1,930 0 1,930	2,030 0 2,030	1,960 0 1,960	1,990 0 1,990	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	1,220 0 1,220	1,300 0 1,300	1,410 0 1,410	1,340 0 1,340	1,320 0 1,320	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	1,410 9,670 11,080	1,550 10,840 12,390	1,720 12,350 14,070	1,610 11,580 13,190	1,570 11,230 12,800	1,910 8,850 10,760	1,910 10,030 11,940	1,910 11,830 13,740	1,910 11,000 12,910	1,910 10,620 12,540
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	960 0 960	1,070 0 1,070	1,190 0 1,190	1,120 0 1,120	1,080 0 1,080	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	1,000 8,370 9,370	1,150 9,590 10,740	1,300 10,960 12,260	1,210 10,170 11,380	1,170 10,000 11,170	1,430 7,600 9,030	1,430 8,920 10,350	1,430 10,490 11,920	1,430 9,650 11,080	1,430 9,460 10,890

Table 16. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits any month of the year under twelve development scenarios when Tom Steed Reservoir storage is ≤ 50 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	2,160 0 2,160	2,160 0 2,160	2,170 0 2,170	2,170 0 2,170	2,160 0 2,160	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	Not Modeled[a]	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled	Not Modeled
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	2,080 0 2,080	2,100 0 2,100	2,120 0 2,120	2,110 0 2,110	2,110 0 2,110	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	1,460 0 1,460	1,480 0 1,480	1,500 0 1,500	1,490 0 1,490	1,480 0 1,480	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	1,620 11,520 13,140	1,650 11,880 13,530	1,740 12,720 14,460	1,730 12,550 14,280	1,700 12,170 13,870	1,910 11,330 13,240	1,910 11,730 13,640	1,910 12,680 14,590	1,910 12,360 14,270	1,910 12,040 13,950
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	1,190 0 1,190	1,220 0 1,220	1,270 0 1,270	1,250 0 1,250	1,250 0 1,250	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	1,200 9,680 10,880	1,250 10,330 11,580	1,340 11,220 12,560	1,310 10,890 12,200	1,280 10,510 11,790	1,430 9,360 10,790	1,430 10,090 11,520	1,430 11,180 12,610	1,430 10,850 12,280	1,430 10,280 11,710

[a] These scenarios were not modeled for Initiating Any Month of the Year but are shown for Initiating in September Only in the following table.

Table 17. Average annual water availability of existing and/or new junior stream permits above Tom Steed Reservoir that result from initiating curtailment of permits in September under twelve development scenarios when Tom Steed Reservoir storage is ≤ 50 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

		Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
			Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold		-	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%	≤50%
Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Top Row – Existing Upstream Junior SW Permit Average Annual Availability (acre-ft/yr) Middle Row – New Upstream Junior SW Permit Average Availability (acre-ft/yr) Bottom Row - Total Upstream Junior SW Permit Average Annual Availability (acre-ft/yr)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	2,320 0 2,320	2,120 0 2,120	2,120 0 2,120	2,150 0 2,150	2,120 0 2,120	2,140 0 2,140	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	2,320 1,860 4,180	-	-	-	-	-	2,100 1,640 3,740	2,120 1,660 3,780	2,150 1,690 3,840	2,120 1,660 3,780	2,120 1,660 3,780	2,320 1,600 3,920	2,320 1,630 3,950	2,320 1,660 3,980	2,320 1,630 3,950	2,320 1,630 3,950
	High (5,000)	2,320 3,440 5,760	-	-	-	-	-	2,100 3,050 5,150	2,120 3,090 5,210	2,150 3,140 5,290	2,120 3,090 5,210	2,120 3,090 5,210	2,320 2,980 5,300	2,320 3,030 5,350	2,320 3,080 5,400	2,320 3,030 5,350	2,320 3,030 5,350
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	2,270 0 2,270	2,050 0 2,050	2,060 0 2,060	2,090 0 2,090	2,060 0 2,060	2,080 0 2,080	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	1,910 0 1,910	1,430 0 1,430	1,430 0 1,430	1,460 0 1,460	1,430 0 1,430	1,450 0 1,450	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	1,910 14,150 16,060	-	-	-	-	-	1,550 11,080 12,630	1,610 11,610 13,220	1,720 12,460 14,180	1,660 12,040 13,700	1,660 12,040 13,700	1,910 10,540 12,450	1,910 11,110 13,020	1,910 12,060 13,970	1,910 11,580 13,490	1,910 11,580 13,490
Full Groundwater Permit Use and High Domestic Use Conditions	None	1,430 0 1,430	1,110 0 1,110	1,170 0 1,170	1,220 0 1,220	1,190 0 1,190	1,190 0 1,190	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	1,430 12,580 14,010	-	-	-	-	-	1,130 9,620 10,750	1,220 10,340 11,560	1,300 11,070 12,370	1,250 10,520 11,770	1,260 10,730 11,990	1,430 9,140 10,570	1,430 9,890 11,320	1,430 10,710 12,140	1,430 10,100 11,540	1,430 10,110 11,540

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

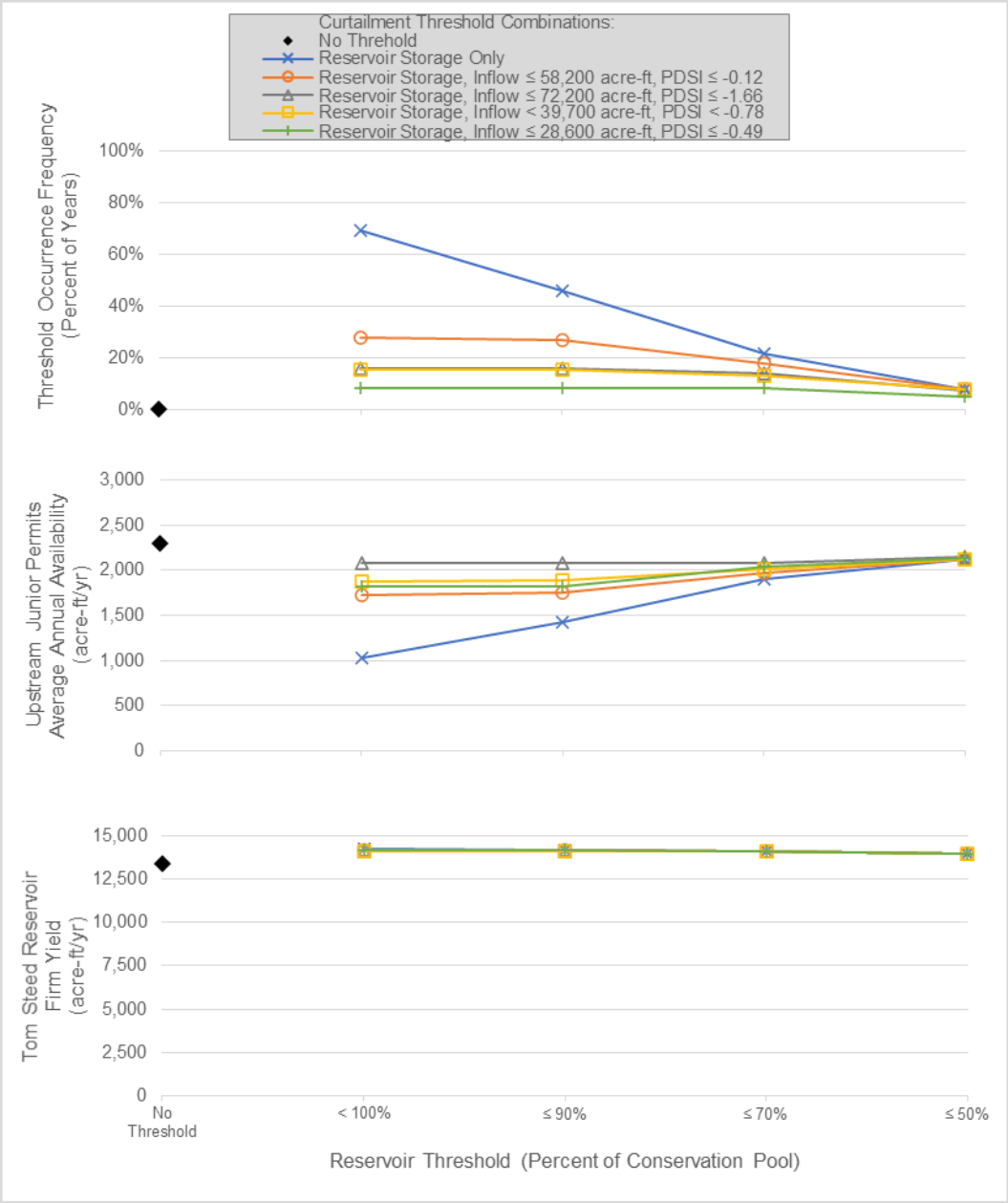

Figure 1. *Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).*

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

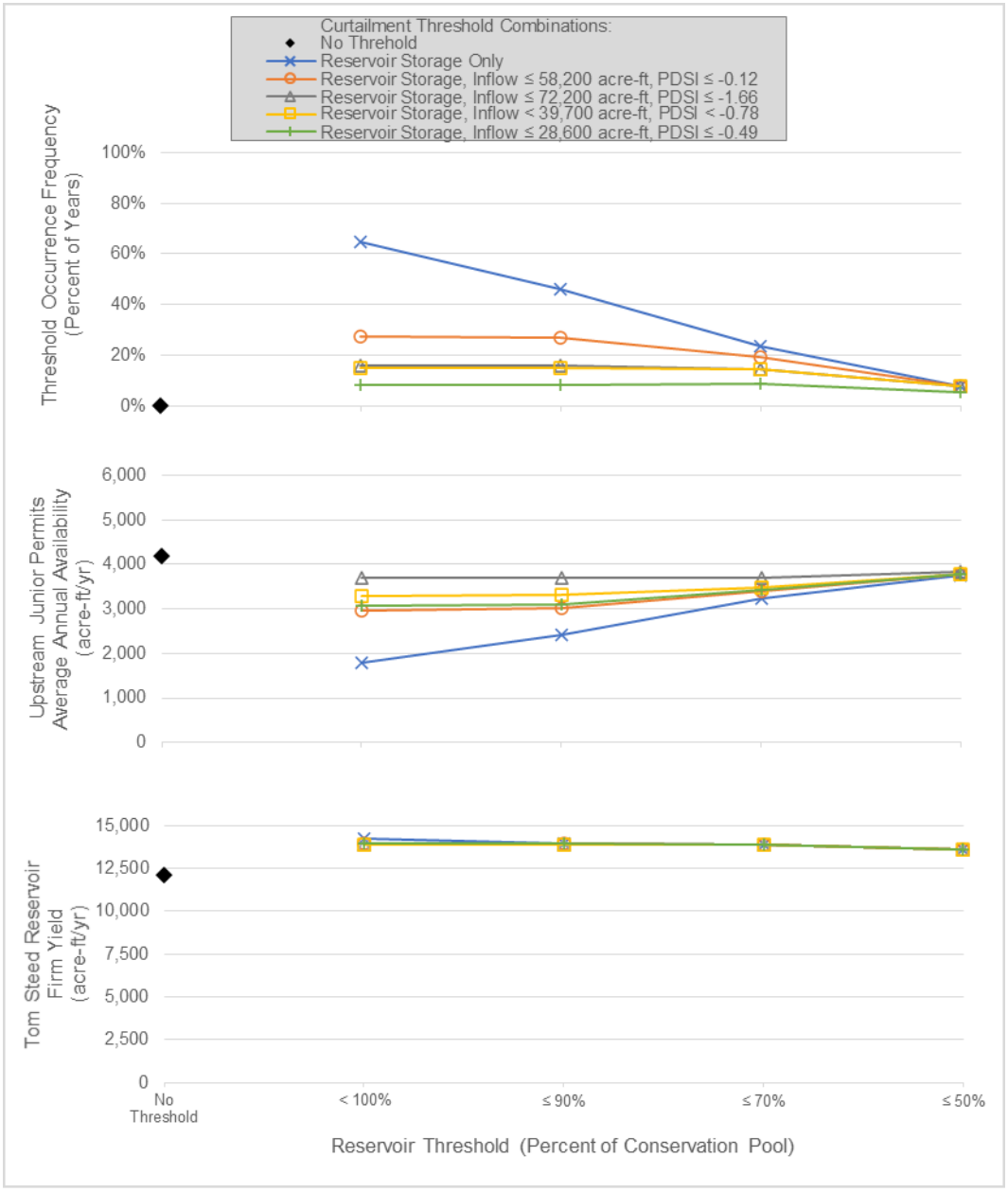

Figure 2. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

Impacts From Curtailing New Stream Permits (Low: 2,500 acre-ft/yr)

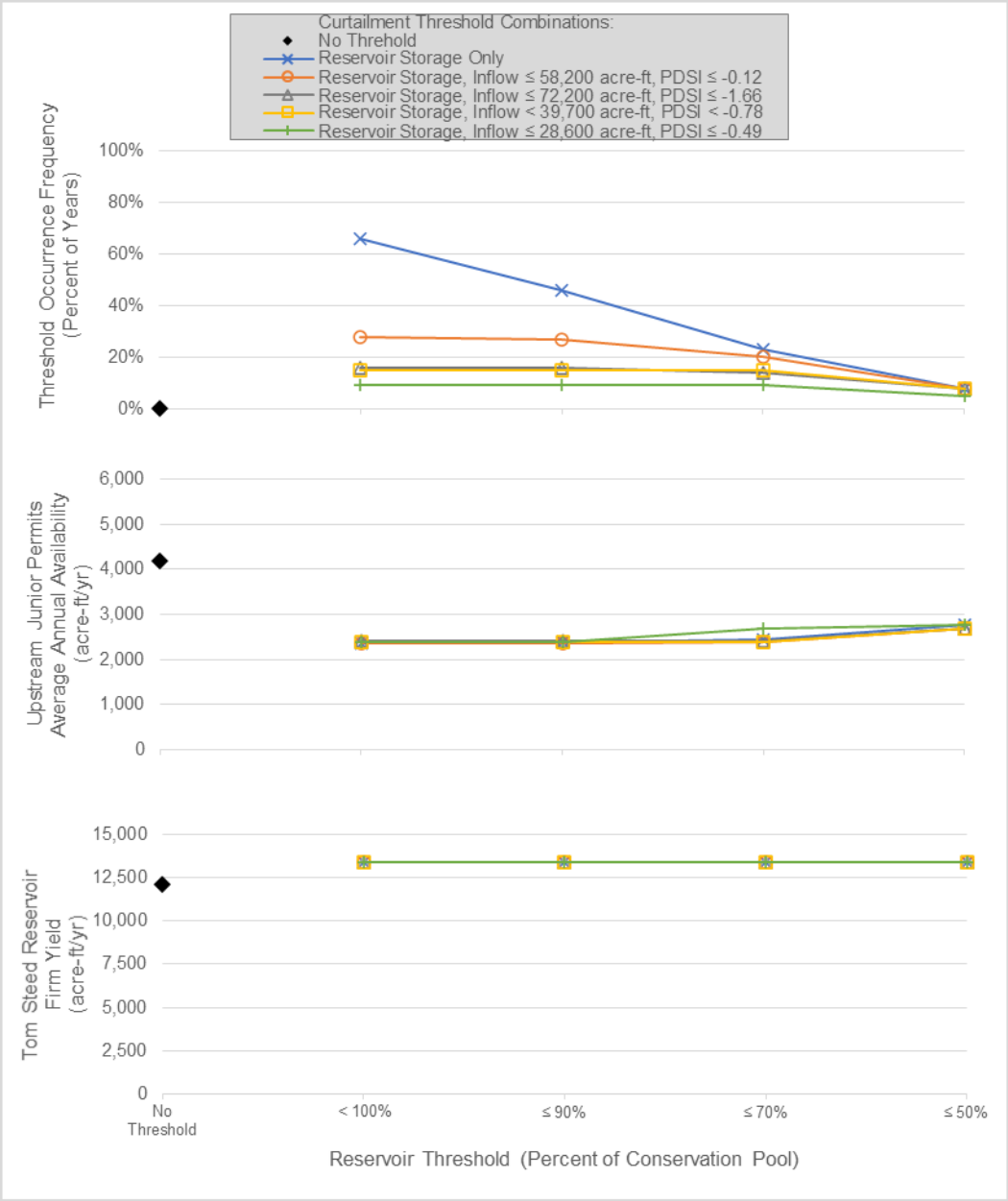

Figure 3. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft) and New Stream Permits (High: 5,000 acre-ft/yr)

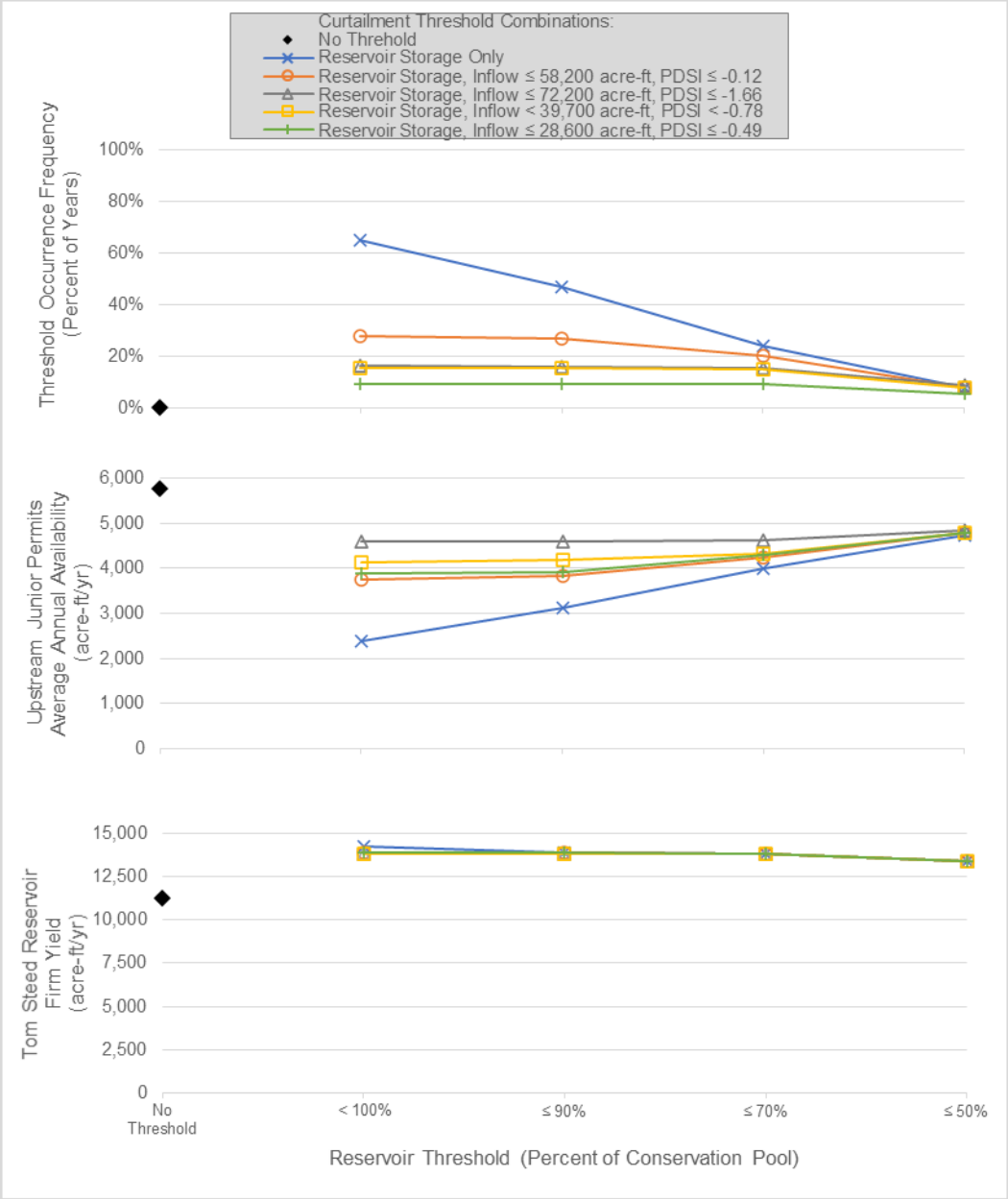

Figure 4. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

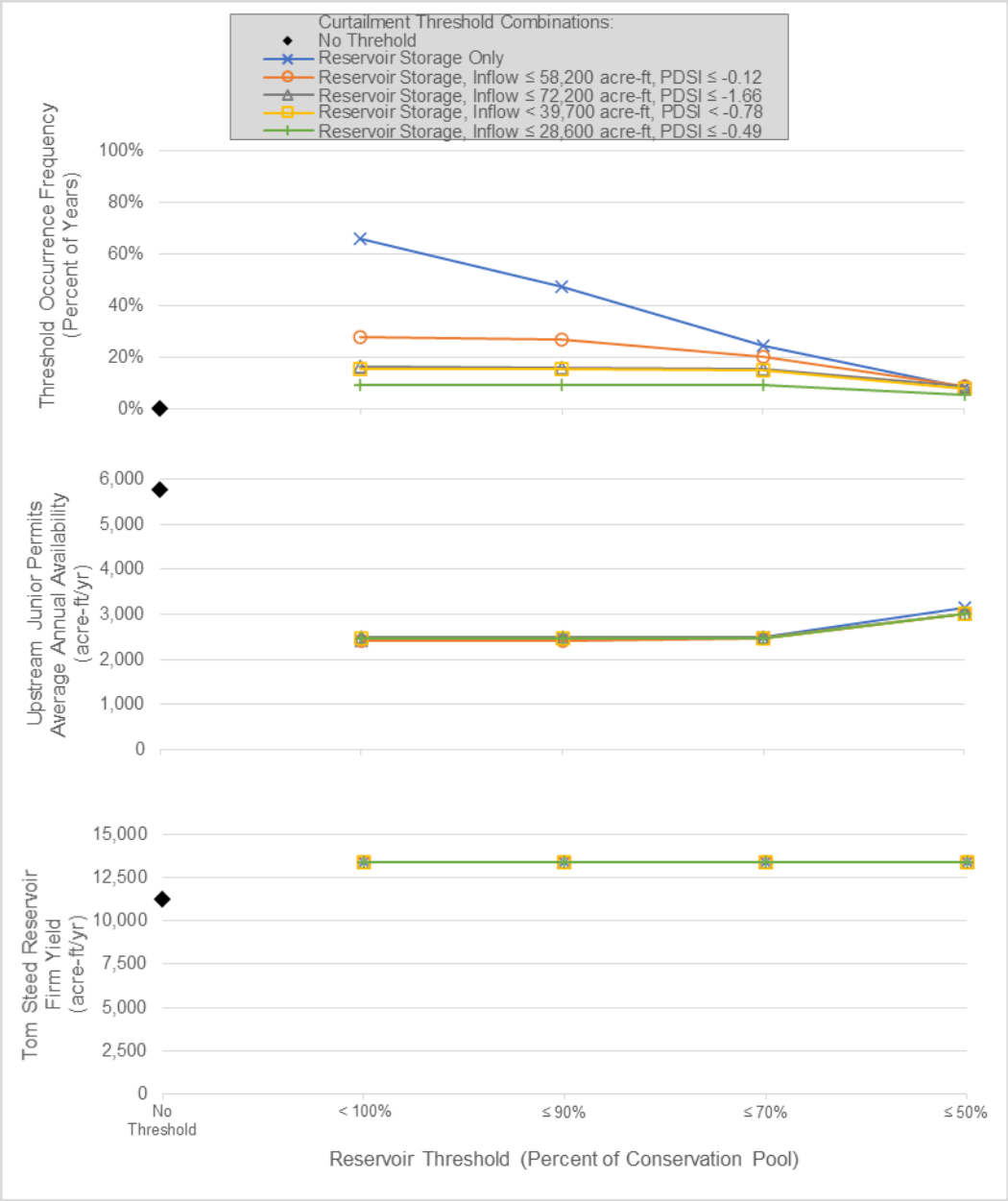

Figure 5. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

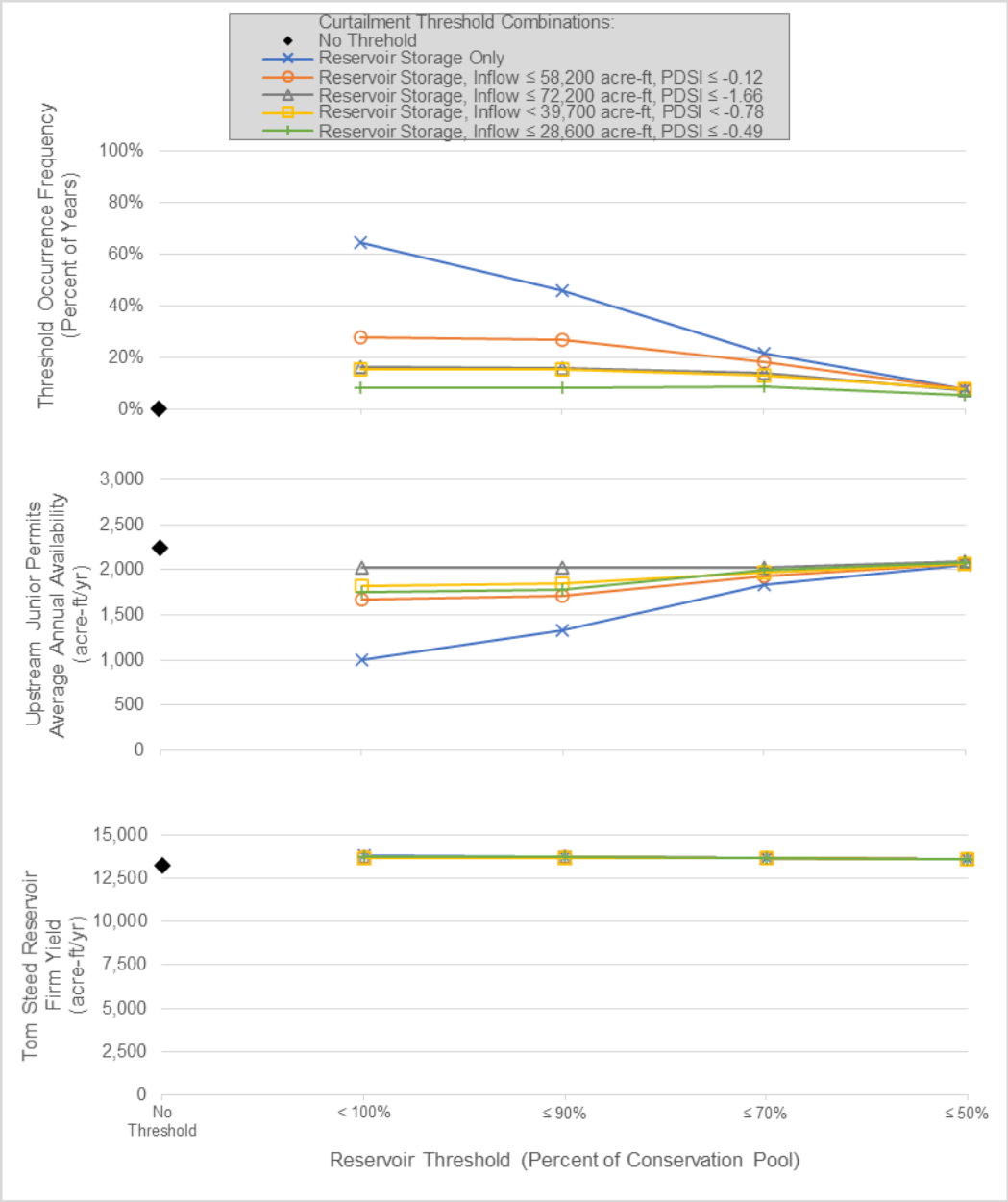

Figure 6. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

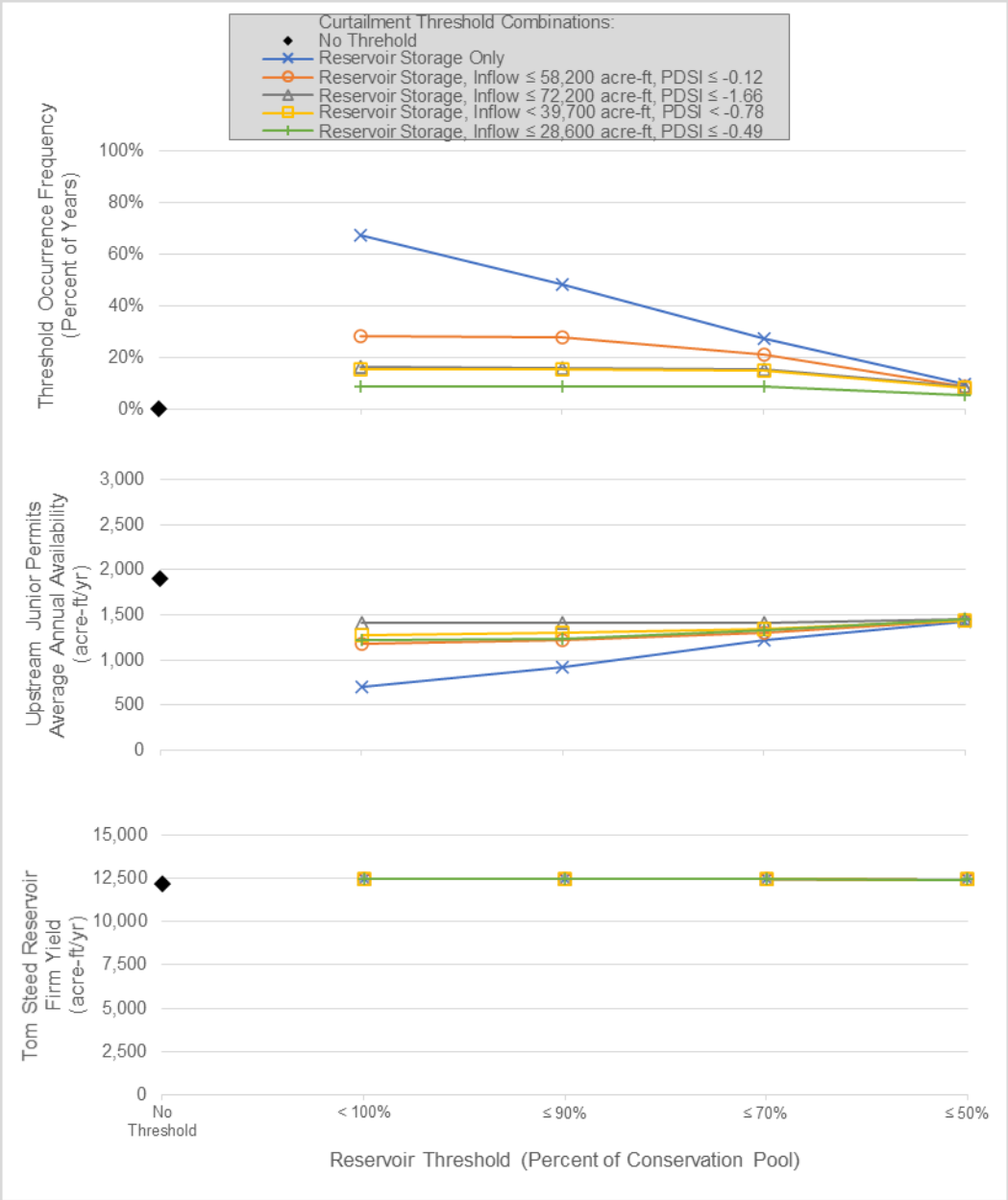

Figure 7. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

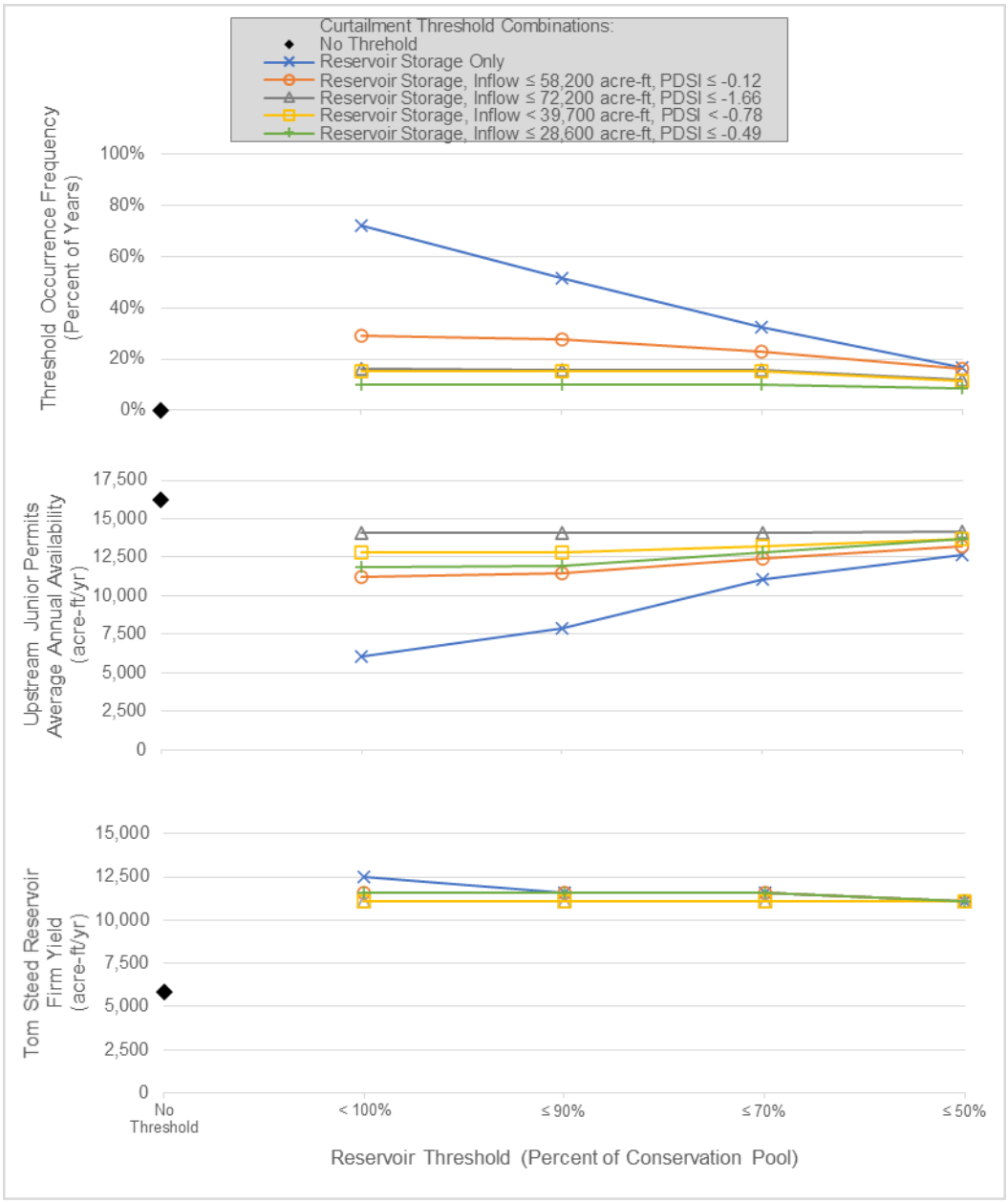

Figure 8. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

Impacts From Curtailing New Stream Permits (Full: 35,800 acre-ft/yr)

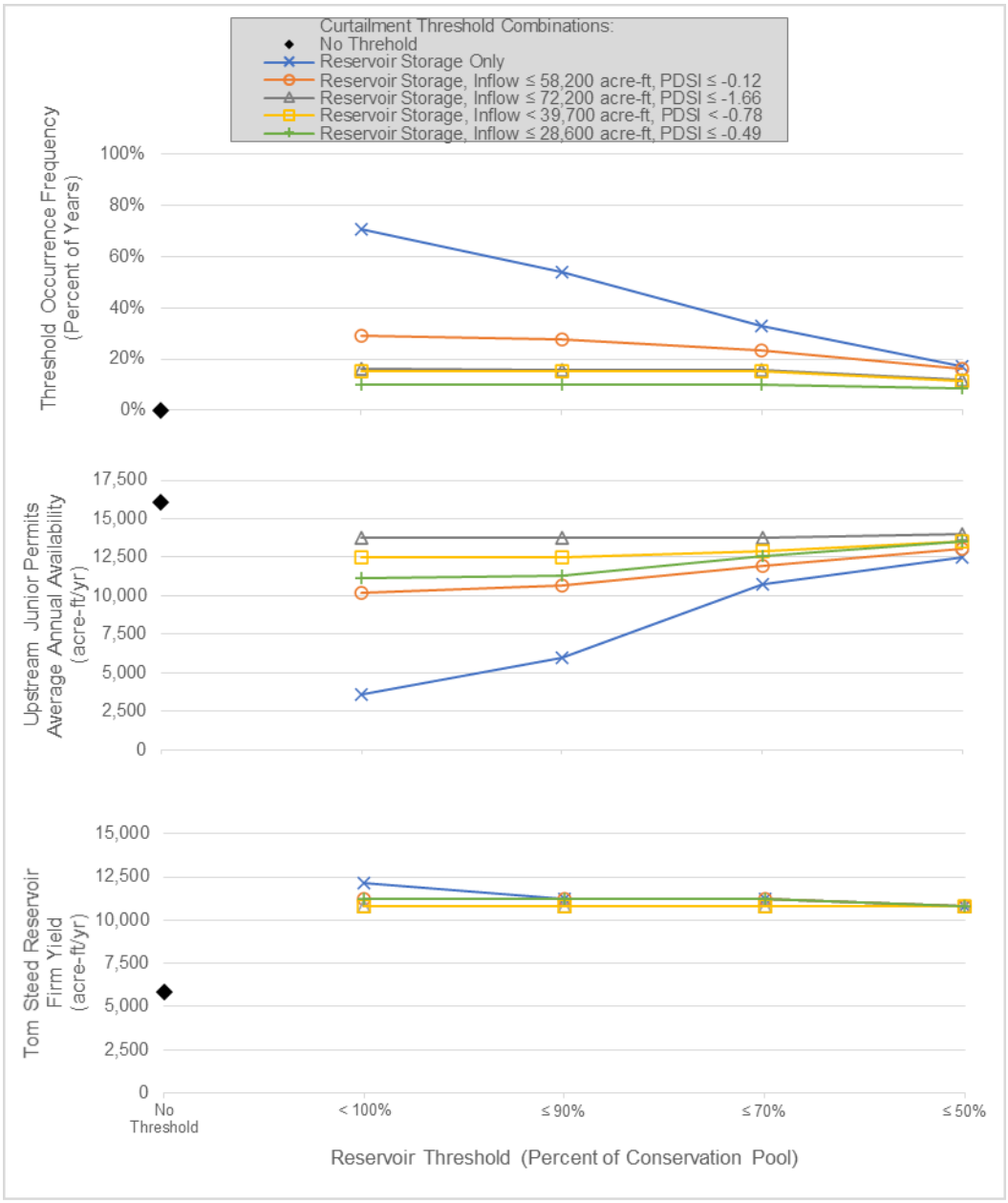

Figure 9. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

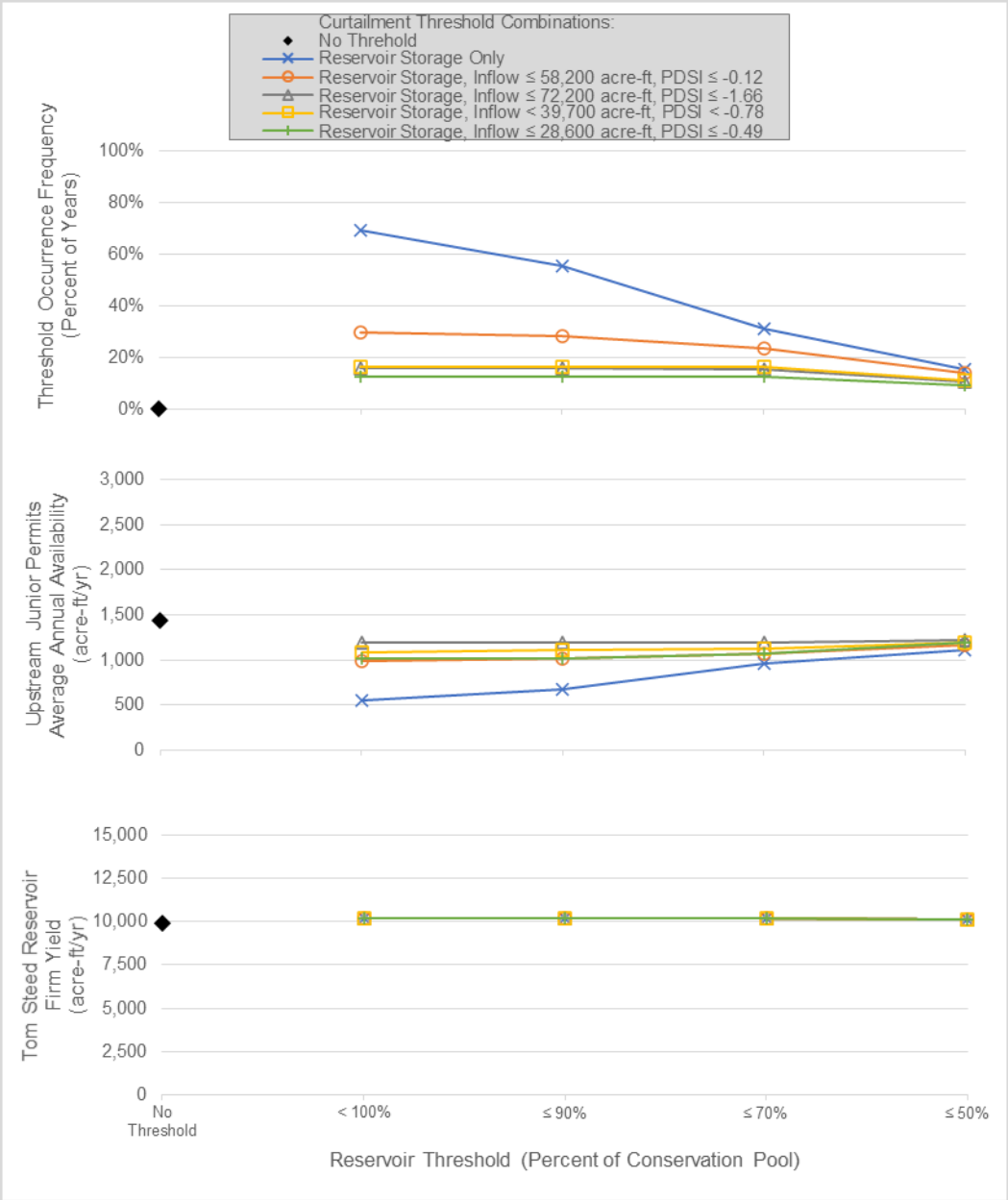

Figure 10. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

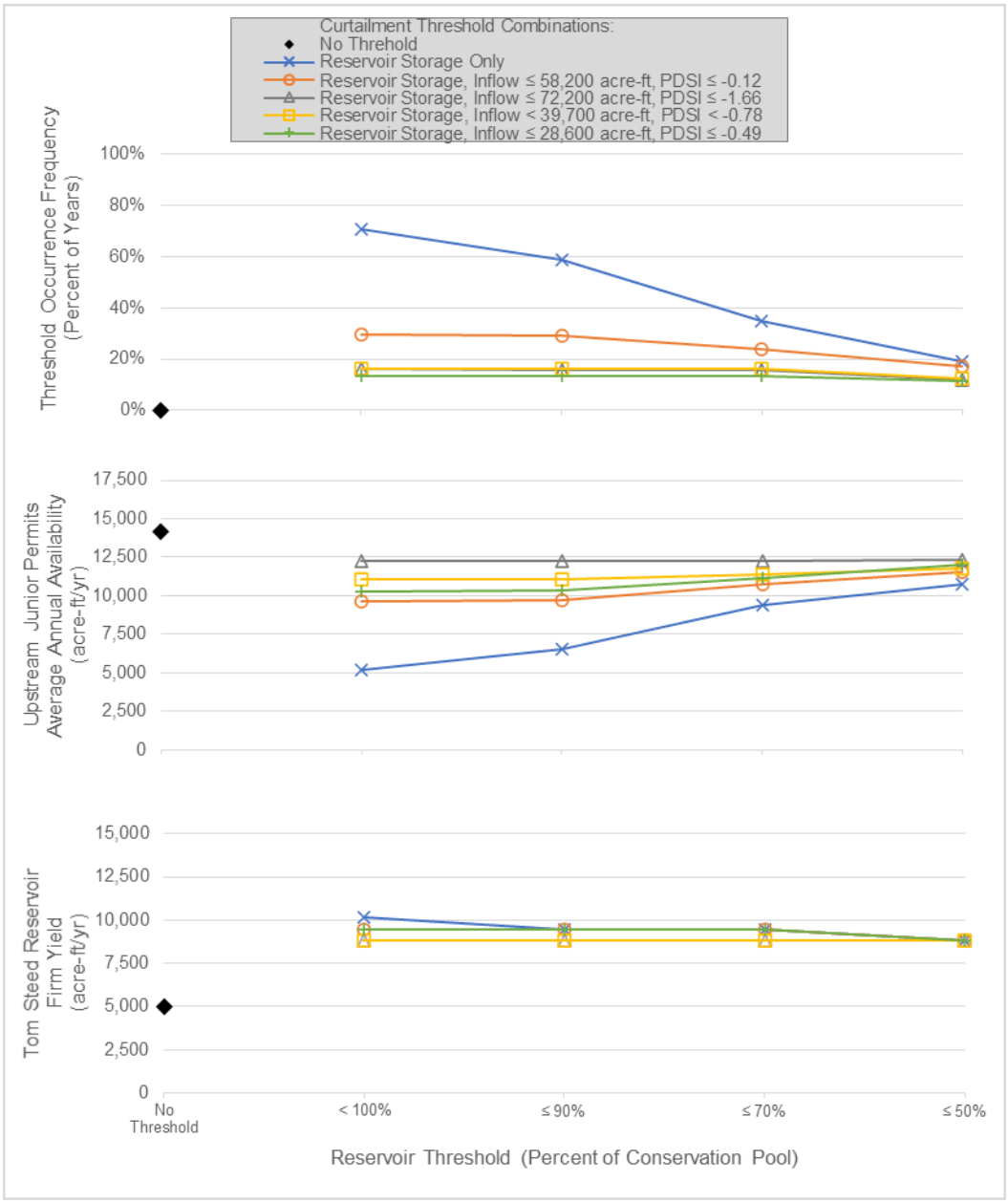

Figure 11. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

Impacts From Curtailing New Stream Permits (Full: 33,500 acre-ft/yr)

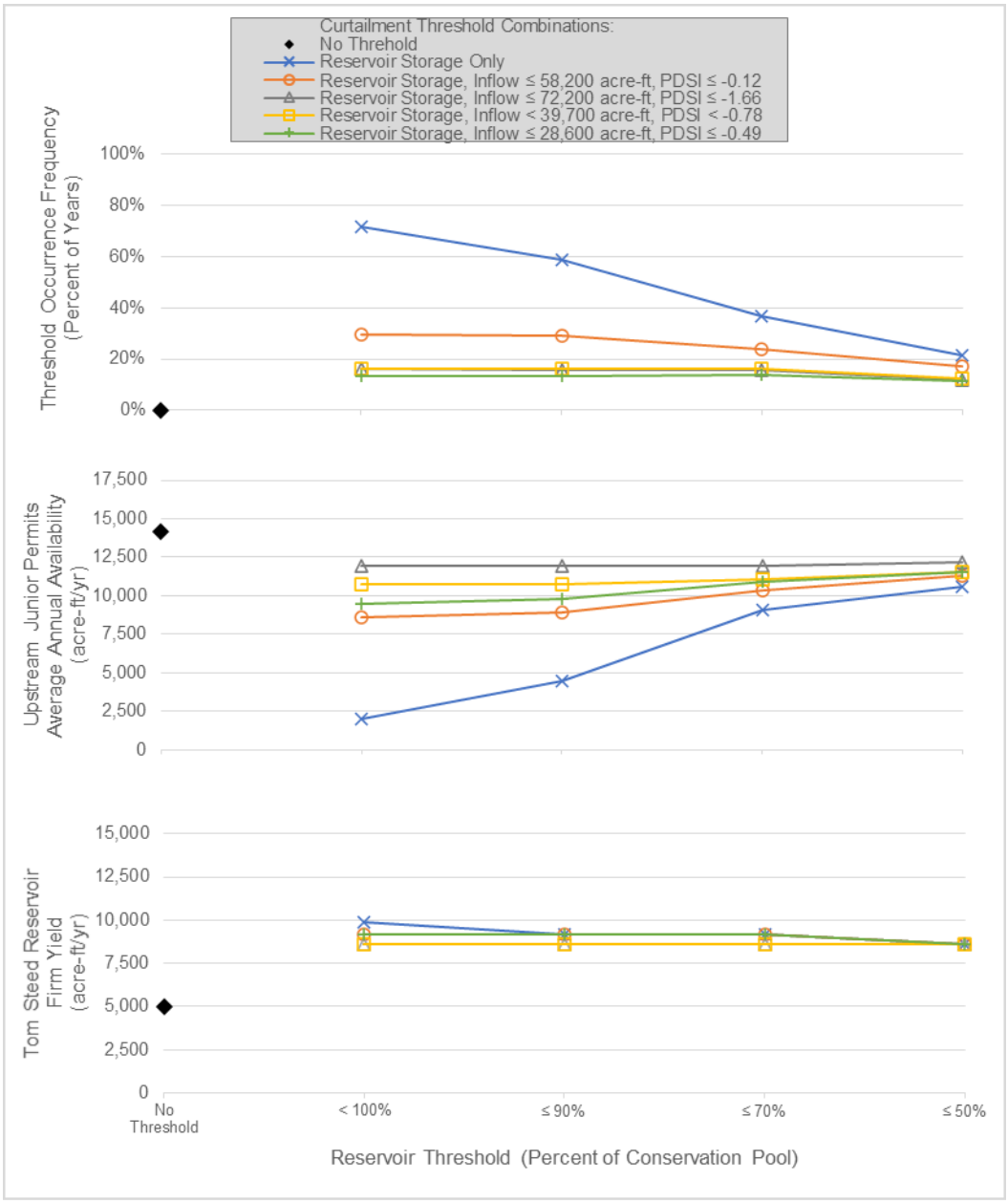

Figure 12. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below four reservoir storage thresholds (x-axis) and when both inflow and PDSI are at or below four curtailment threshold combinations (legend).

Curtailment Based on Top of Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

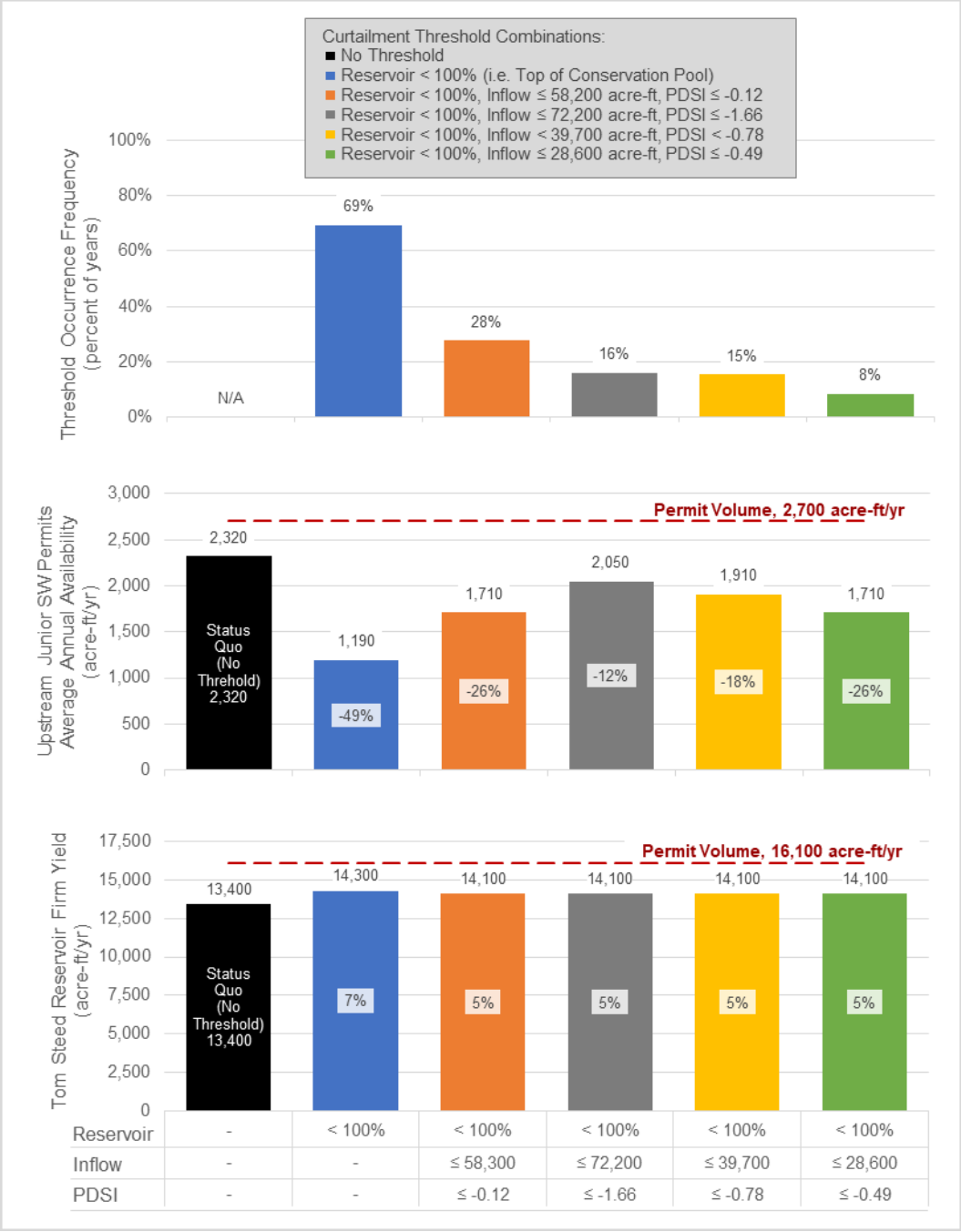

Figure 13. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

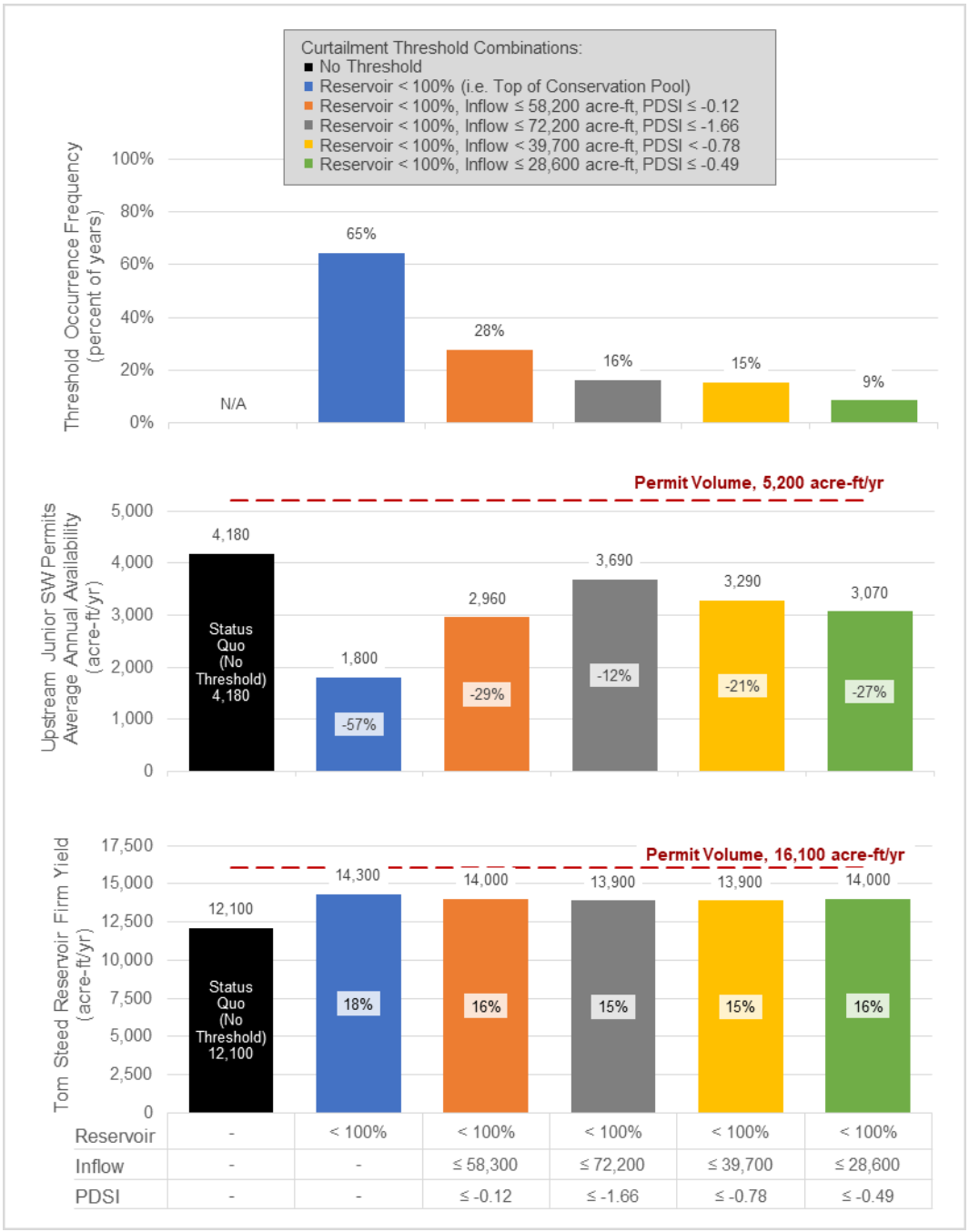

Figure 14. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing 2,500 acre-ft/yr of New Stream Permits

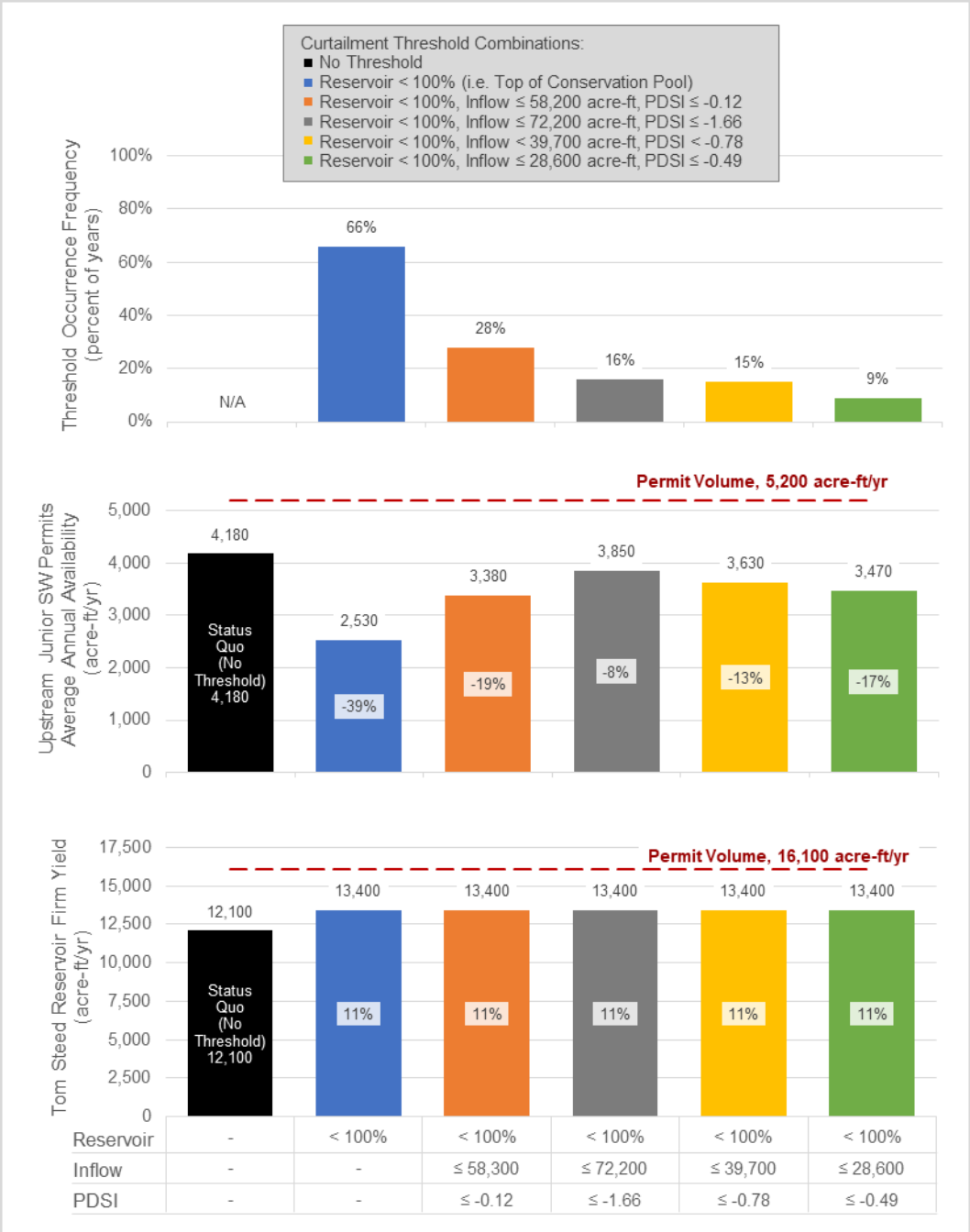

Figure 15. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

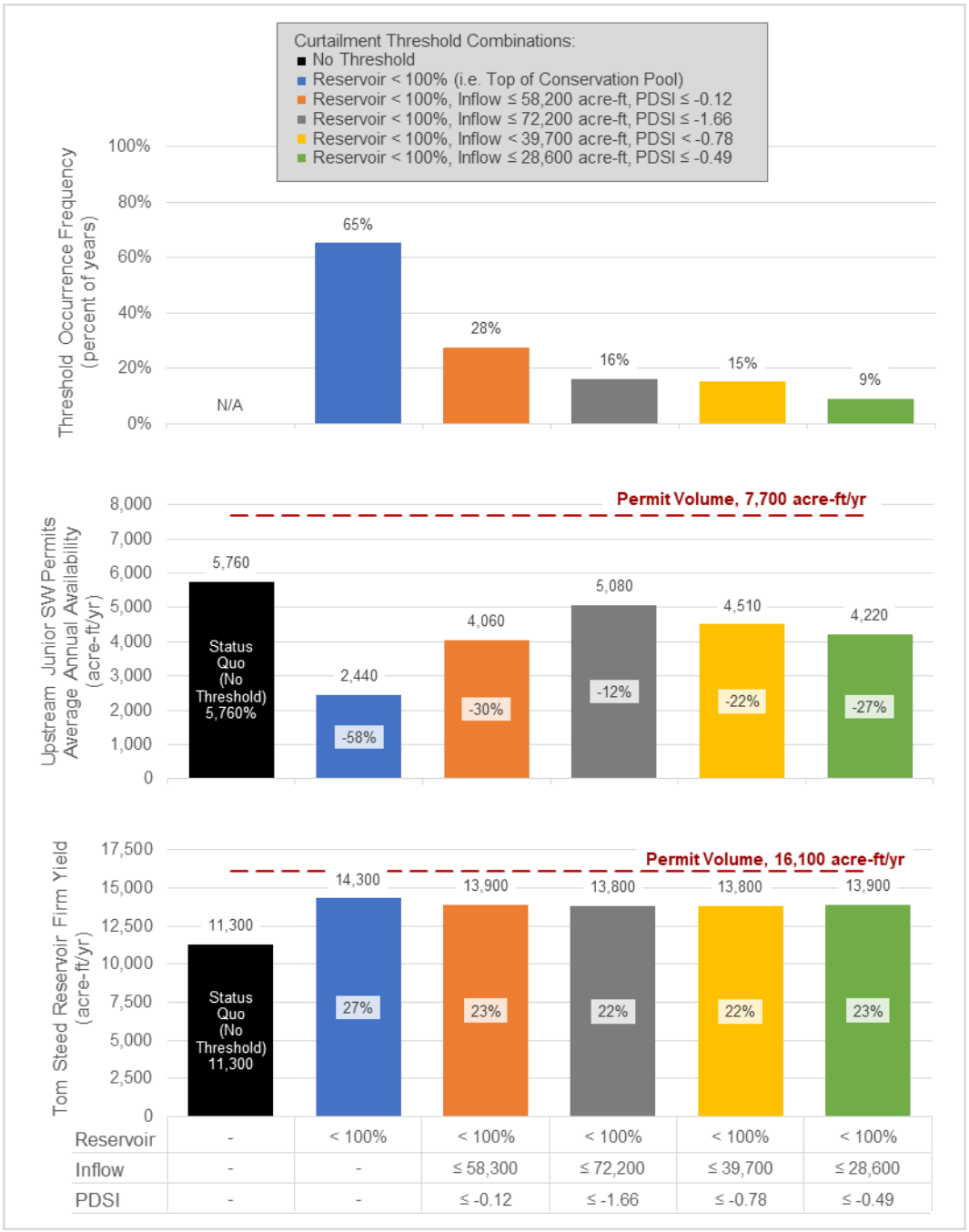

Figure 16. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

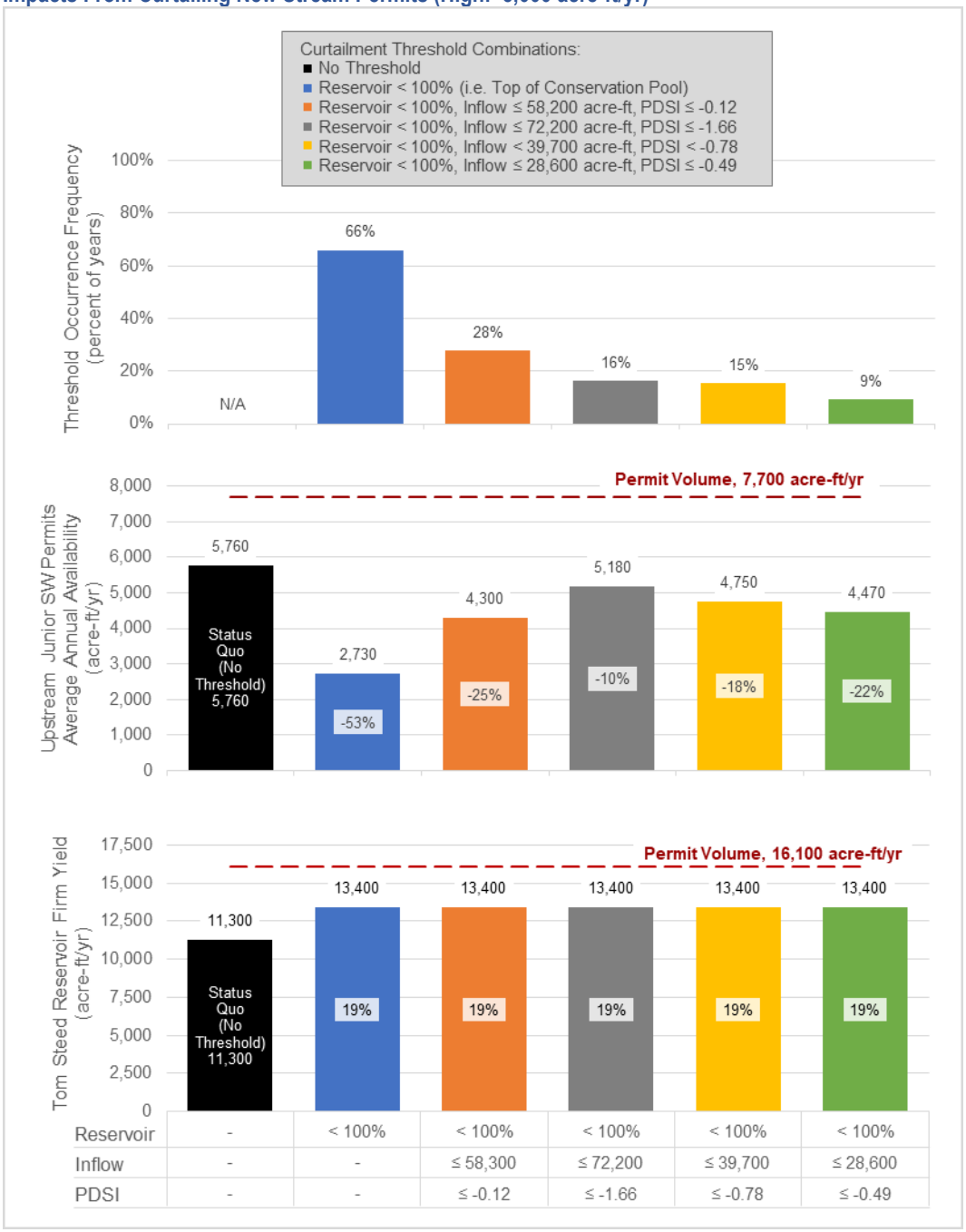

Figure 17. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Existing and/or New Groundwater Permits and Existing Domestic Use Conditions

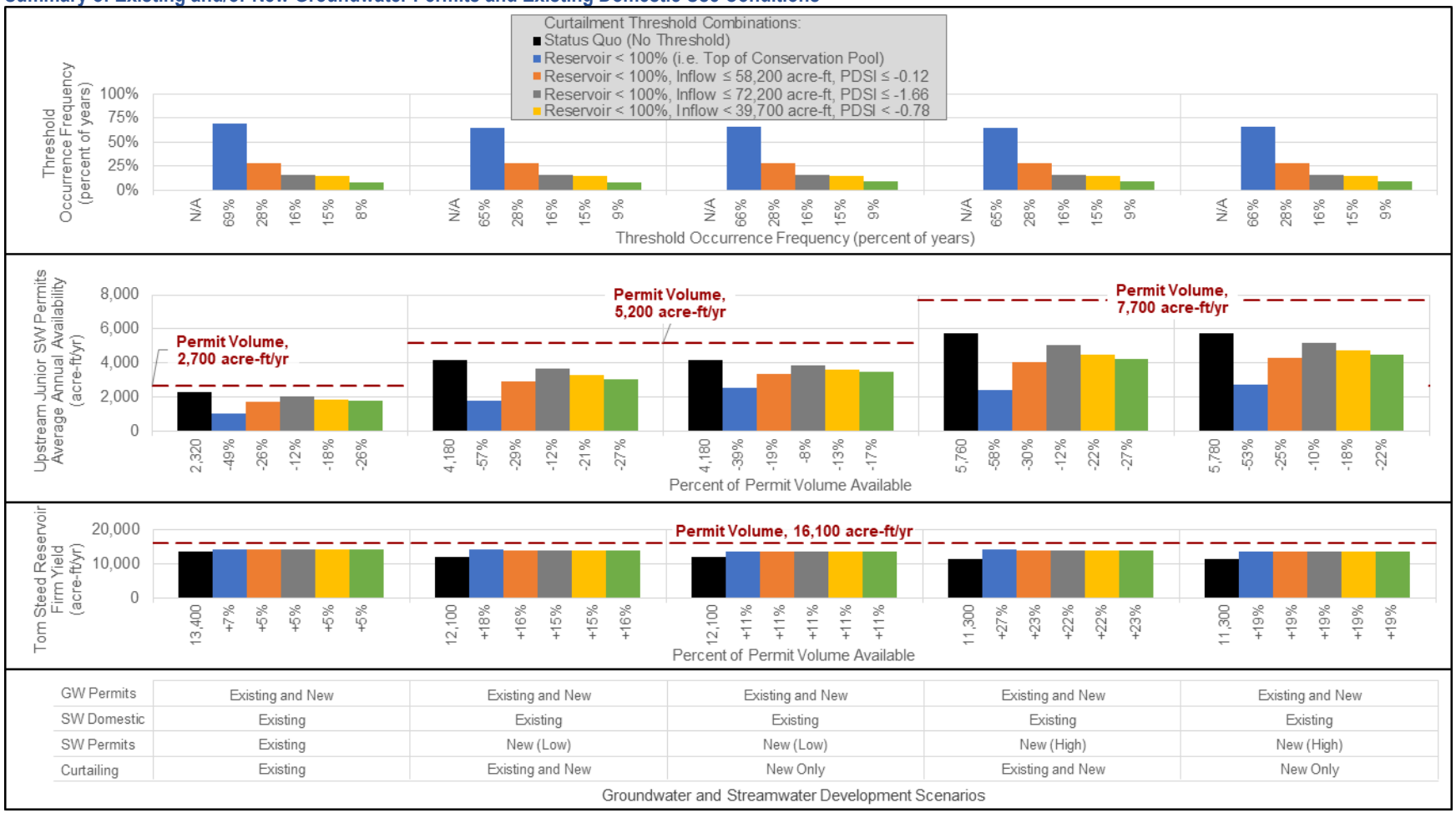

Figure 18. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

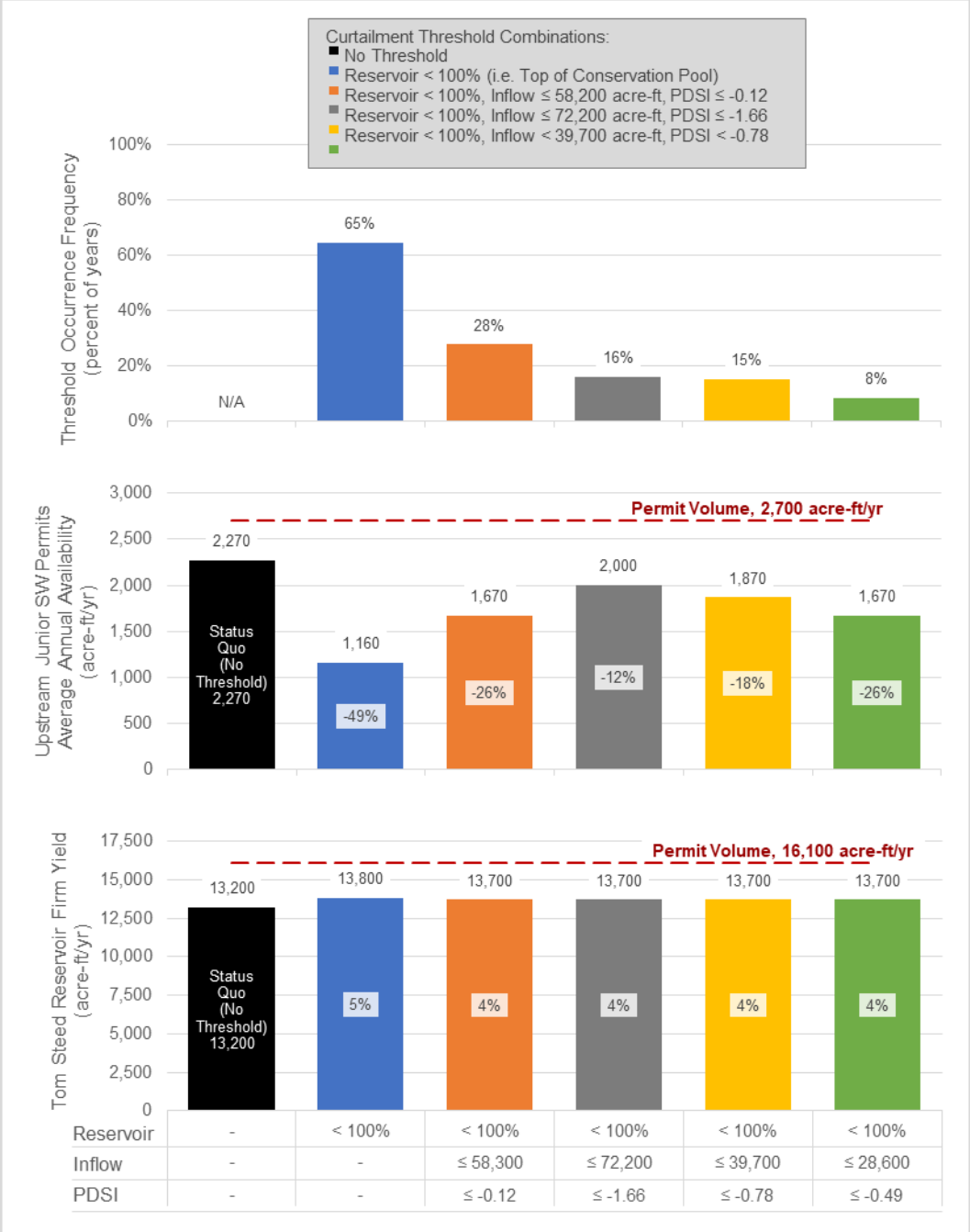

Figure 19. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

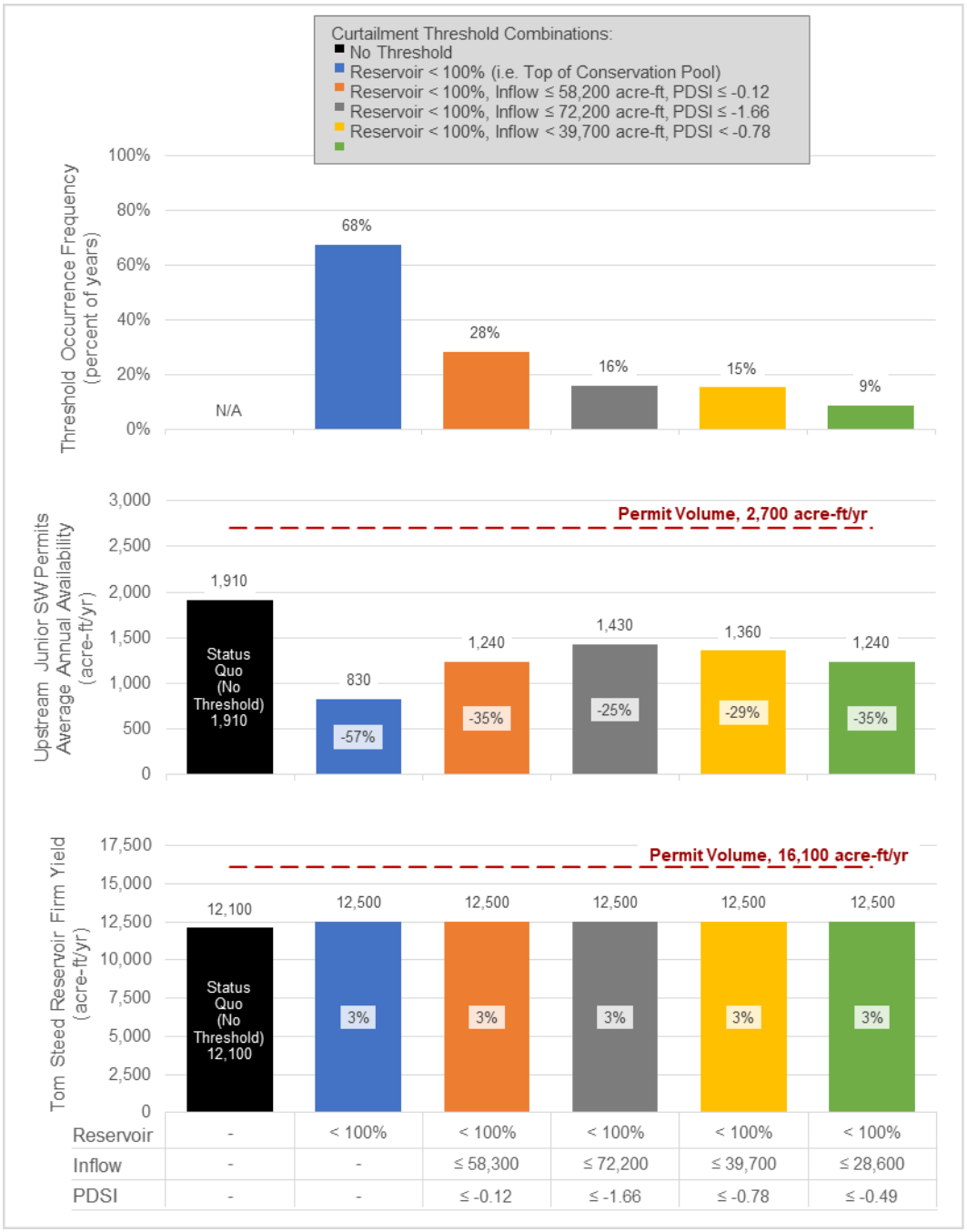

Figure 20. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

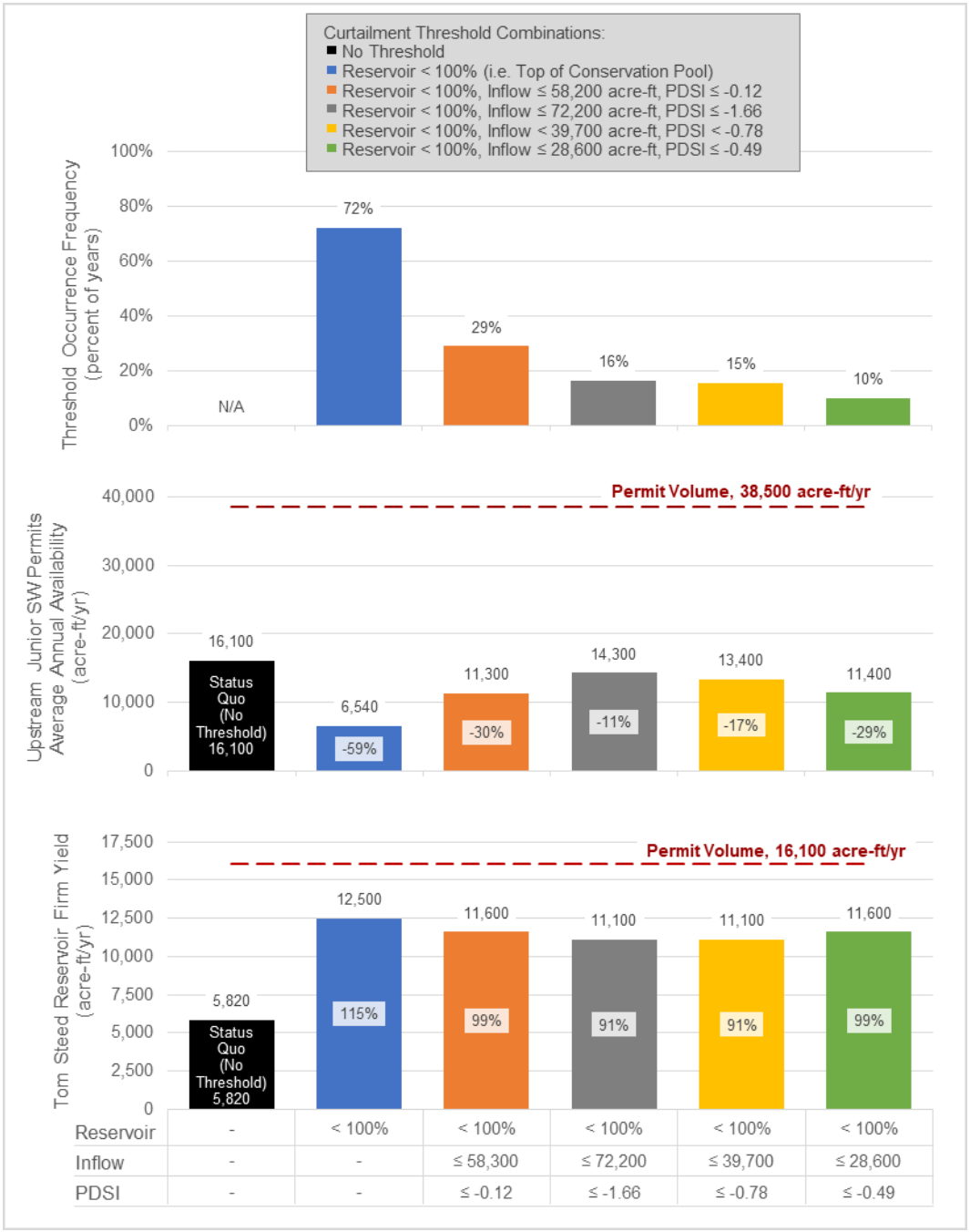

Figure 21. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

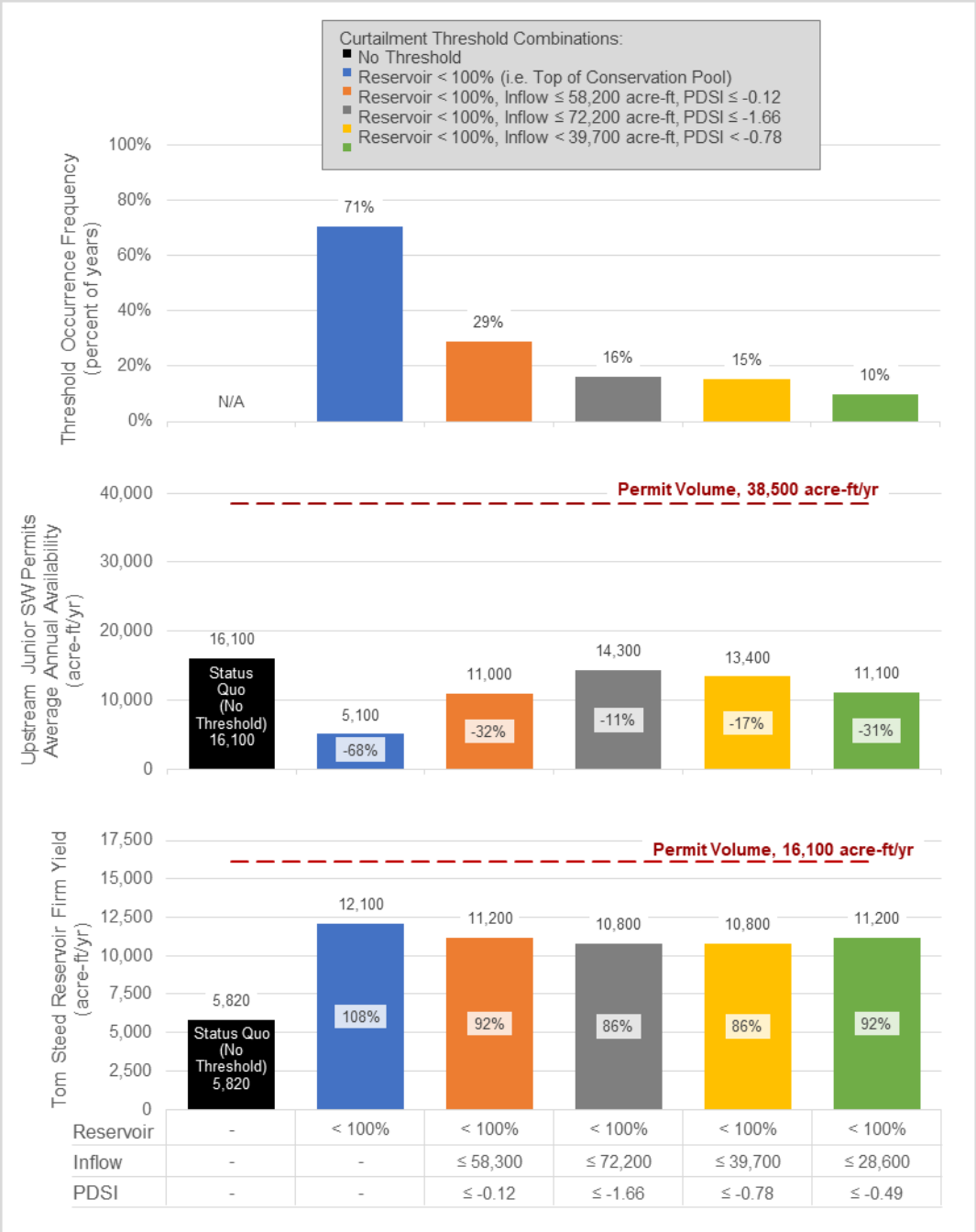

Figure 22. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

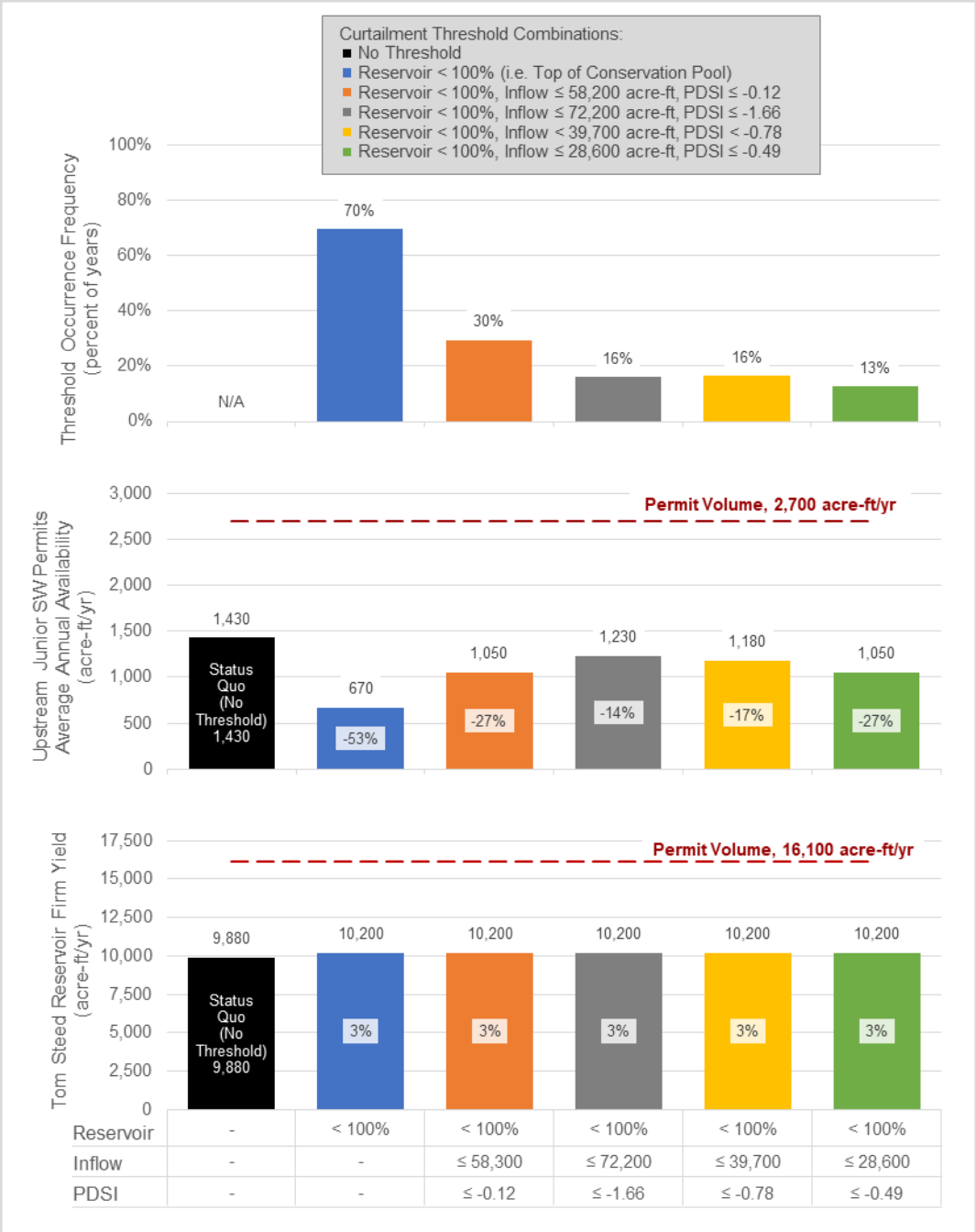

Figure 23. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

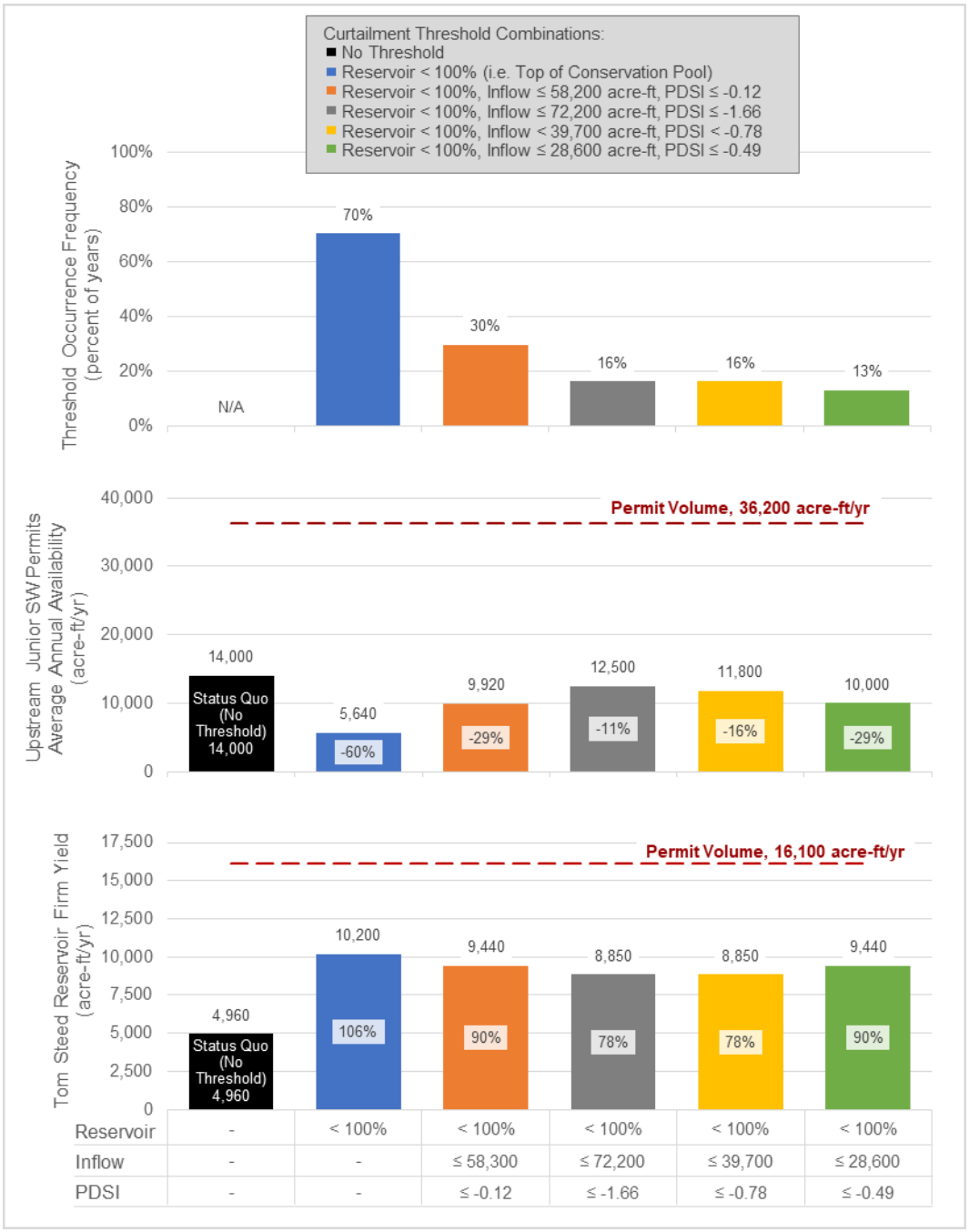

Figure 24. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From 33,500 acre-ft/yr of New Stream Permits

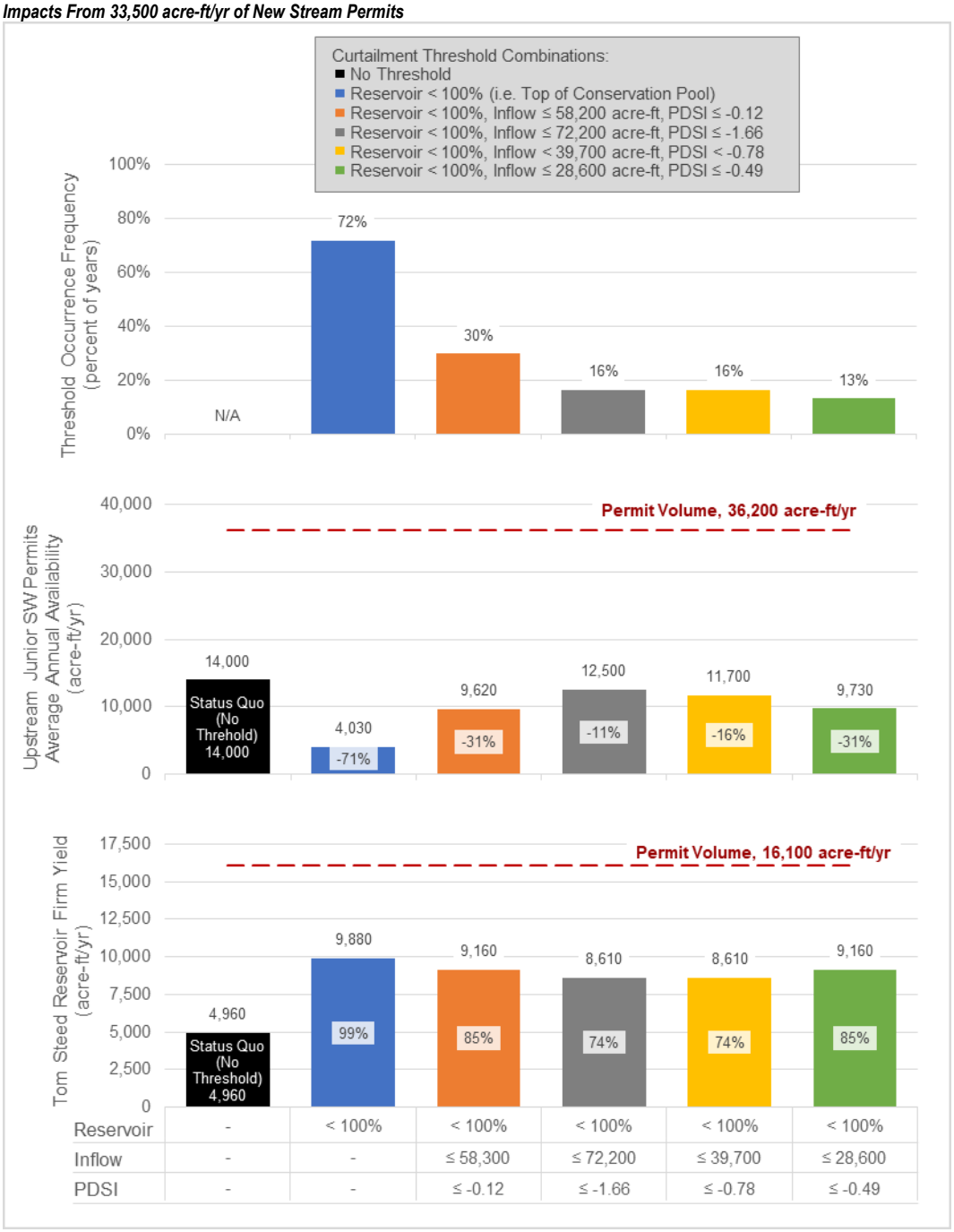

Figure 25. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Figure 26. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of All Results

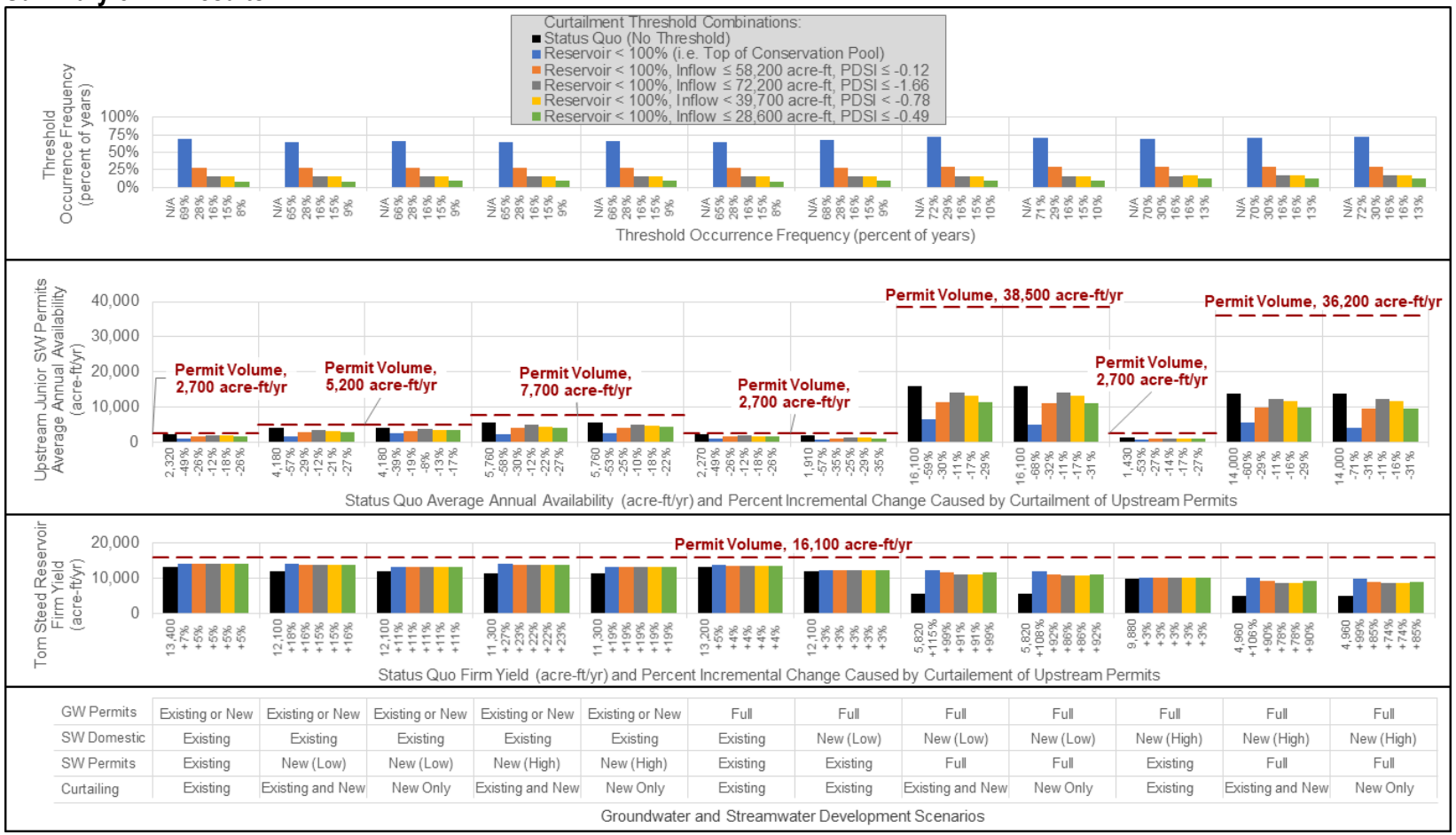

Figure 27. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Curtailment Based on Less or Equal to 90 Percent Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

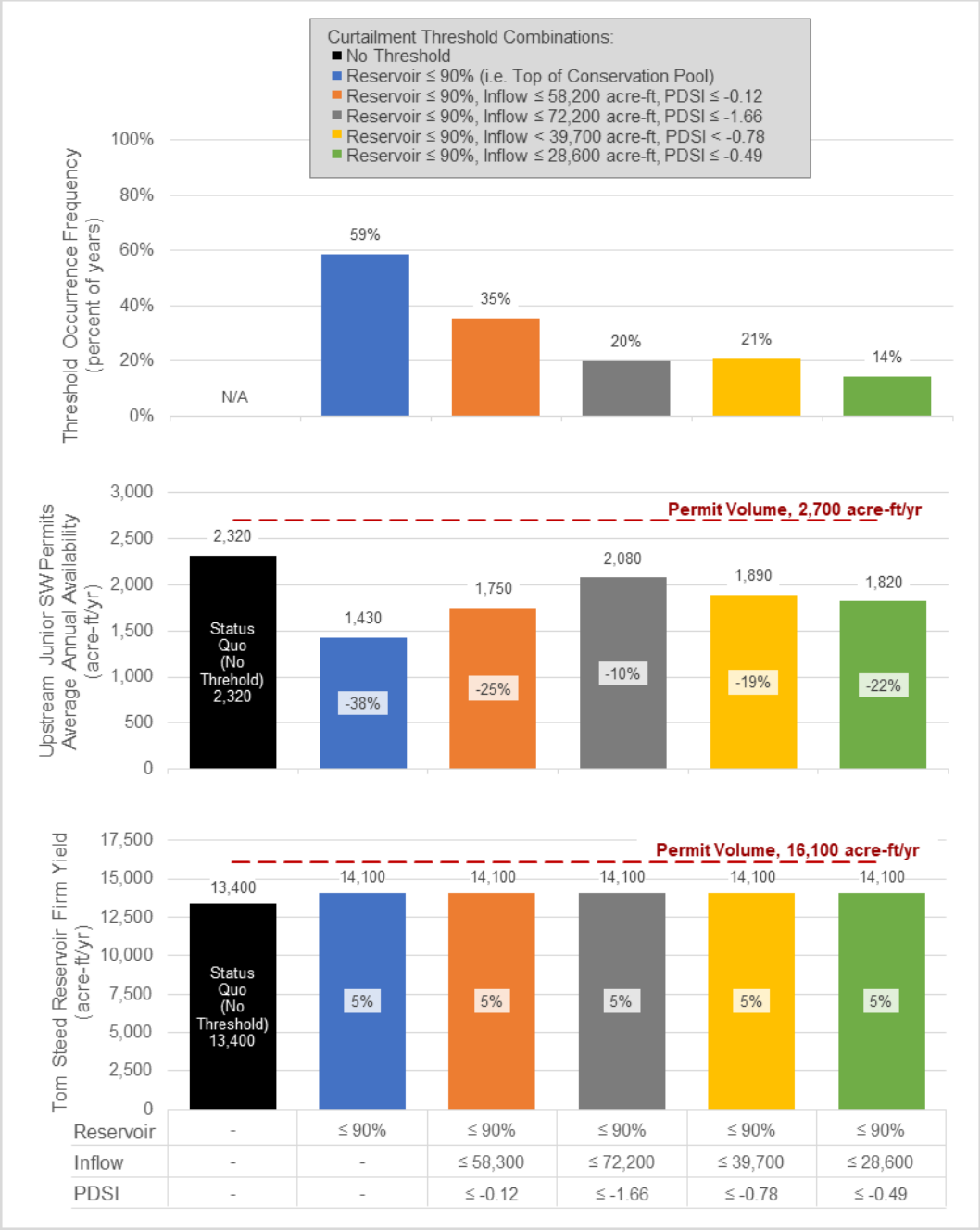

Figure 28. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

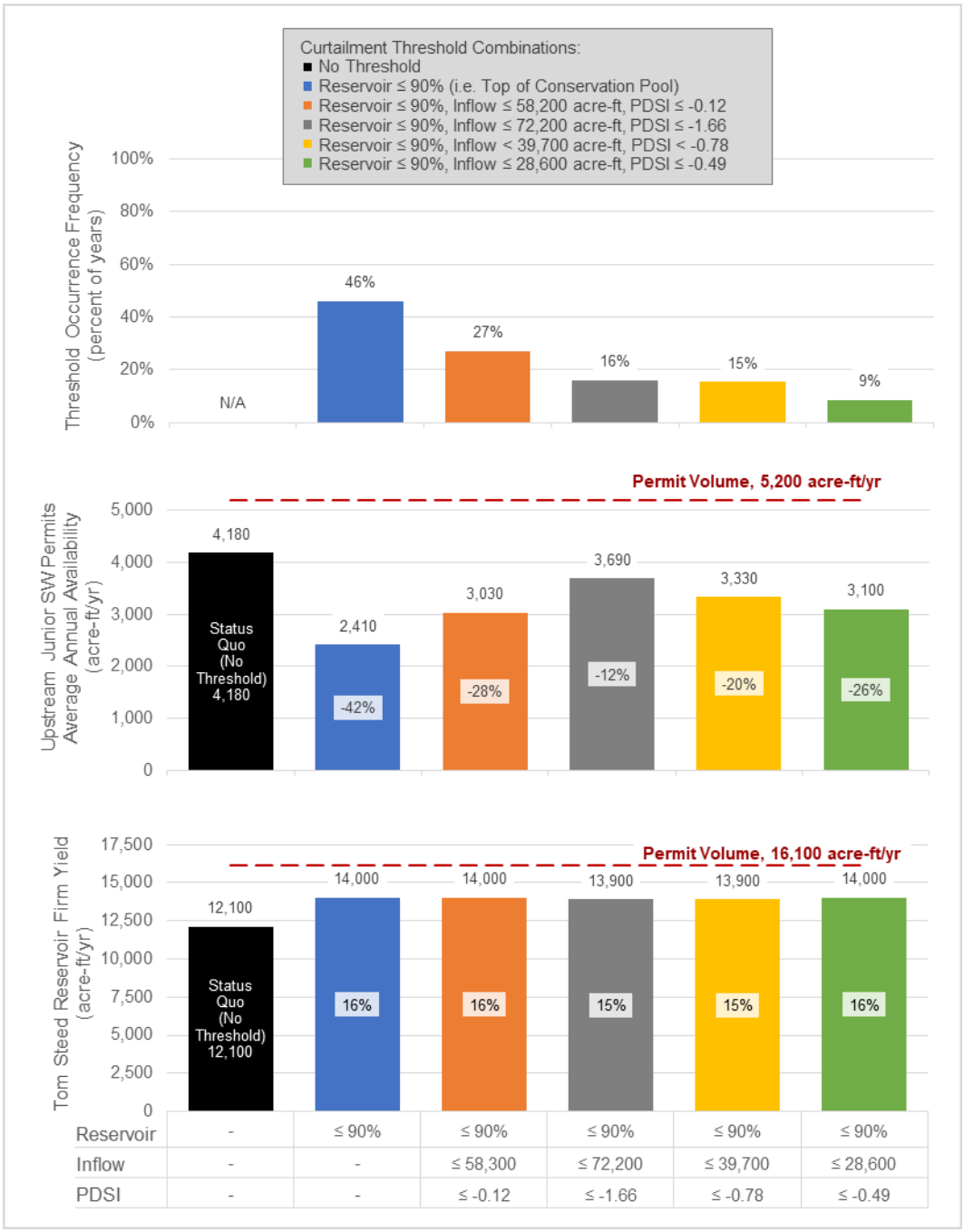

Figure 29. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing 2,500 acre-ft/yr of New Stream Permits

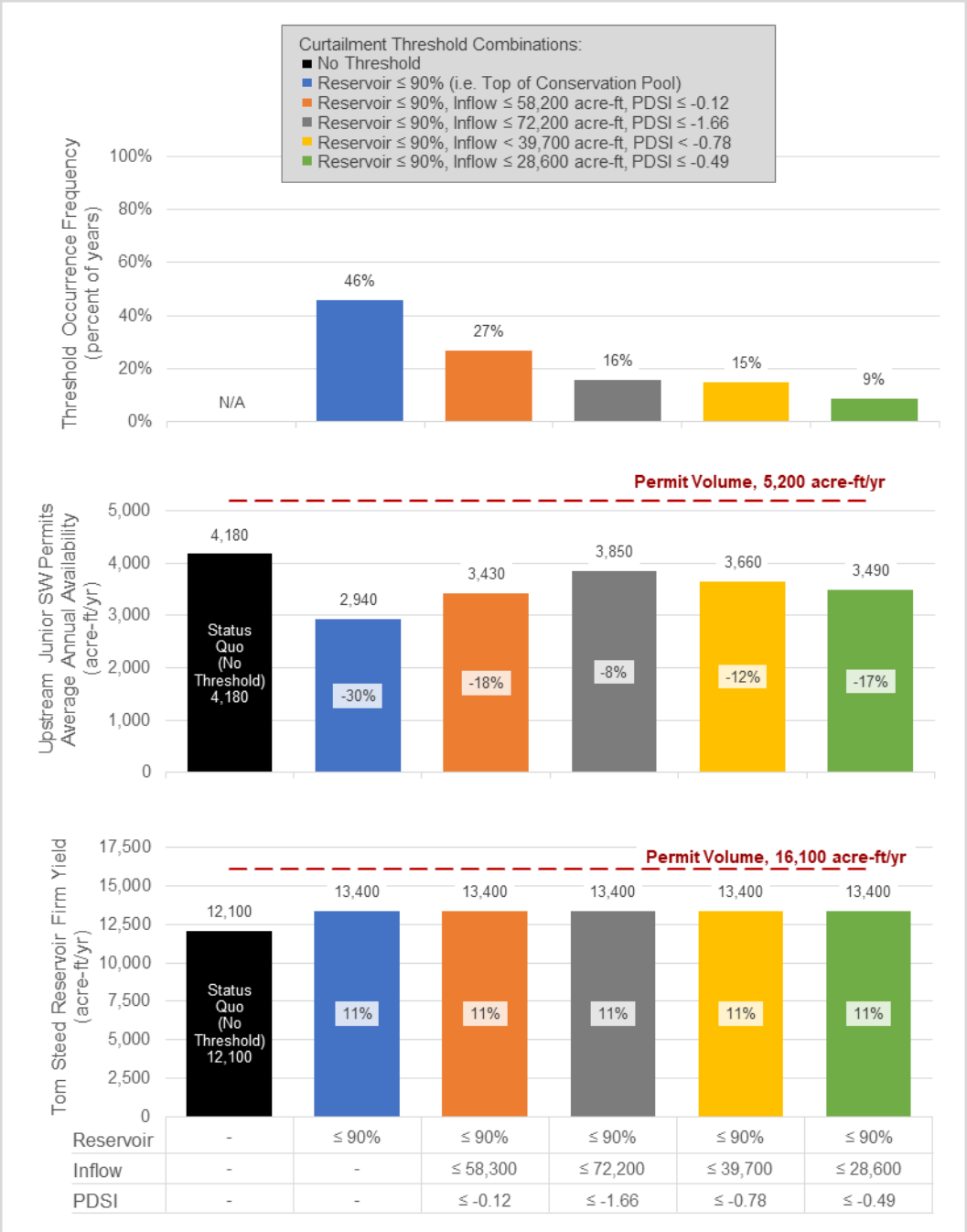

Figure 30. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

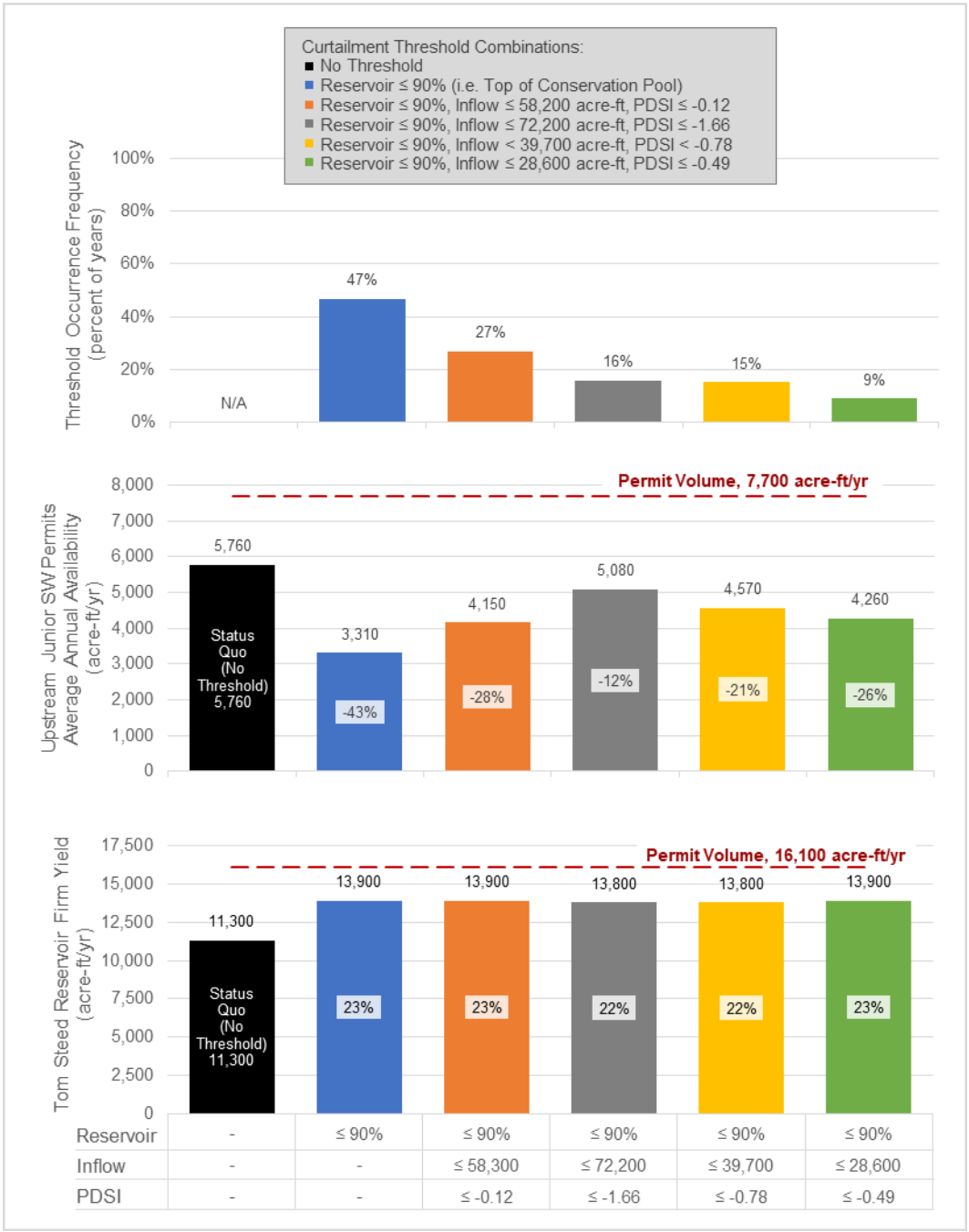

Figure 31. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

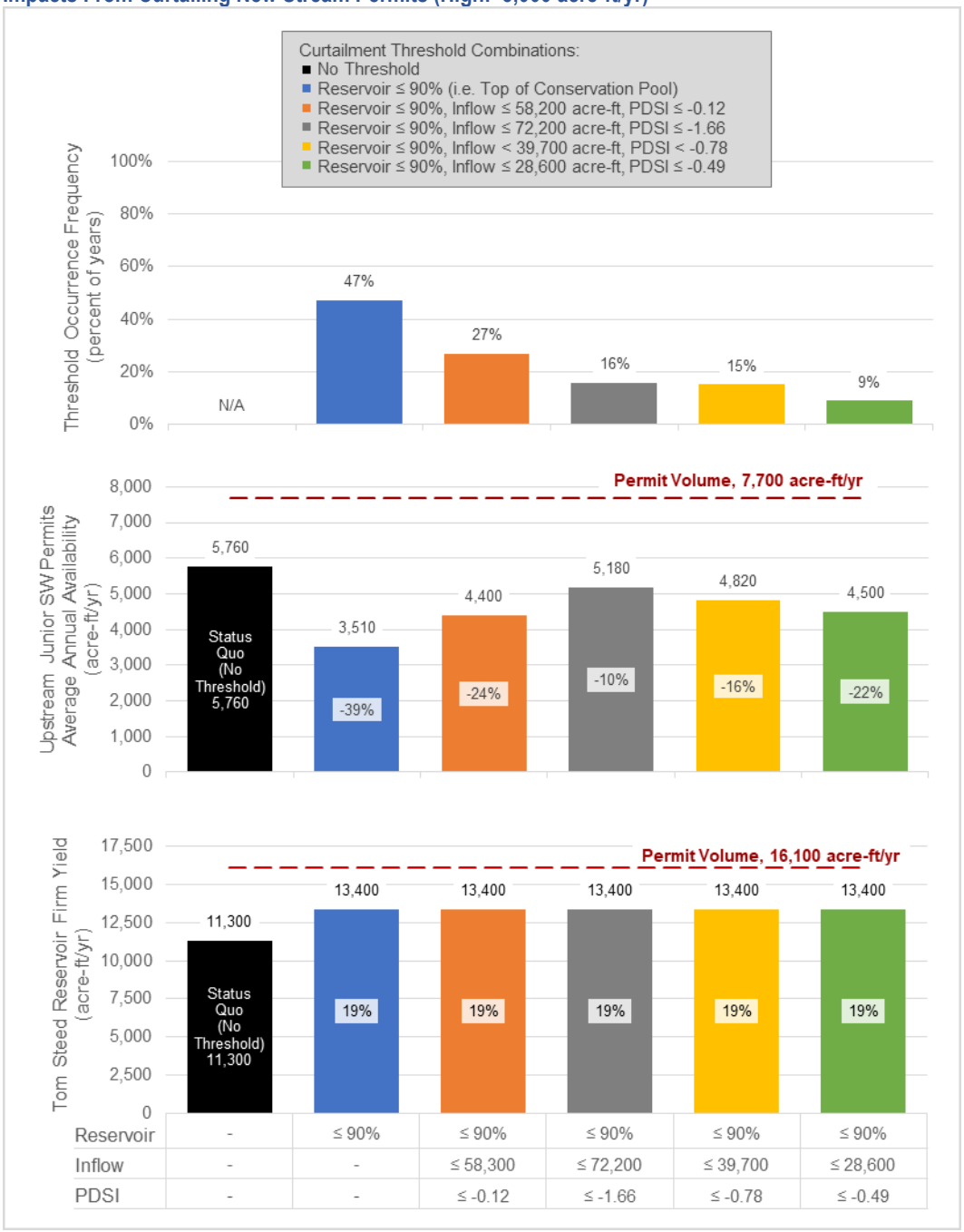

Figure 32. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Existing and/or New Groundwater Permits and Existing Domestic Use Conditions

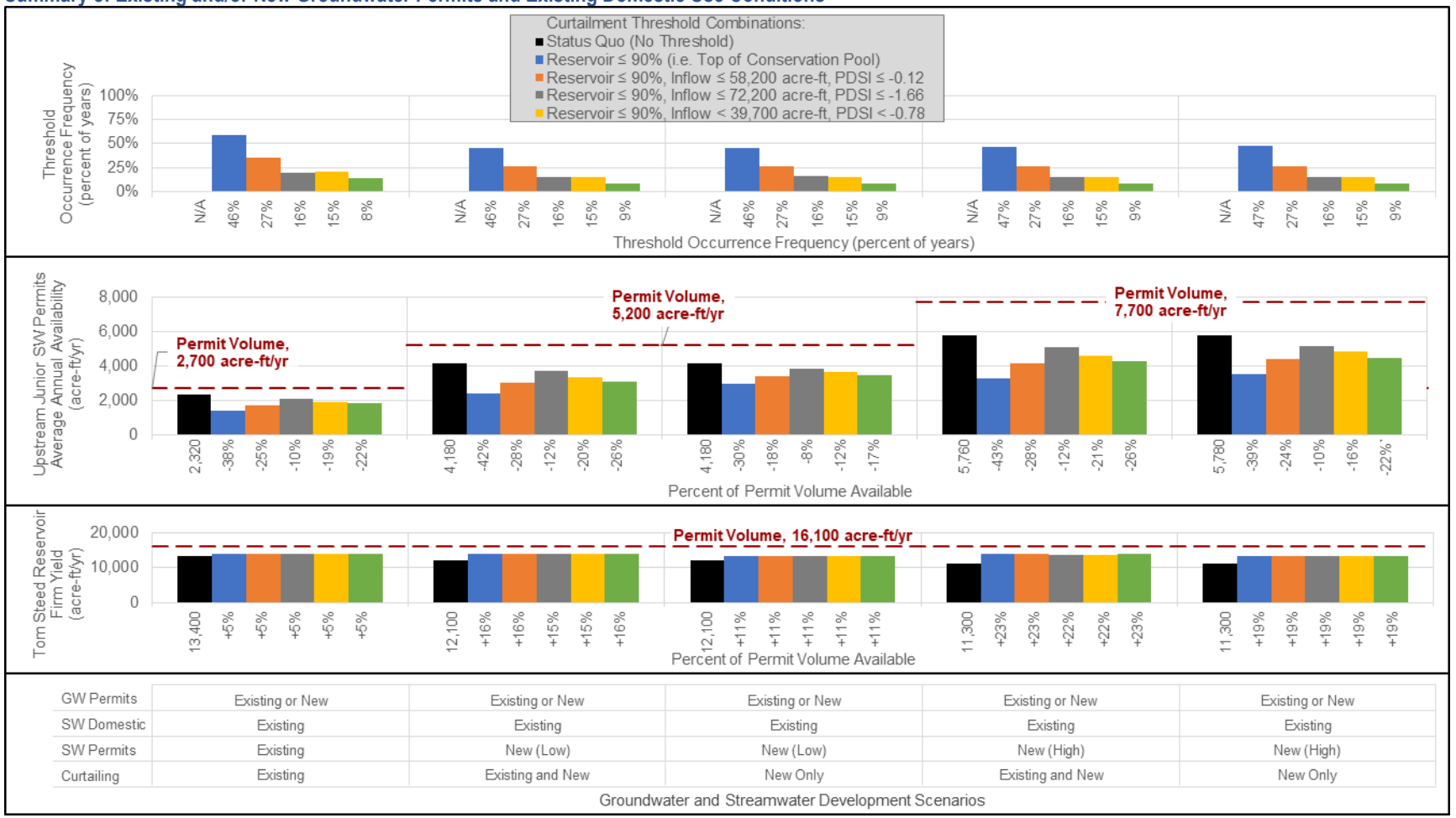

Figure 33. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

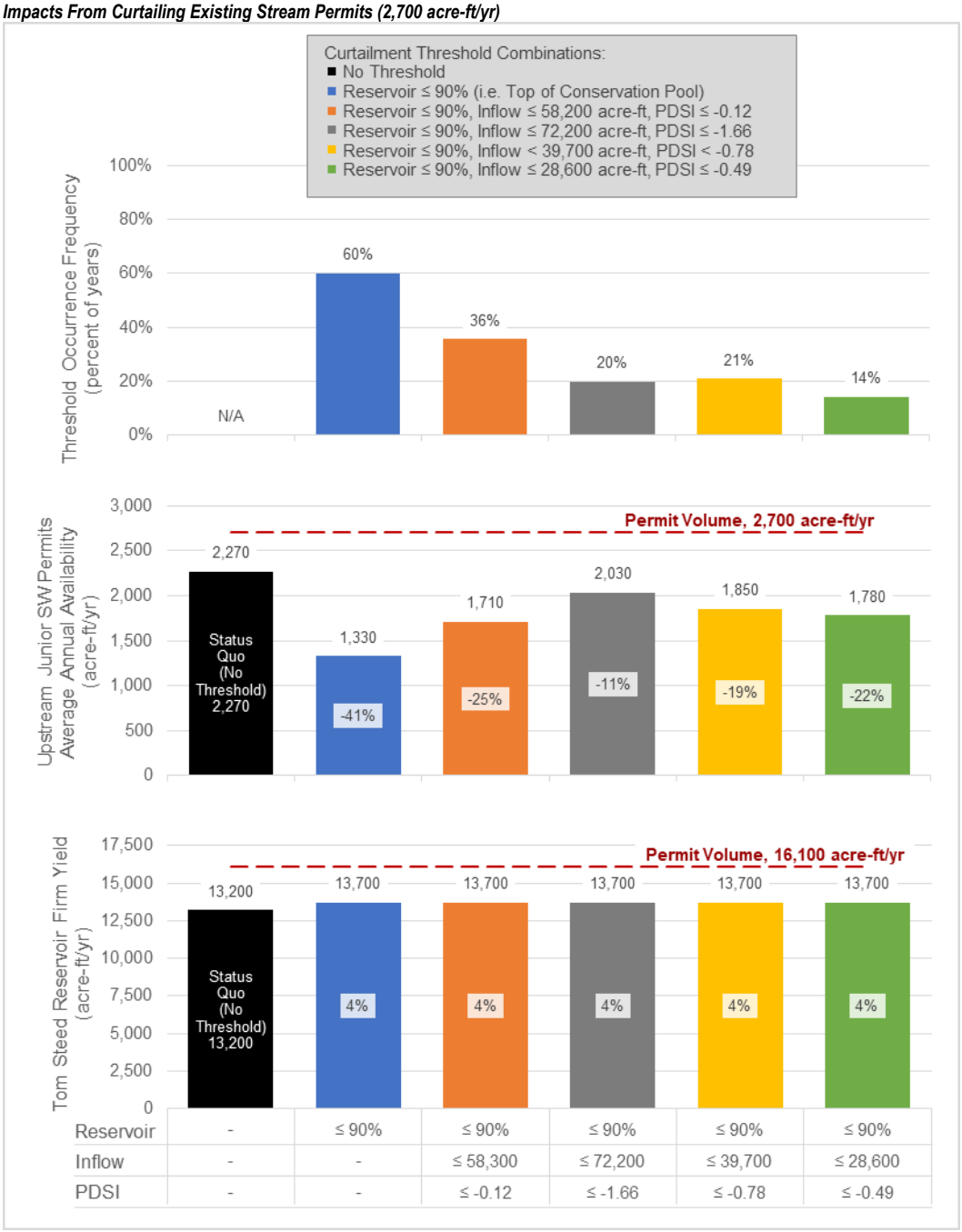

Figure 34. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

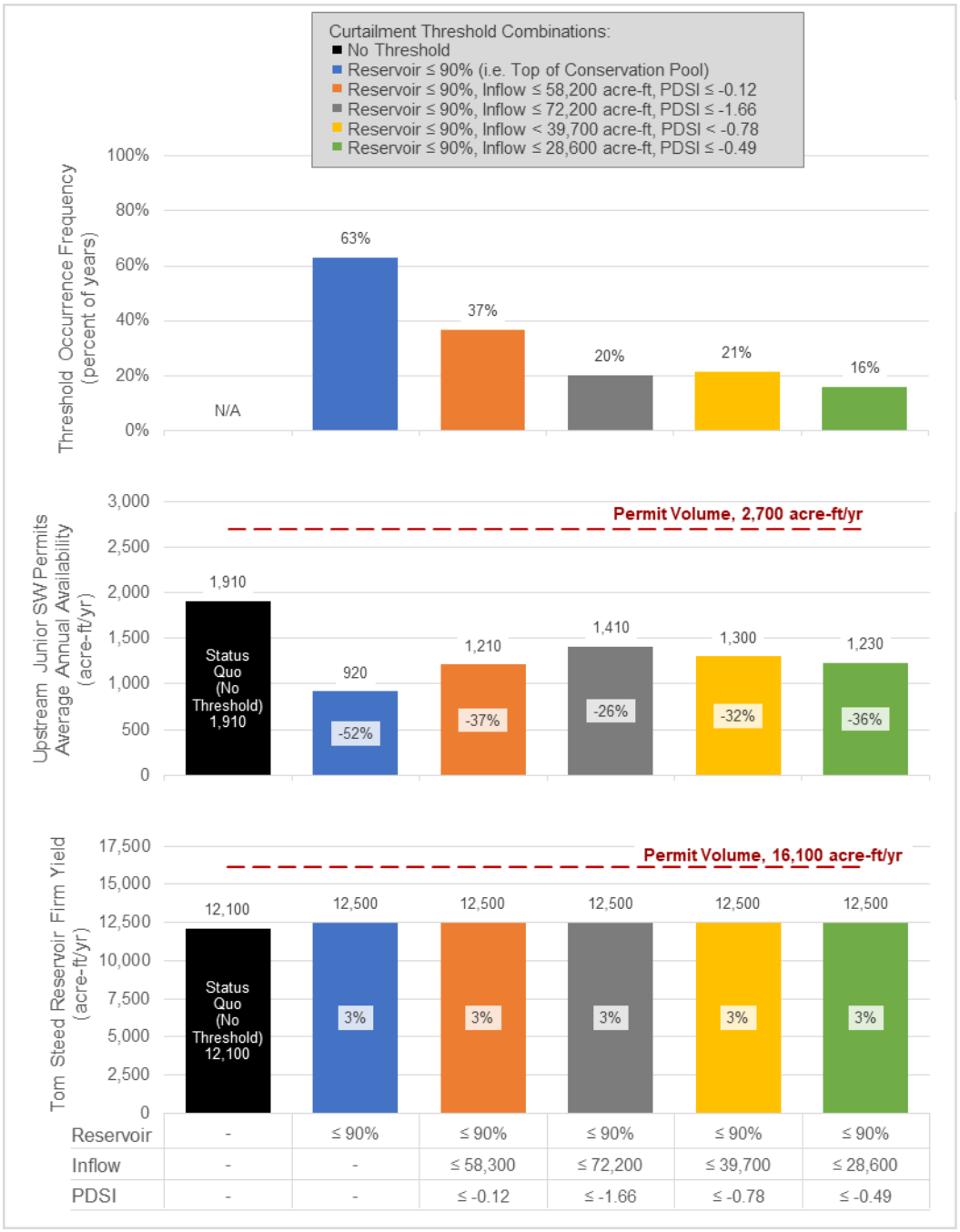

Figure 35. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

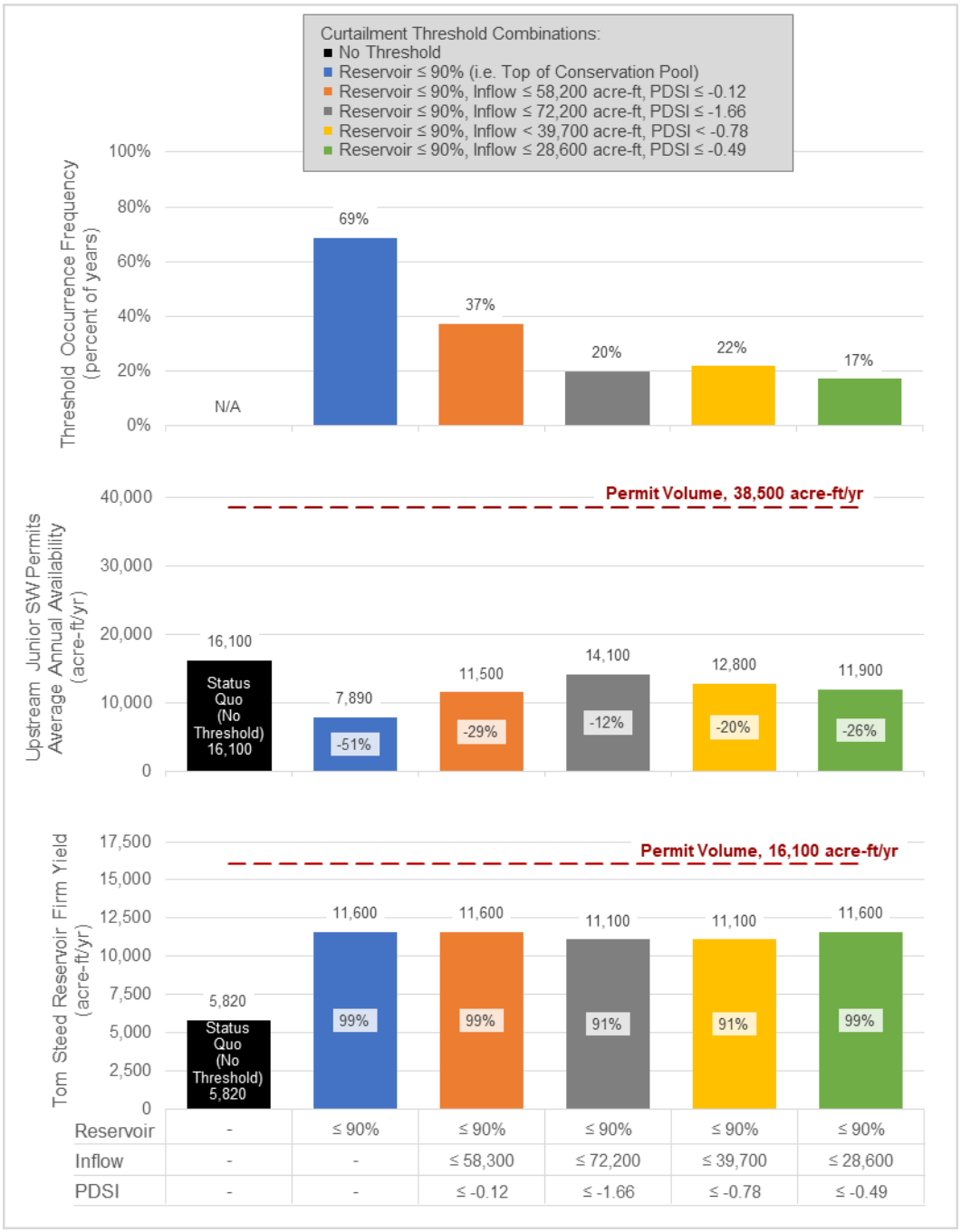

Figure 36. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

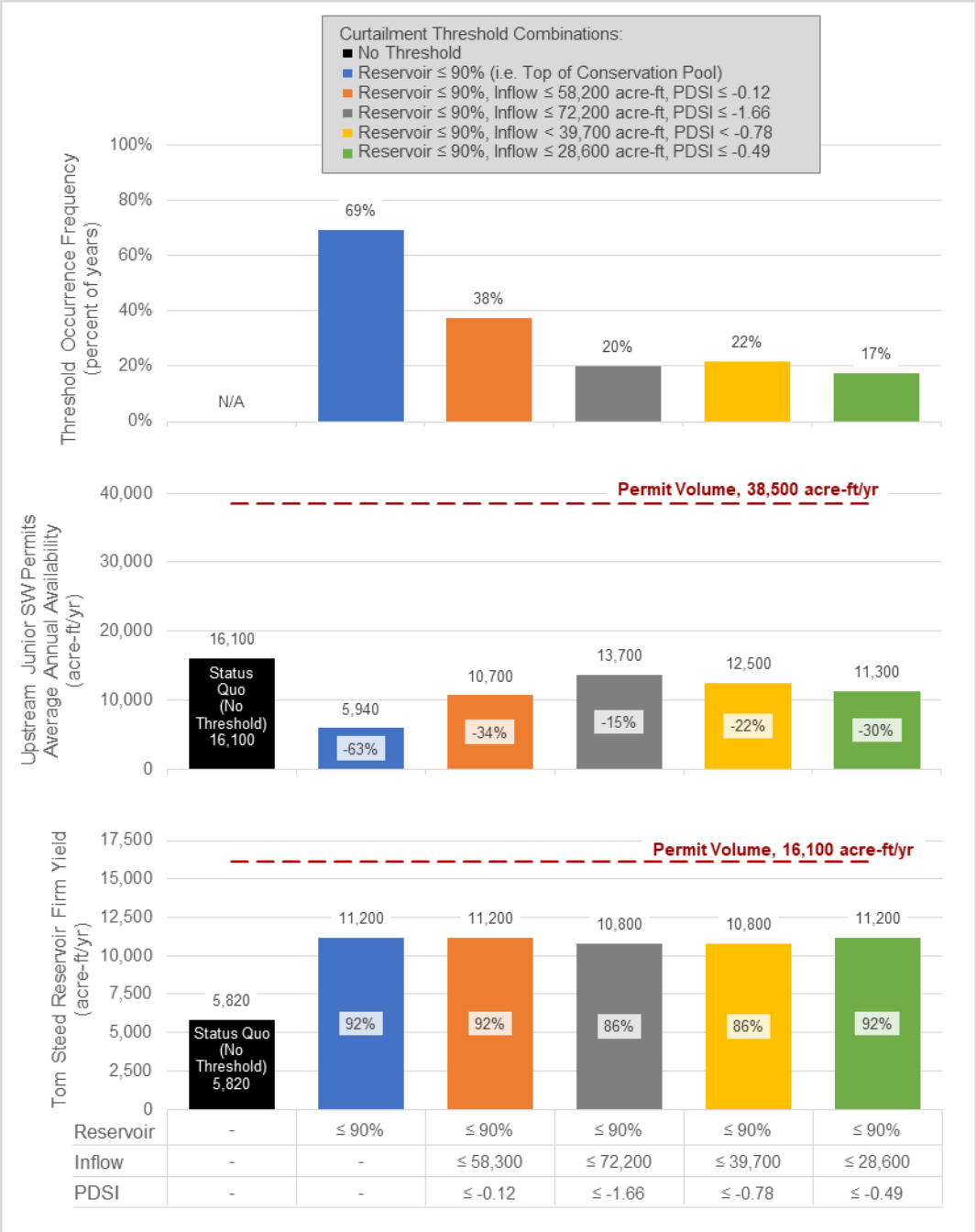

Figure 37. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

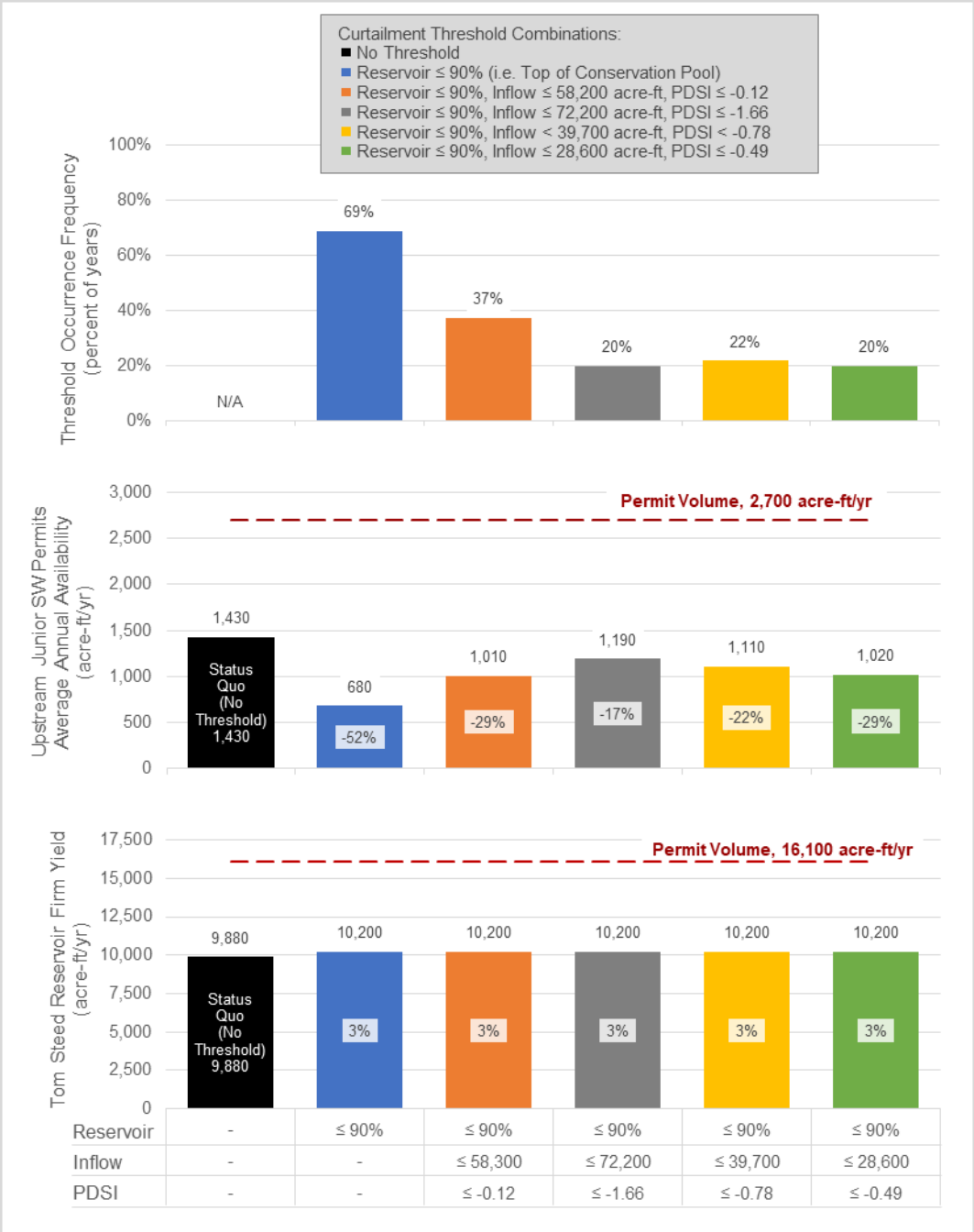

Figure 38. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 33,500 acre-ft/yr)

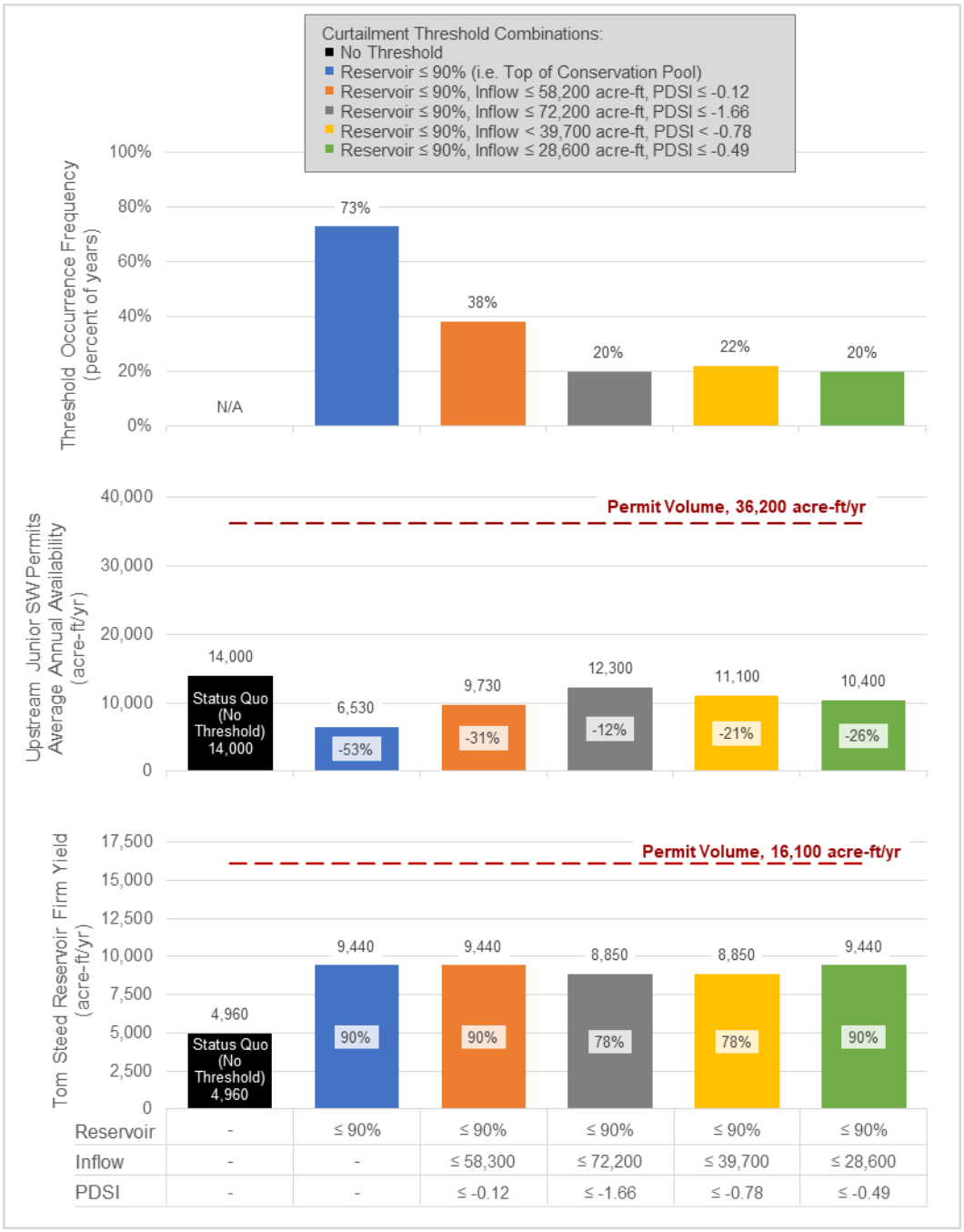

Figure 39. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

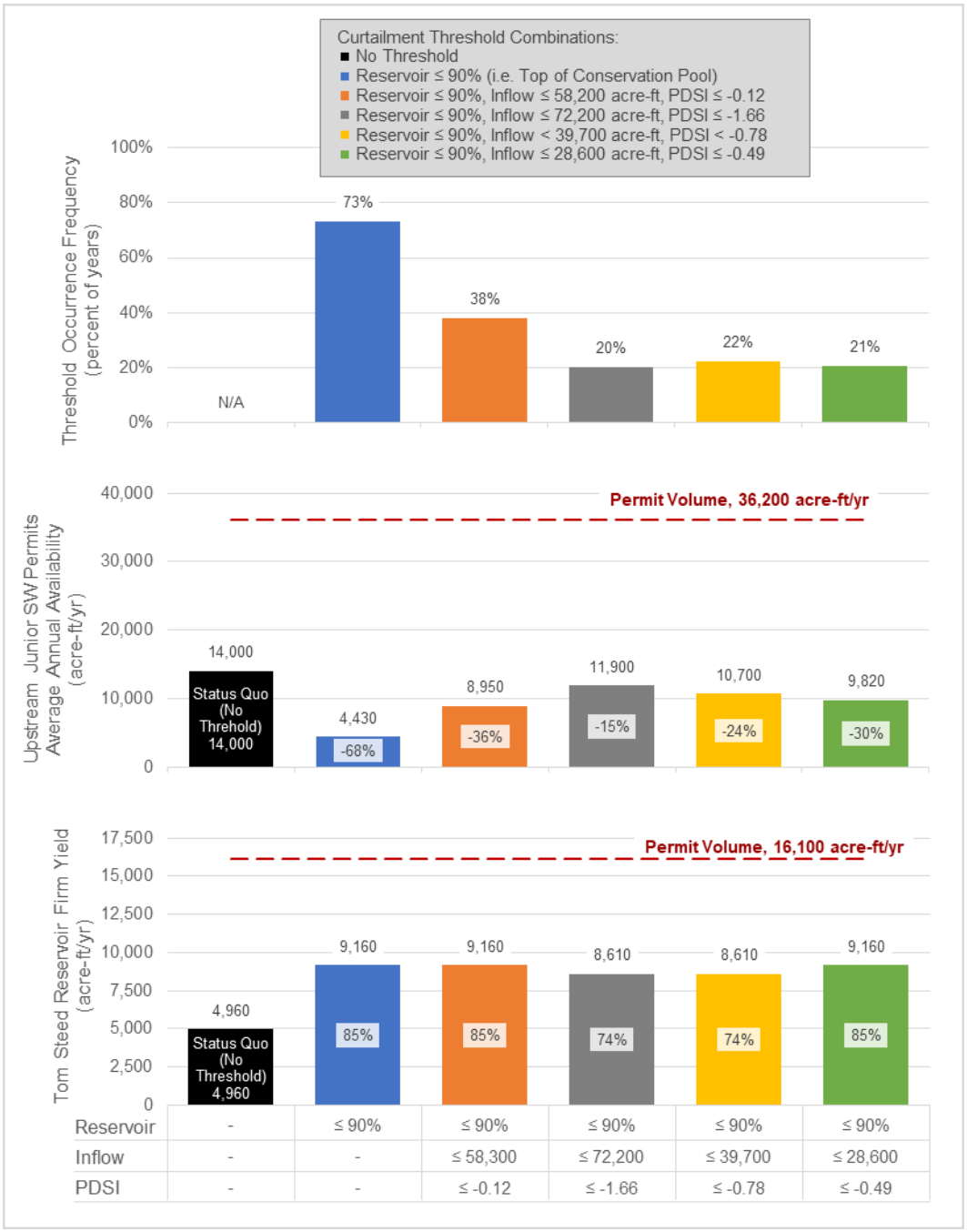

Figure 40. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Figure 41. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of All Results

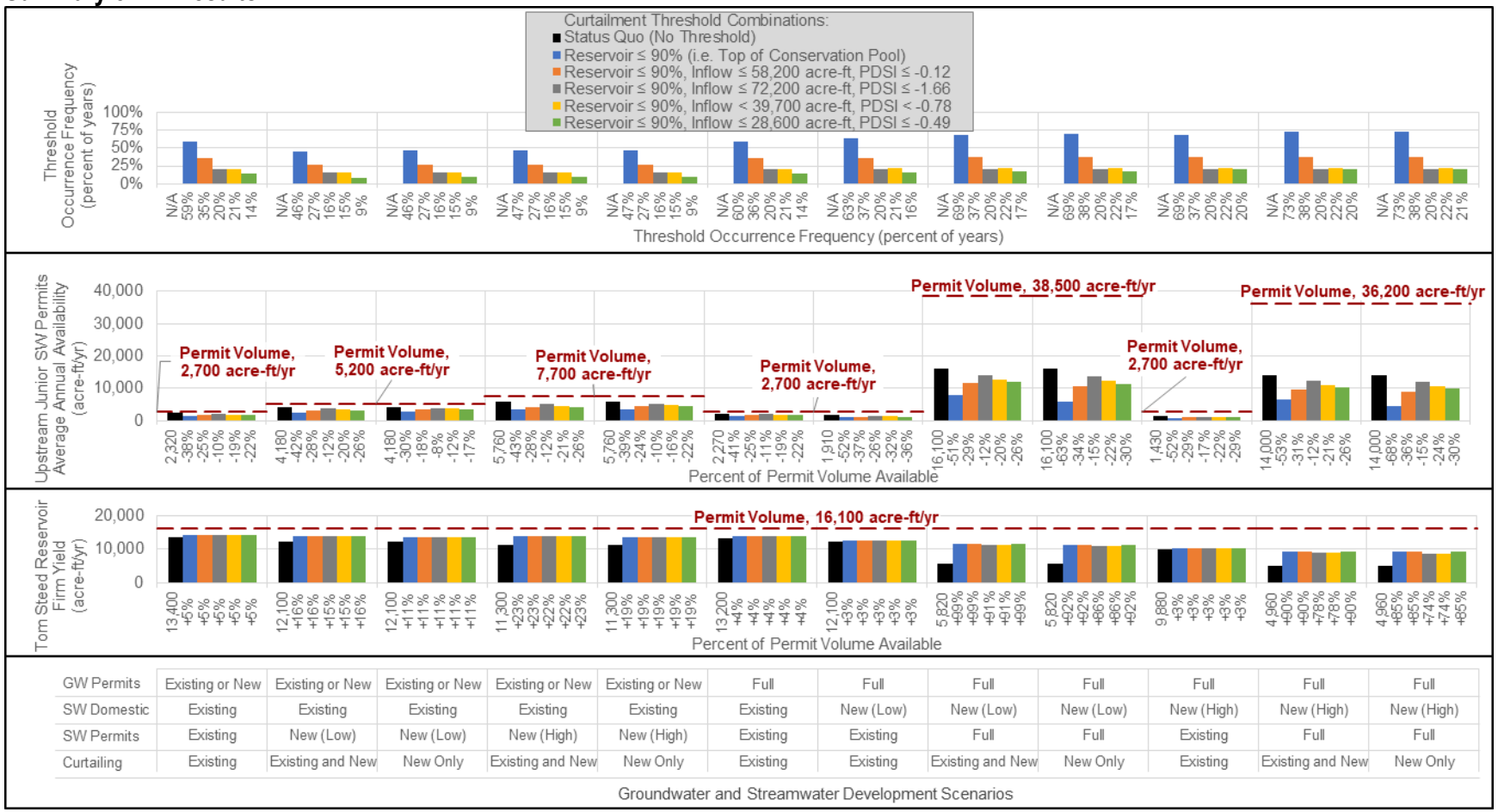

Figure 42. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Curtailment Based on Less or Equal to 70 Percent Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

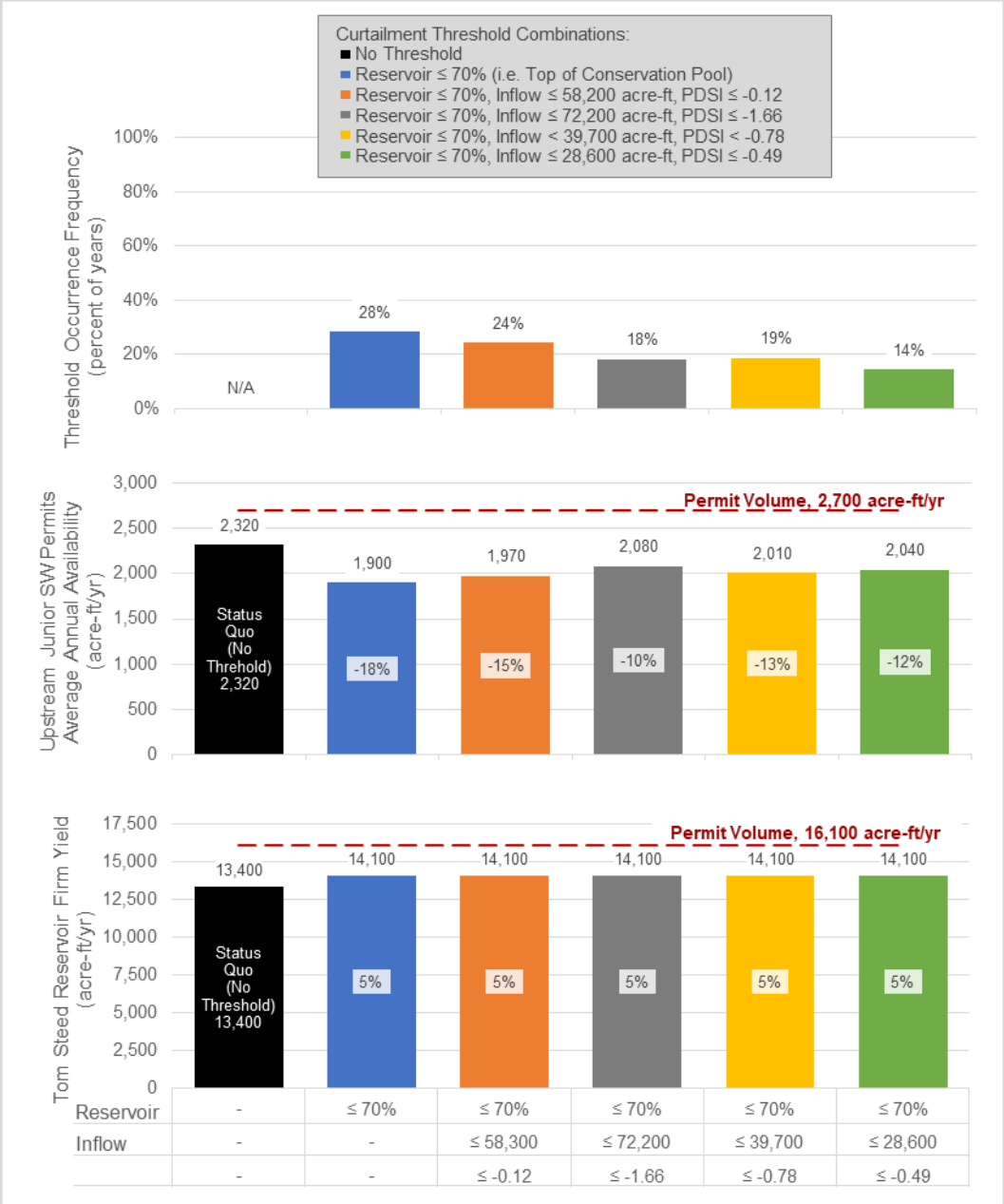

Figure 43. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

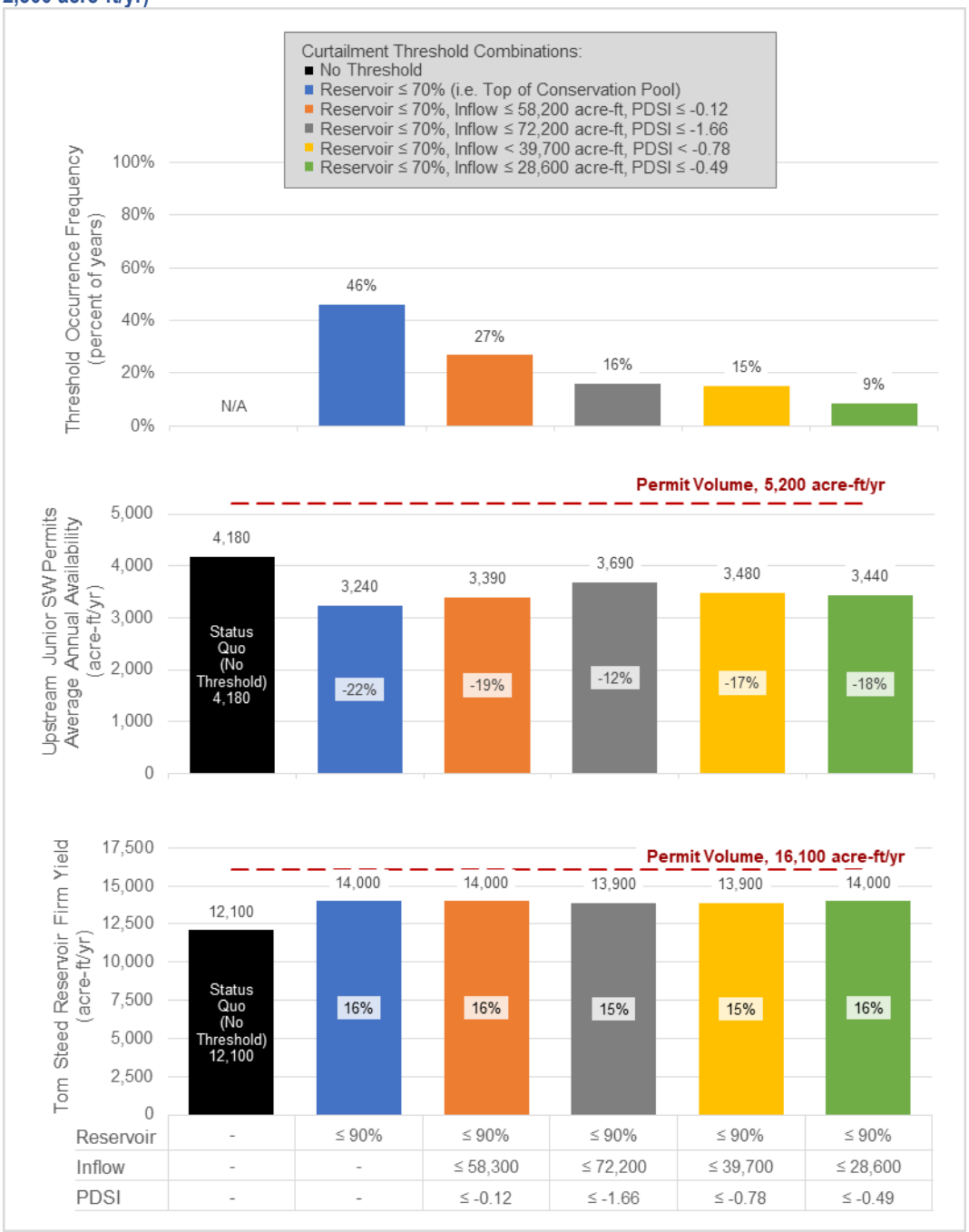

Figure 44. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing 2,500 acre-ft/yr of New Stream Permits

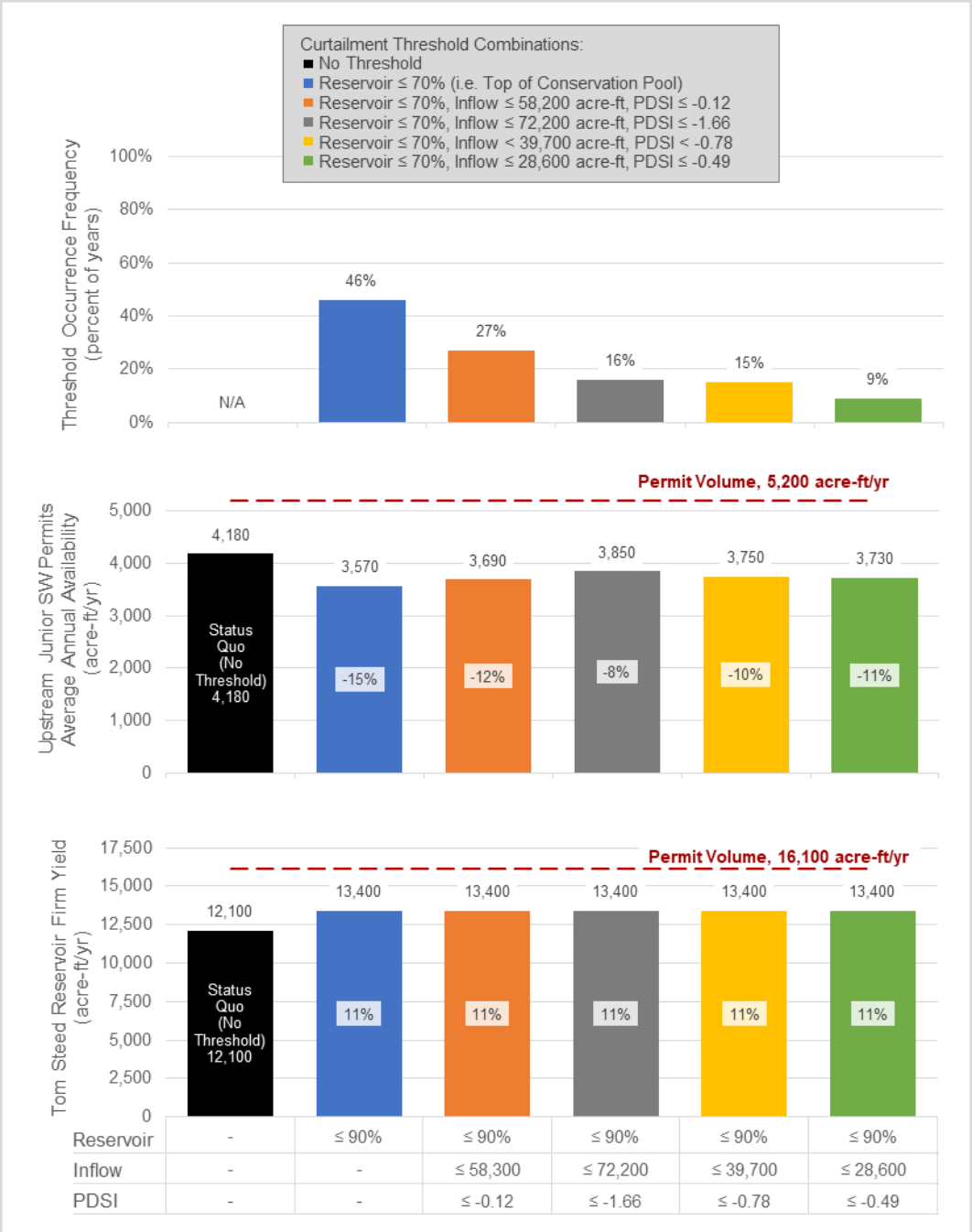

Figure 45. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

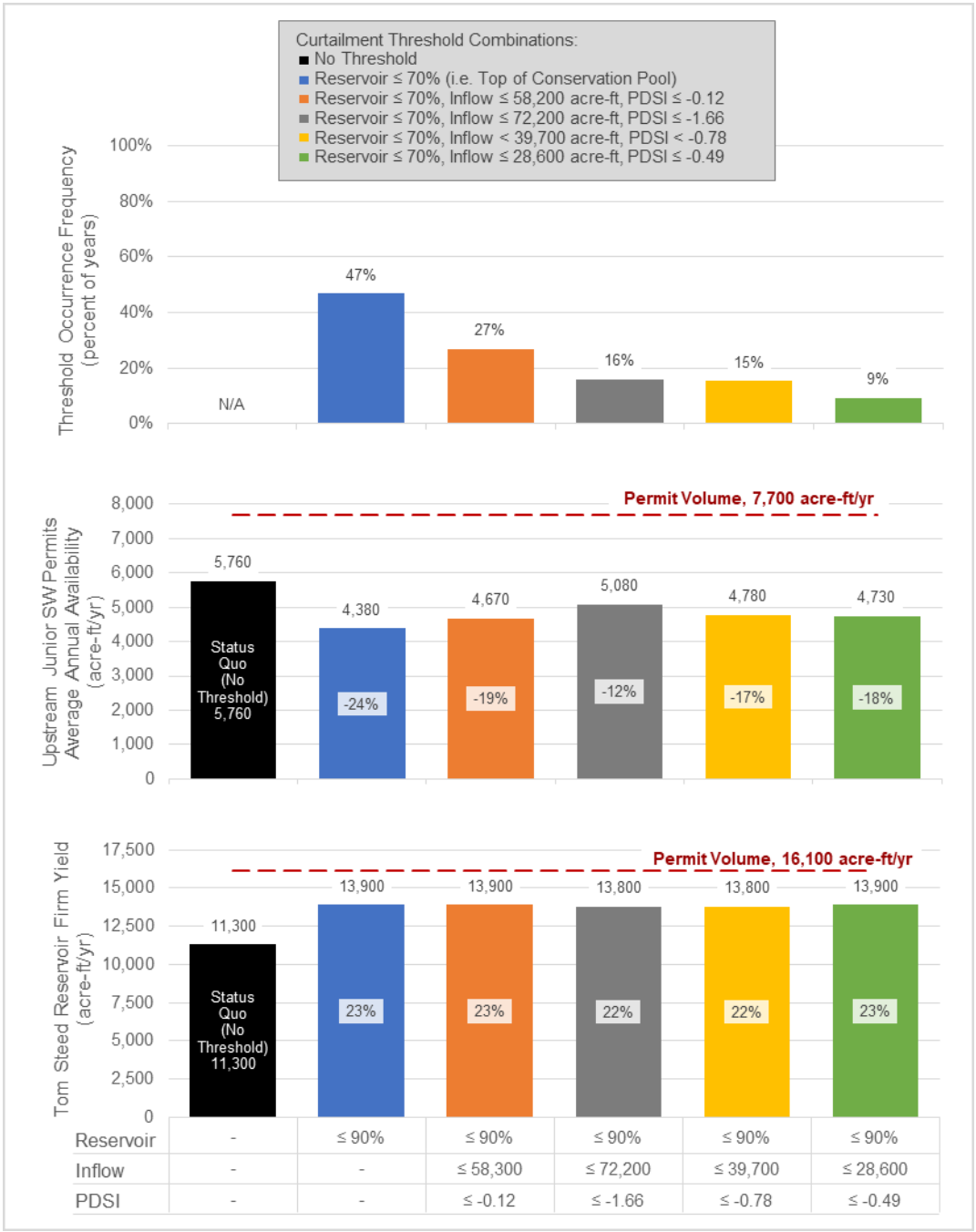

Figure 46. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

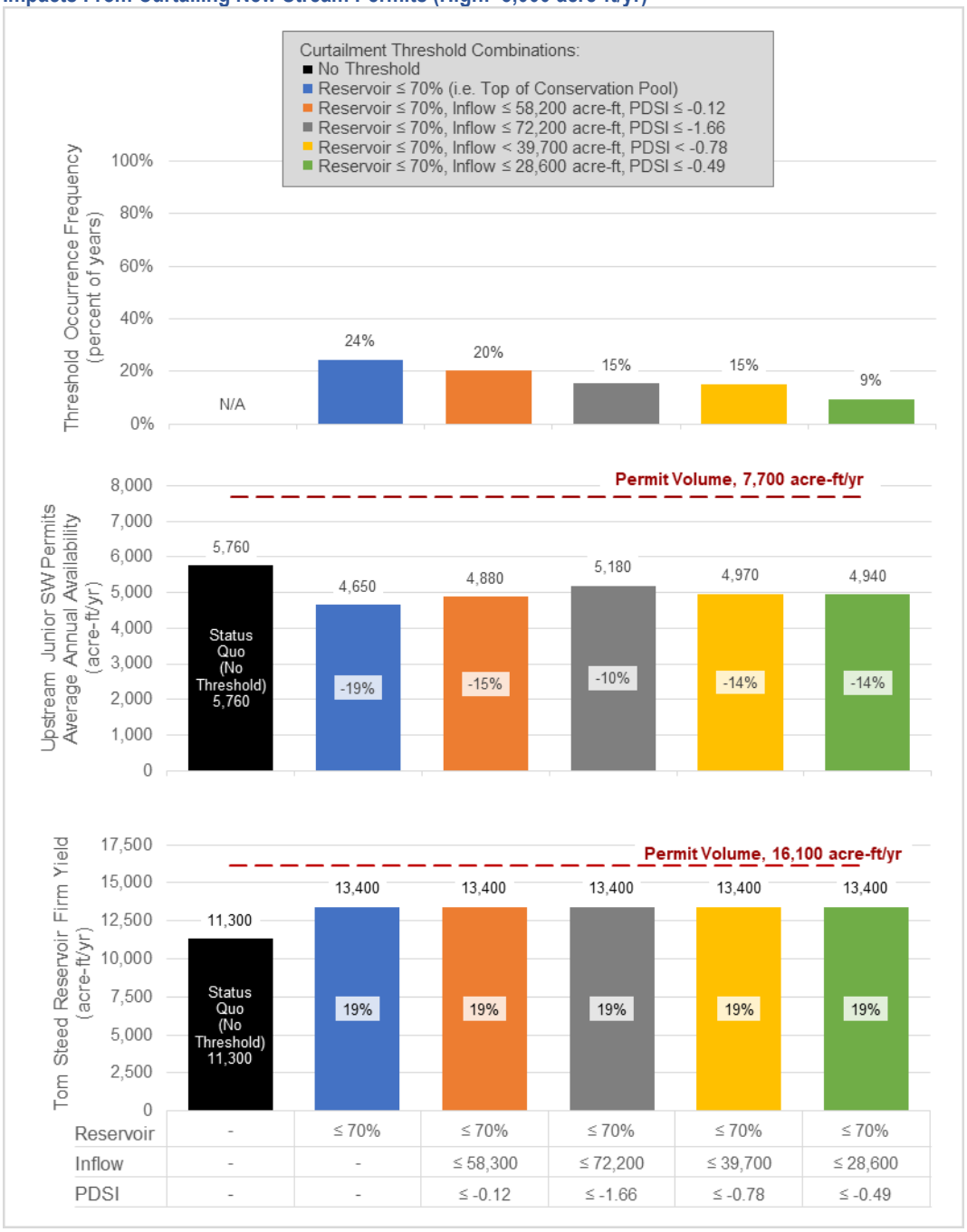

Figure 47. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Existing and/or New Groundwater Permits and Existing Domestic Use Conditions

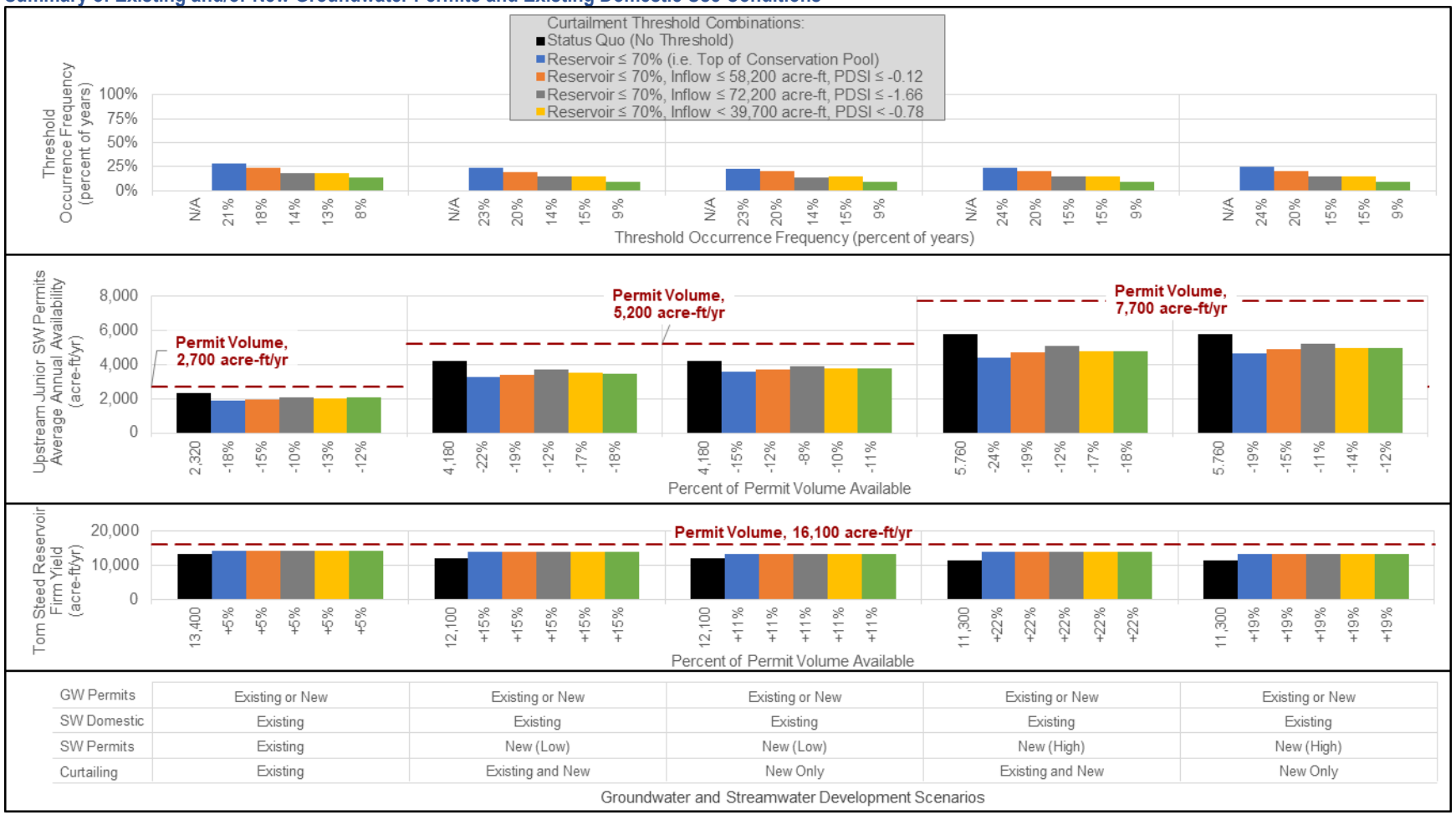

Figure 48. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

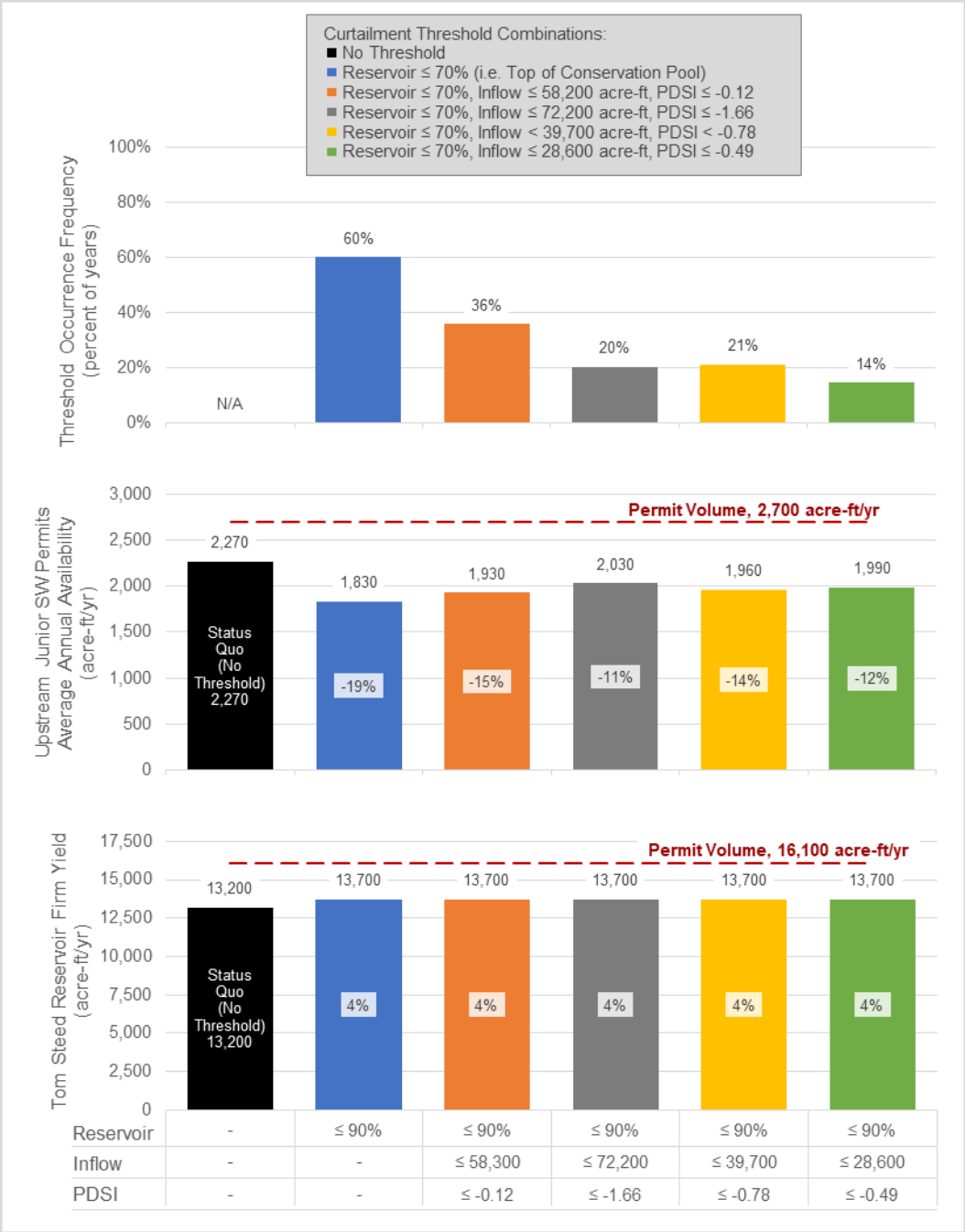

Figure 49. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

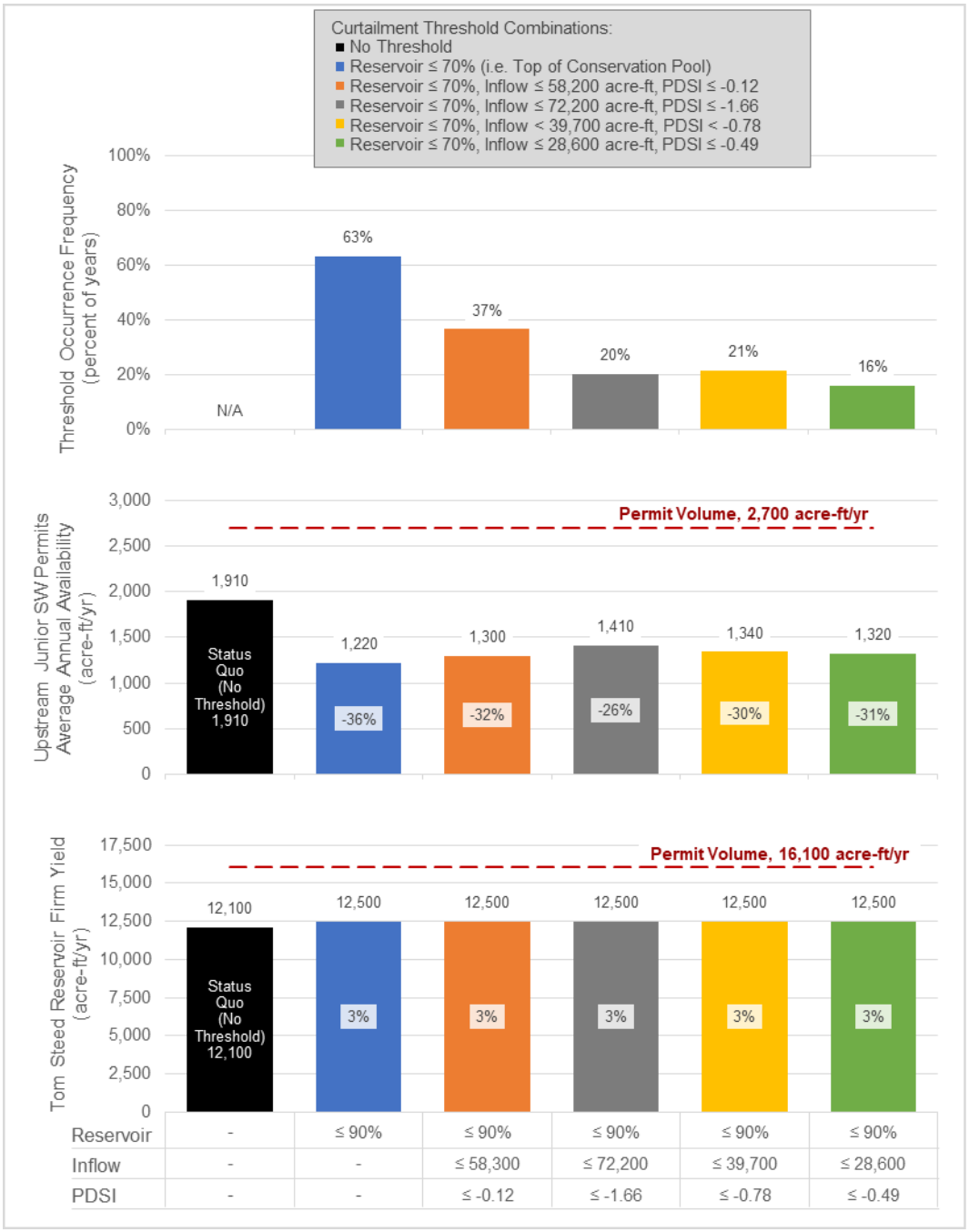

Figure 50. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

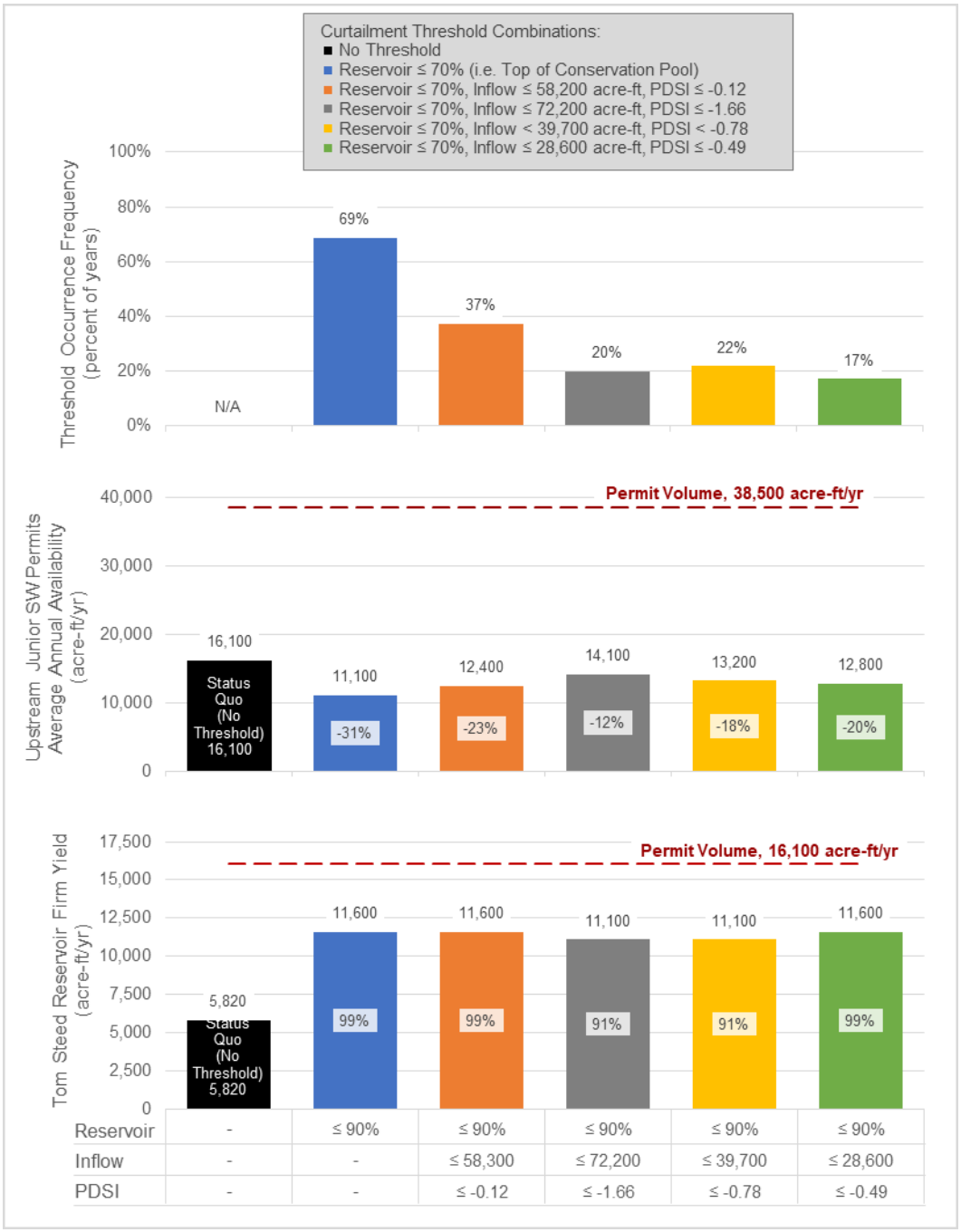

Figure 51. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

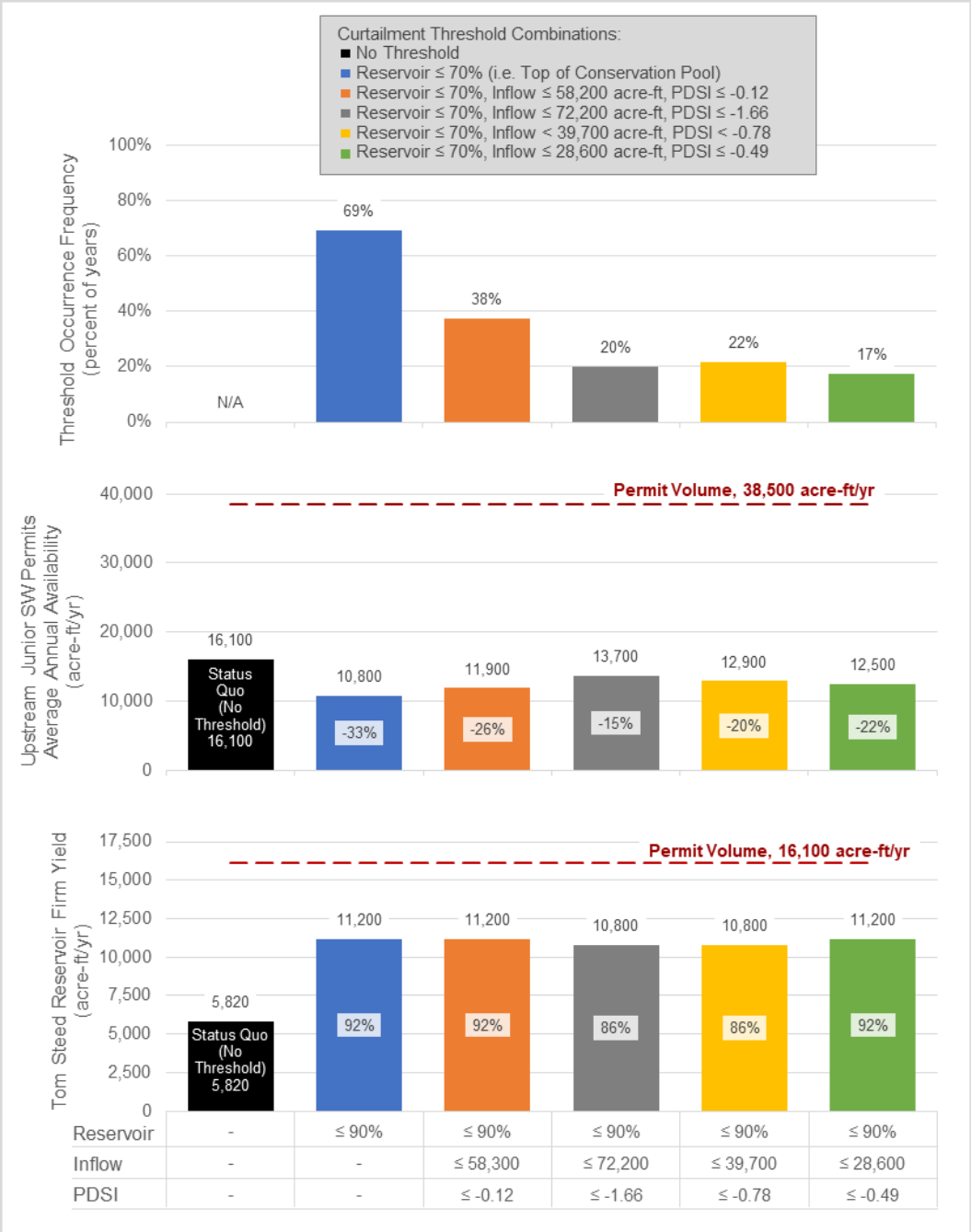

Figure 52. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

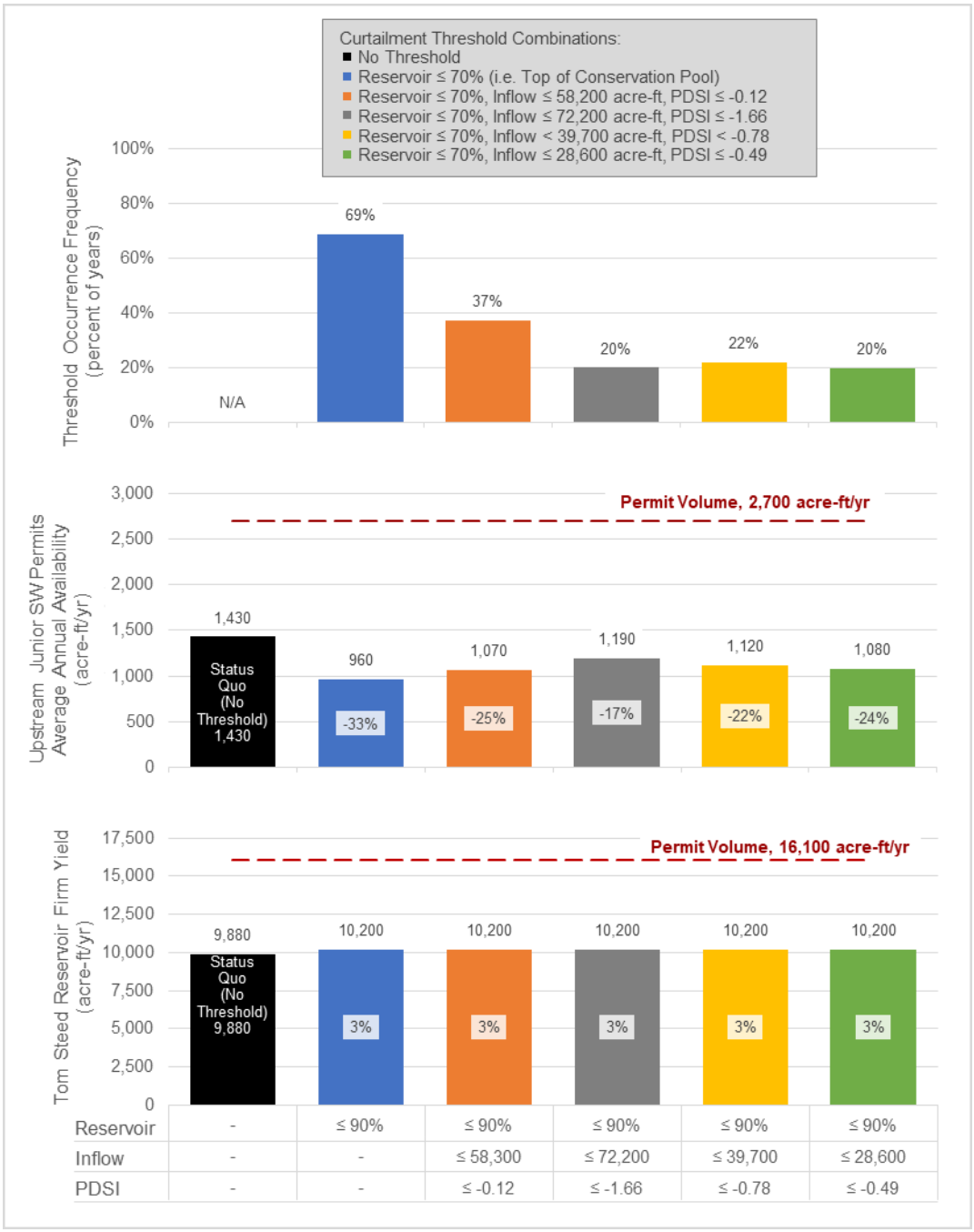

Figure 53. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

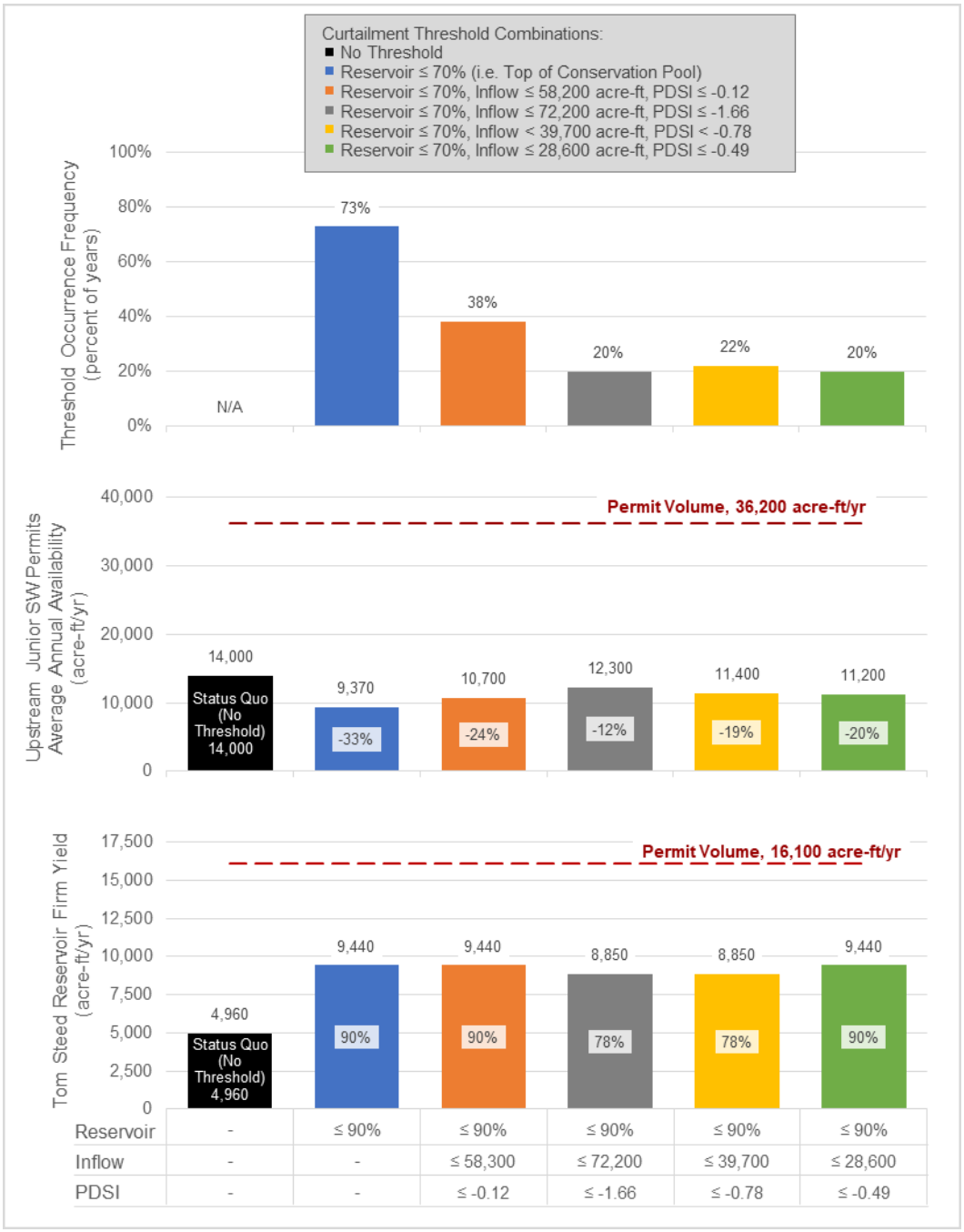

Figure 54. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

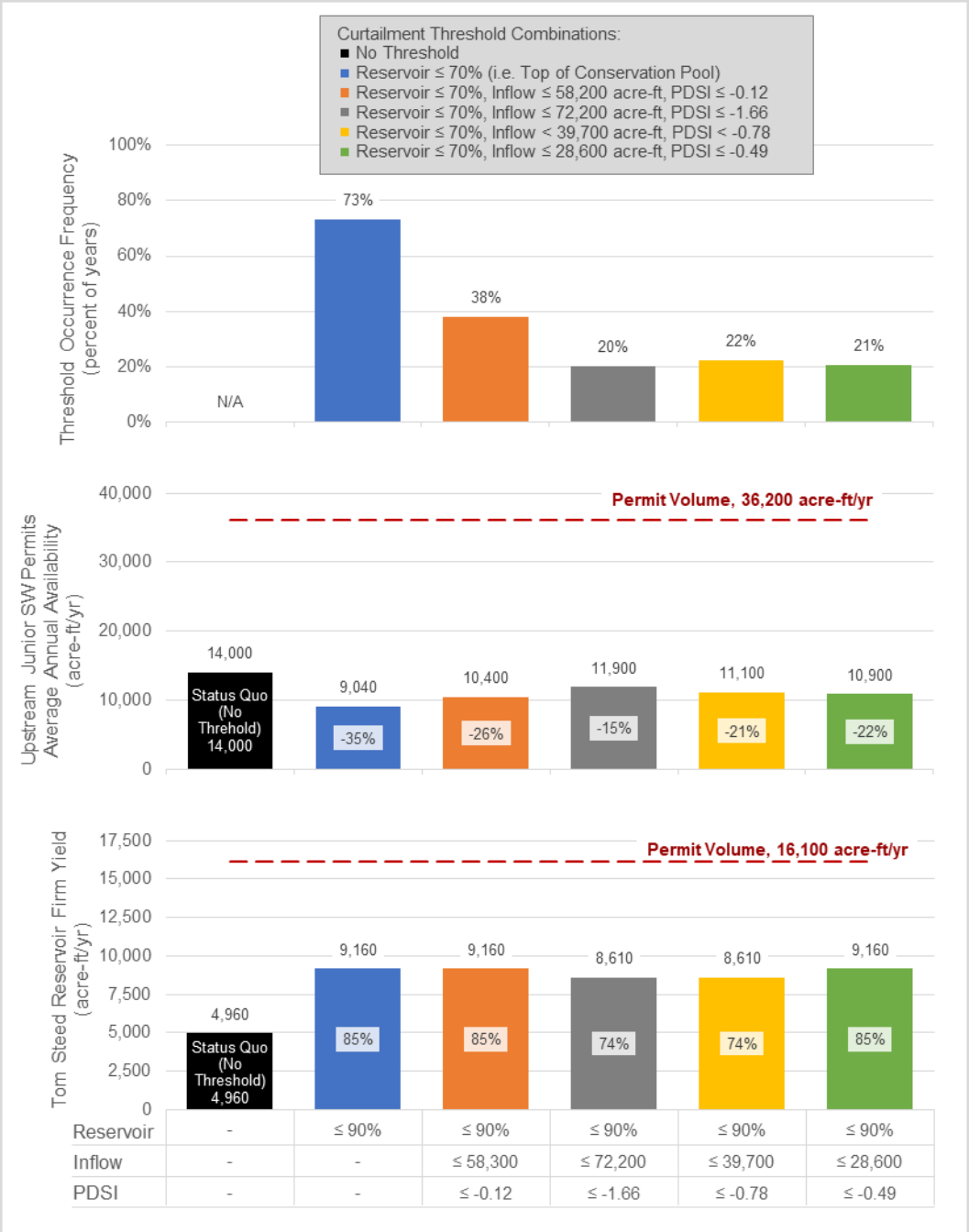

Figure 55. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Full Groundwater Permit Use Under a Range of Domestic Use Conditions

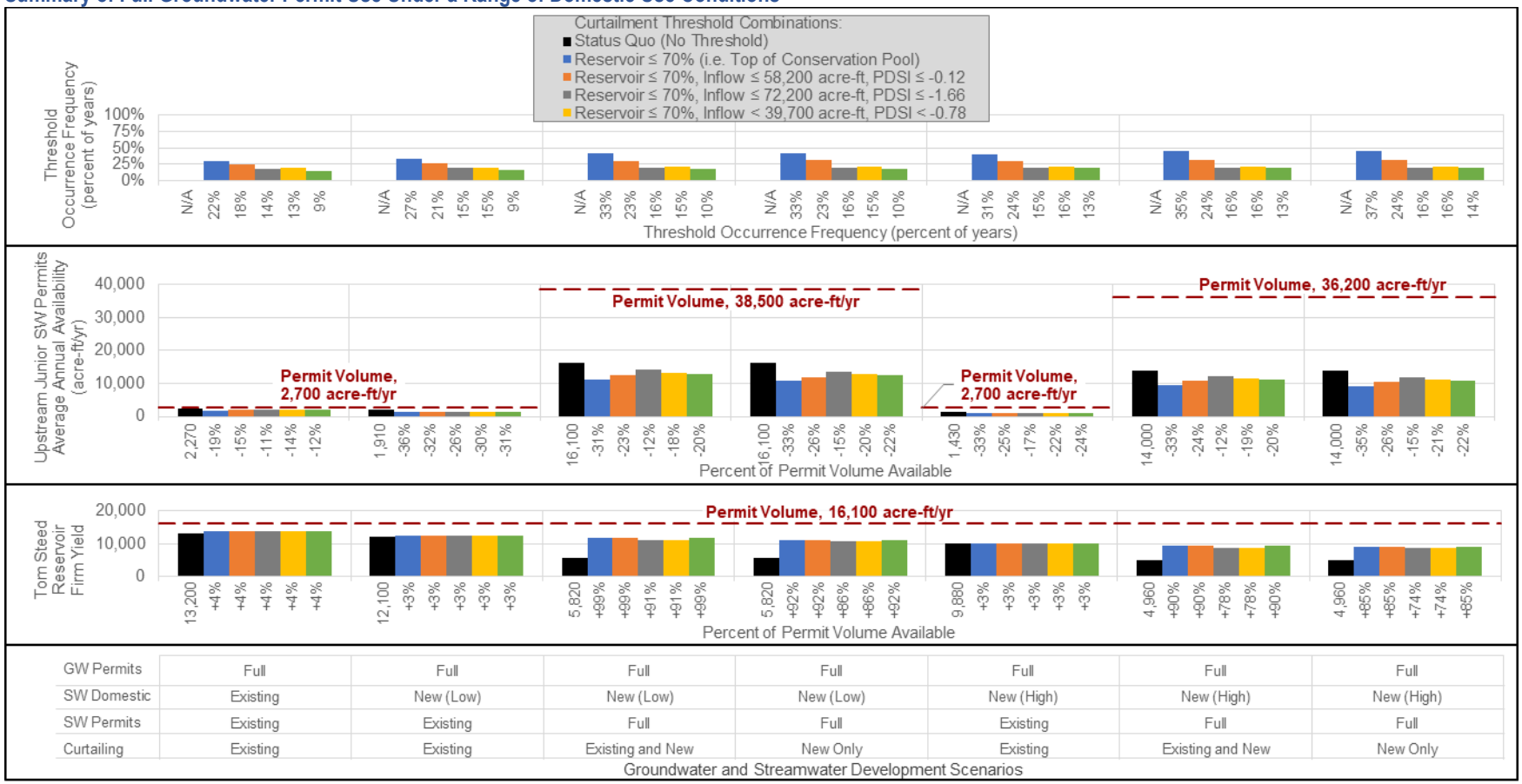

Figure 56. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of All Results

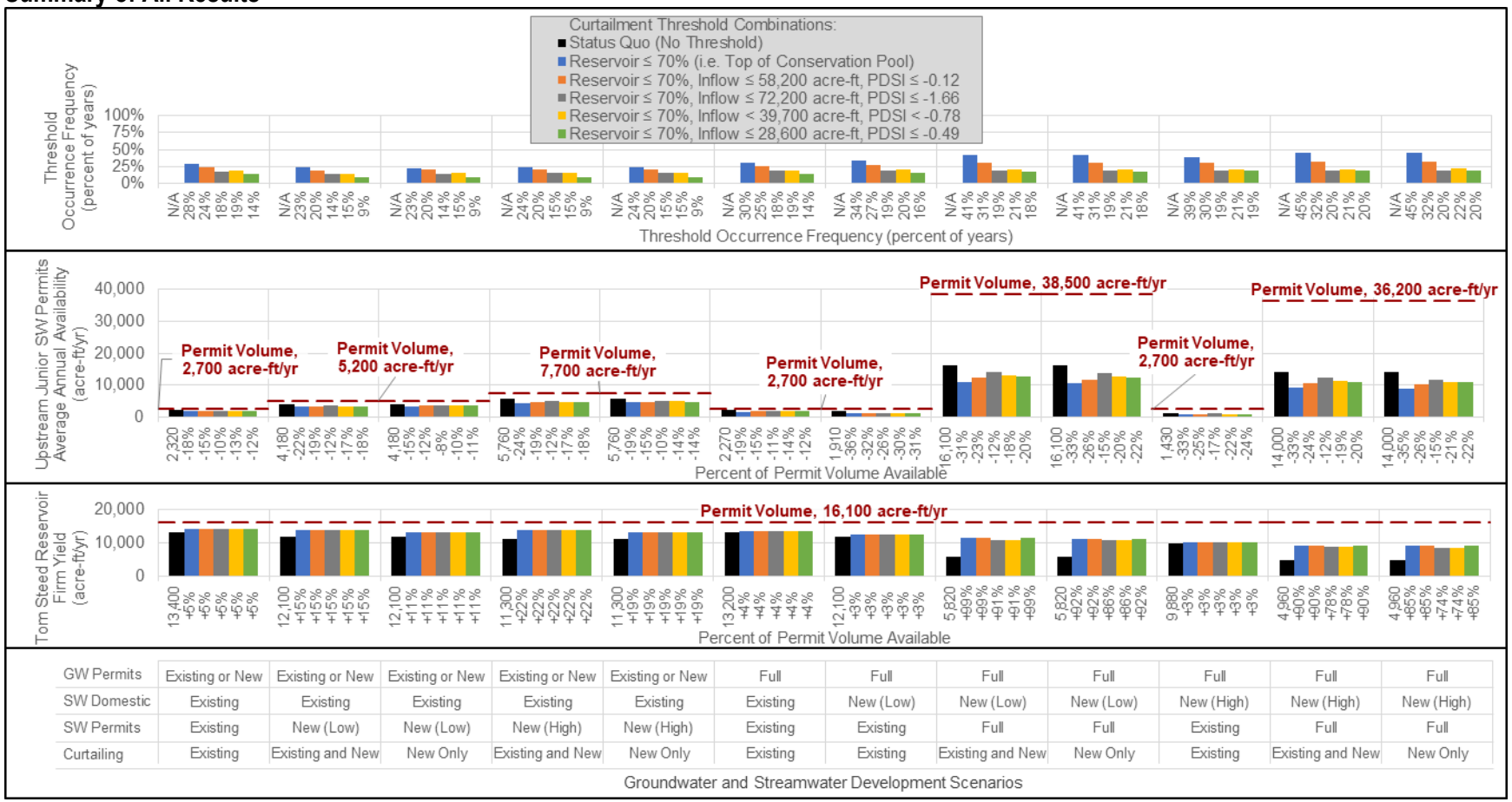

Figure 57. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Curtailment Based on Less or Equal to 50 Percent Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

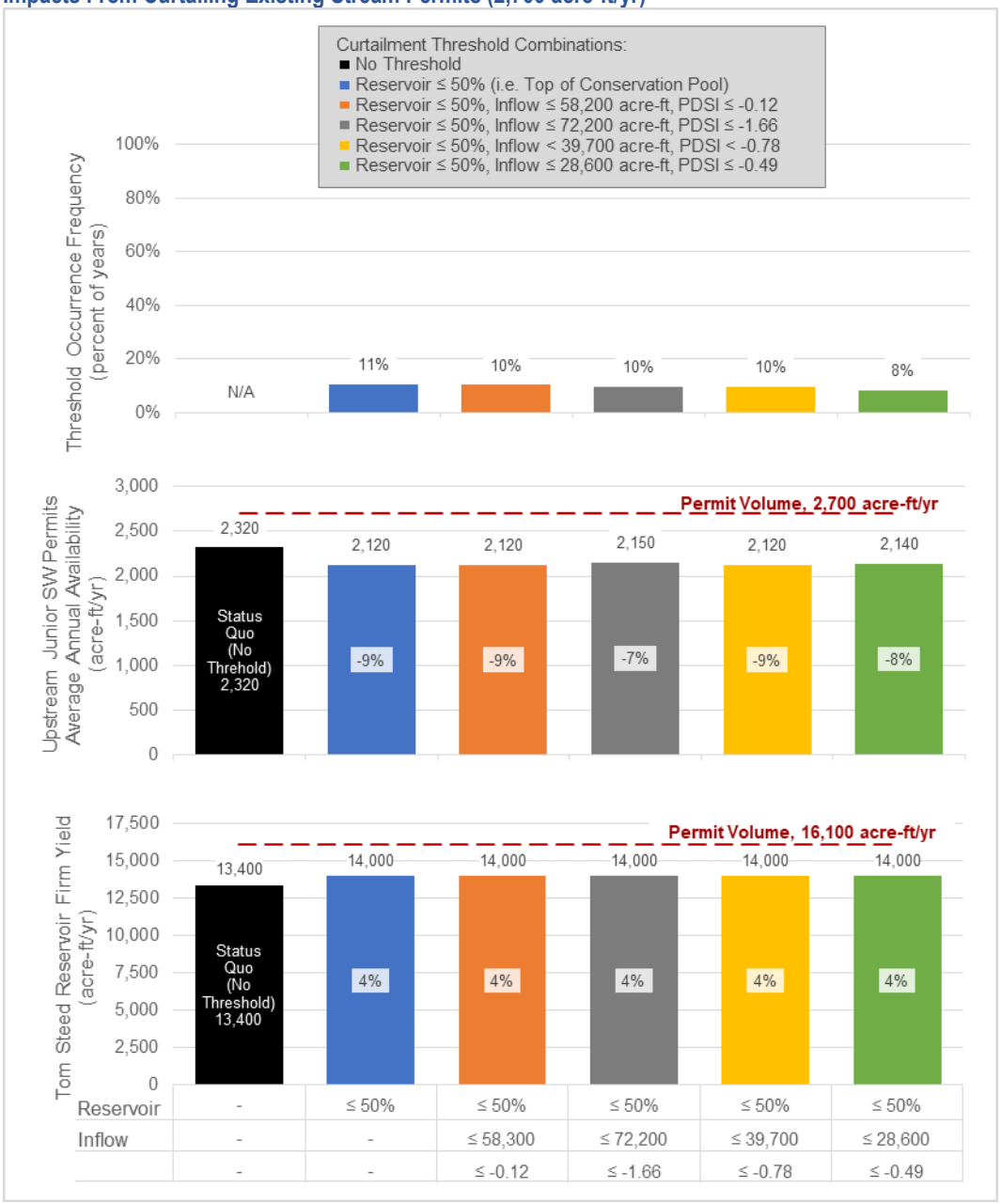

Figure 58. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

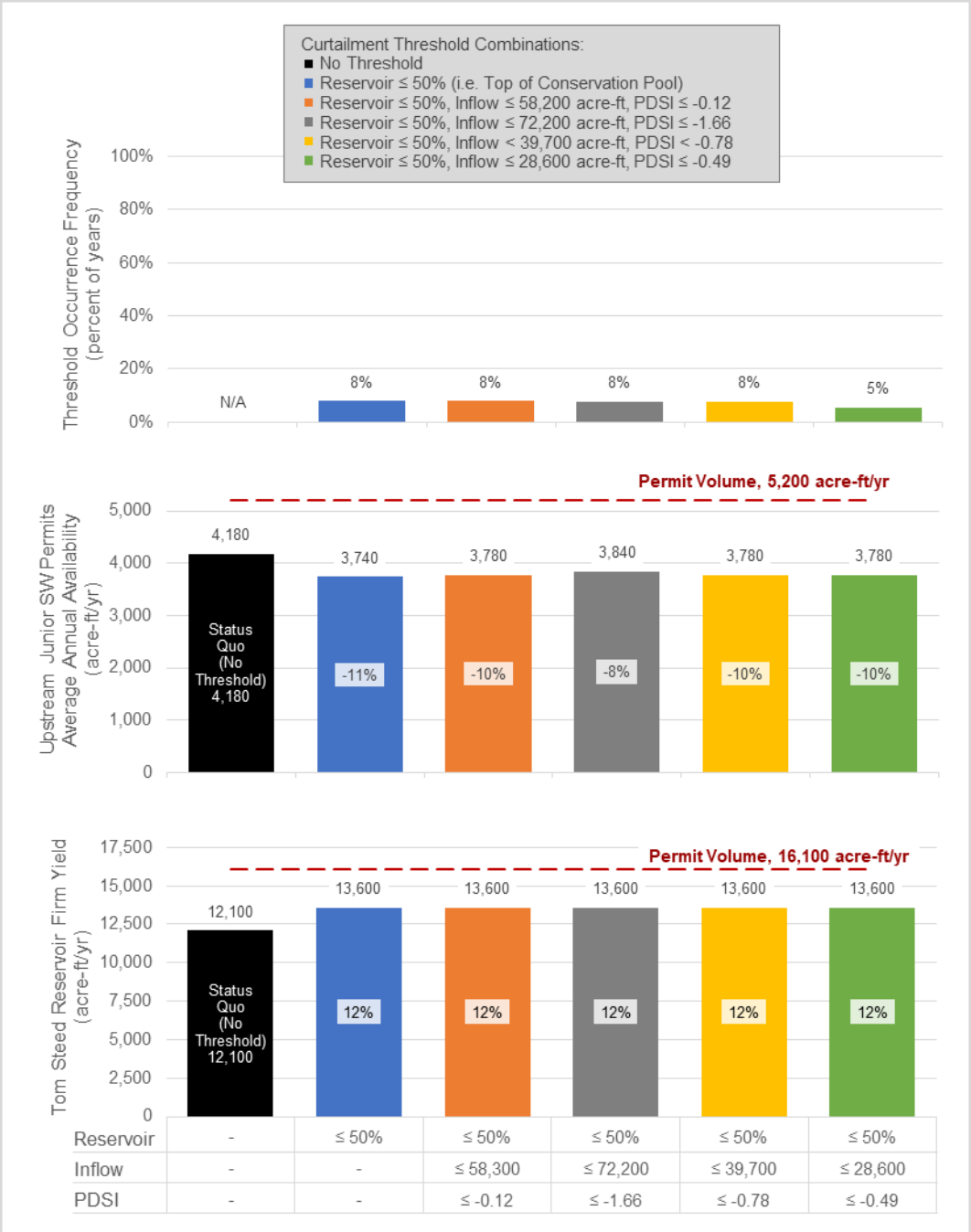

Figure 59. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing 2,500 acre-ft/yr of New Stream Permits

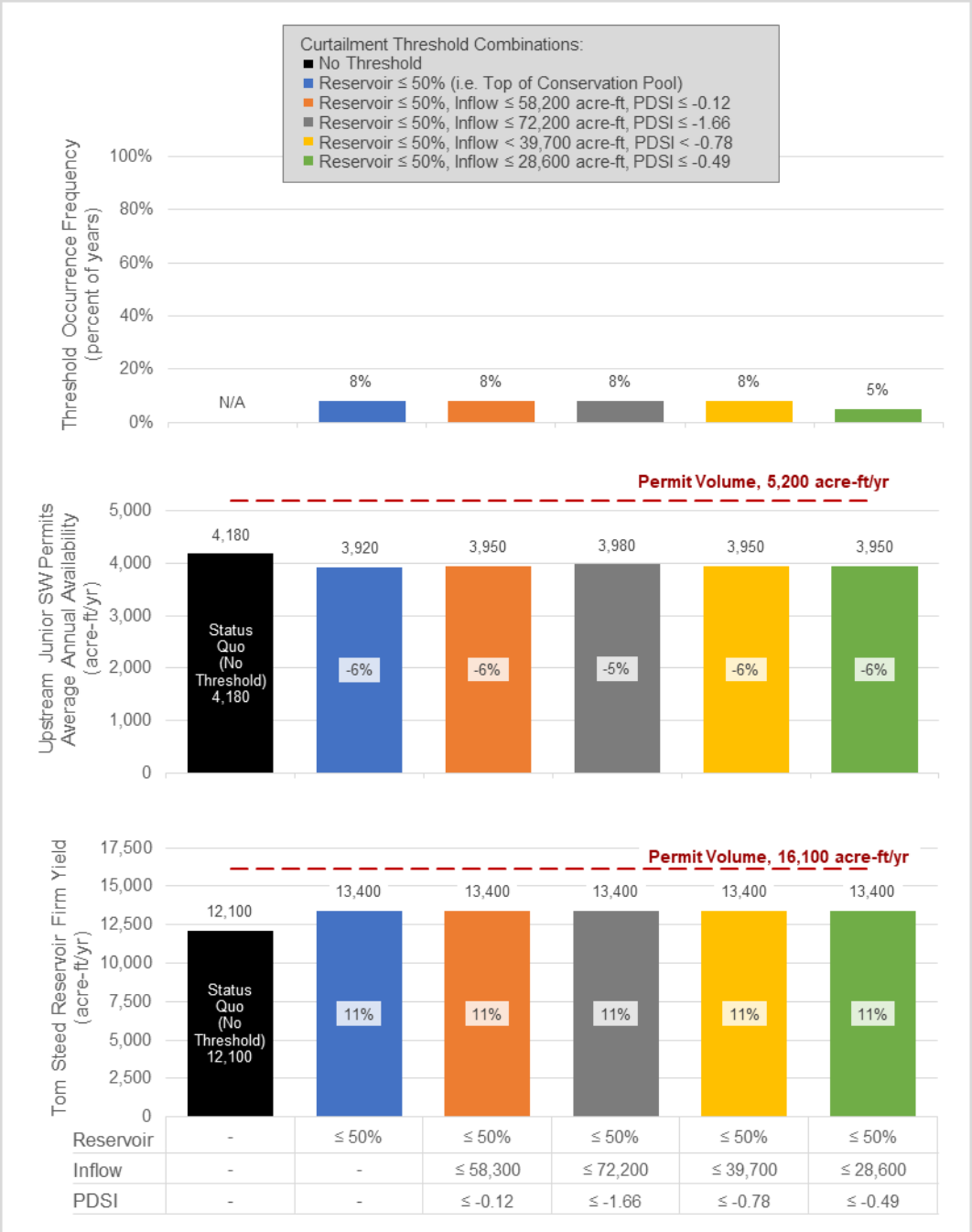

Figure 60. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

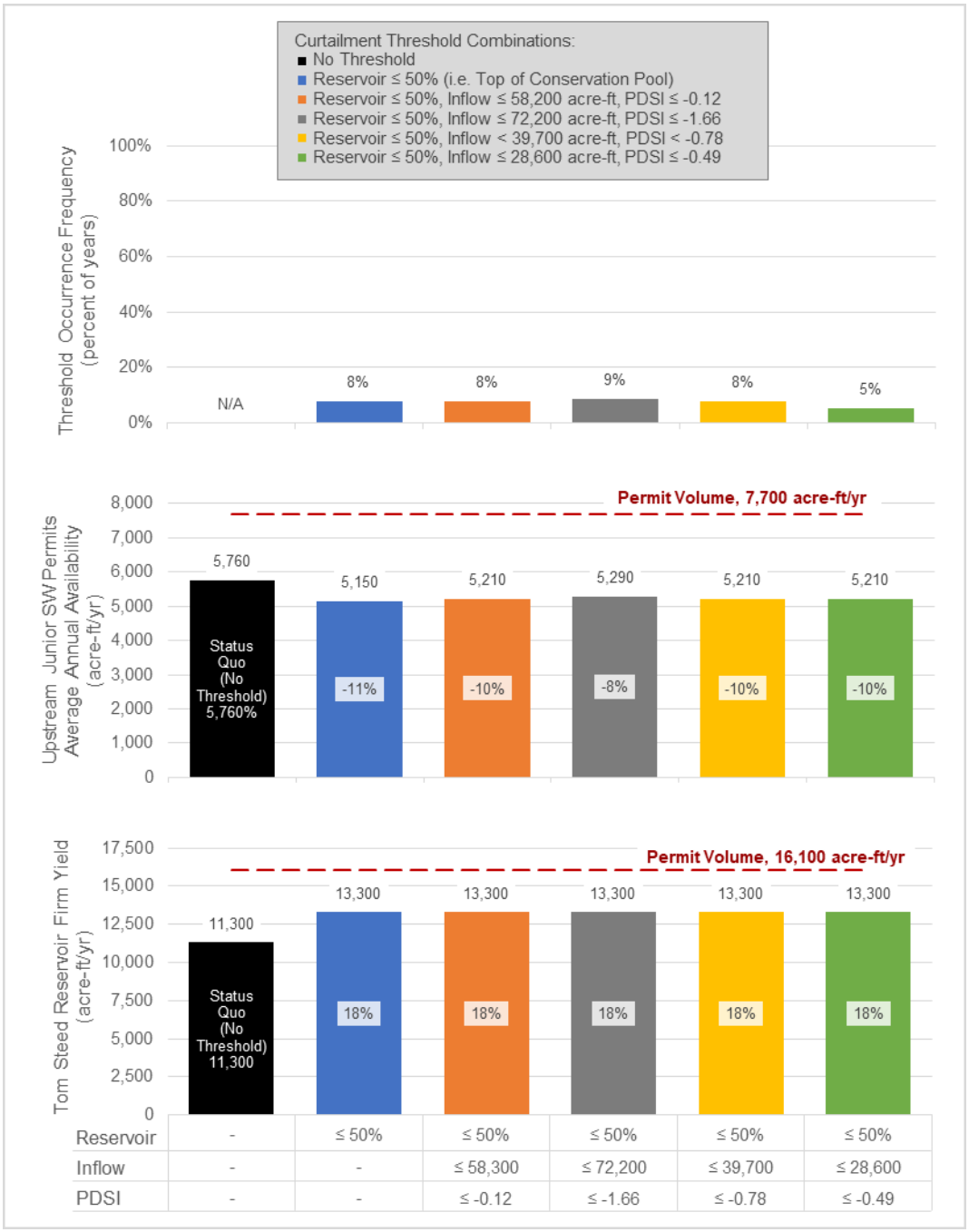

Figure 61. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

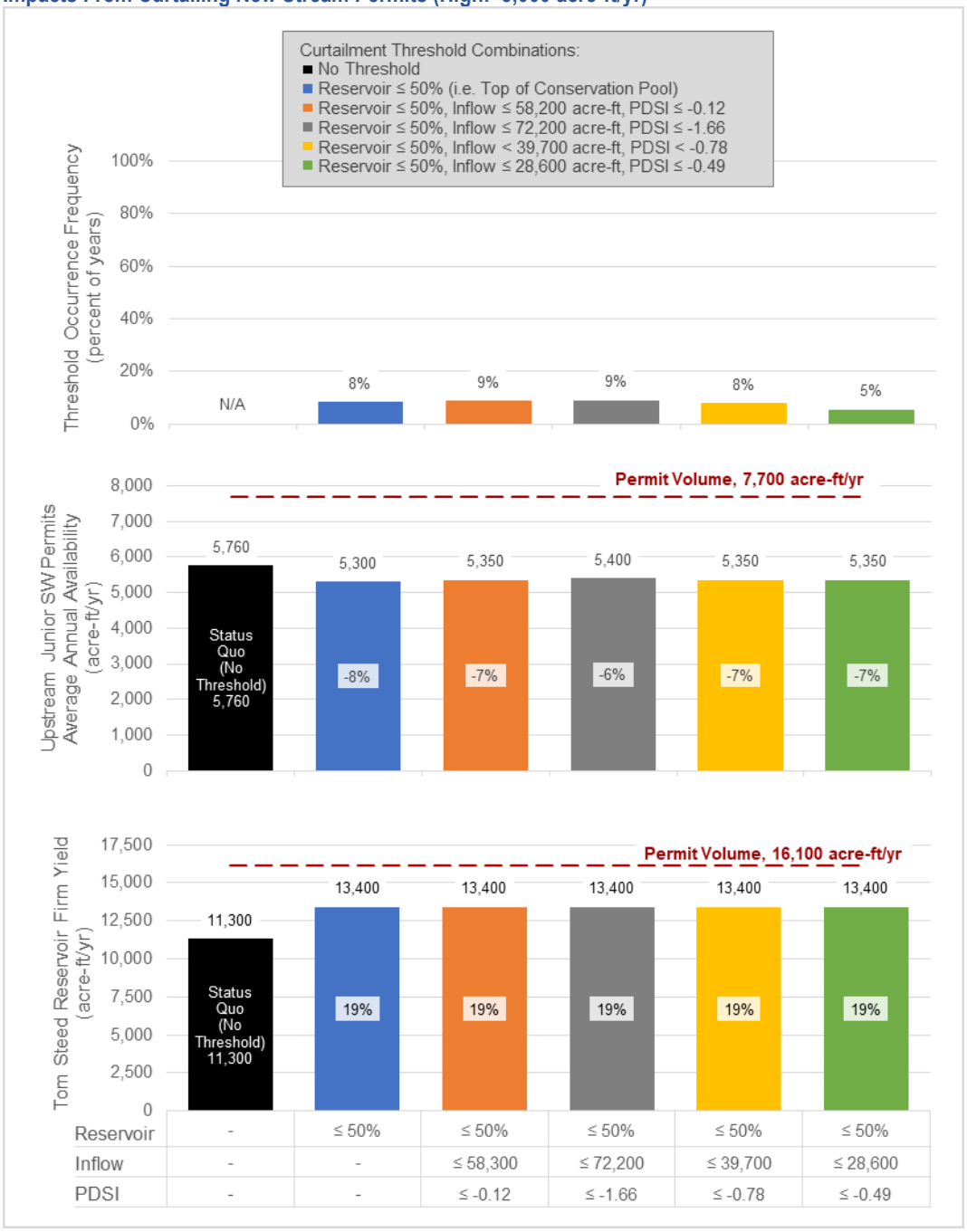

Figure 62. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Existing and/or New Groundwater Permits and Existing Domestic Use Conditions

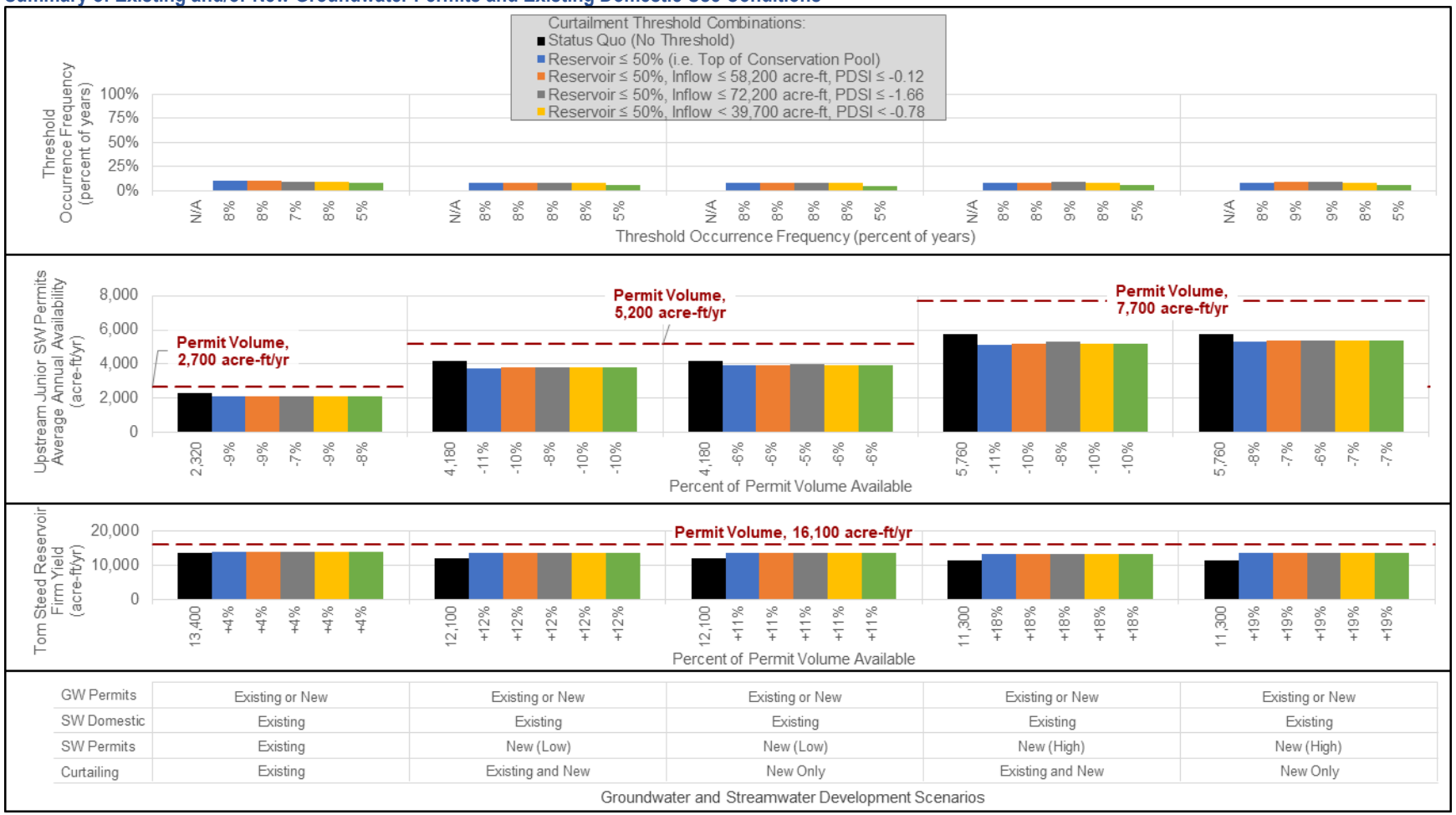

Figure 63. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

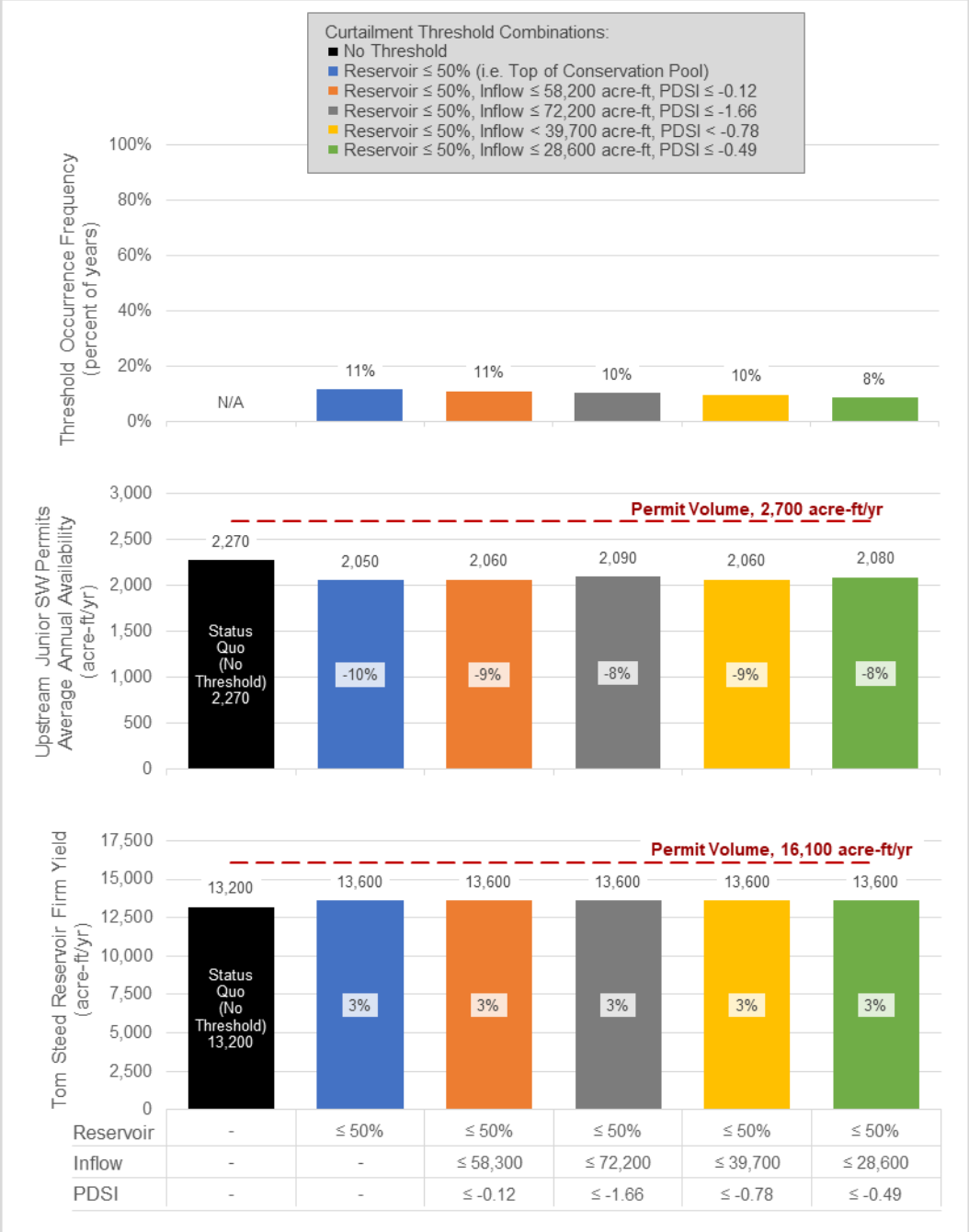

Figure 64. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

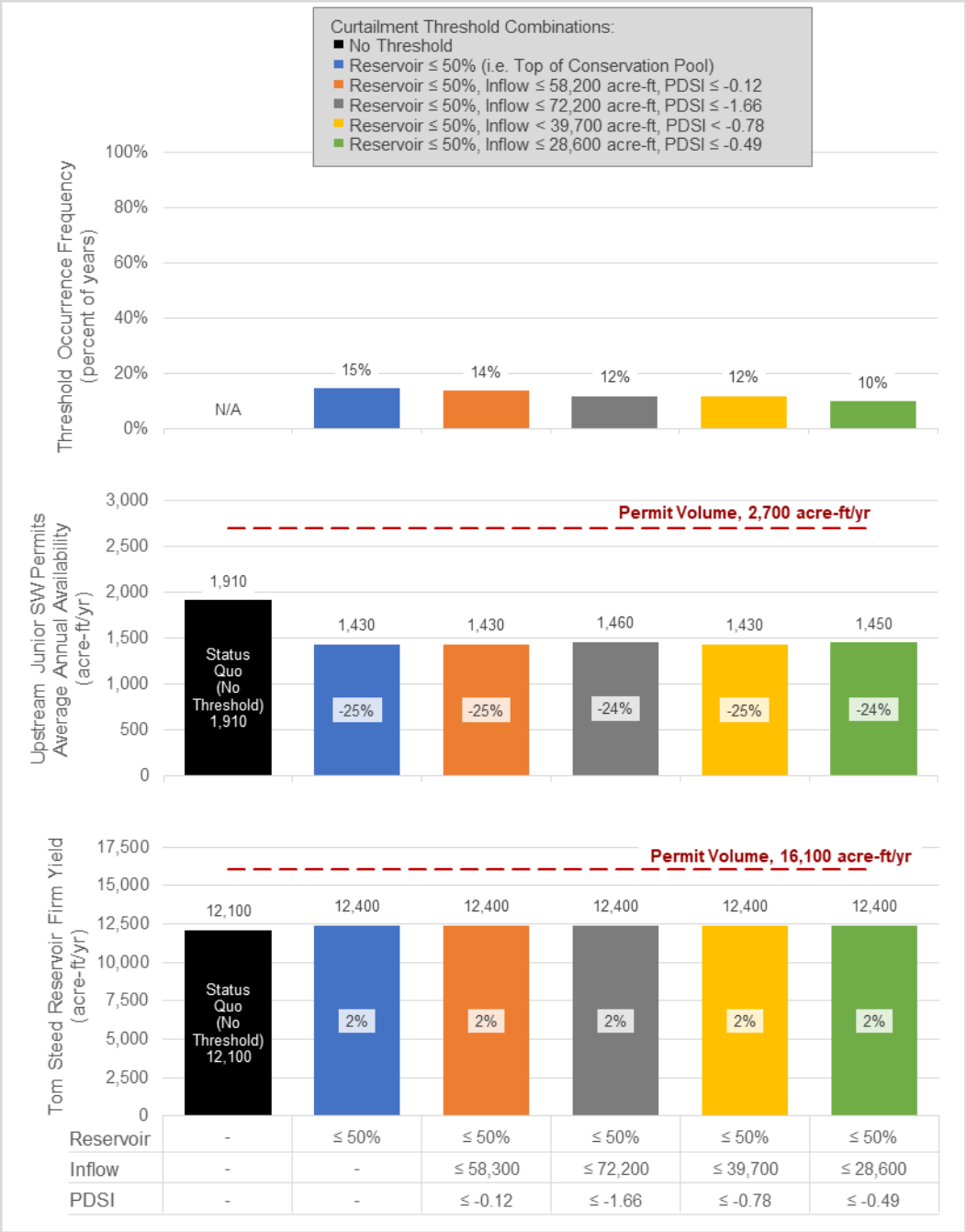

Figure 65. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

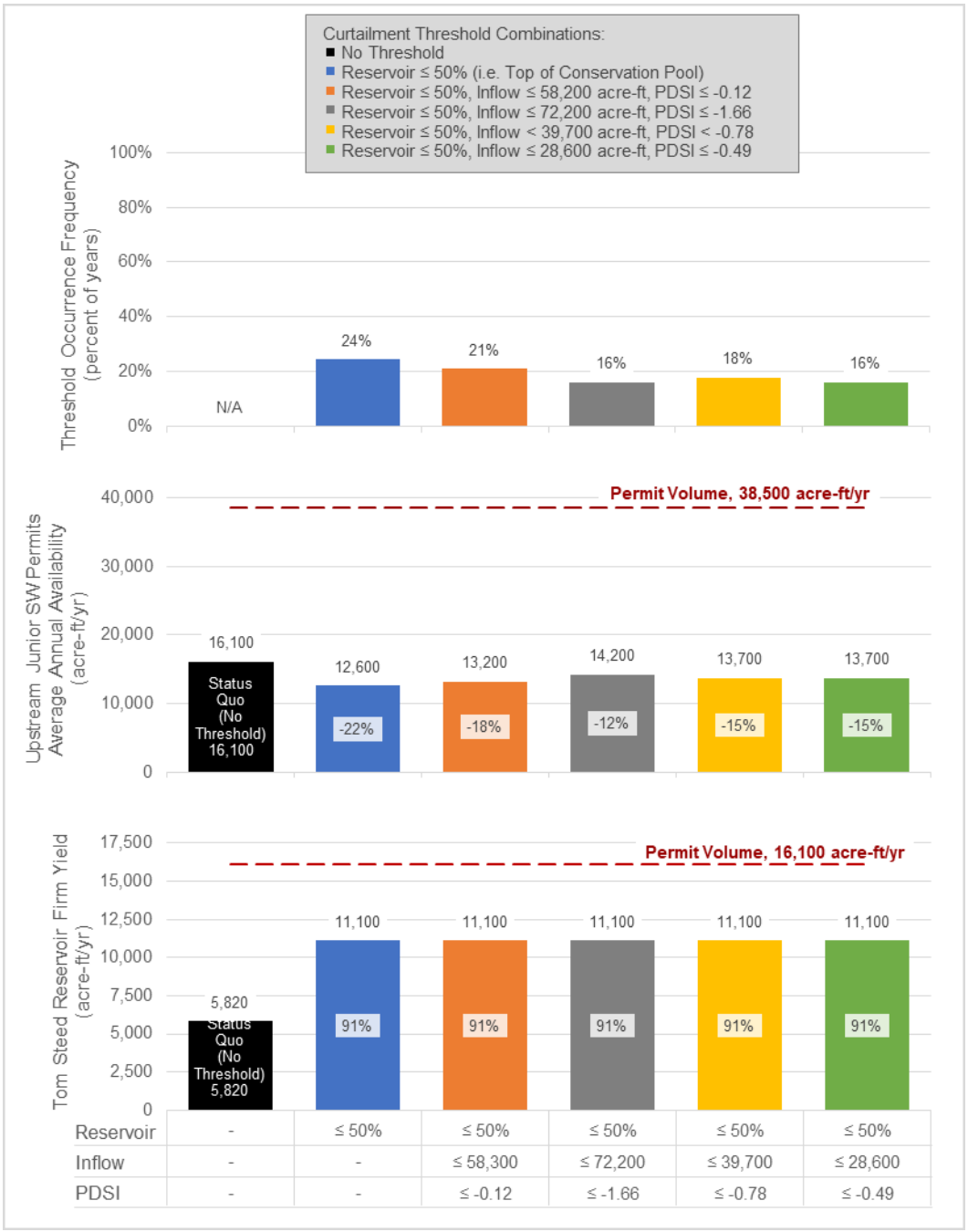

Figure 66. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

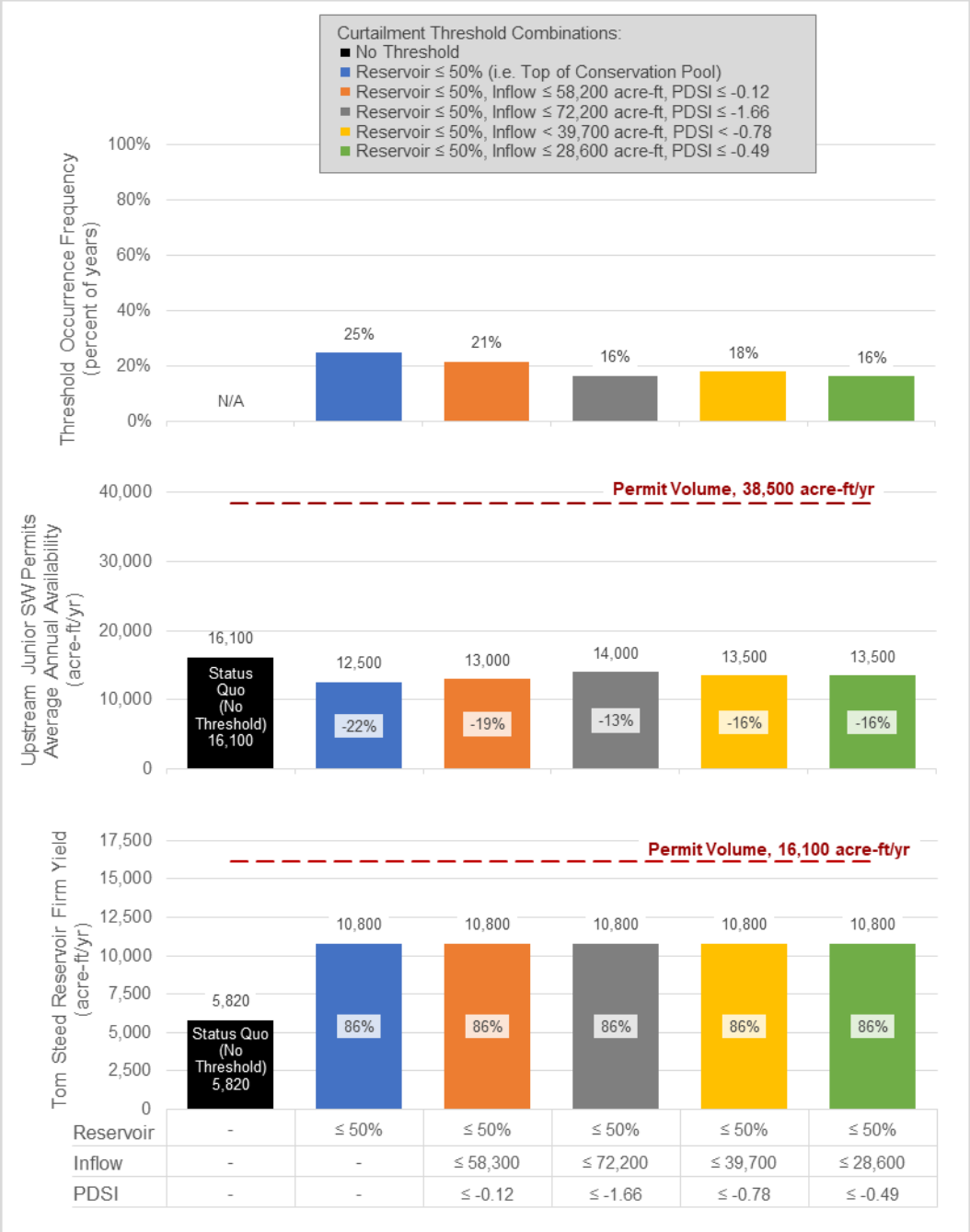

Figure 67. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

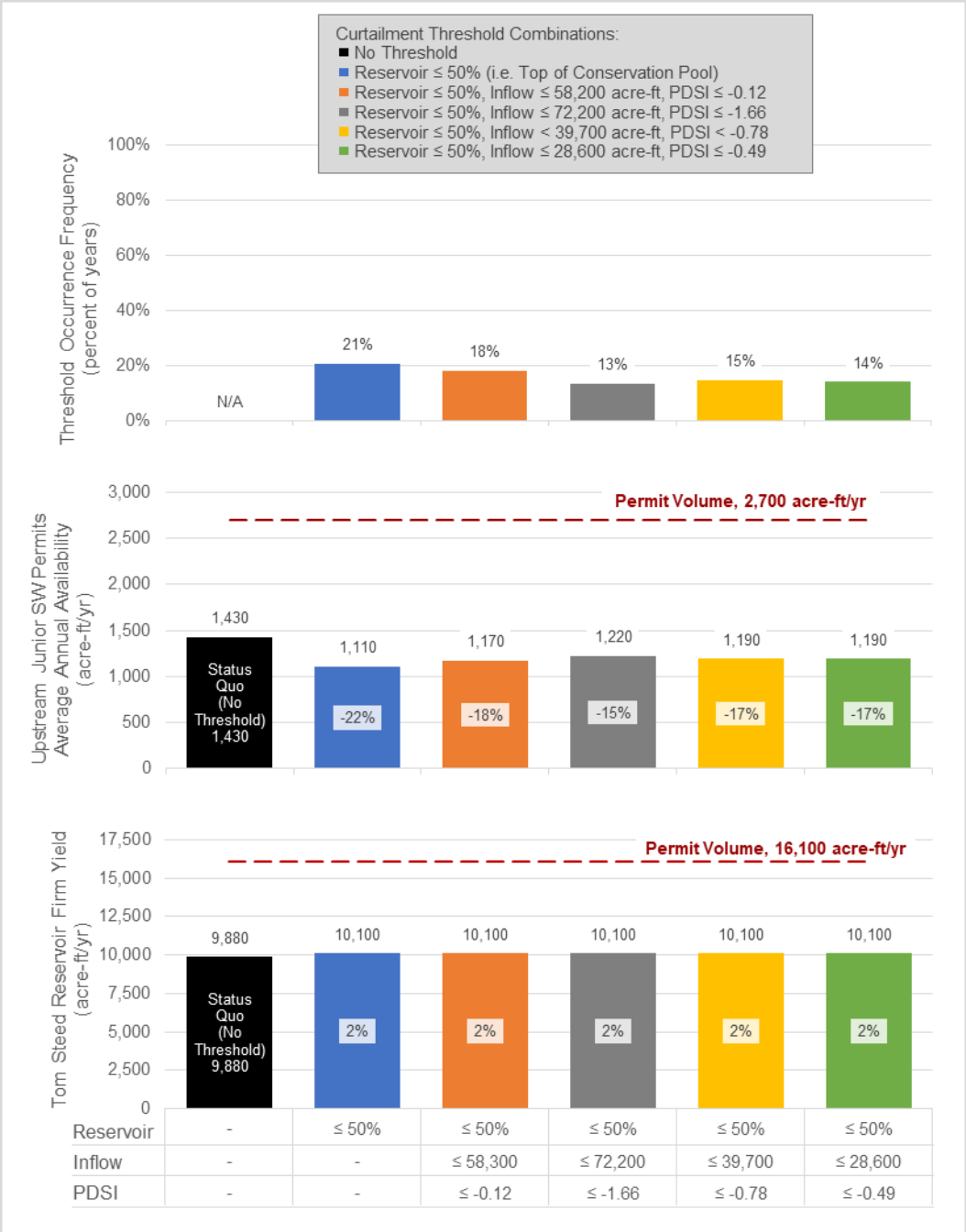

Figure 68. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

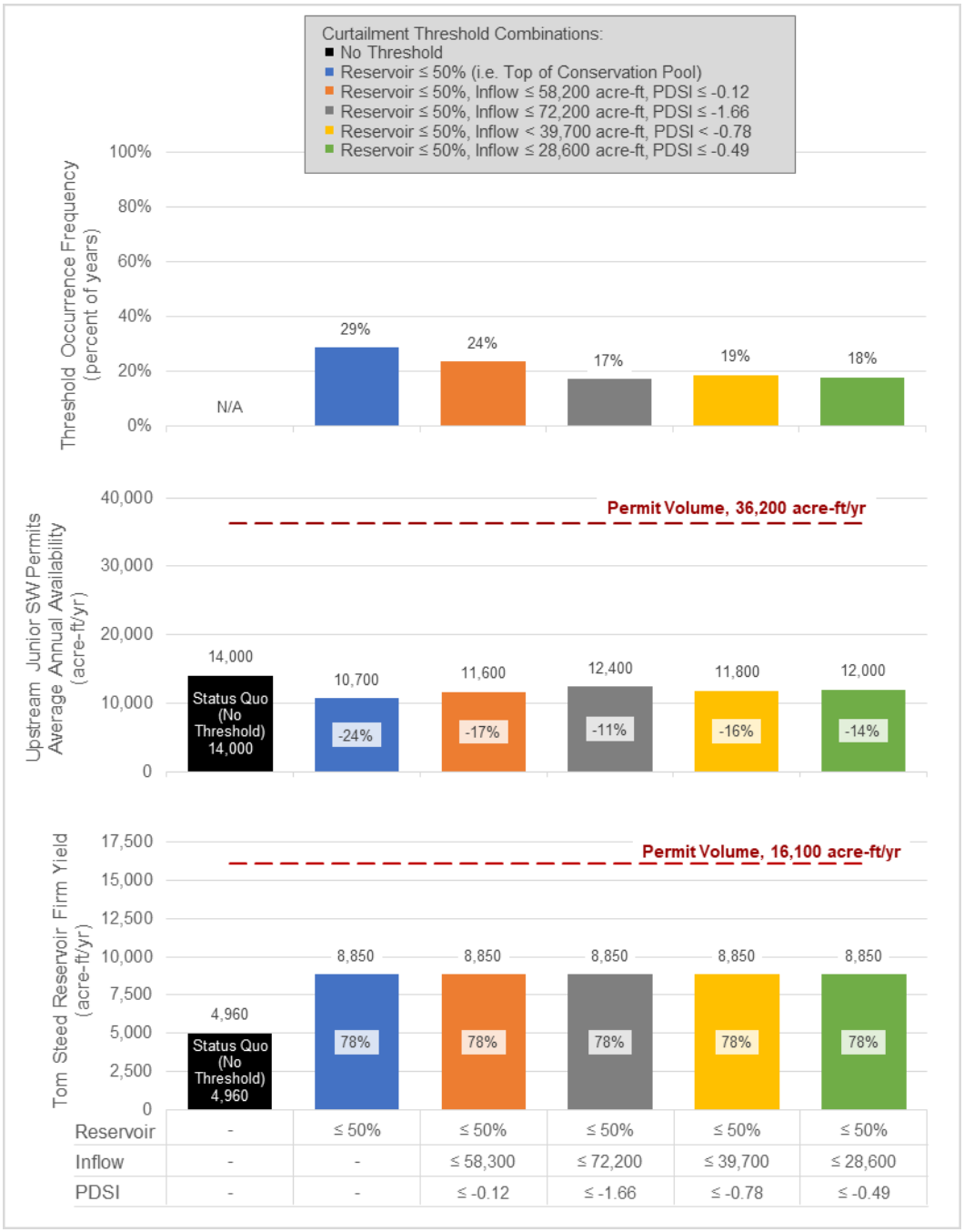

Figure 69. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Impacts From 33,500 acre-ft/yr of New Stream Permits

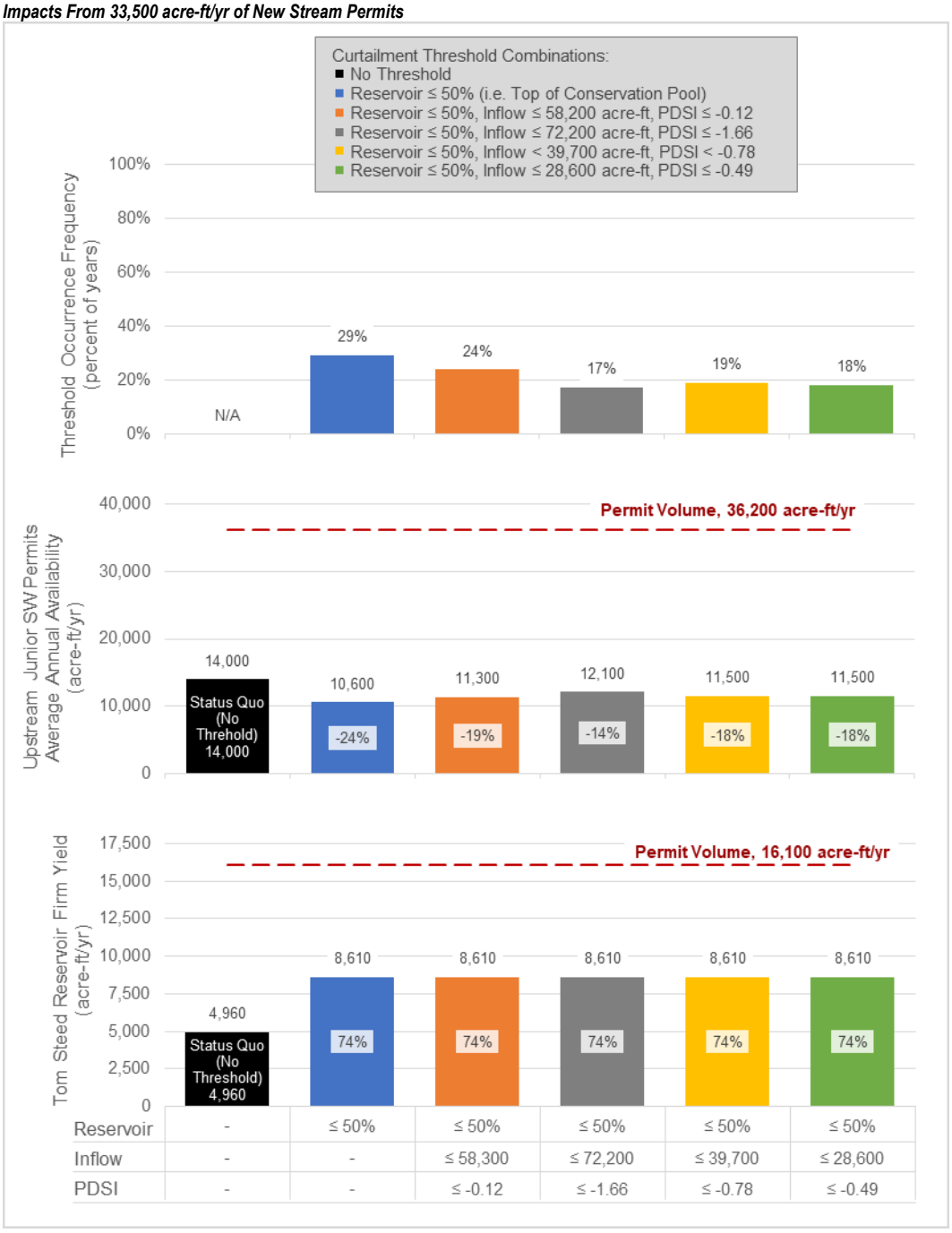

Figure 70. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Figure 71. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis).

Summary of All Results

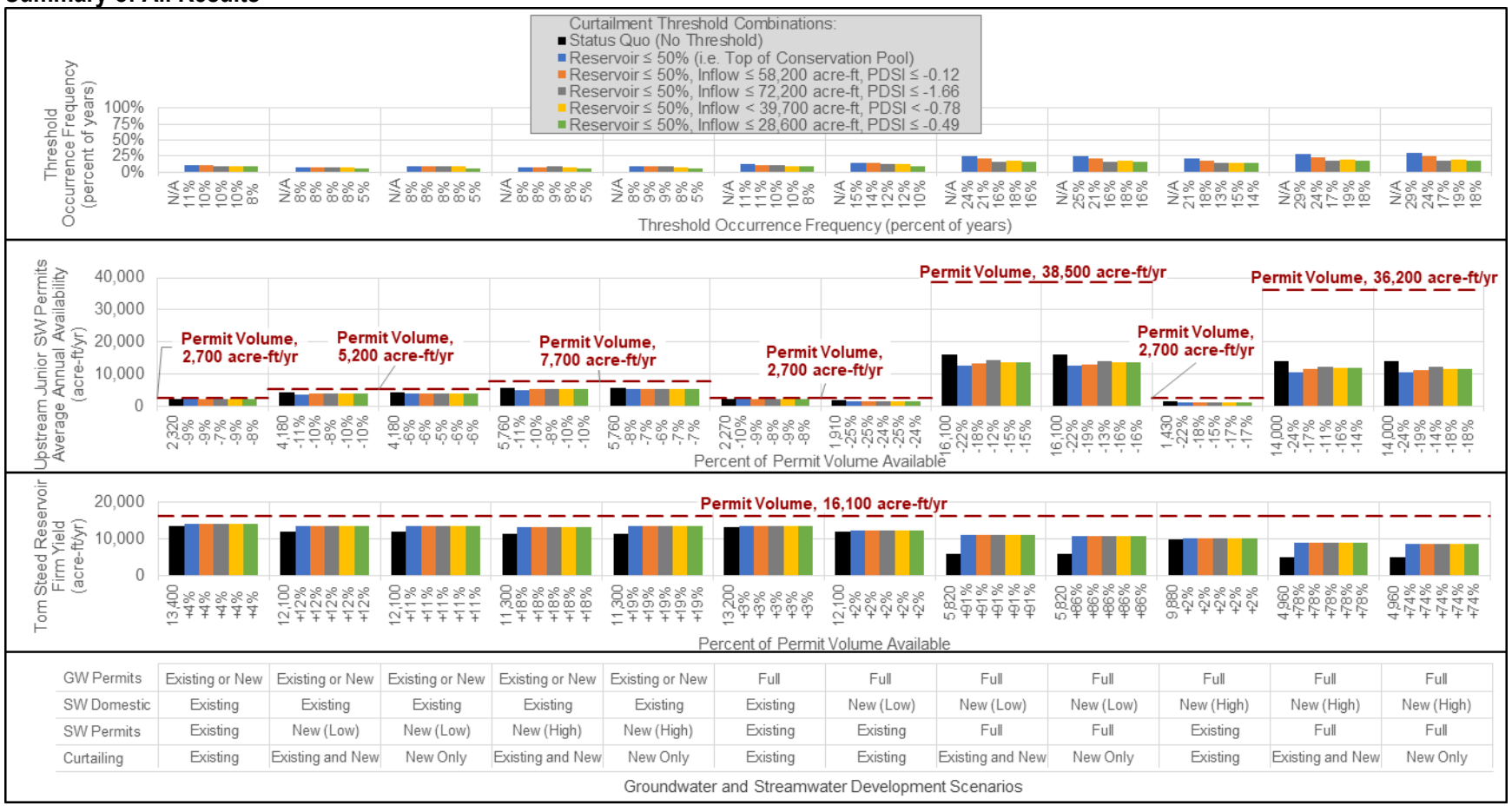

Figure 72. Tom Steed Reservoir firm yield (bottom), upstream junior stream permit availability (middle), and threshold occurrence frequency (top) that result from curtailing a range of existing and new junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations (x-axis)..

Impacts on MPMCD's Permit Availability

Curtailment Based on Four Reservoir Storage Thresholds Combined with Four Inflow-PDSI Thresholds

Table 18. Tom Steed Reservoir permit or use availability that results from curtailing permits under twelve development scenarios when Tom Steed Reservoir storage is < 100 percent full (below the Top of Conservation Pool) and when both inflow and PDSI are at or below four curtailment threshold combinations.

			Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
	Reservoir Storage Threshold		-	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%
	Inflow Threshold		-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
	PDSI Threshold		-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
Scenario	New SW Permits (acre-ft/yr)	Reservoir Use0 (acre-ft/yr)	Top Row – Maximum Reservoir Supply Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Reservoir Supply Dependability (Percent of Years Full Permit is Available)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	Existing (12,700)	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Mid (14,400)	200 98.5%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Full (16,100)	2,000 97.0%	1,500 98.5%	1,500 98.5%	1,500 98.5%	1,500 98.5%	1,500 98.5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	Existing (12,700)	0 100%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	1,900 97.0%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	200 98.5%	400 98.5%	500 98.5%	500 98.5%	400 98.5%
		Full (16,100)	2,300 97.0%	-	-	-	-	-	1,500 98.5%	1,800 98.5%	1,900 98.5%	1,900 98.5%	1,800 98.5%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%
	High (5,000)	Existing (12,700)	1,000 98.5%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	2,000 97.0%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	200 98.5%	600 98.5%	600 98.5%	600 98.5%	600 98.5%
		Full (16,100)	3,300 97.0%	-	-	-	-	-	1,500 98.5%	1,900 98.5%	2,000 97.0%	2,000 97.0%	1,900 98.5%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%

Table 18. Continued…

Scenario	New SW Permits (acre-ft/yr)	Reservoir Use (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold			-	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%	< 100%
Inflow Threshold			-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold			-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
			Top Row – Maximum Reservoir Permit Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Permit Volume Dependability (Percent of Years Full Permit is Available)															
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	Full (16,100)	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	Full (16,100)	2,500 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	Full (16,100)	11,100 89.6%	-	-	-	-	-	2,100 97.0%	2,300 97.0%	4,600 95.5%	4,300 95.5%	2,300 97.0%	2,500 97.0%	2,900 97.0%	5,000 95.5%	4,800 95.5%	2,900 97.0%
Full Groundwater Permit Use and High Domestic Use Conditions	None	Full (16,100)	5,900 97.0%	5,100 97.0%	5,100 97.0%	5,200 97.0%	5,100 97.0%	5,100 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	Full (16,100)	11,600 89.6%	-	-	-	-	-	5,100 97.0%	6,300 95.5%	6,900 92.5%	6,900 92.5%	6,300 95.5%	5,900 97.0%	7,100 95.5%	7,600 92.5%	7,600 92.5%	7,100 95.5%

Table 19. Tom Steed Reservoir permit or use availability that results from curtailing permits under twelve development scenarios when Tom Steed Reservoir storage is ≤ 90 percent full and when both inflow and PDSI are at or below four curtailment threshold combinations.

Scenario	New SW Permits (acre-ft/yr)	Reservoir Use (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold			-	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%
Inflow Threshold			-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold			-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
			Top Row – Maximum Reservoir Permit Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Permit Volume Dependability (Percent of Years Full Permit is Available)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	Existing (12,700)	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Mid (14,400)	200 98.5%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Full (16,100)	2,000 97.0%	1,500 98.5%	1,500 98.5%	1,500 98.5%	1,500 98.5%	1,500 98.5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	Existing (12,700)	0 100%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	1,900 97.0%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	400 98.5%	400 98.5%	500 98.5%	500 98.5%	400 98.5%
		Full (16,100)	2,300 97.0%	-	-	-	-	-	1,800 98.5%	1,800 98.5%	1,900 98.5%	1,900 98.5%	1,800 98.5%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%
	High (5,000)	Existing (12,700)	1,000 98.5%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	2,000 97.0%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	600 98.5%	600 98.5%	600 98.5%	600 98.5%	600 98.5%
		Full (16,100)	3,300 97.0%	-	-	-	-	-	1,900 98.5%	1,900 98.5%	2,000 97.0%	2,000 97.0%	1,900 98.5%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%

Table 19. Continued…

Scenario	New SW Permits (acre-ft/yr)	Reservoir Use (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold			-	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%	≤ 90%
Inflow Threshold			-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold			-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
			Top Row – Maximum Reservoir Permit Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Permit Volume Dependability (Percent of Years Full Permit is Available)															
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	Full (16,100)	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	Full (16,100)	2,500 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	Full (16,100)	11,100 89.6%	-	-	-	-	-	2,300 97.0%	2,300 97.0%	4,600 95.5%	4,300 95.5%	2,300 97.0%	2,800 97.0%	2,900 97.0%	5,000 95.5%	4,800 95.5%	2,900 97.0%
Full Groundwater Permit Use and High Domestic Use Conditions	None	Full (16,100)	5,900 97.0%	5,100 97.0%	5,100 97.0%	5,200 97.0%	5,100 97.0%	5,100 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	Full (16,100)	11,600 89.6%	-	-	-	-	-	5,700 97.0%	6,300 95.5%	6,900 92.5%	6,900 92.5%	6,300 95.5%	6,300 97.0%	7,100 95.5%	7,600 92.5%	7,600 92.5%	7,100 95.5%

Table 20. Tom Steed Reservoir permit or use availability that results from curtailing permits under twelve development scenarios when Tom Steed Reservoir storage is ≤ 70 percent full and when both inflow and PDSI are at or below four curtailment threshold combinations.

Scenario	New SW Permits (acre-ft/yr)	Reservoir Use (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold			-	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%
Inflow Threshold			-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold			-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
			Top Row – Maximum Reservoir Permit Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Permit Volume Dependability (Percent of Years Full Permit is Available)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	Existing (12,700)	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Mid (14,400)	200 98.5%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Full (16,100)	2,000 97.0%	1,600 98.5%	1,600 98.5%	1,600 98.5%	1,600 98.5%	1,600 98.5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	Existing (12,700)	0 100%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	1,900 97.0%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	500 98.5%	500 98.5%	500 98.5%	500 98.5%	500 98.5%
		Full (16,100)	2,300 97.0%	-	-	-	-	-	1,900 98.5%	1,900 98.5%	1,900 98.5%	1,900 98.5%	1,900 98.5%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%
	High (5,000)	Existing (12,700)	1,000 98.5%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	2,000 97.0%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	600 98.5%	600 98.5%	600 98.5%	600 98.5%	600 98.5%
		Full (16,100)	3,300 97.0%	-	-	-	-	-	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%

Table 20. Continued…

Scenario	New SW Permits (acre-ft/yr)	Reservoir Use (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold			-	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%	≤ 70%
Inflow Threshold			-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold			-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
			Top Row – Maximum Reservoir Permit Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Permit Volume Dependability (Percent of Years Full Permit is Available)															
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	Full (16,100)	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	Full (16,100)	2,500 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	2,100 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	Full (16,100)	11,100 89.6%	-	-	-	-	-	3,100 97.0%	3,300 97.0%	4,600 95.5%	4,300 95.5%	3,300 97.0%	3,500 97.0%	3,700 97.0%	5,000 95.5%	4,800 95.5%	3,700 97.0%
Full Groundwater Permit Use and High Domestic Use Conditions	None	Full (16,100)	5,900 97.0%	5,200 97.0%	5,200 97.0%	5,200 97.0%	5,200 97.0%	5,200 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	Full (16,100)	11,600 89.6%	-	-	-	-	-	6,400 97.0%	6,900 94.0%	6,900 92.5%	6,900 92.5%	6,900 94.0%	7,100 97.0%	7,600 94.0%	7,600 92.5%	7,600 92.5%	7,600 94.0%

Table 21. Tom Steed Reservoir permit or use availability that results from curtailing permits under twelve development scenarios when Tom Steed Reservoir storage is ≤ 50 percent full and when both inflow and PDSI are at or below four curtailment threshold combinations.

Scenario	New SW Permits (acre-ft/yr)	Reservoir Use (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold			-	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%
Inflow Threshold			-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold			-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
			Top Row – Maximum Reservoir Permit Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Permit Volume Dependability (Percent of Years Full Permit is Available)															
Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions	None	Existing (12,700)	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Mid (14,400)	200 98.5%	0 100%	0 100%	0 100%	0 100%	0 100%	-	-	-	-	-	-	-	-	-	-
		Full (16,100)	2,000 97.0%	1,800 98.5%	1,800 98.5%	1,800 98.5%	1,800 98.5%	1,800 98.5%	-	-	-	-	-	-	-	-	-	-
	Low (2,500)	Existing (12,700)	0 100%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	1,900 97.0%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	700 98.5%	700 98.5%	700 98.5%	700 98.5%	1,200 98.5%
		Full (16,100)	2,300 97.0%	-	-	-	-	-	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%
	High (5,000)	Existing (12,700)	1,000 98.5%	-	-	-	-	-	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%
		Mid (14,400)	2,000 97.0%	-	-	-	-	-	300 98.5%	300 98.5%	300 98.5%	300 98.5%	300 98.5%	1,000 98.5%	1,000 98.5%	1,000 98.5%	1,000 98.5%	1,000 98.5%
		Full (16,100)	3,300 97.0%	-	-	-	-	-	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%

Table 21. Continued…

Scenario	New SW Permits (acre-ft/yr)	Reservoir Use (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits					Curtailing Existing and New SW Permits Only					Curtailing New SW Permits Only				
				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI				Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI			
Reservoir Storage Threshold			-	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%	≤ 50%
Inflow Threshold			-	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600	-	≤ 58,200	≤ 72,200	≤ 39,700	≤ 28,600
PDSI Threshold			-	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49	-	≤ -0.12	≤ -1.66	≤ -0.78	≤ -0.49
			Top Row – Maximum Reservoir Permit Shortage in a Single Calendar Year (acre-ft/yr) Bottom Row – Permit Volume Dependability (Percent of Years Full Permit is Available)															
Full Groundwater Permit Use and Existing Domestic Use Conditions	None	Full (16,100)	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	2,000 97.0%	-	-	-	-	-	-	-	-	-	-
Full Groundwater Permit Use and Low Domestic Use Conditions	None	Full (16,100)	2,500 97.0%	2,200 97.0%	2,200 97.0%	2,200 97.0%	2,200 97.0%	2,200 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (35,800)	Full (16,100)	11,100 89.6%	-	-	-	-	-	4,100 97.0%	4,600 97.0%	4,600 95.5%	4,600 95.5%	4,600 95.5%	4,600 97.0%	5,000 97.0%	5,000 95.5%	5,100 94.0%	5,000 95.5%
Full Groundwater Permit Use and High Domestic Use Conditions	None	Full (16,100)	5,900 97.0%	5,200 97.0%	5,200 97.0%	5,200 97.0%	5,200 97.0%	5,200 97.0%	-	-	-	-	-	-	-	-	-	-
	Full (33,700)	Full (16,100)	11,600 89.6%	-	-	-	-	-	6,900 95.5%	6,900 94.0%	6,900 92.5%	6,900 92.5%	6,900 94.0%	7,600 95.5%	7,600 94.0%	7,600 92.5%	7,600 92.5%	7,600 94.0%

Curtailment Based on Top of Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

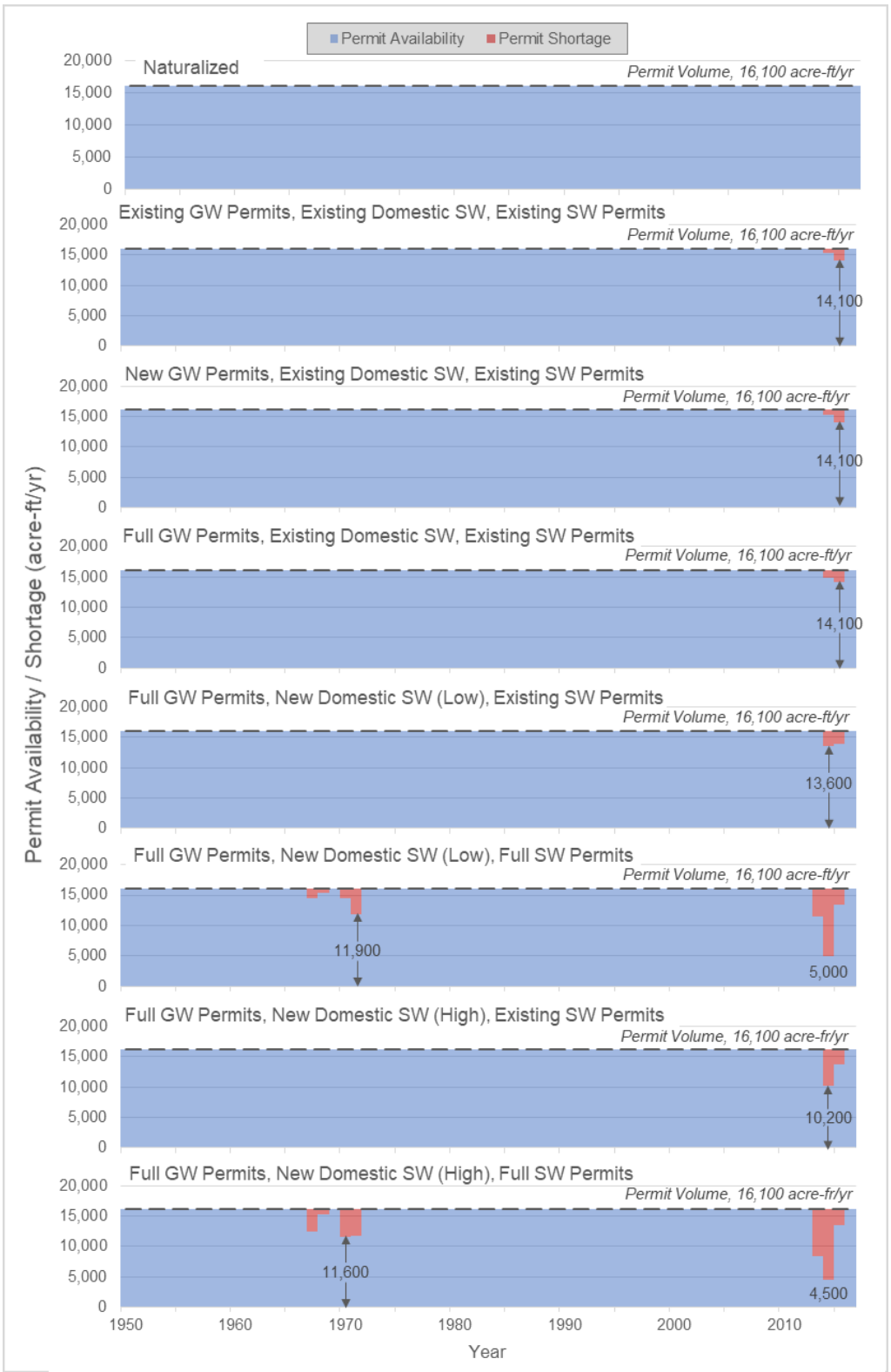

Figure 73. The dependability of Tom Steed Reservoir supply in delivering the "Full" permit demands on the reservoir for each calendar year under a range of ground- and surface-water development scenarios, 2060 sediment condition.

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

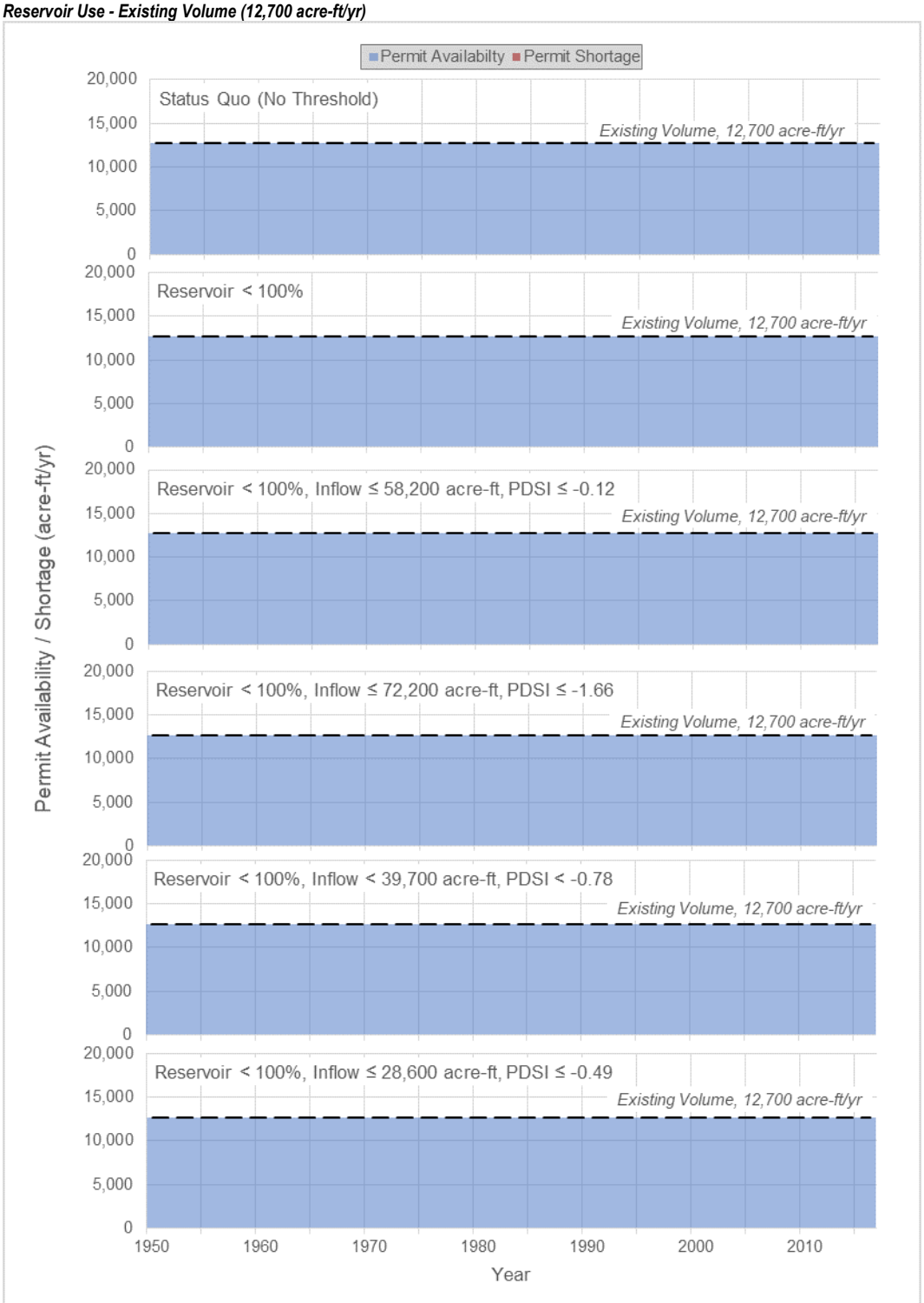

Figure 74. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

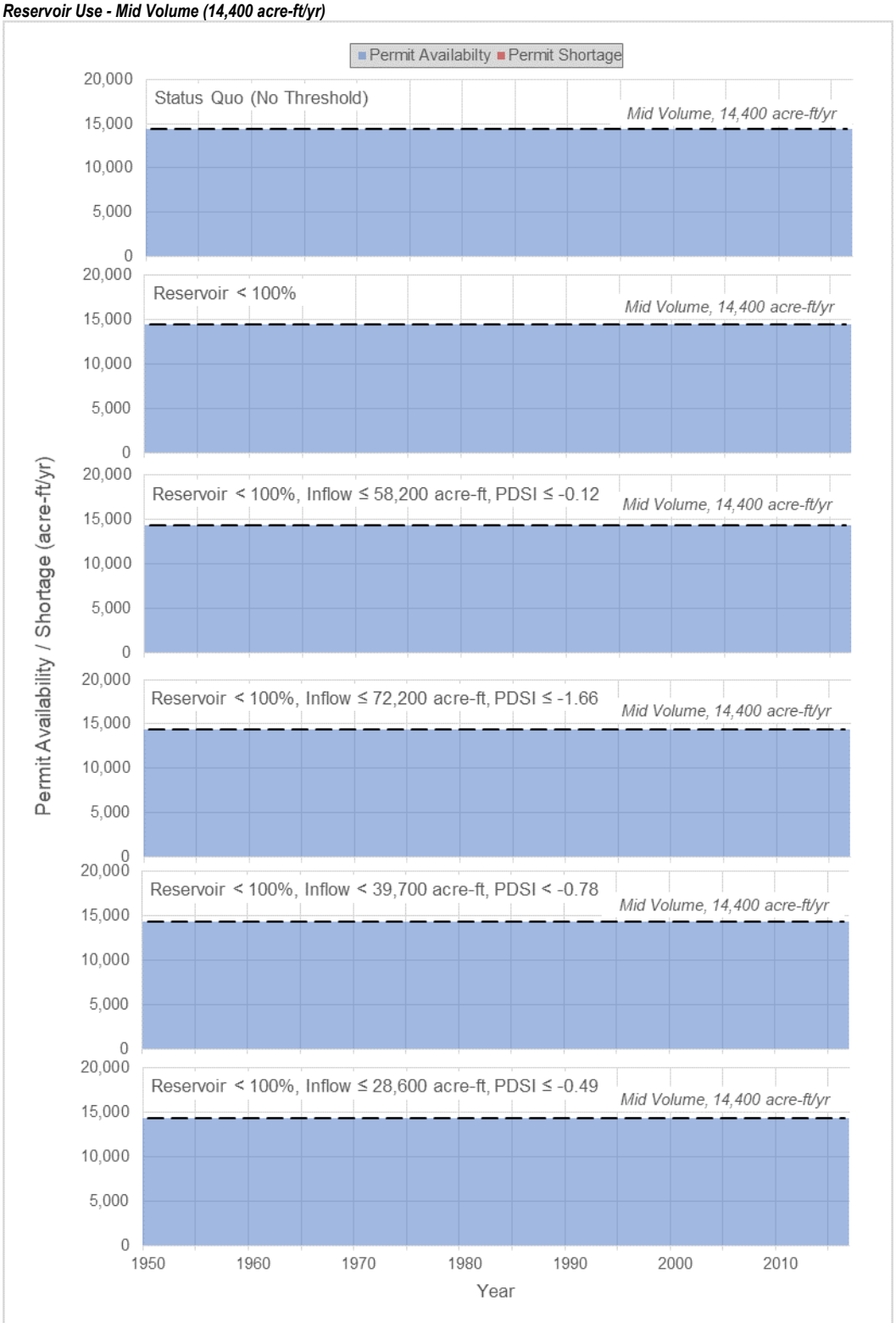

Figure 75. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

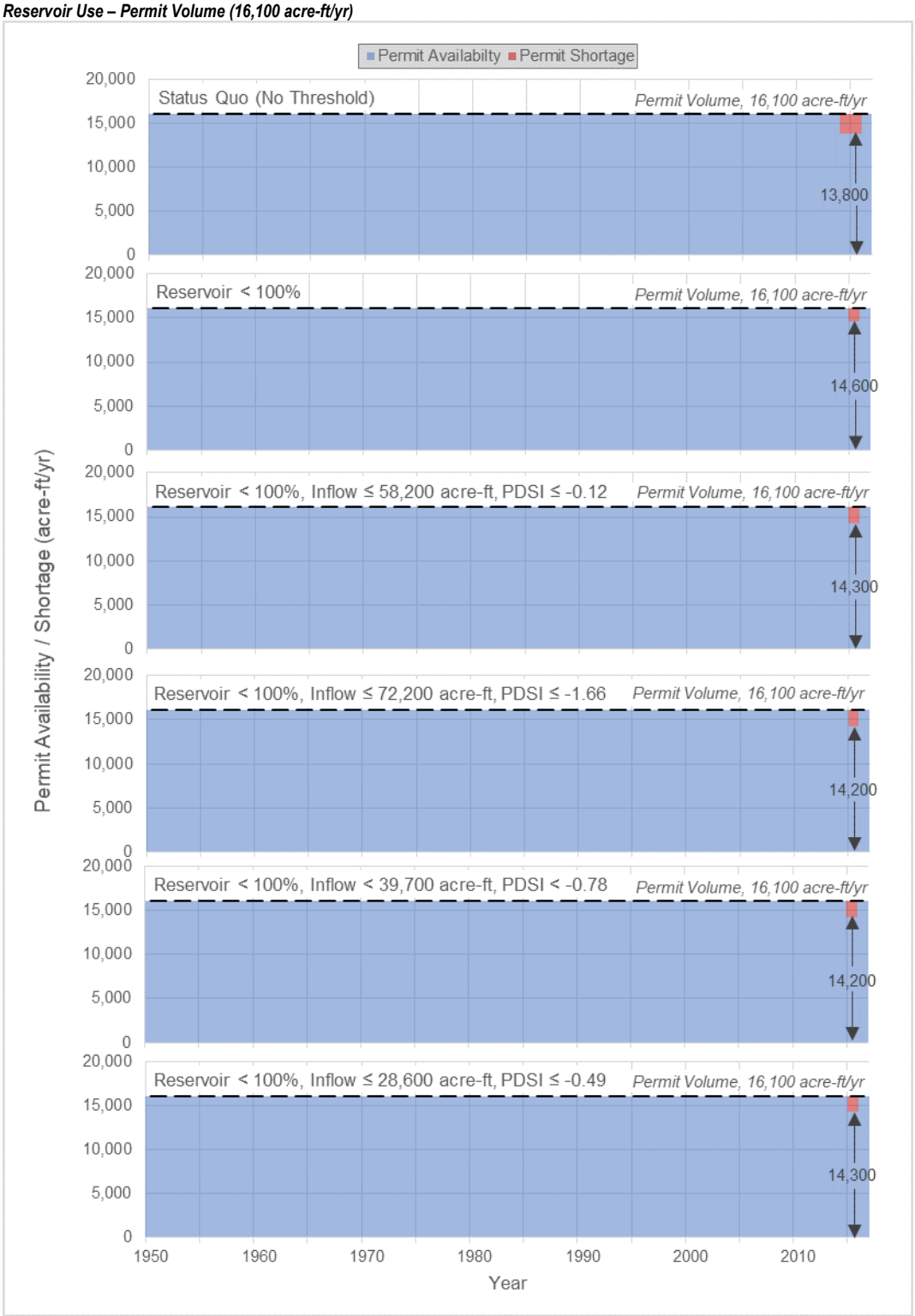

Figure 76. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

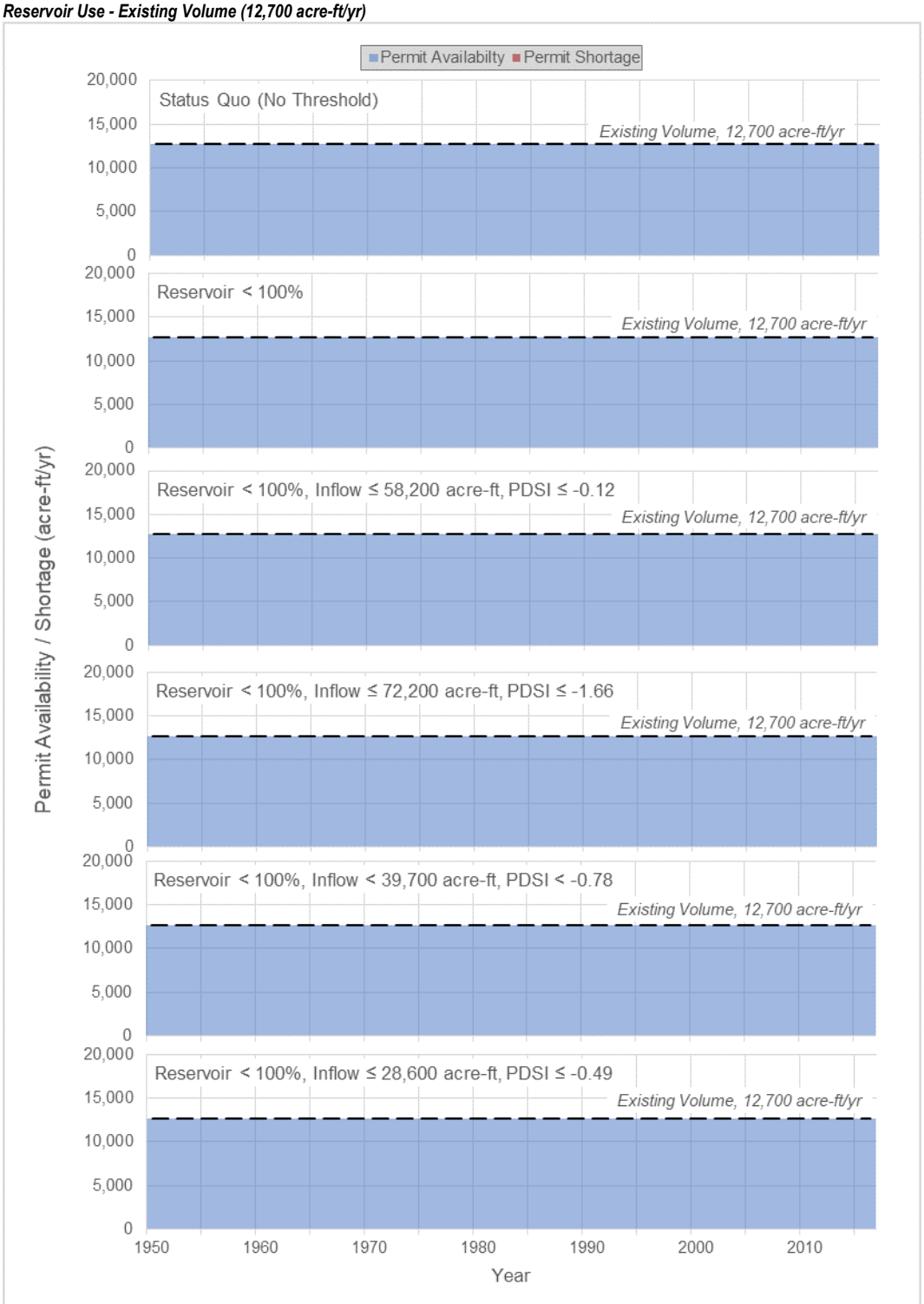

Figure 77. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

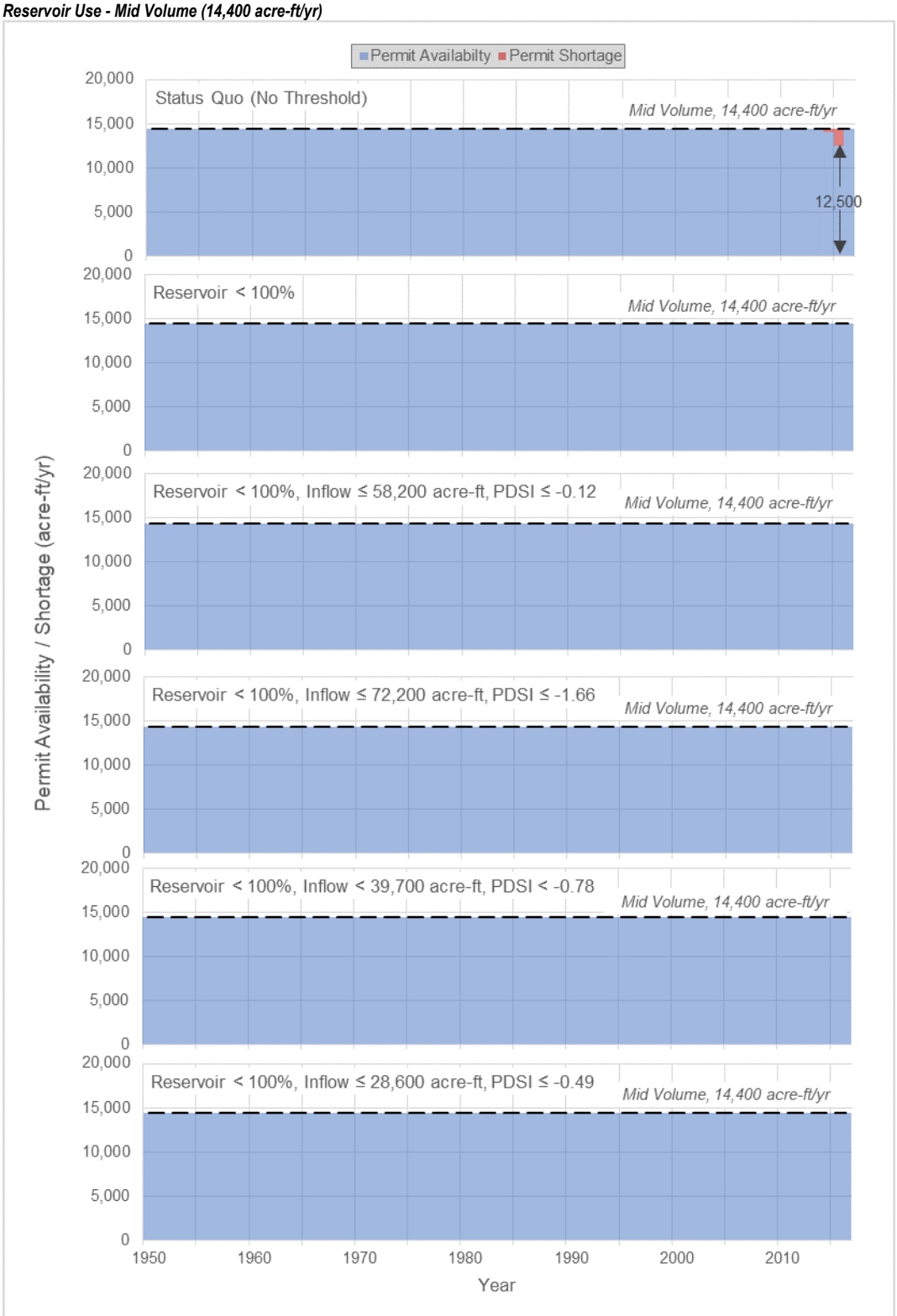

Figure 78. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

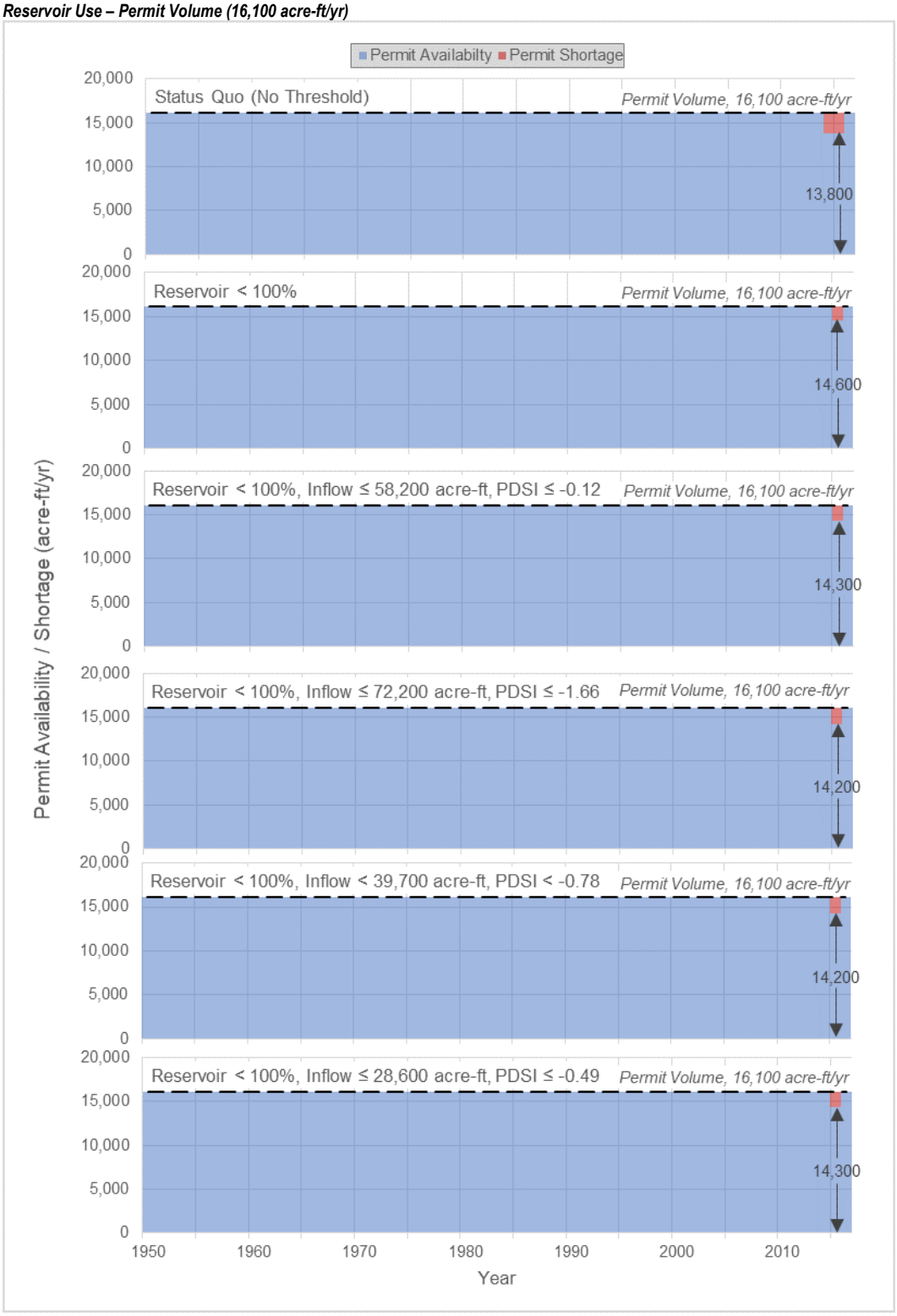

Figure 79. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

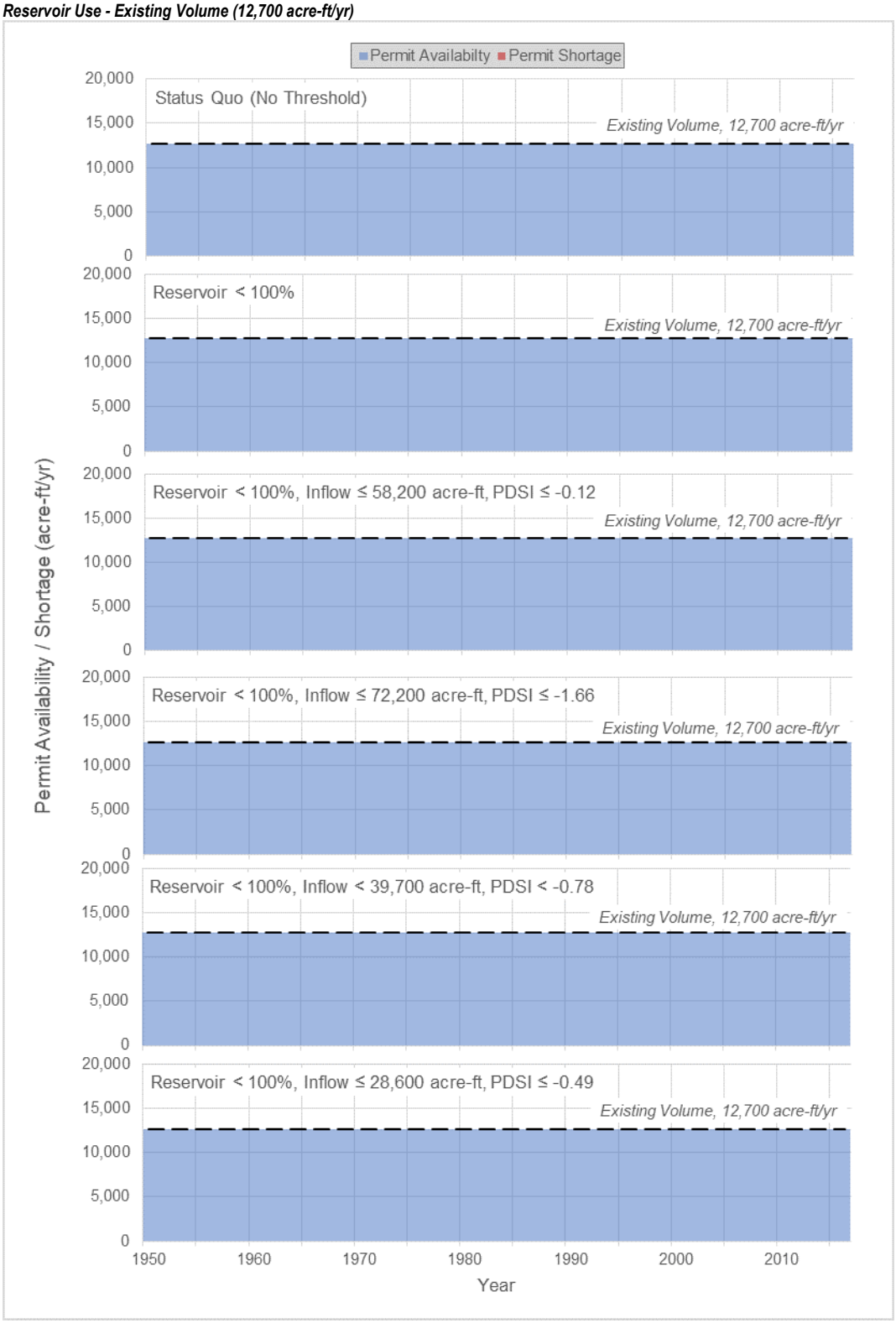

Figure 80. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

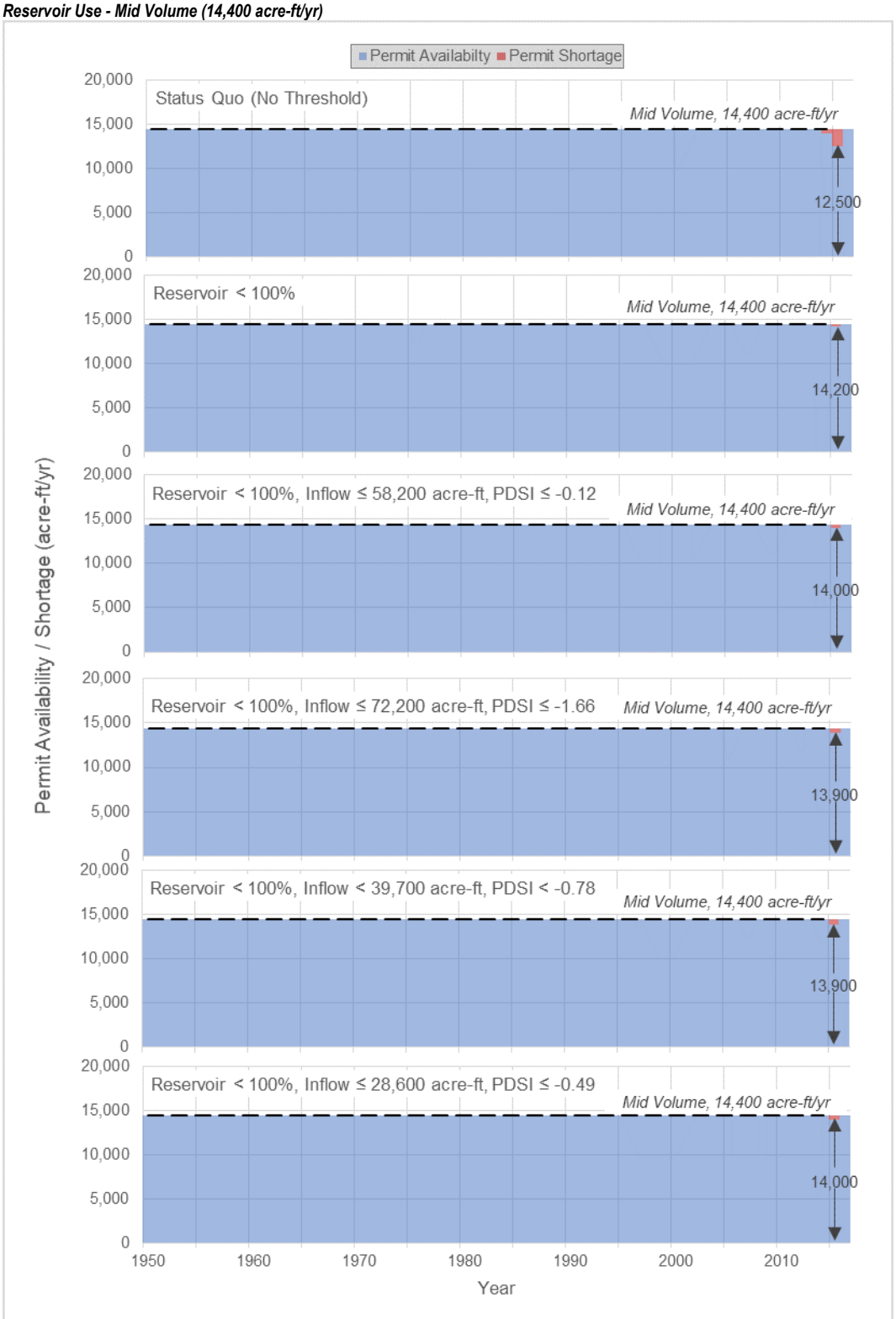

Figure 81. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

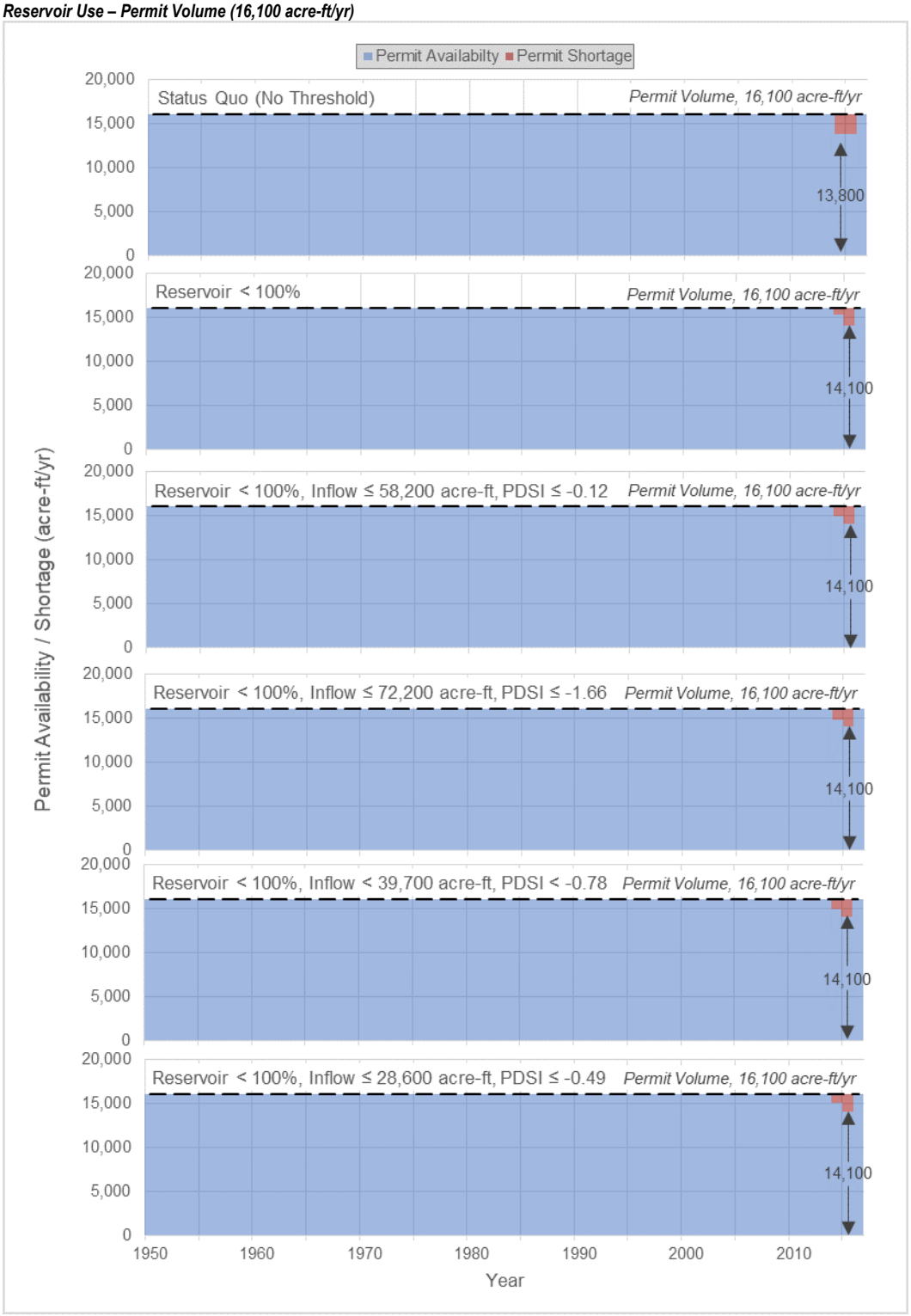

Figure 82. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

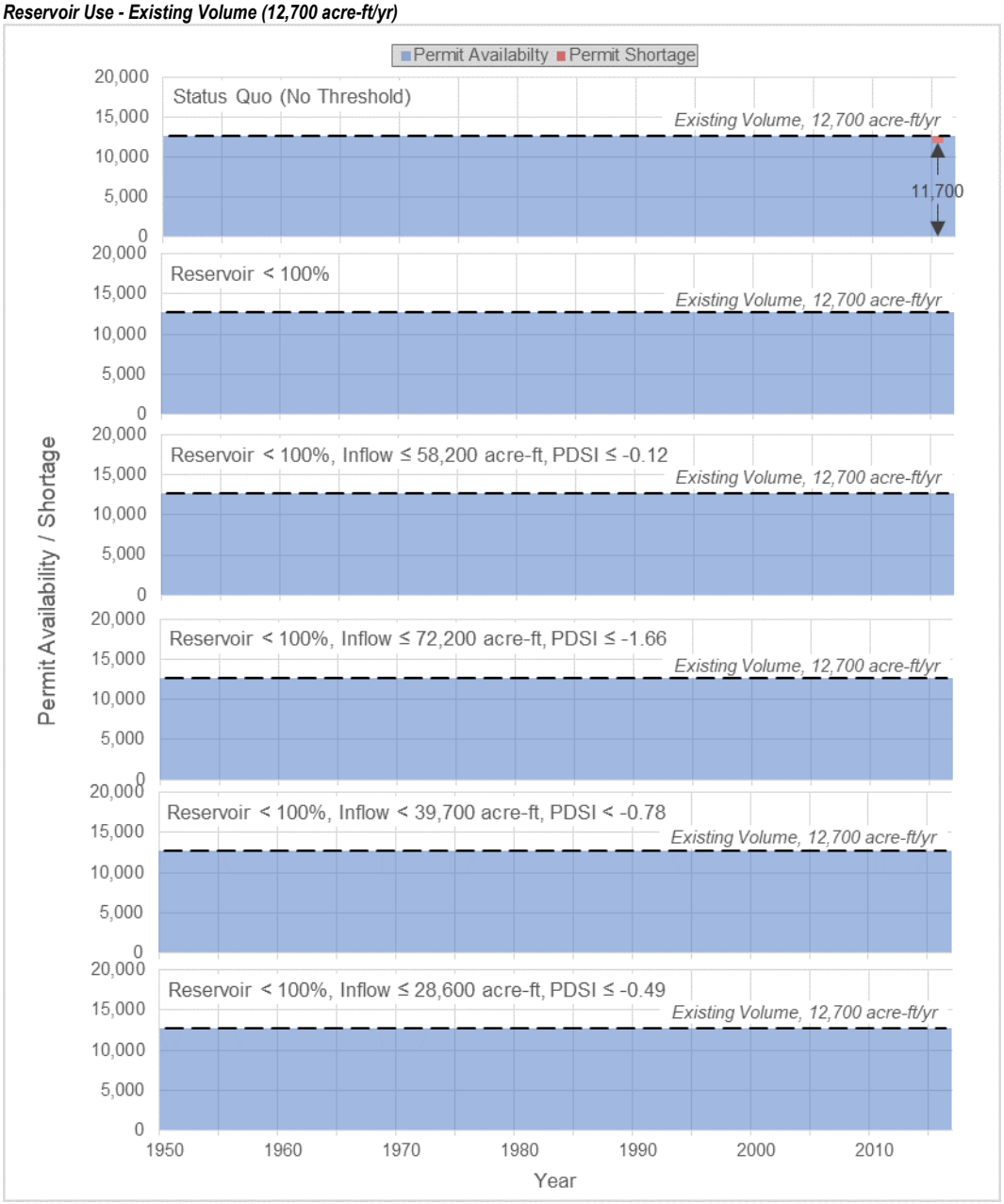

Figure 83. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

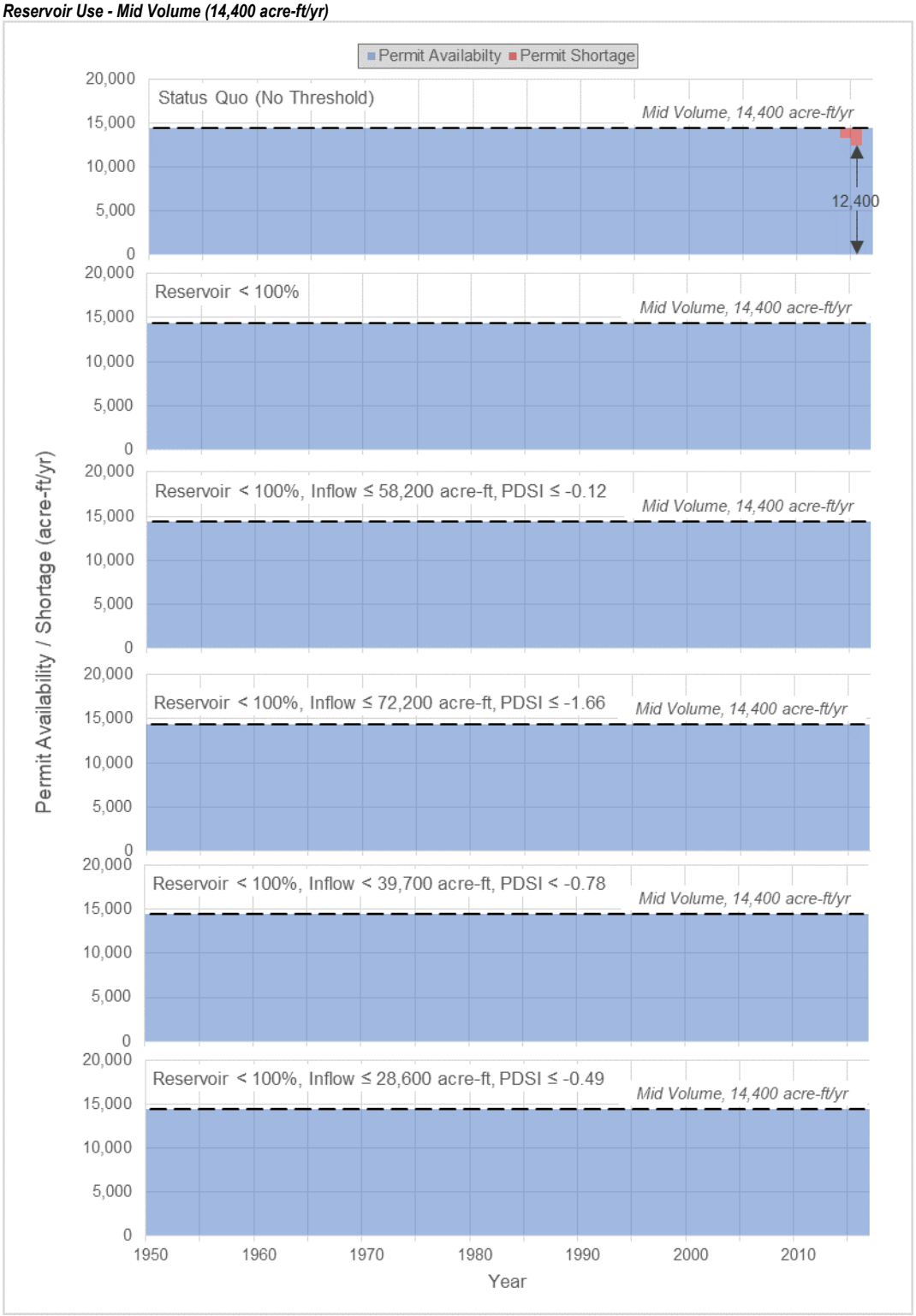

Figure 84. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Permit Volume (16,100 acre-ft/yr)

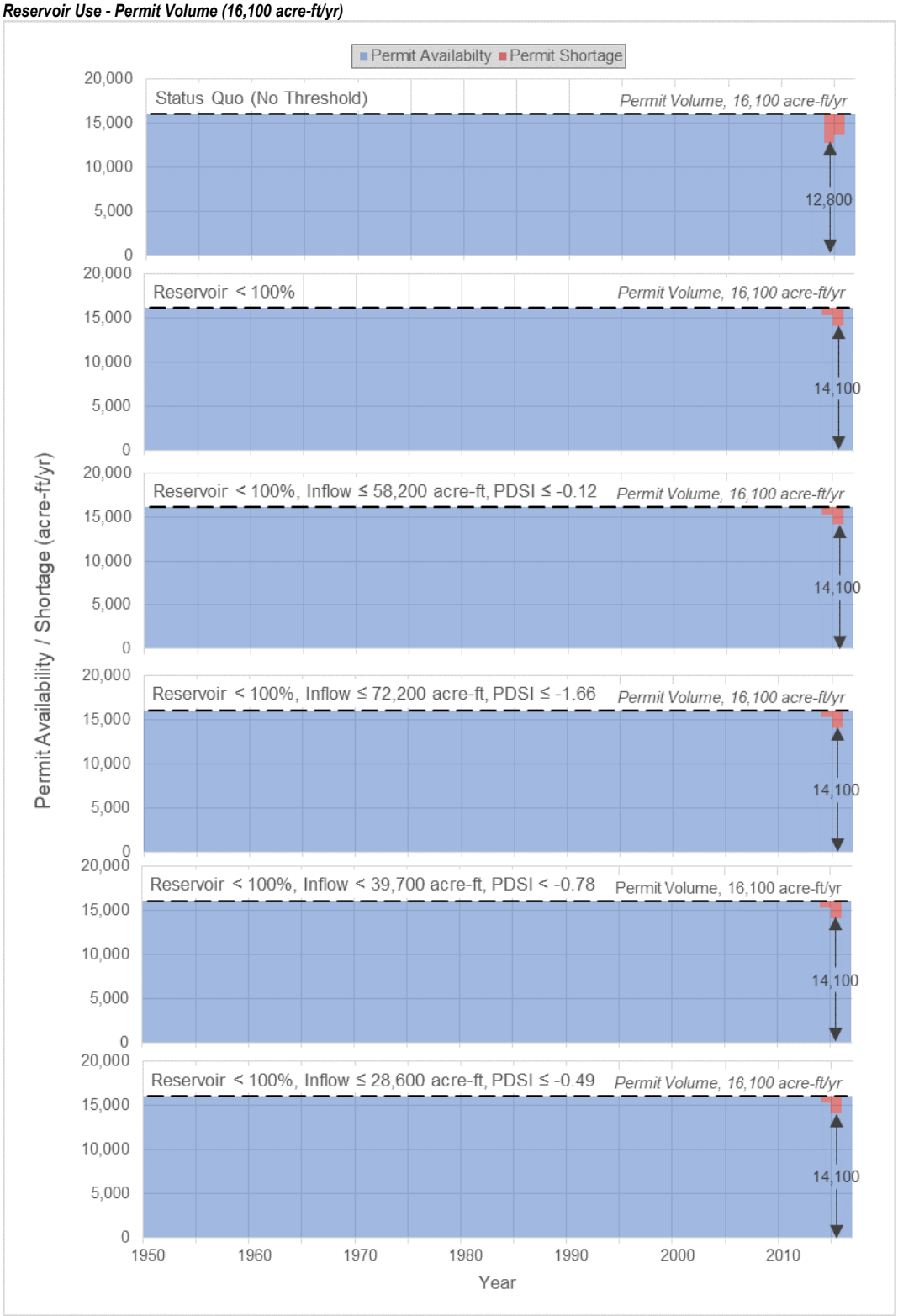

Figure 85. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

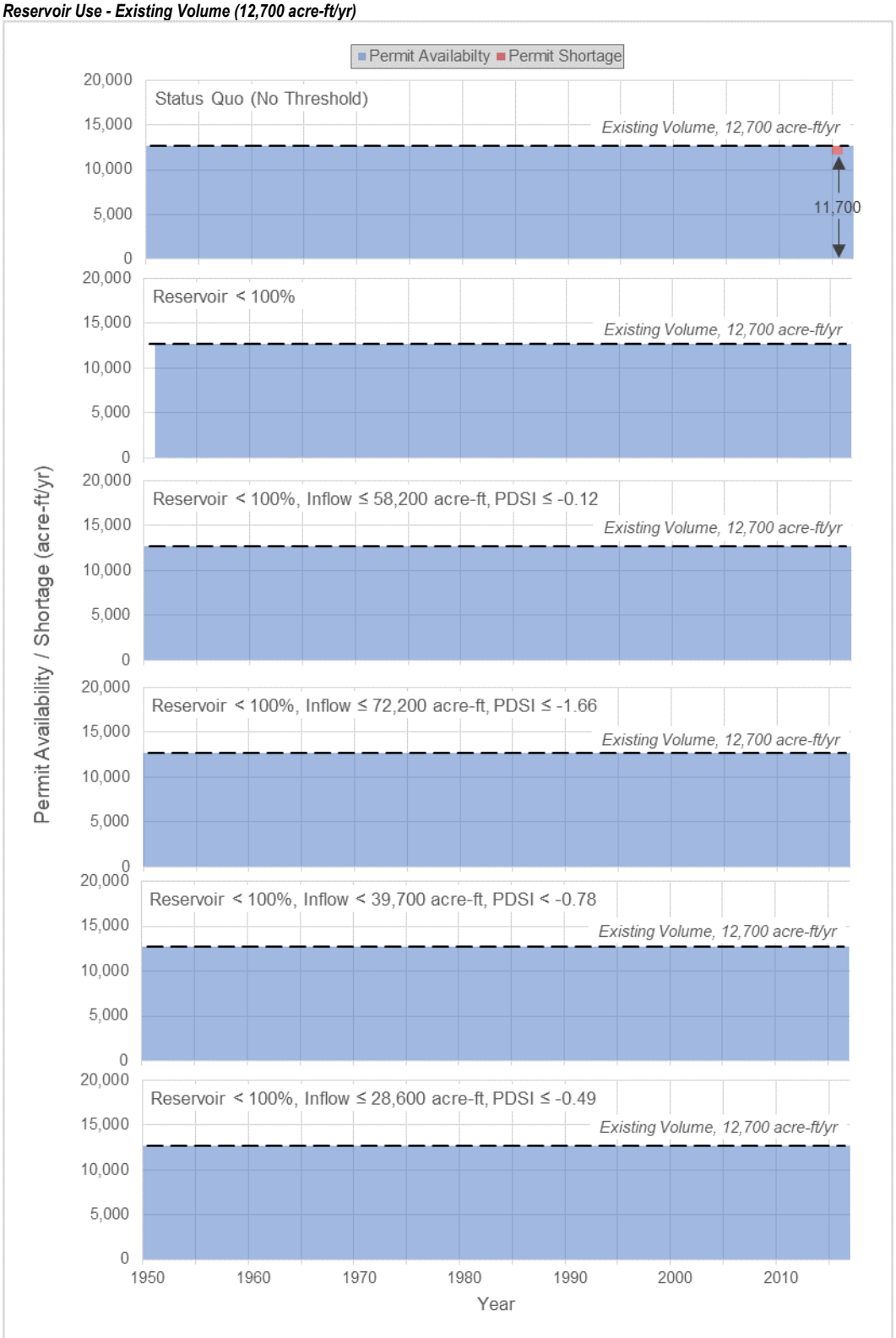

Figure 86. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

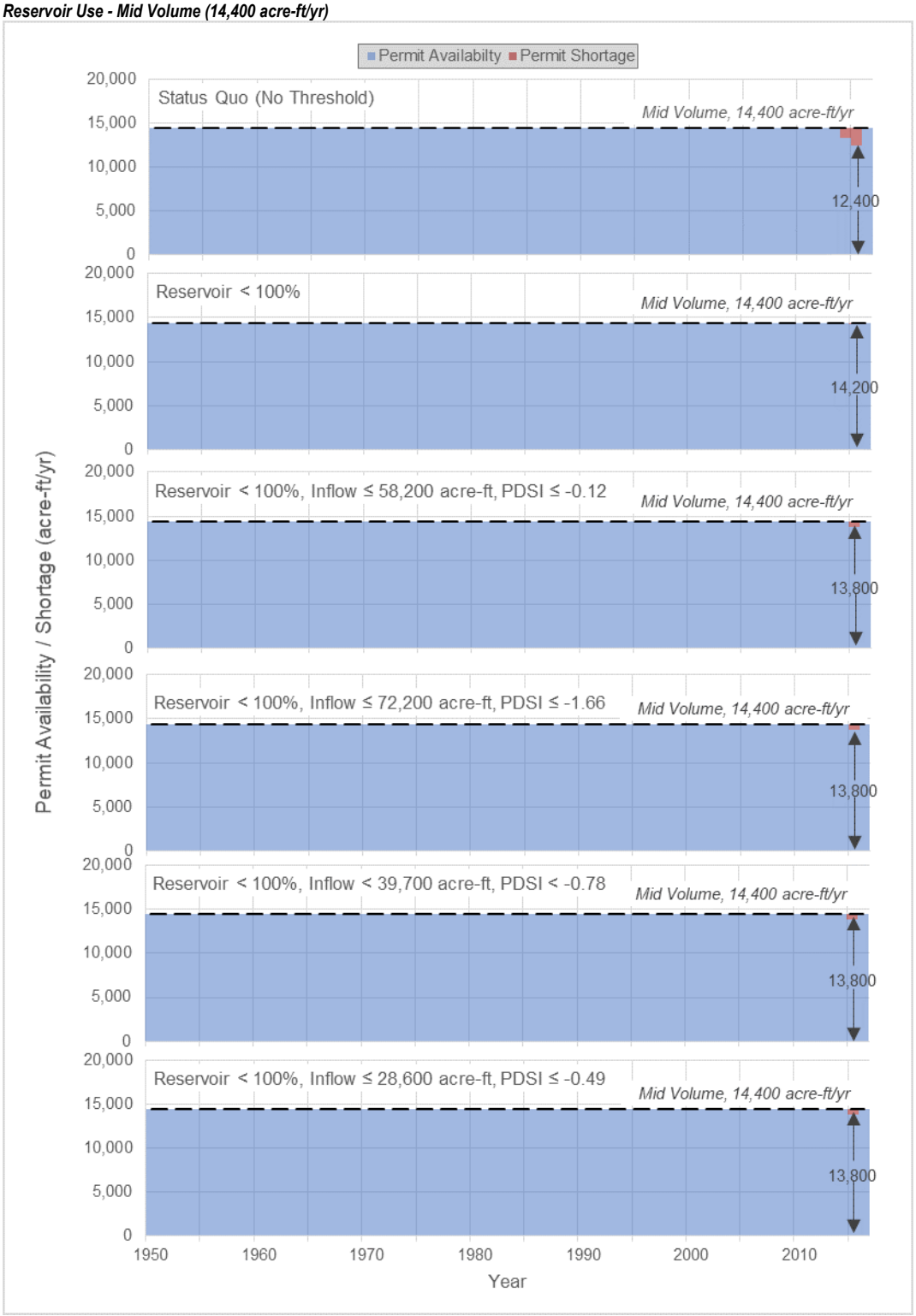

Figure 87. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

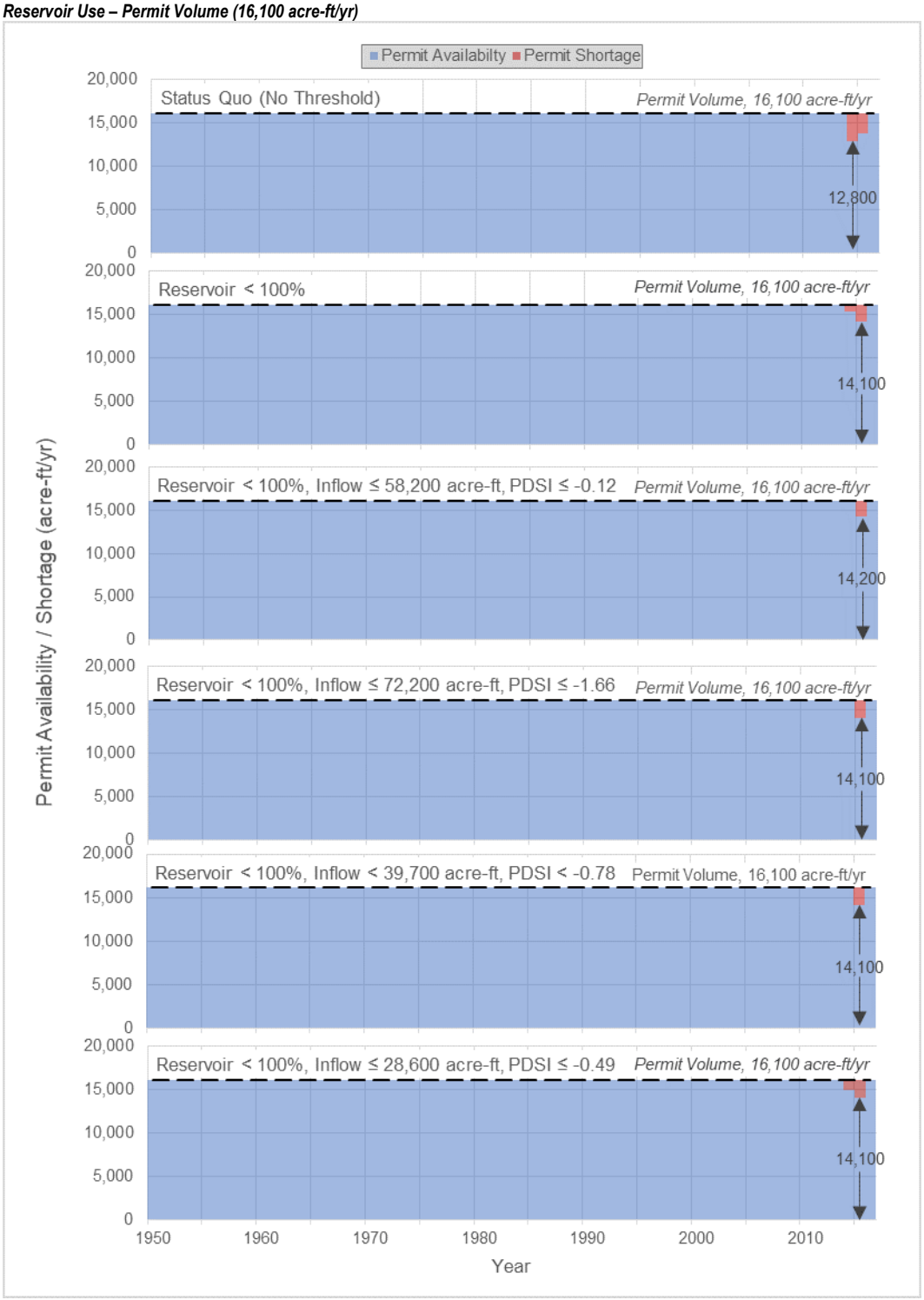

Figure 88. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

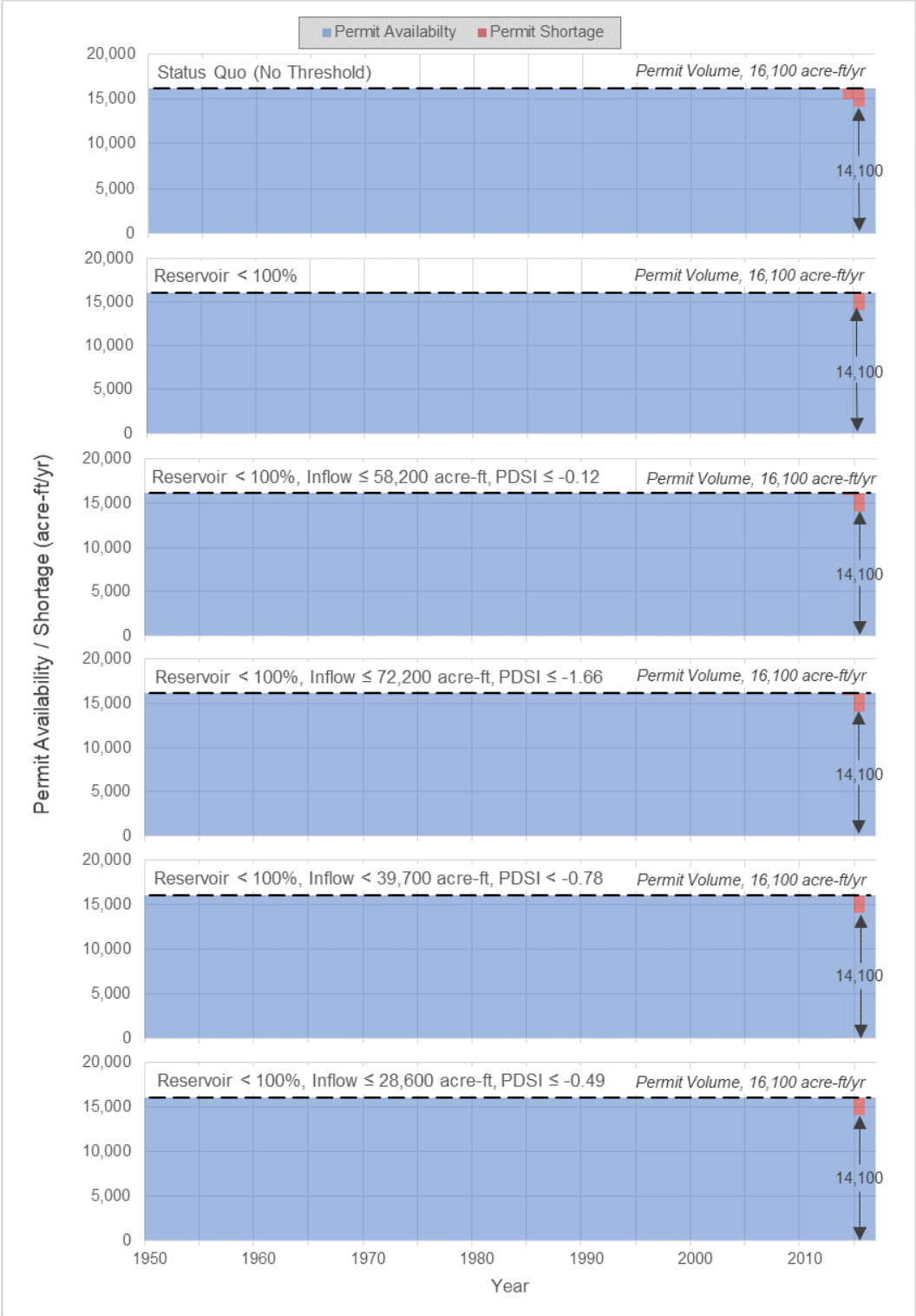

Figure 89. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

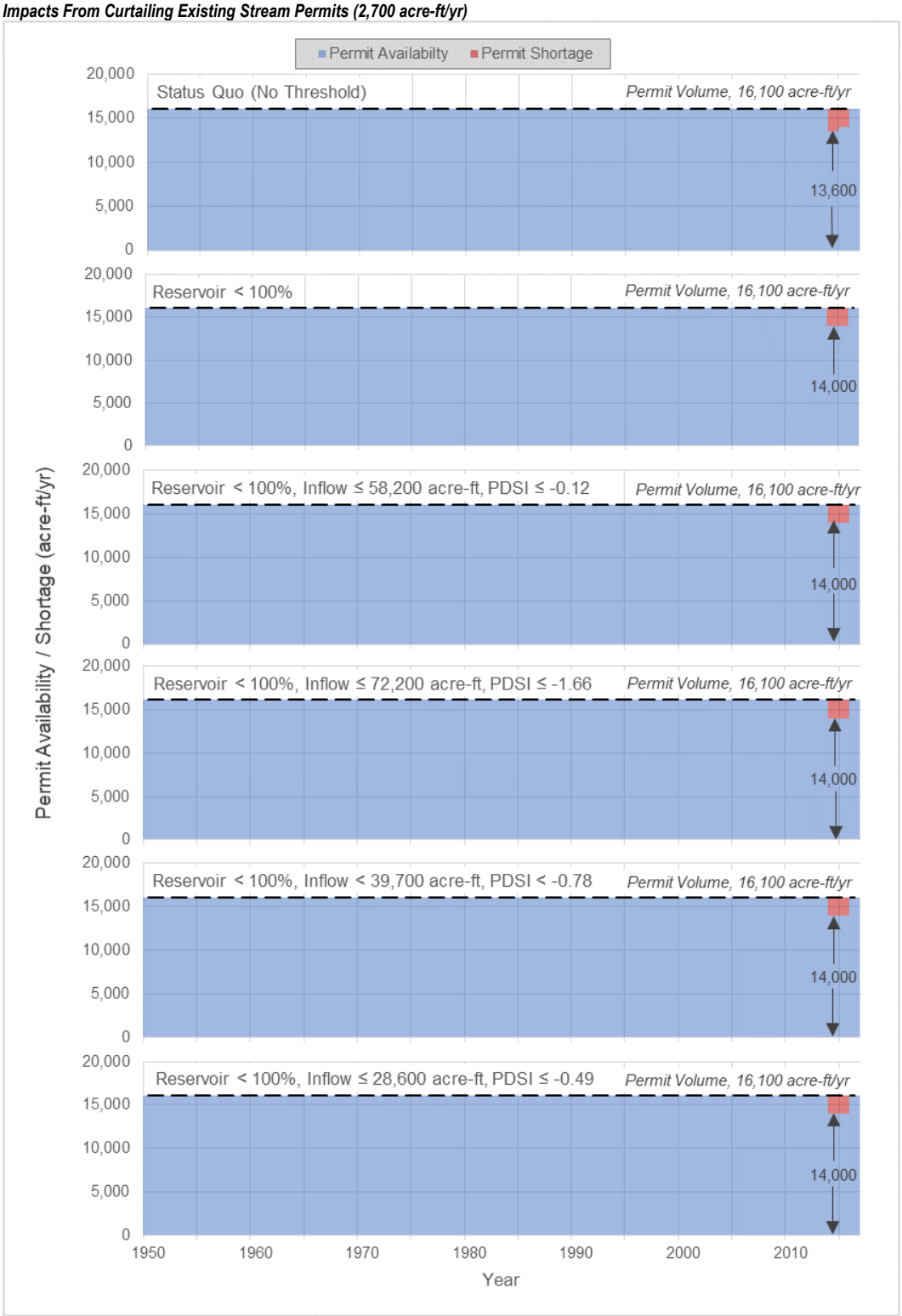

Figure 90. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

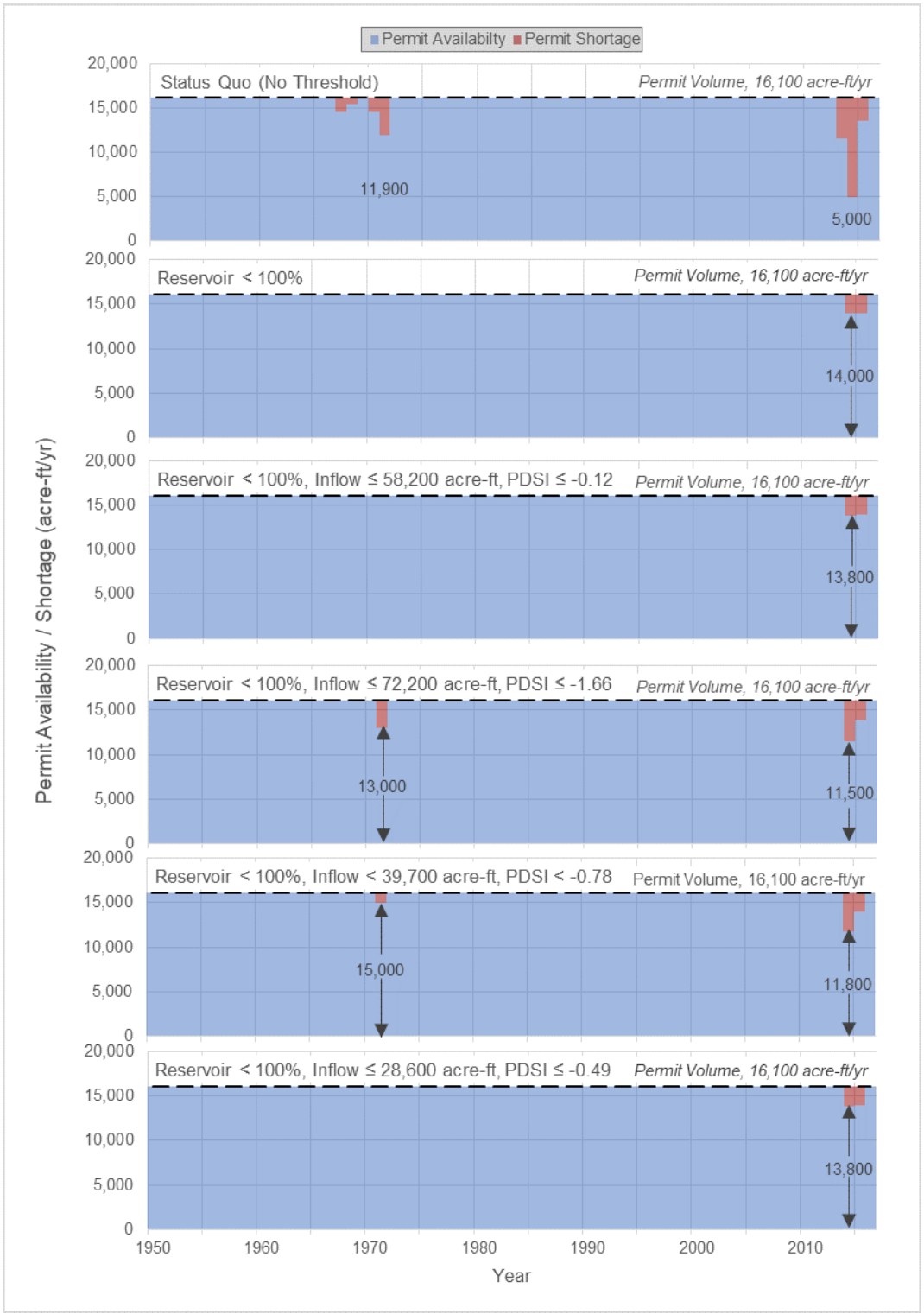

Figure 91. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (35,800 acre-ft/yr)

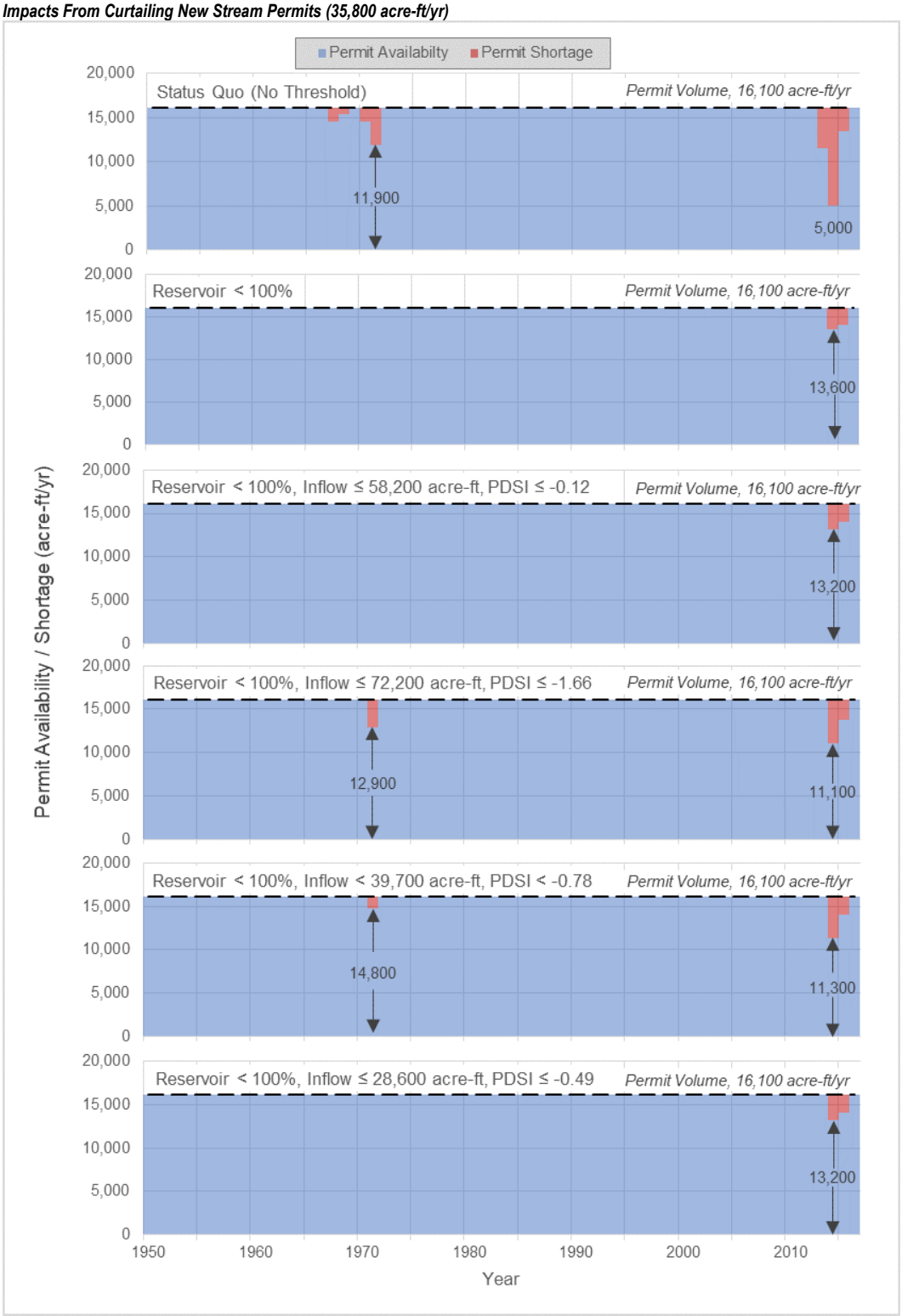

Figure 92. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

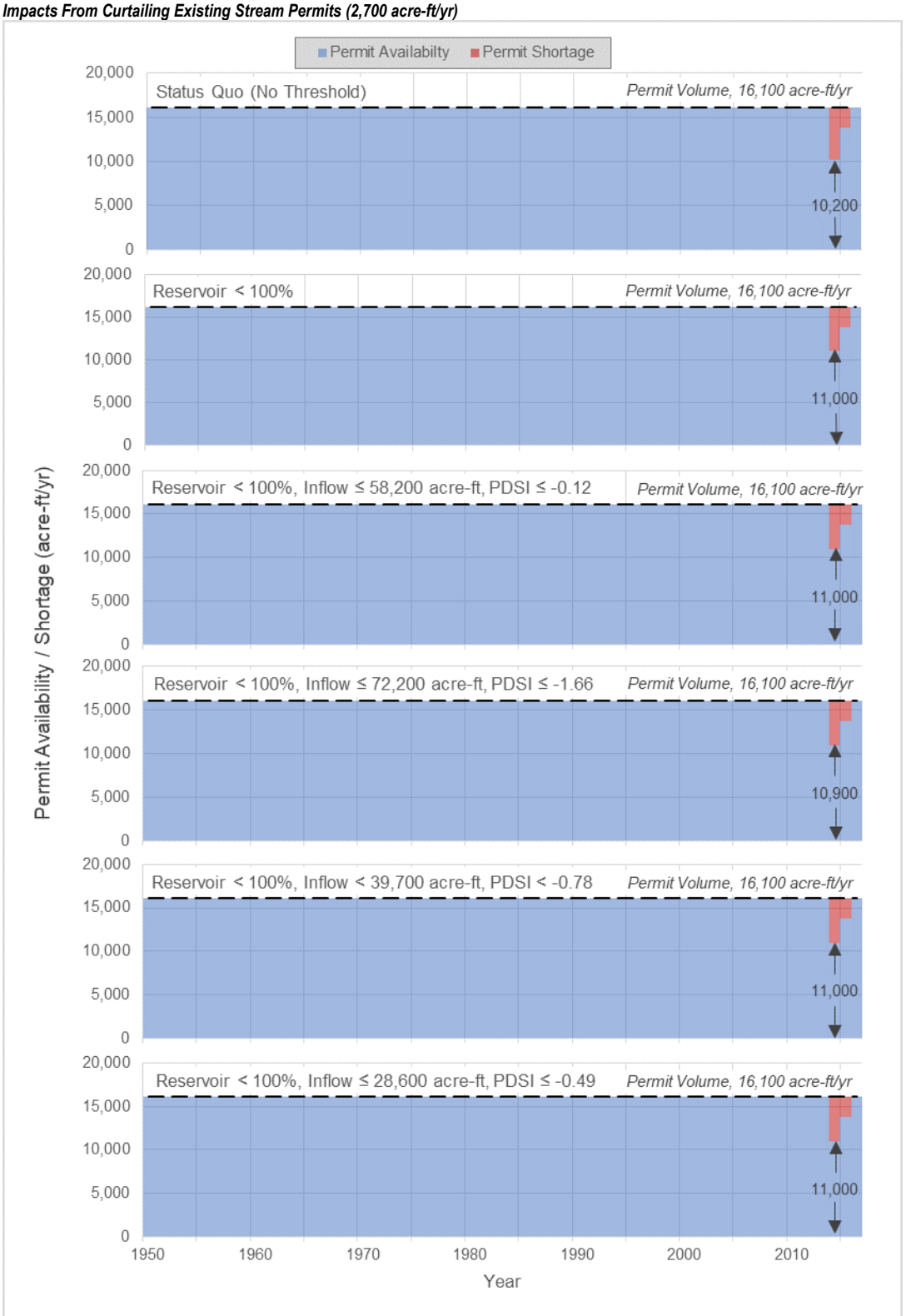

Figure 93. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 33,500 acre-ft/yr)

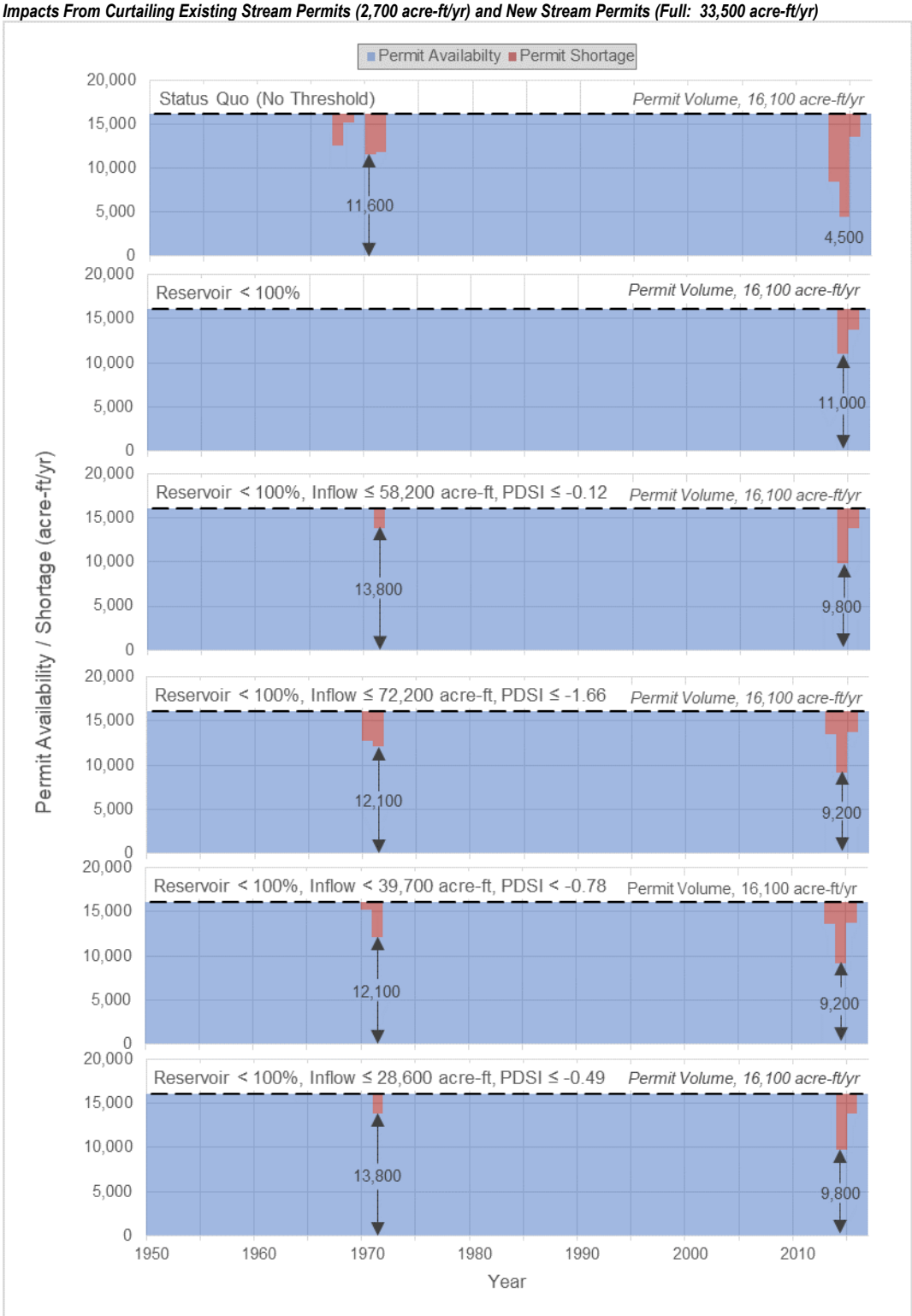

Figure 94. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (33,500) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing 33,500 acre-ft/yr of New Stream Permits

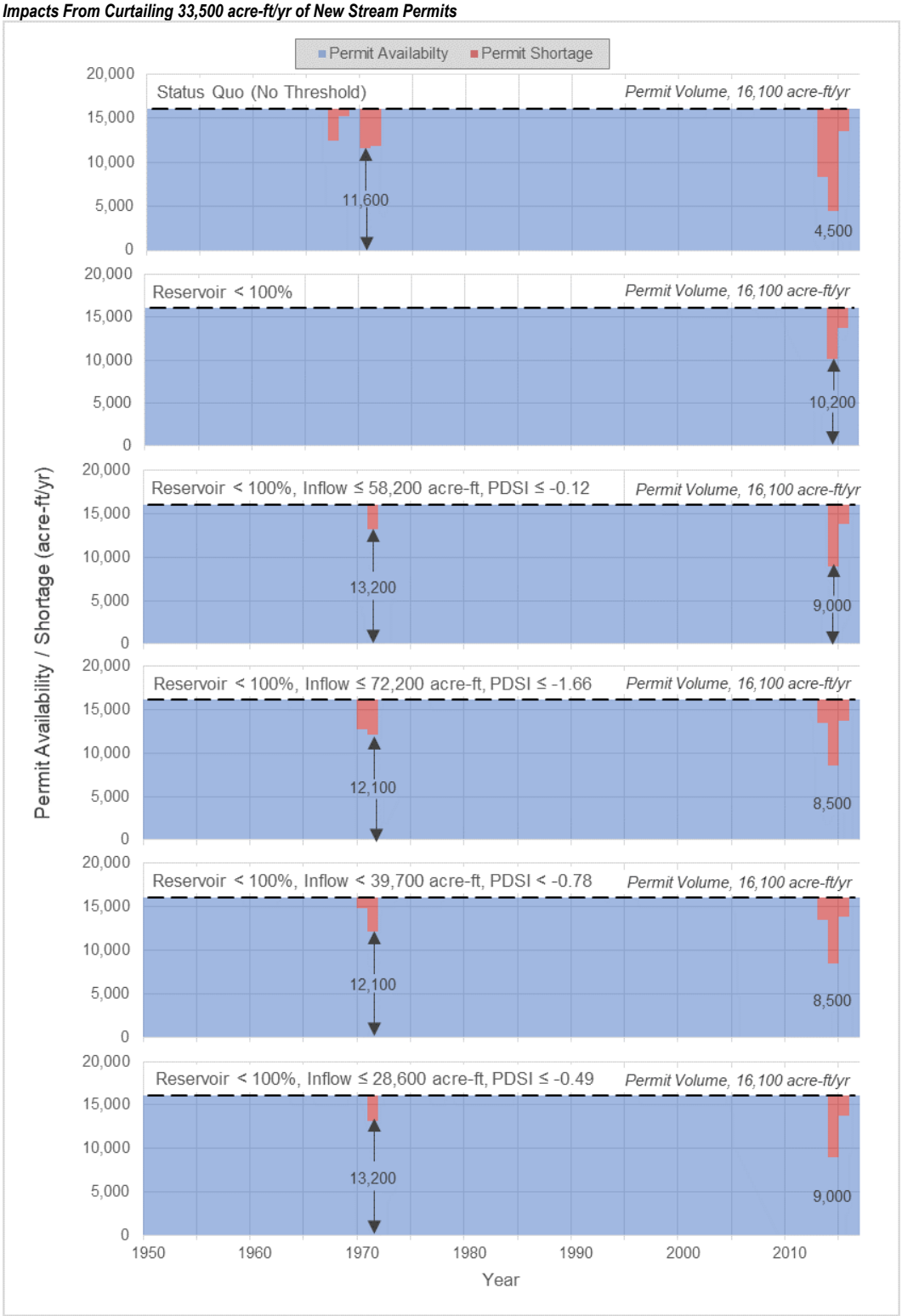

Figure 95. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (33,500) junior stream permits when Tom Steed Reservoir storage is below 100% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Curtailment Based on Less than or Equal to 90 Percent Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

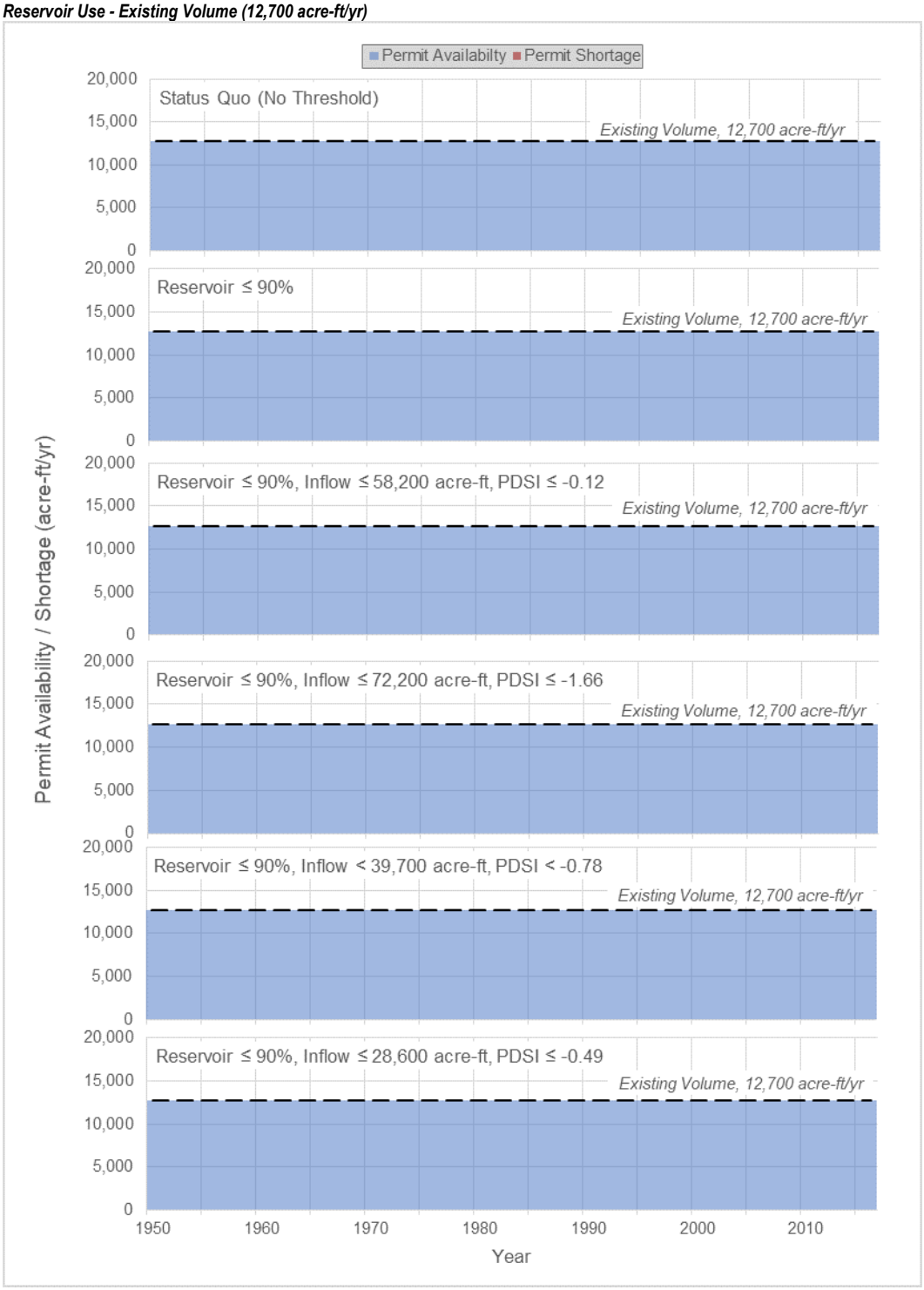

Figure 96. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

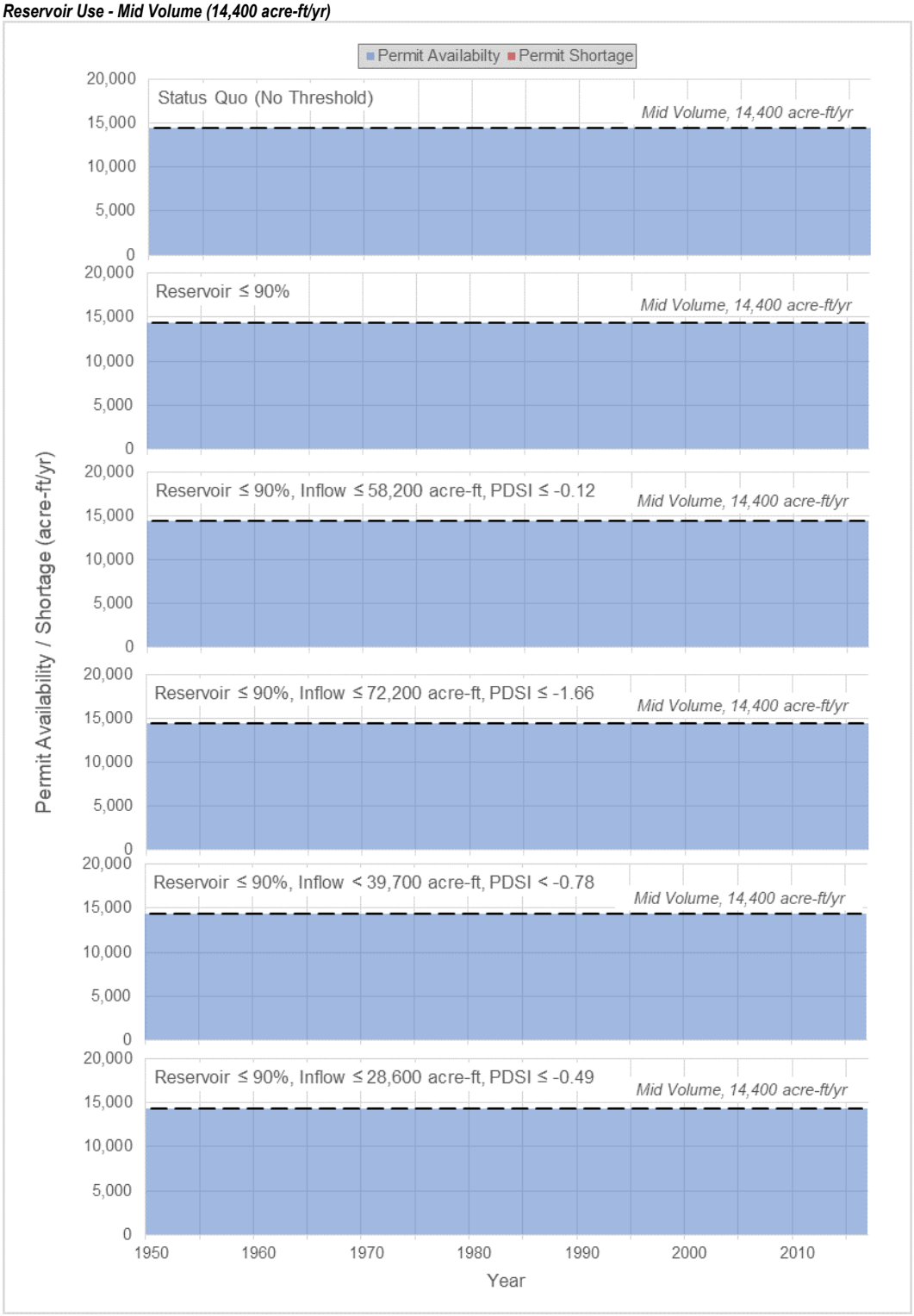

Figure 97. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

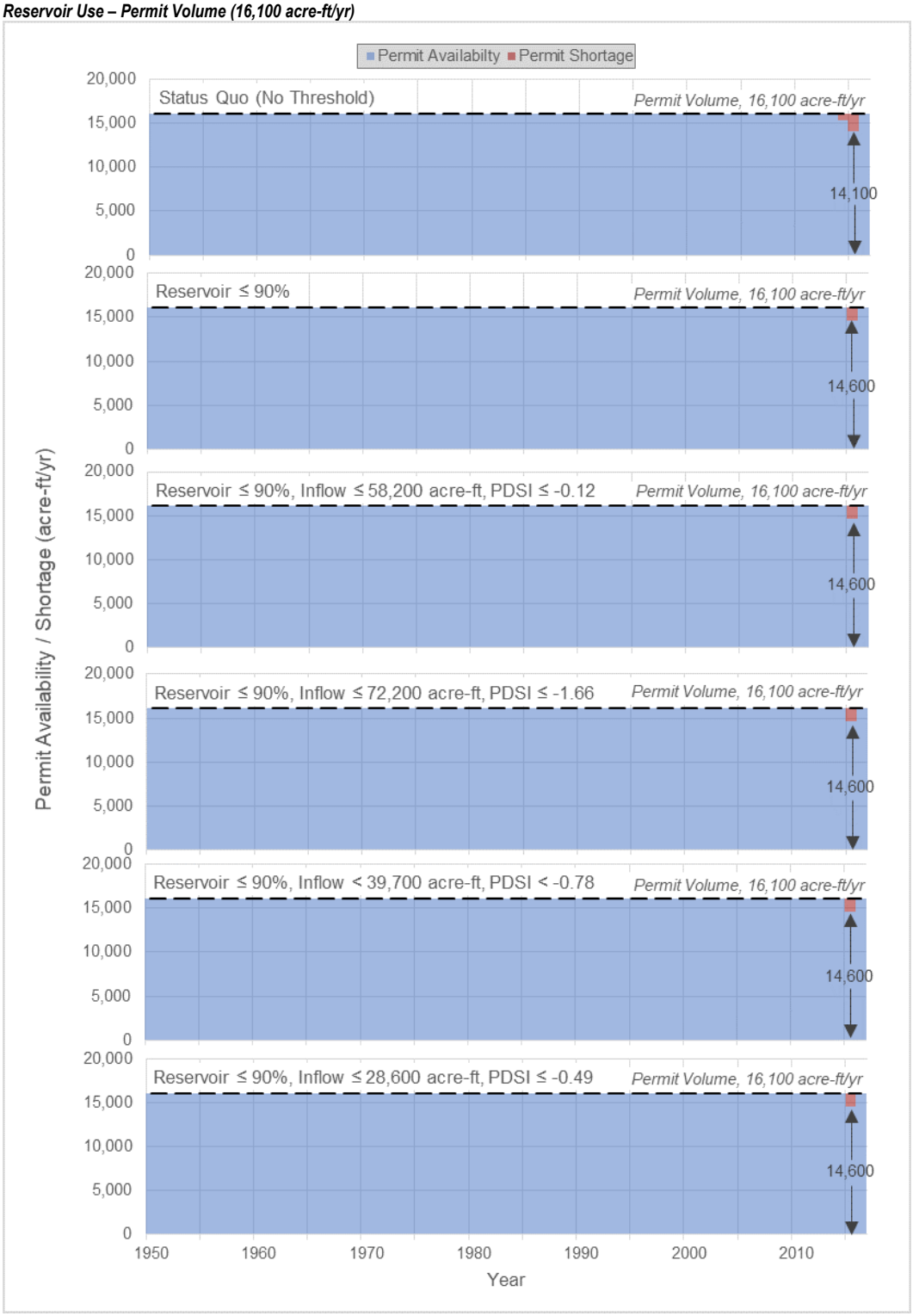

Figure 98. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

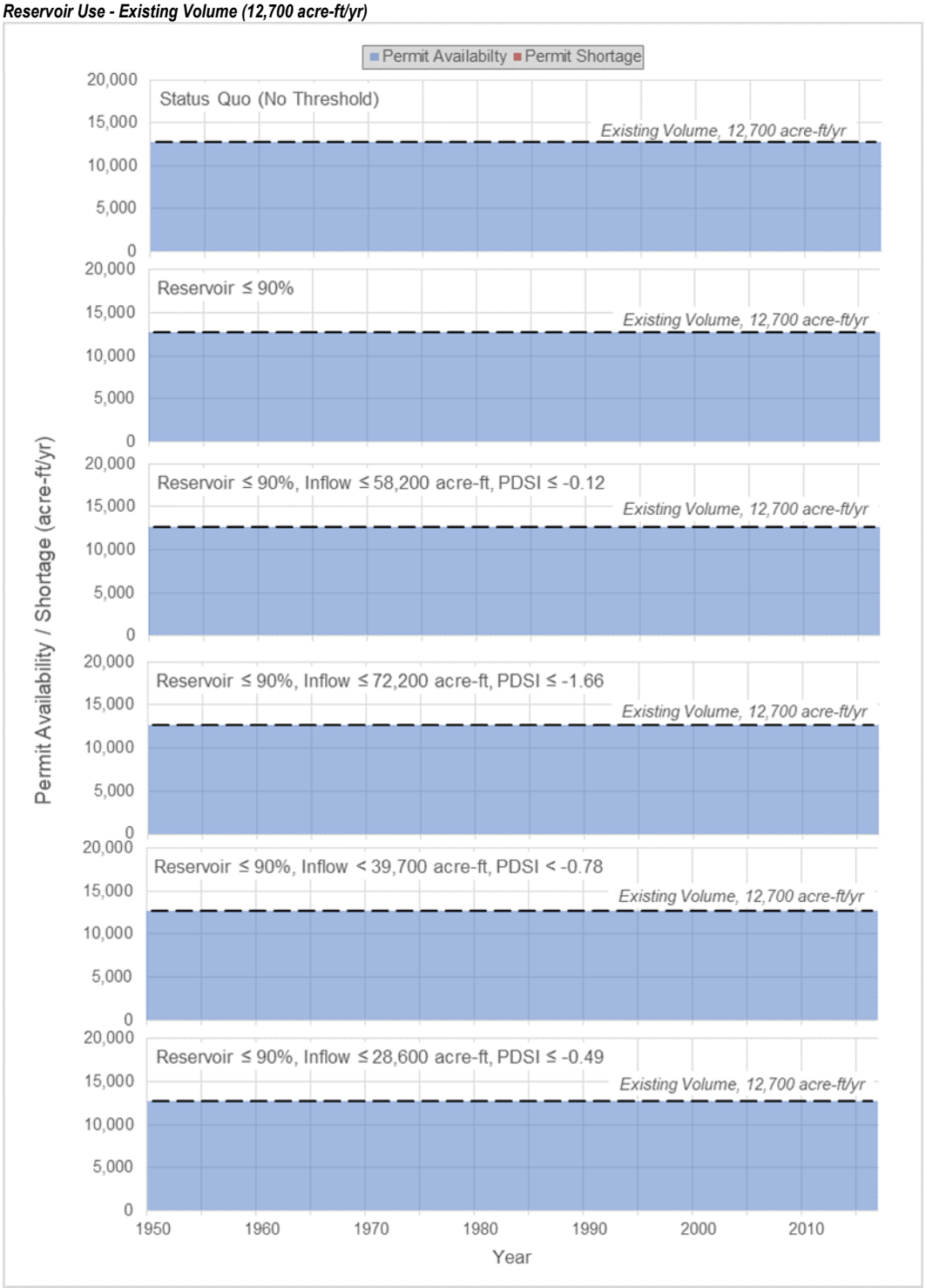

Figure 99. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

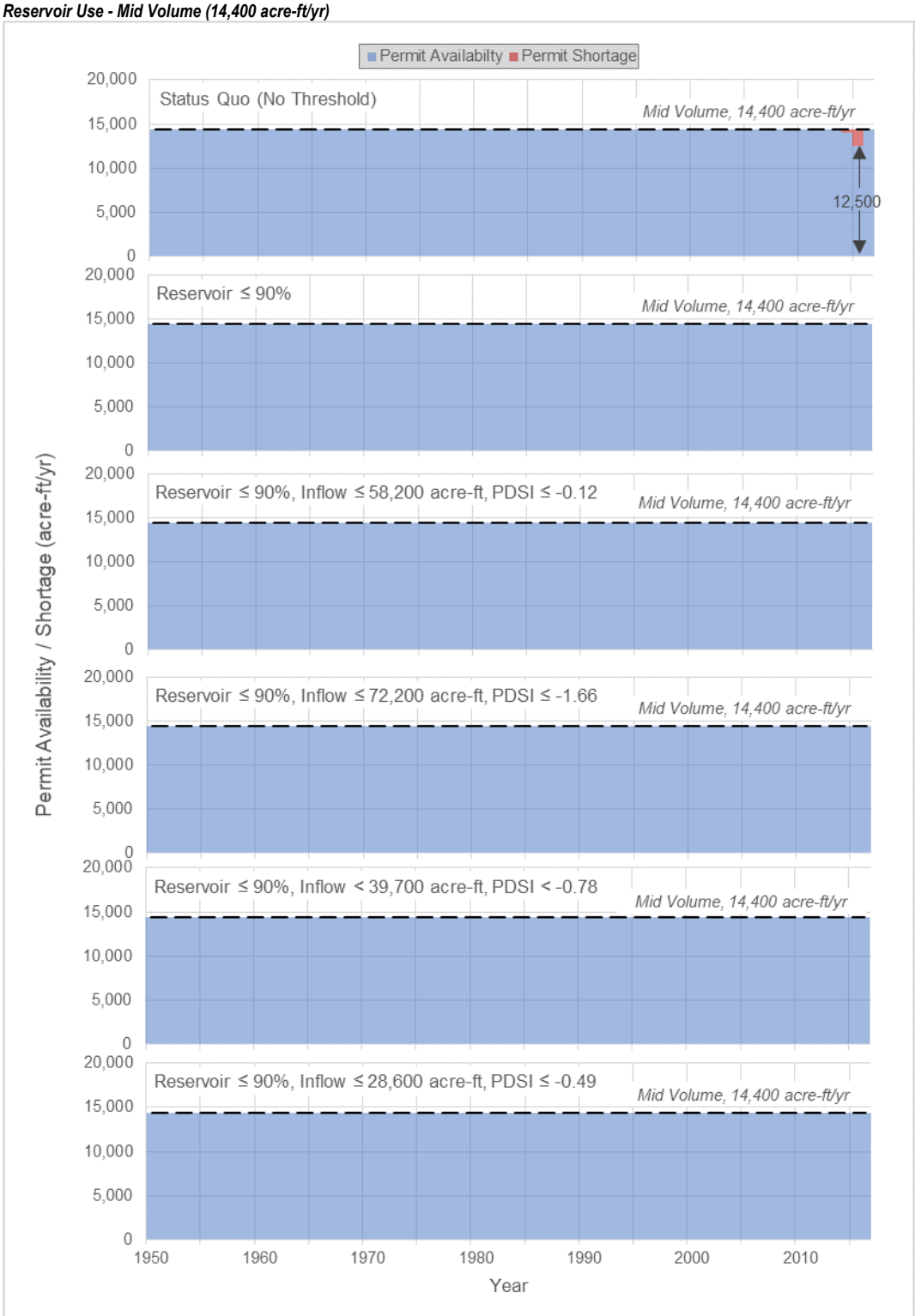

Figure 100. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

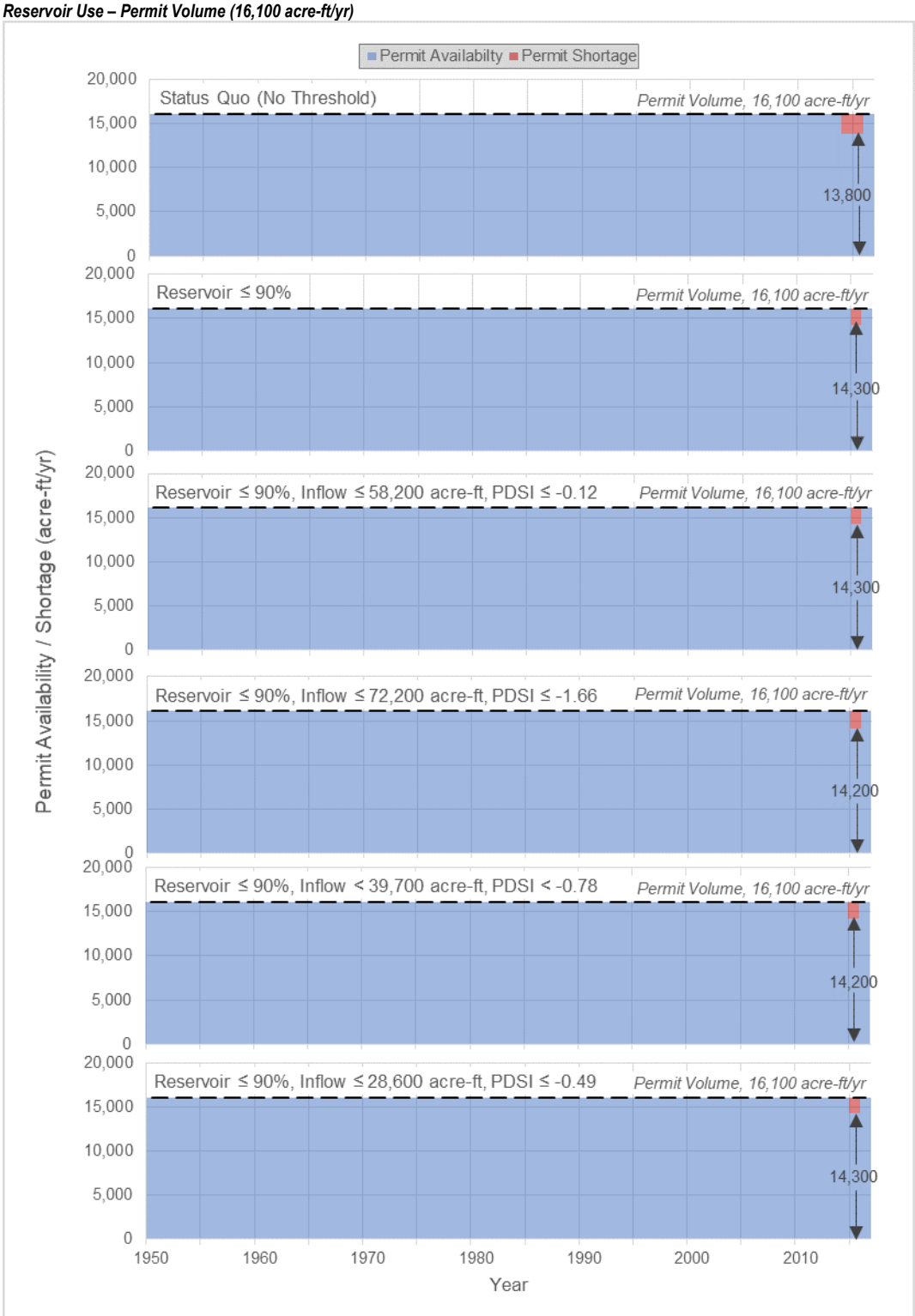

Figure 101. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

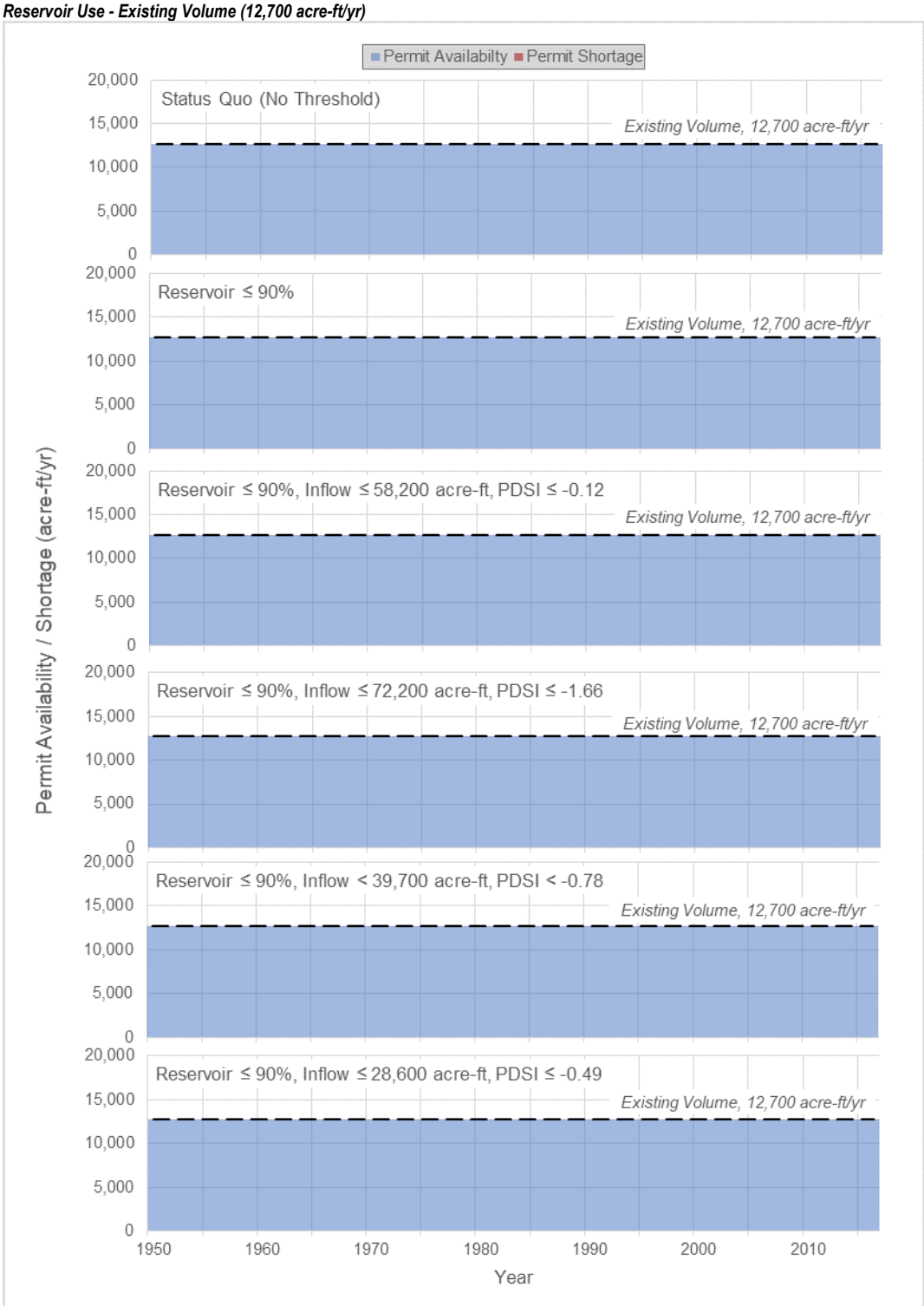

Figure 102. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

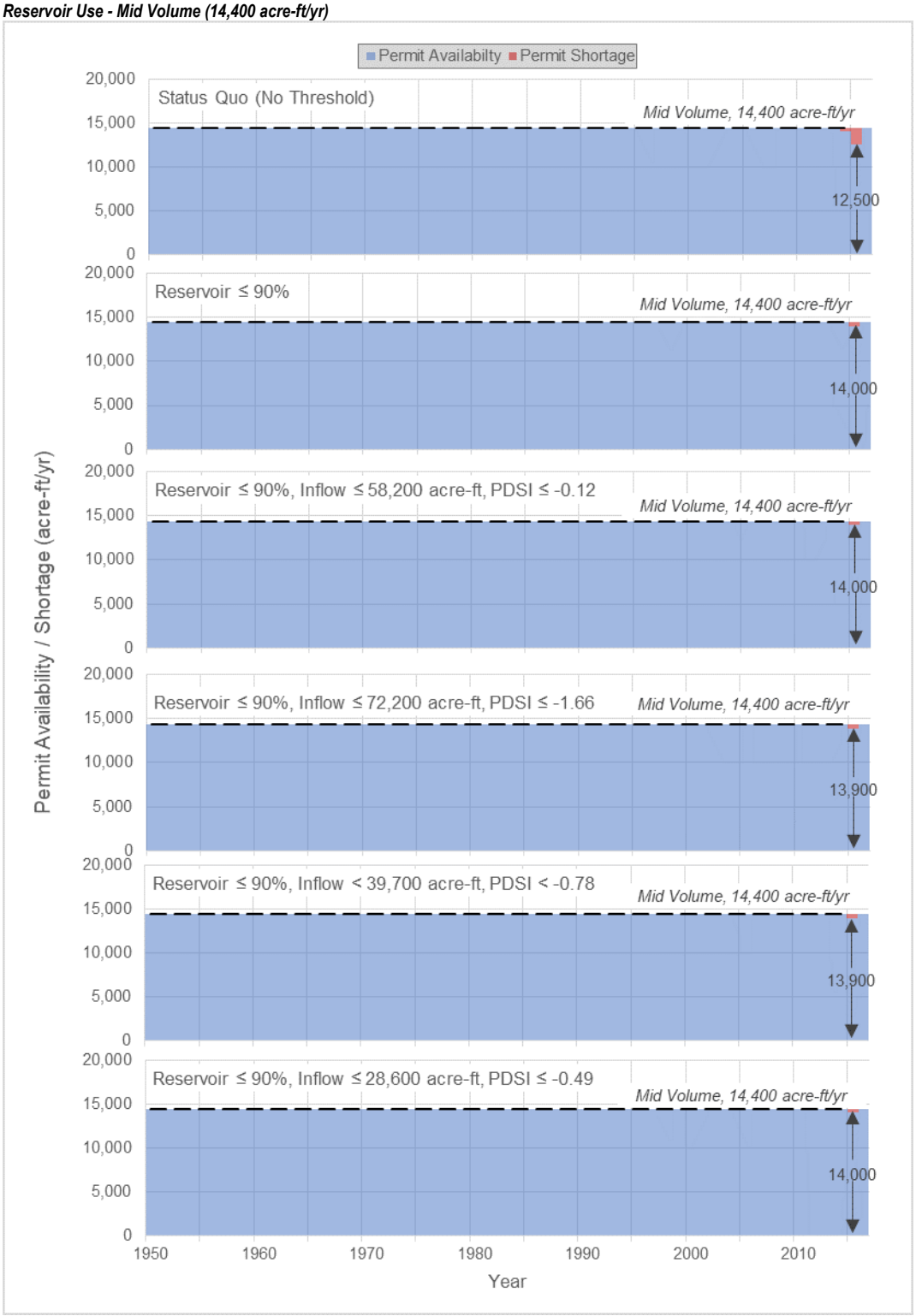

Figure 103. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

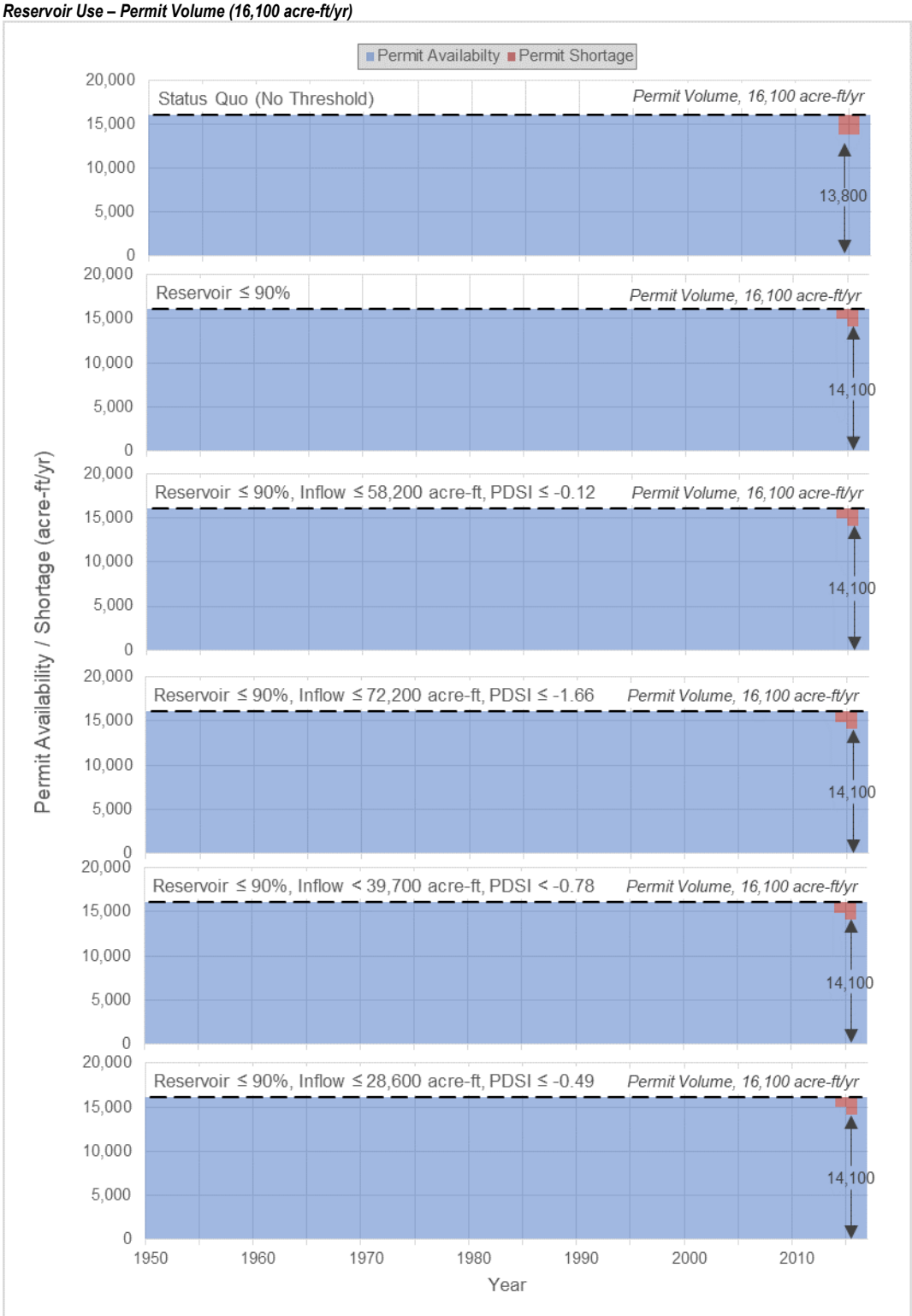

Figure 104. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

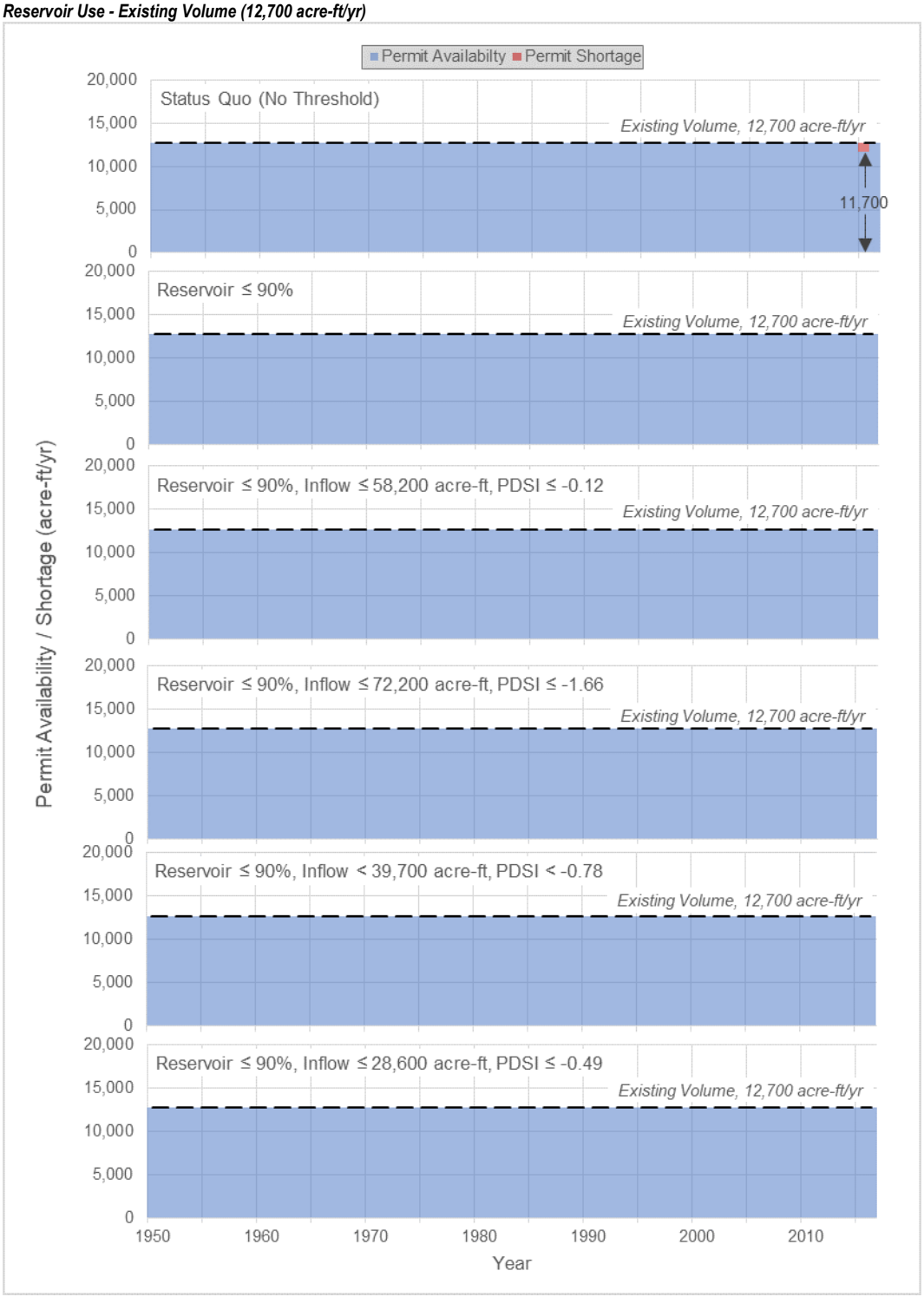

Figure 105. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

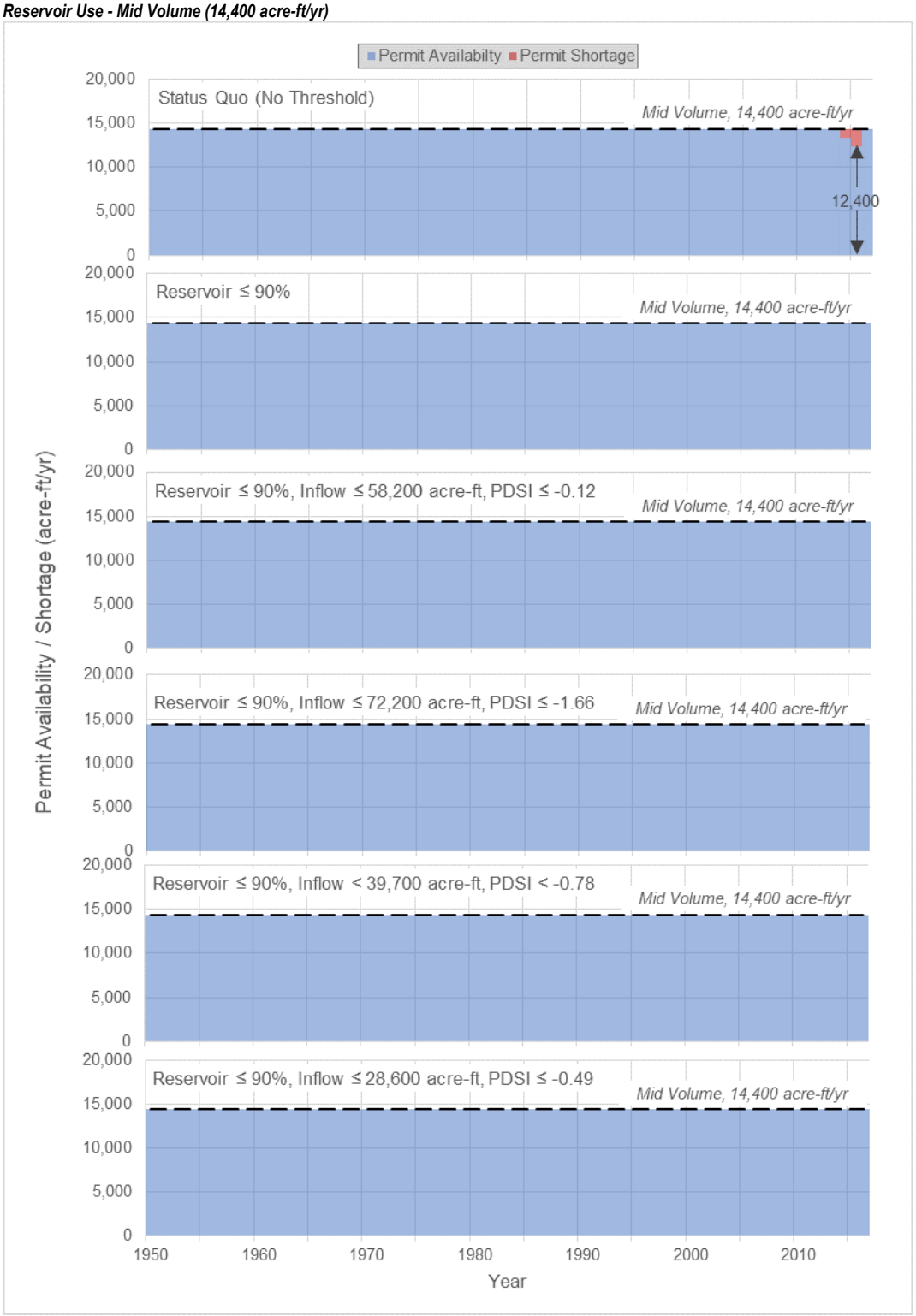

Figure 106. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Permit Volume (16,100 acre-ft/yr)

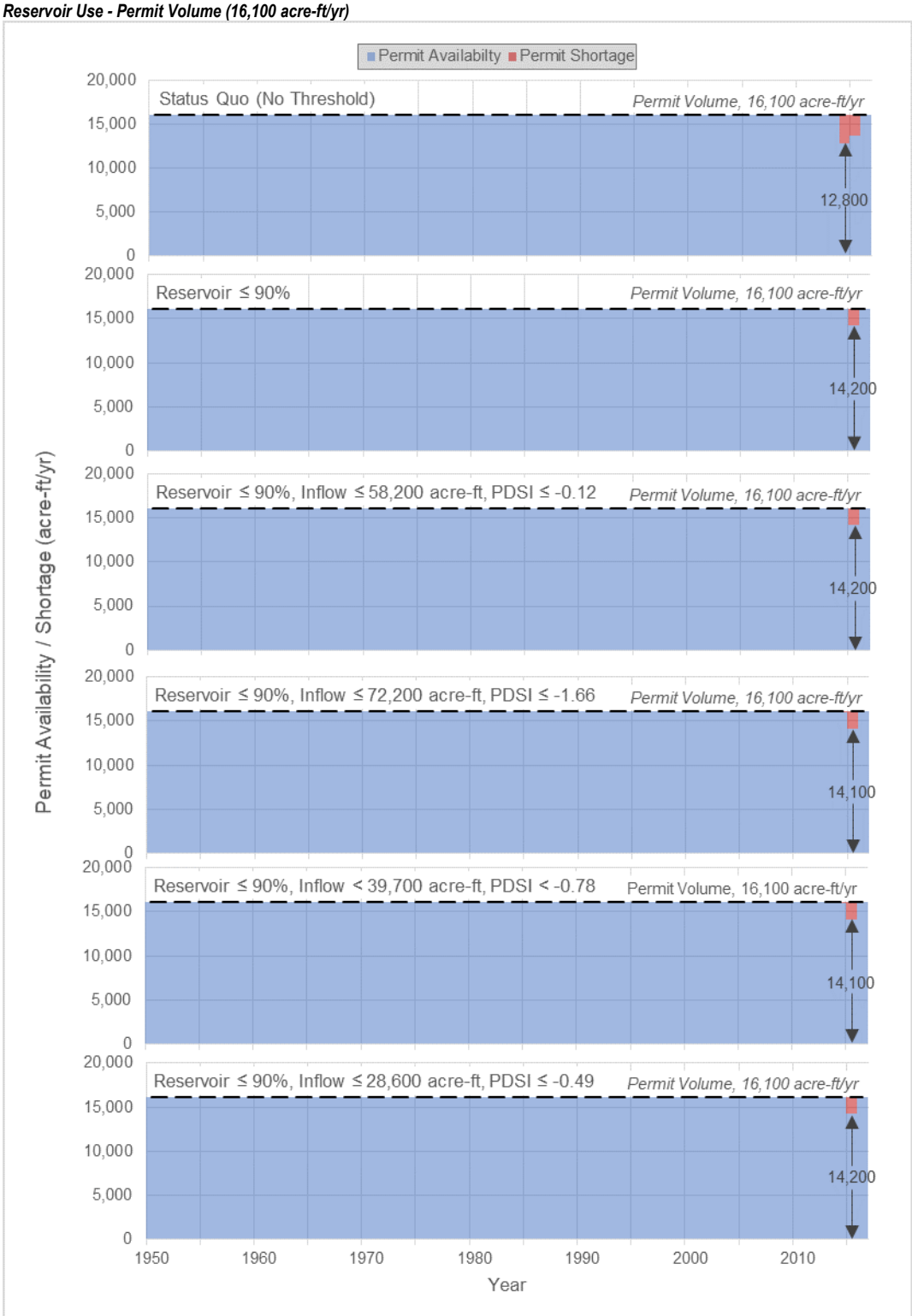

Figure 107. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

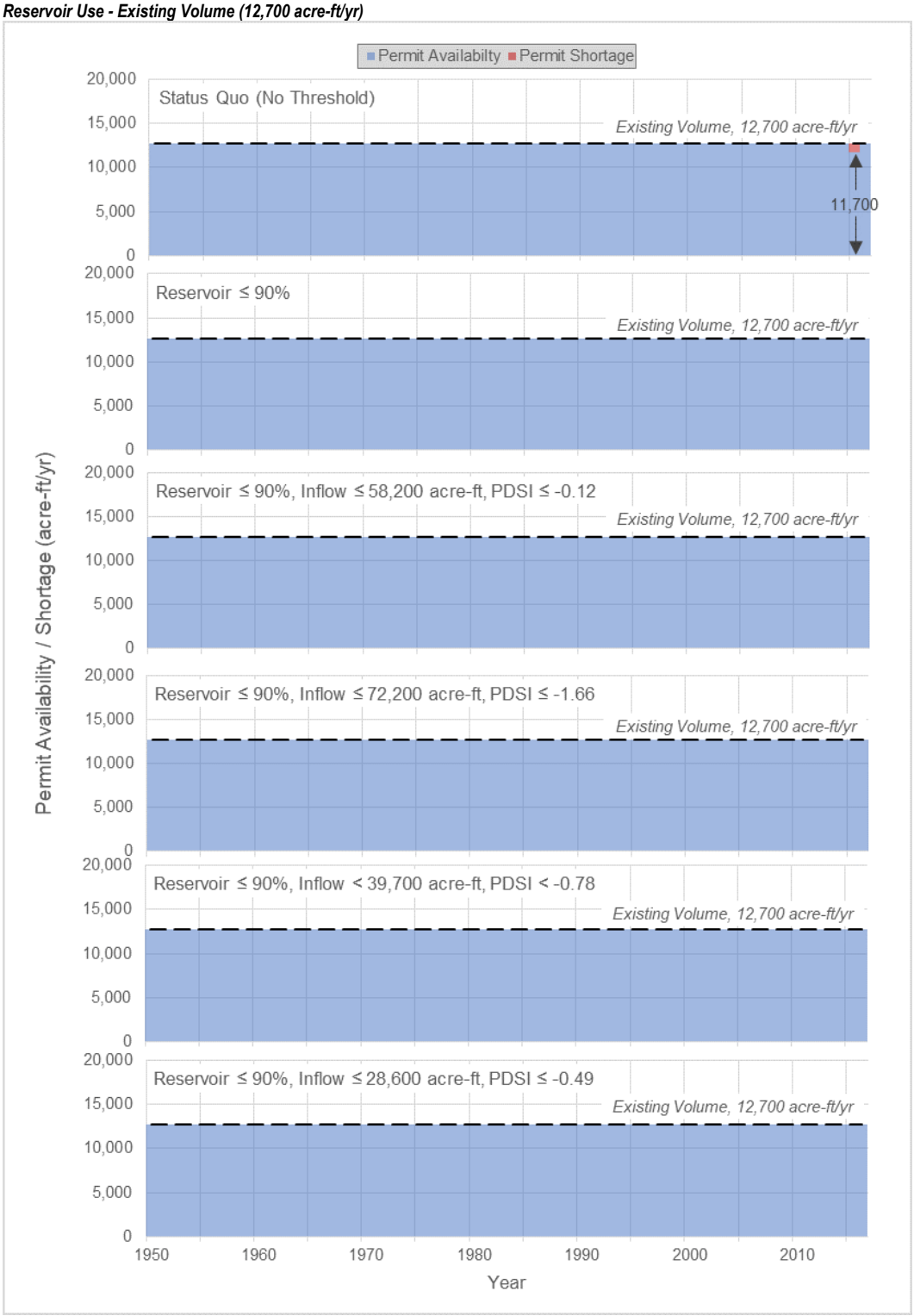

Figure 108. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

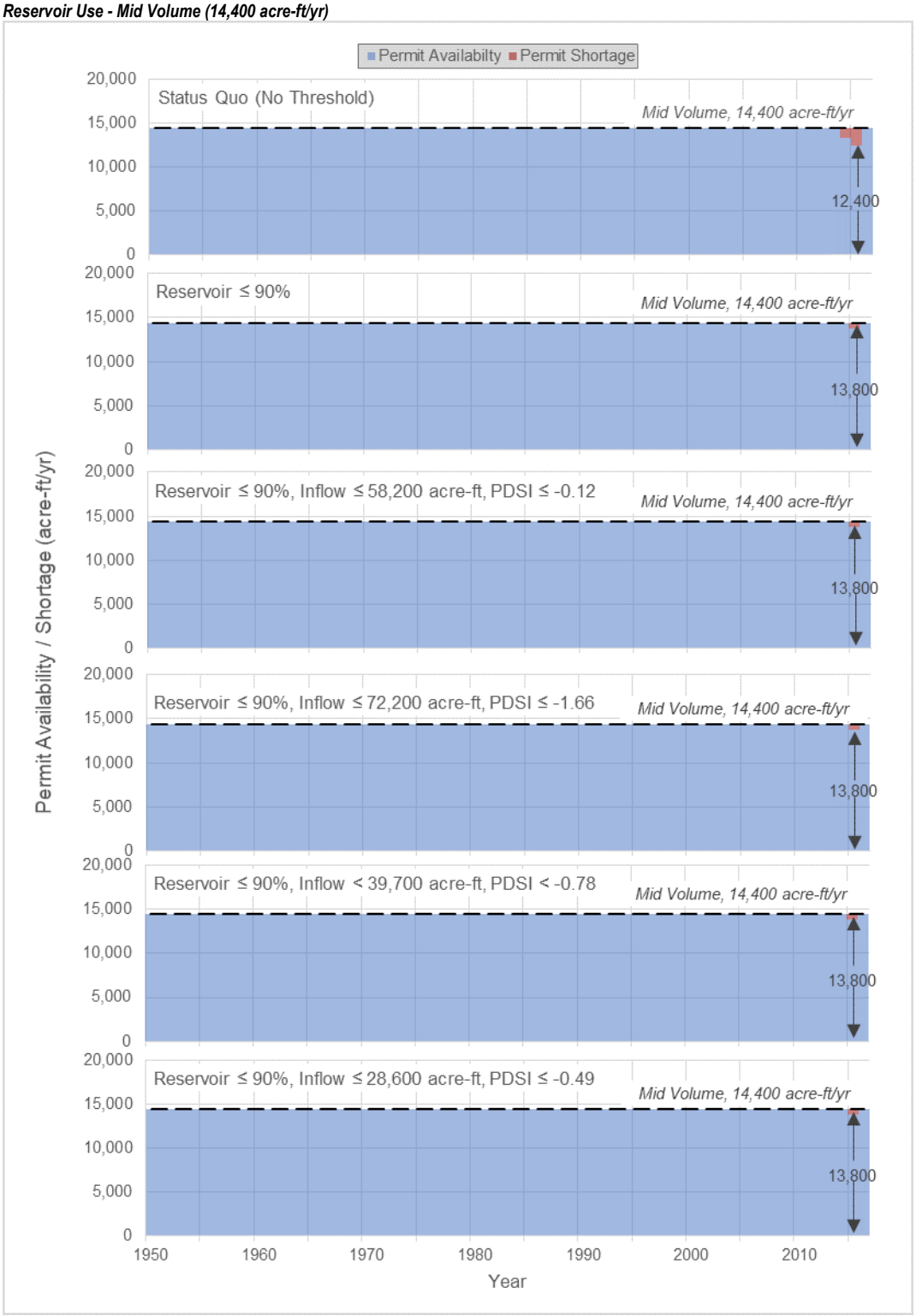

Figure 109. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

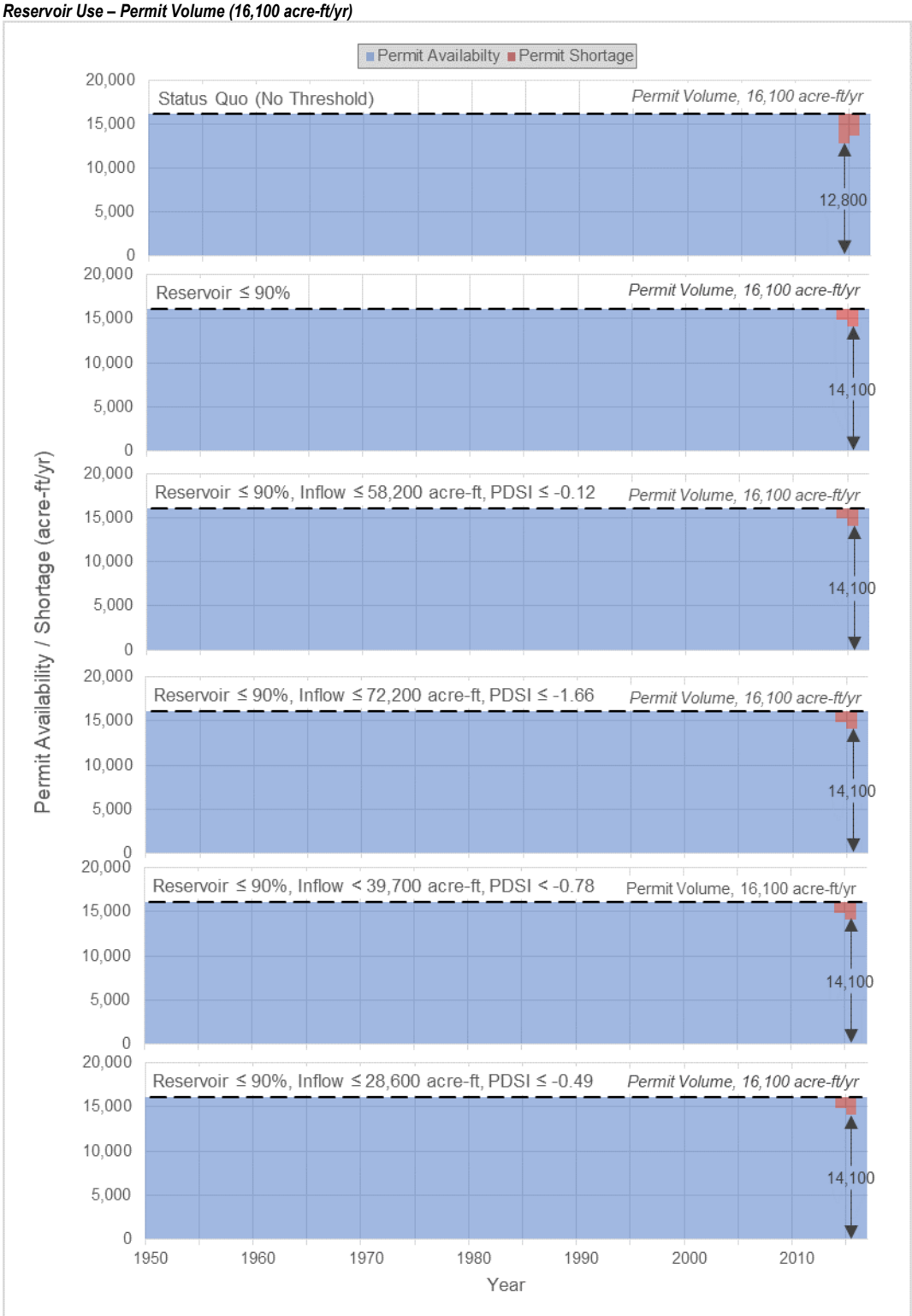

Figure 110. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

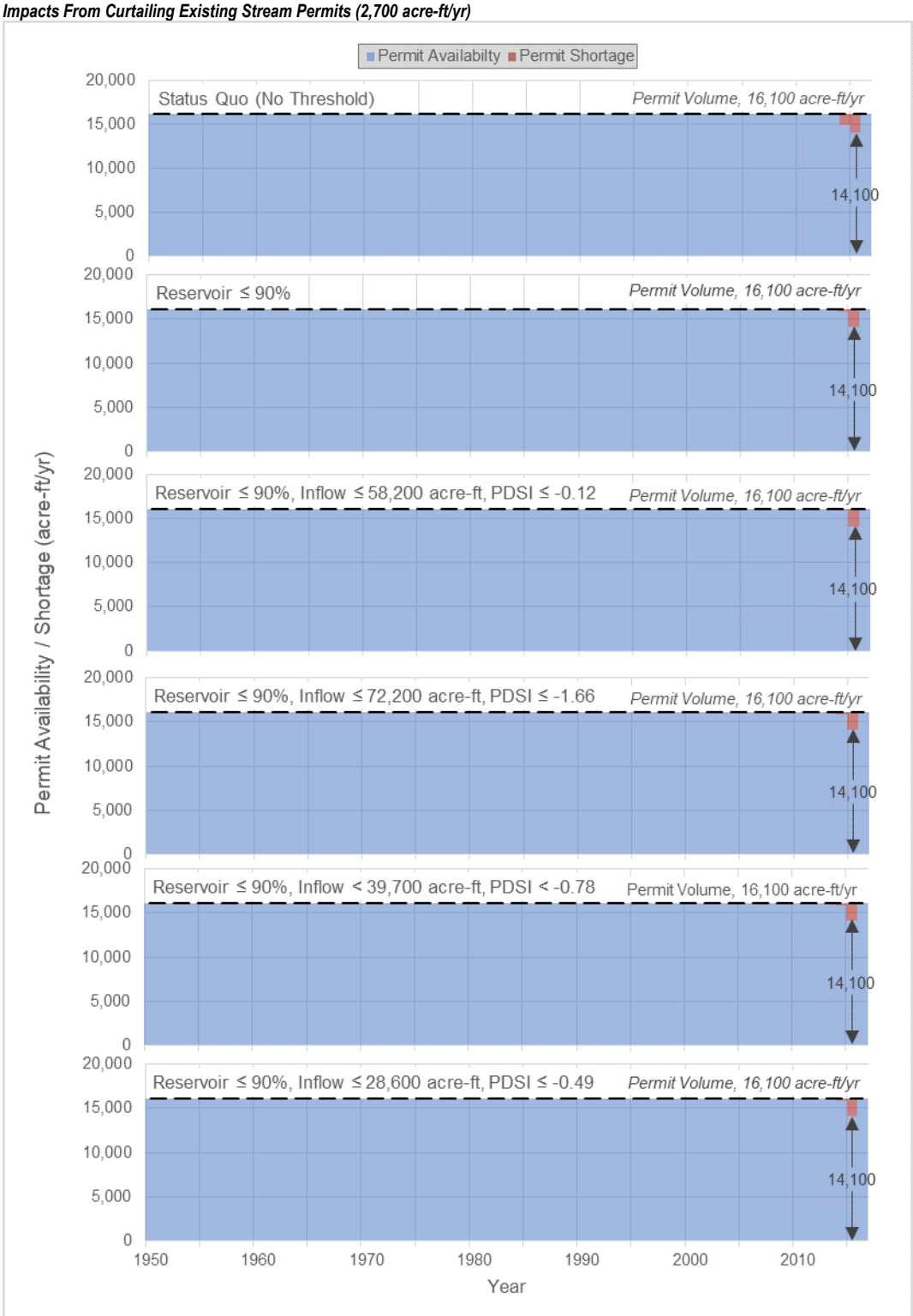

Figure 111. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

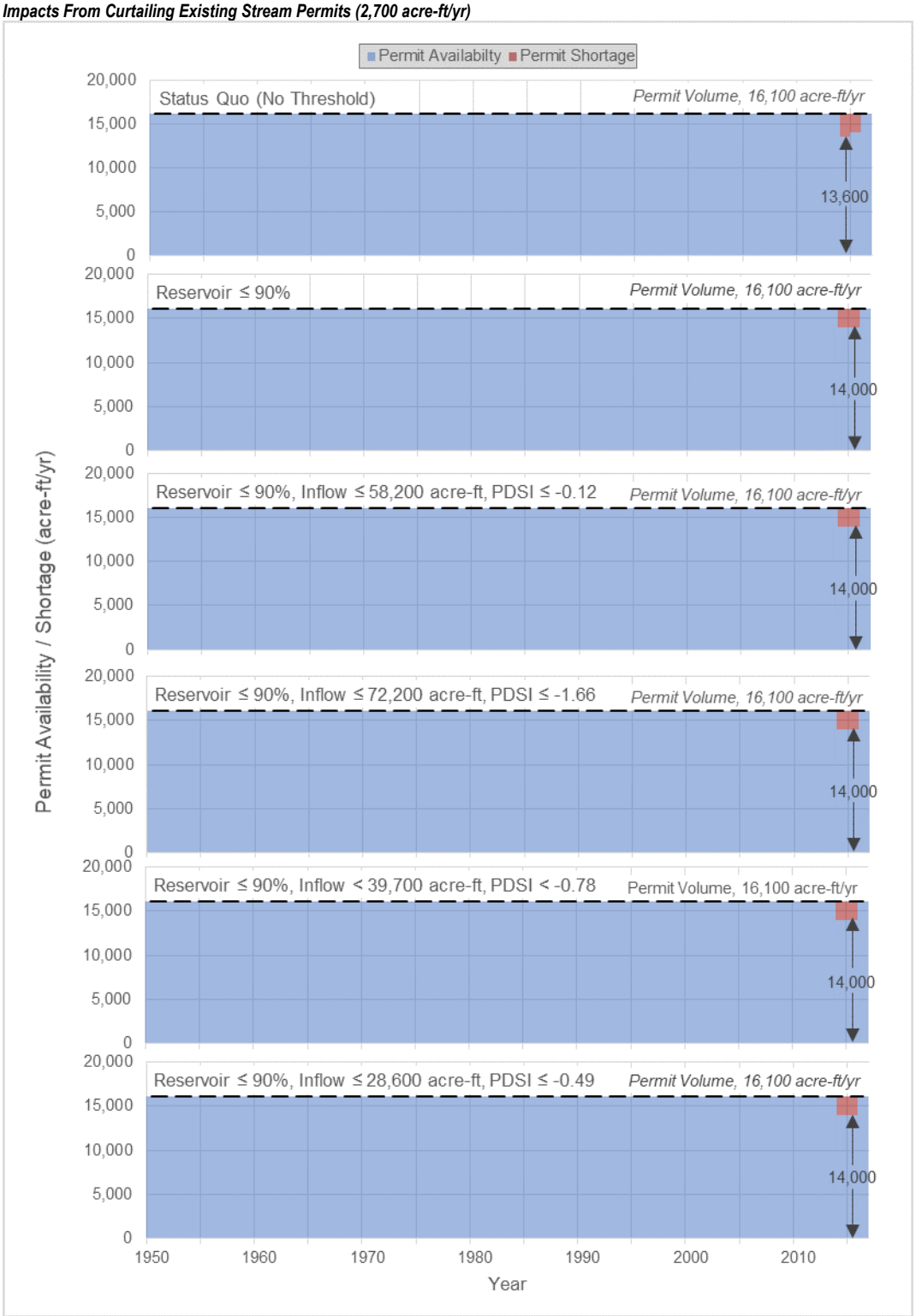

Figure 112. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 35,800 acre-ft/yr)

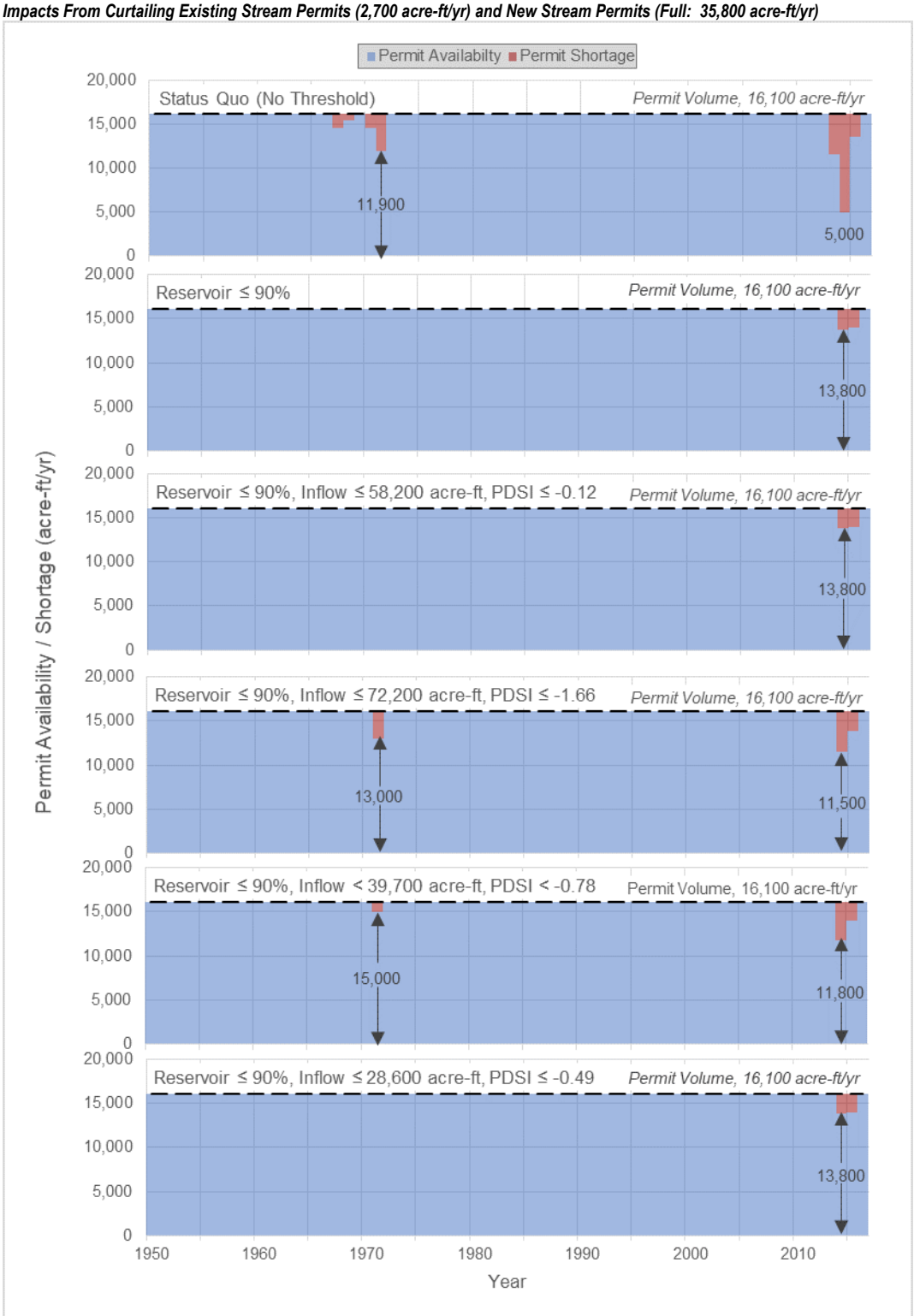

Figure 113. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (35,800 acre-ft/yr)

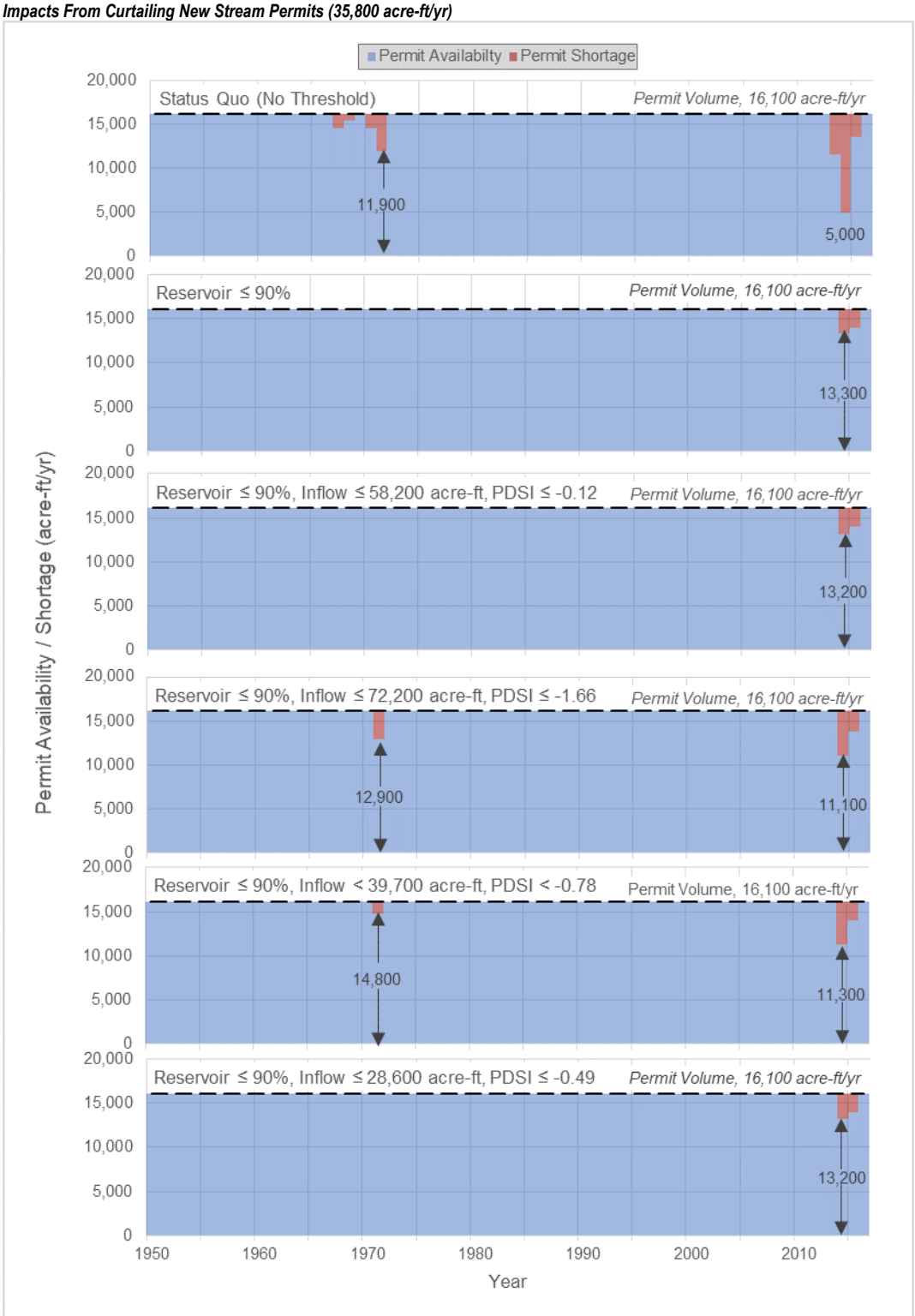

Figure 114. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

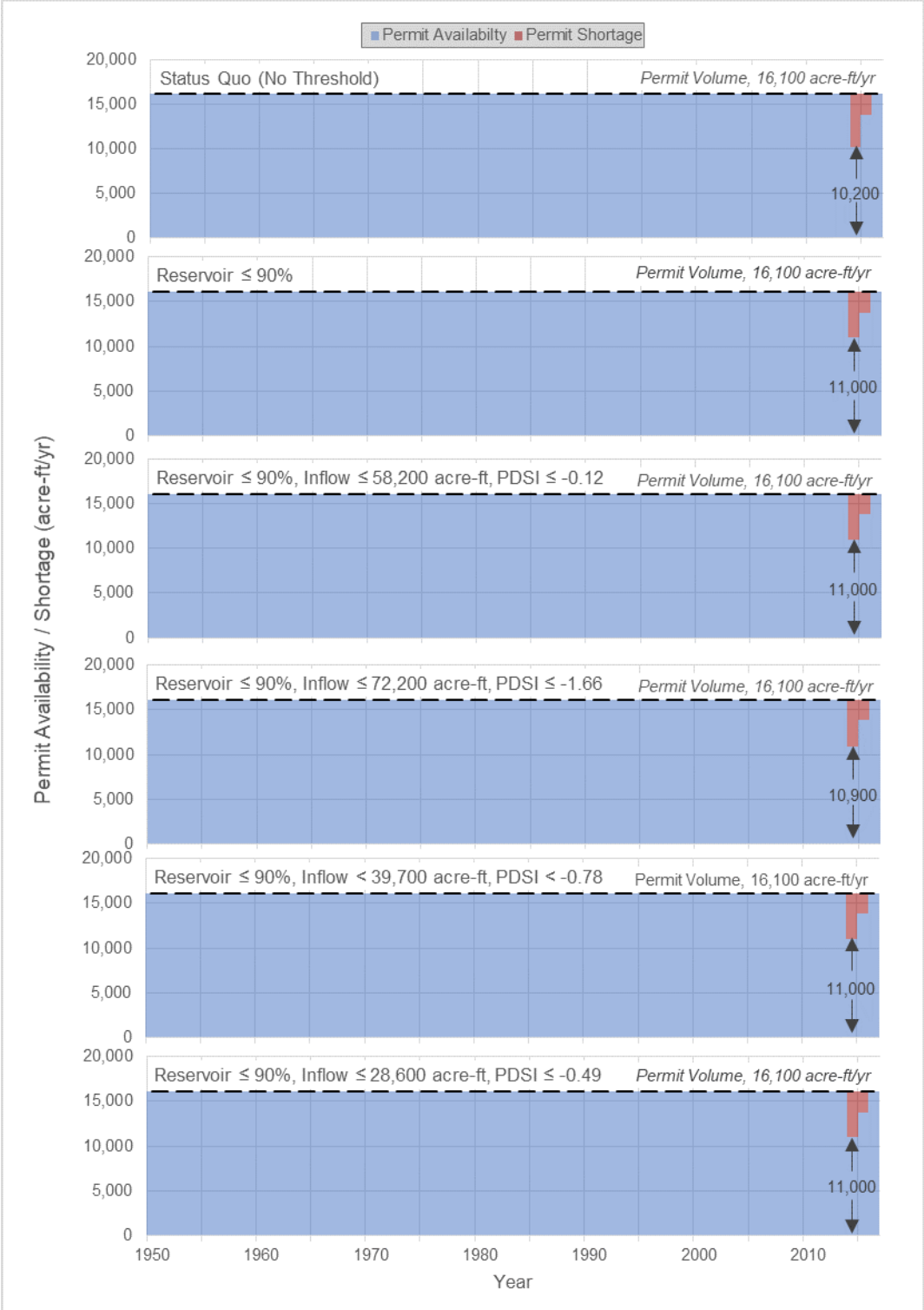

Figure 115. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 33,500 acre-ft/yr)

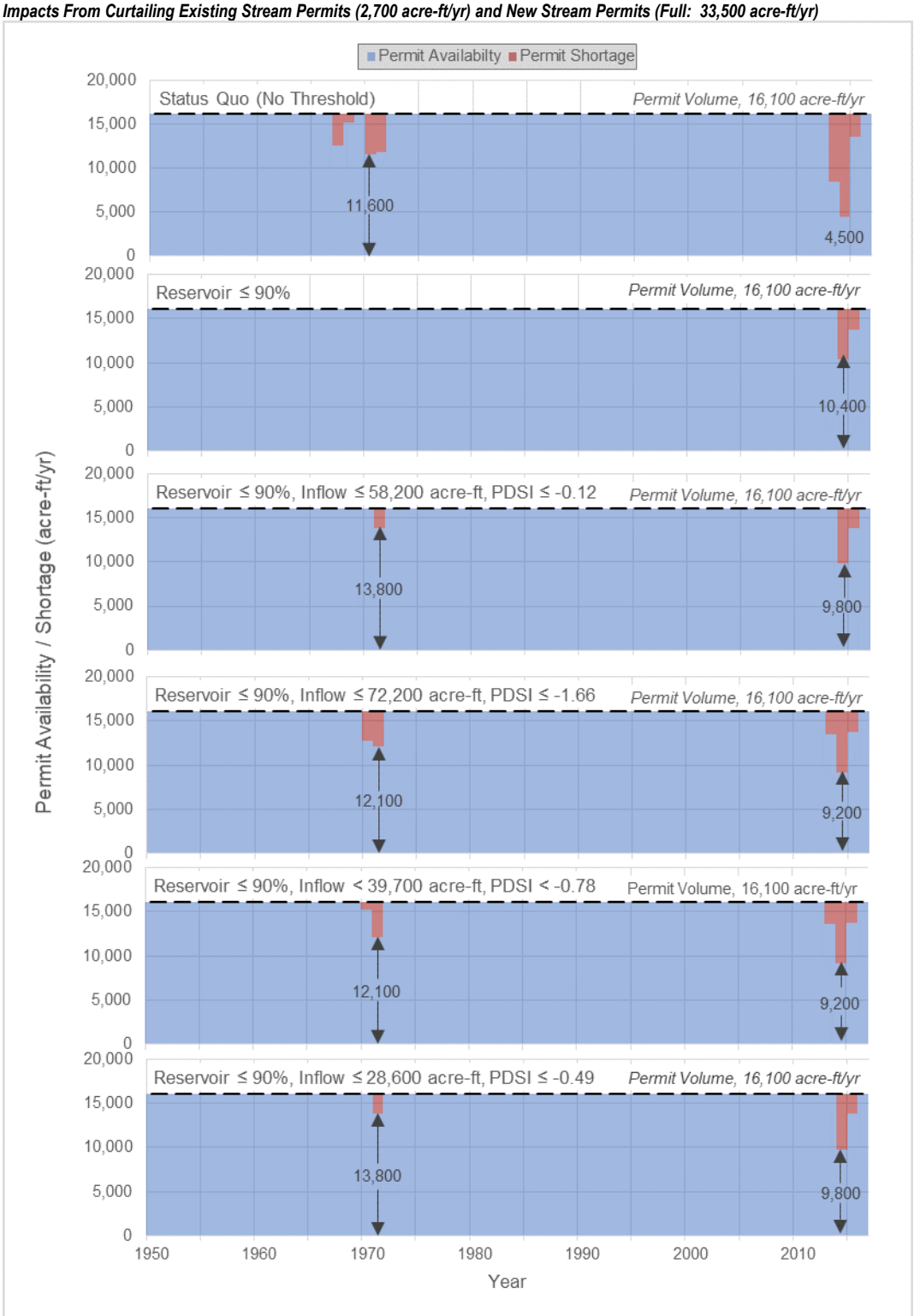

Figure 116. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing 33,500 acre-ft/yr of New Stream Permits

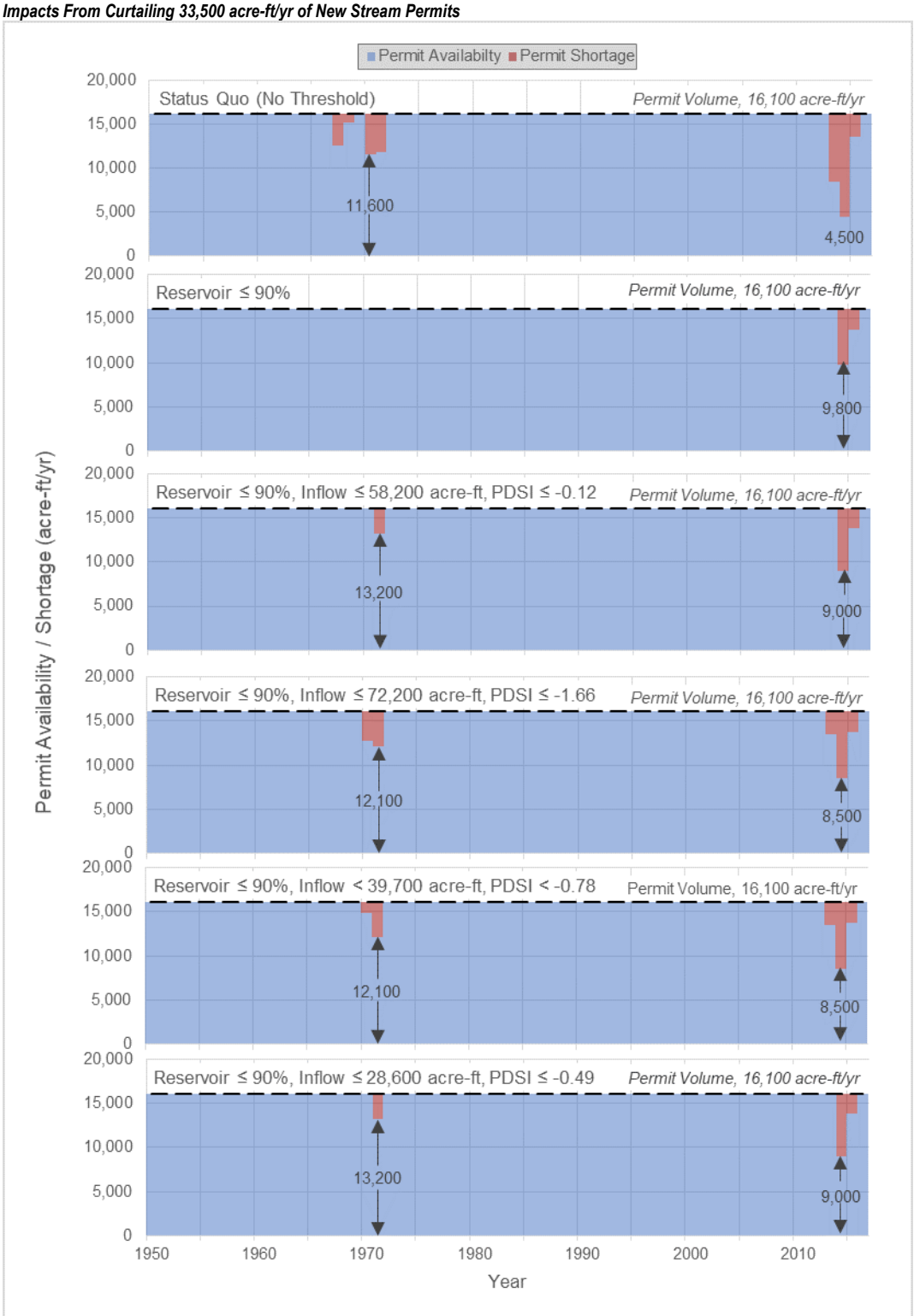

Figure 117. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 90% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Curtailment Based on Less than or Equal to 70 Percent Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

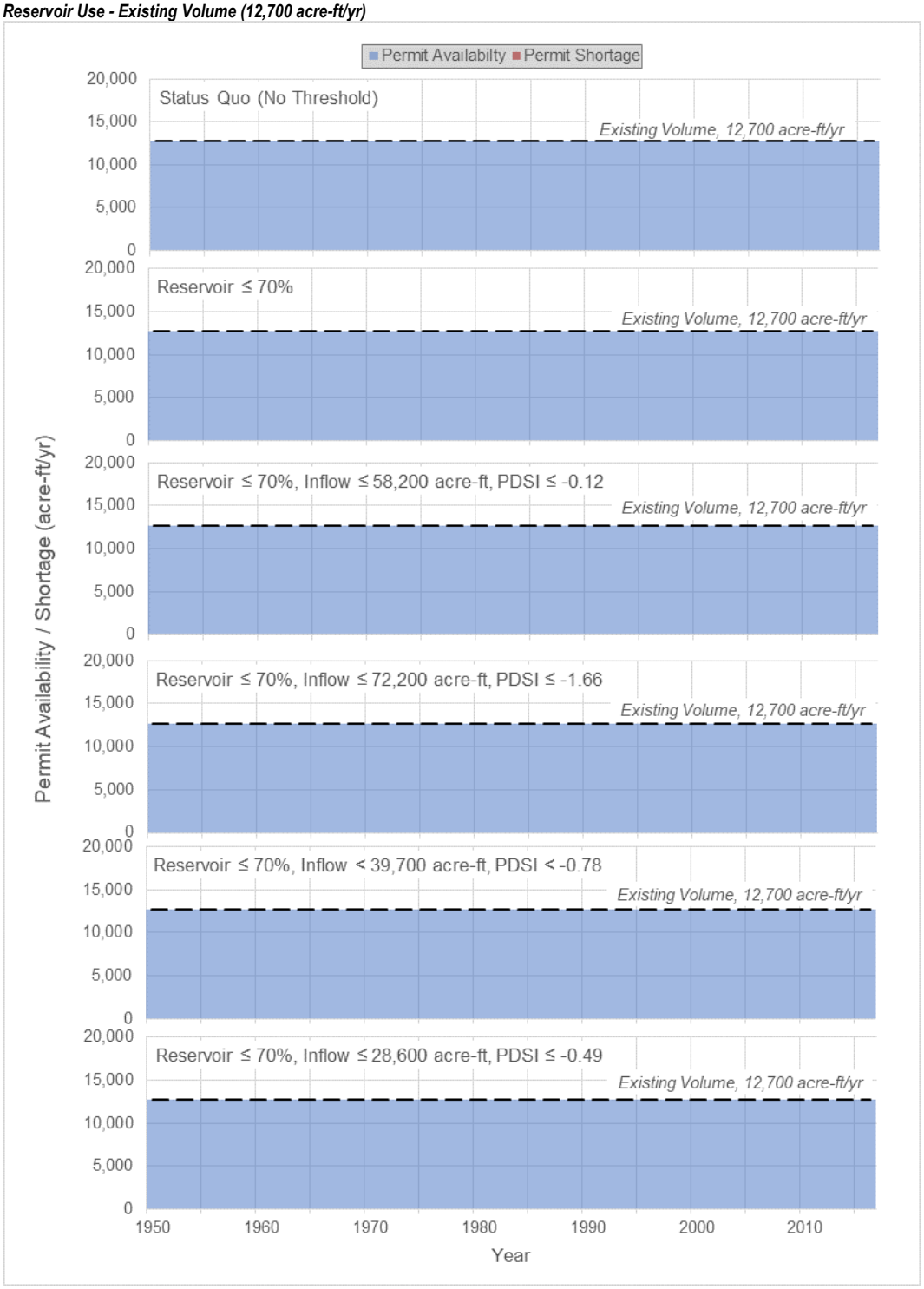

Figure 118. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

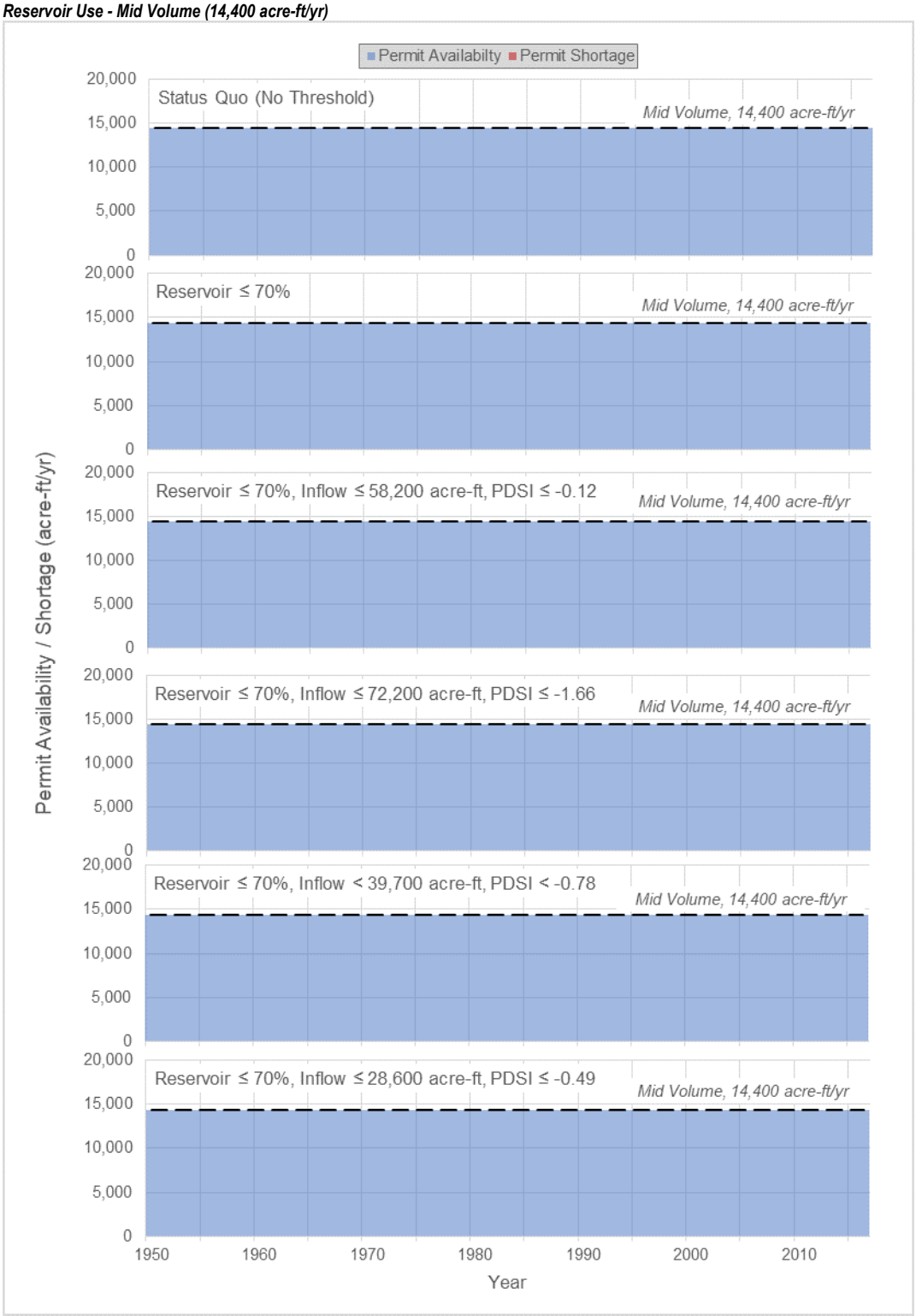

Figure 119. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

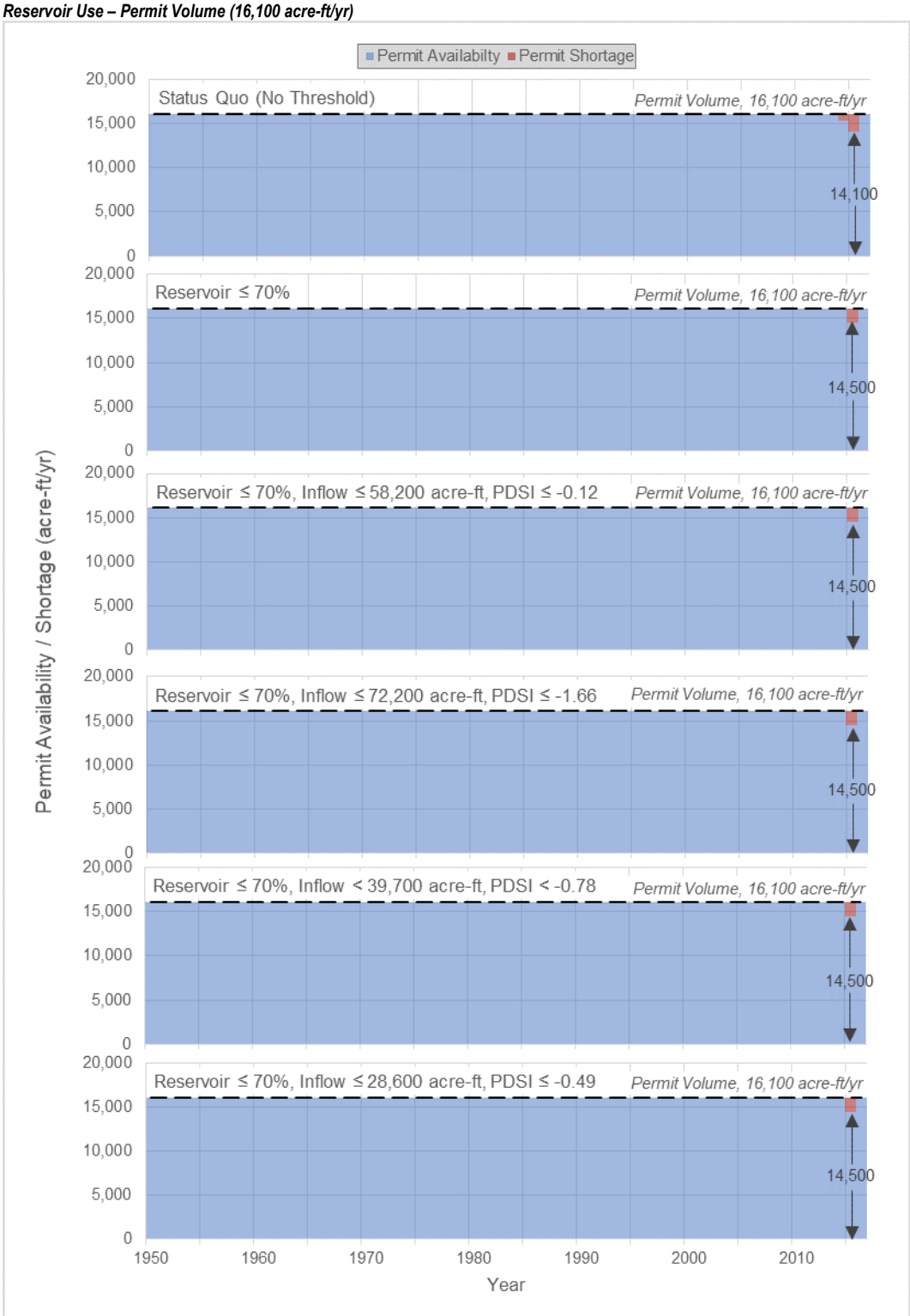

Figure 120. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

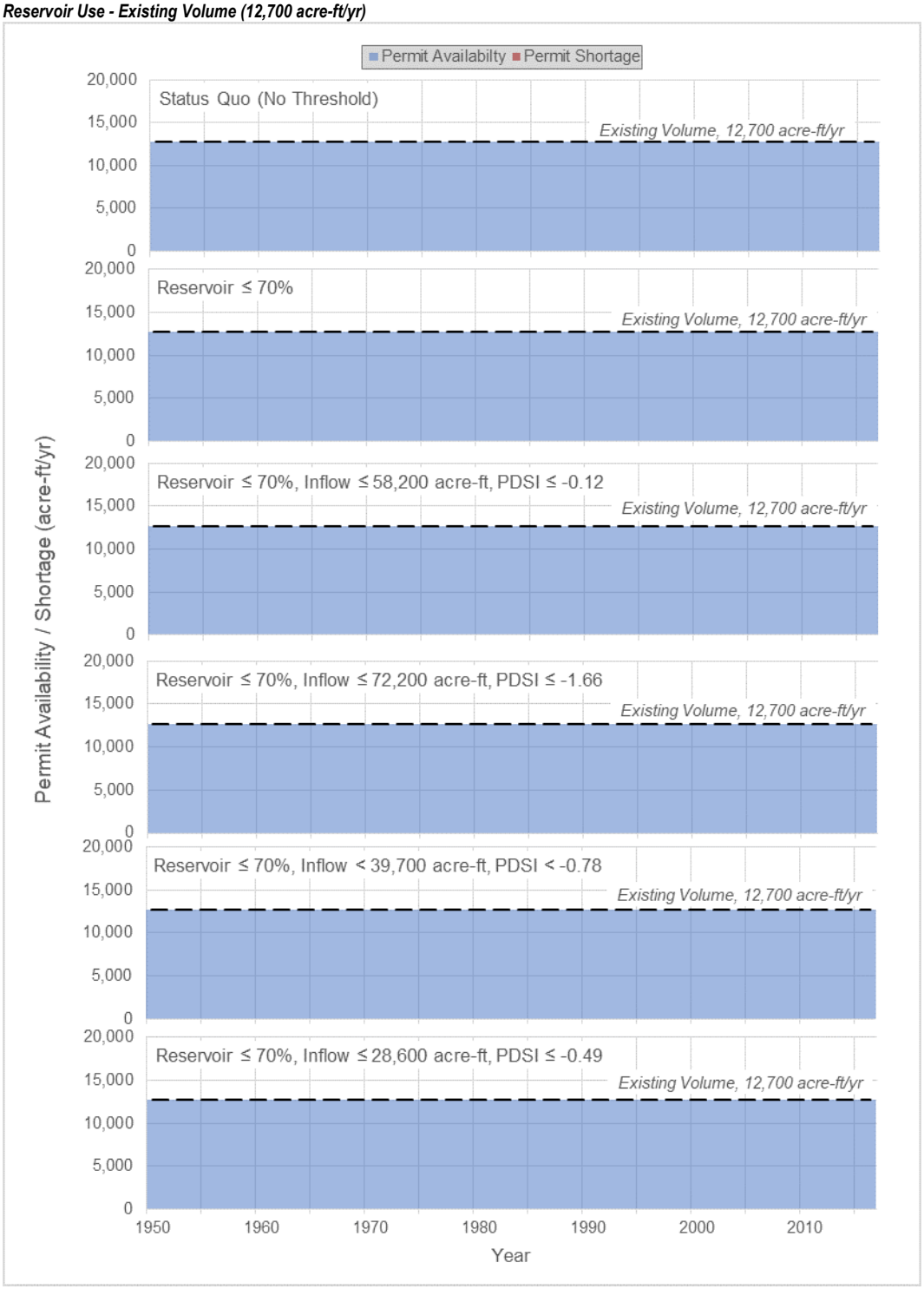

Figure 121. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

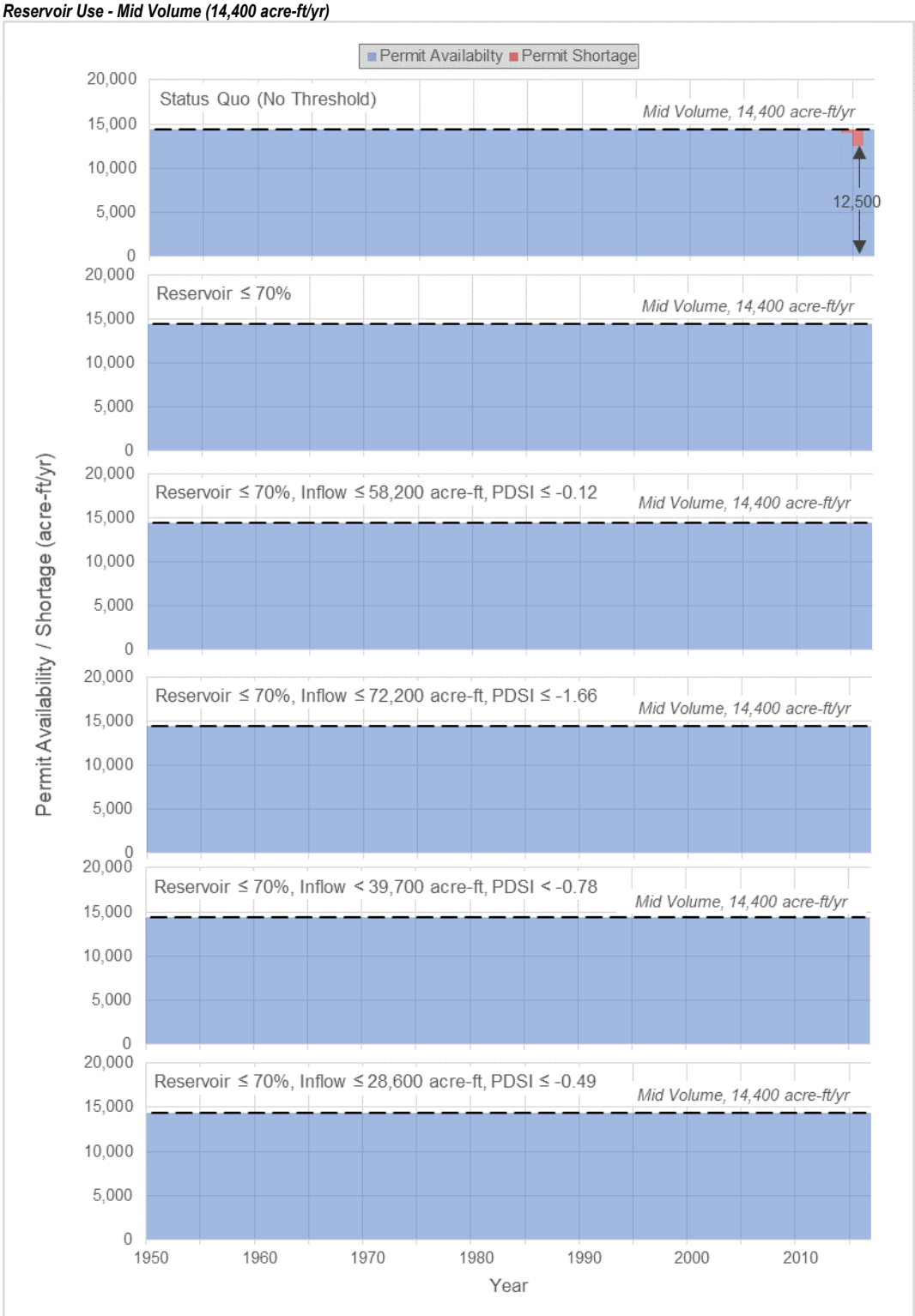

Figure 122. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

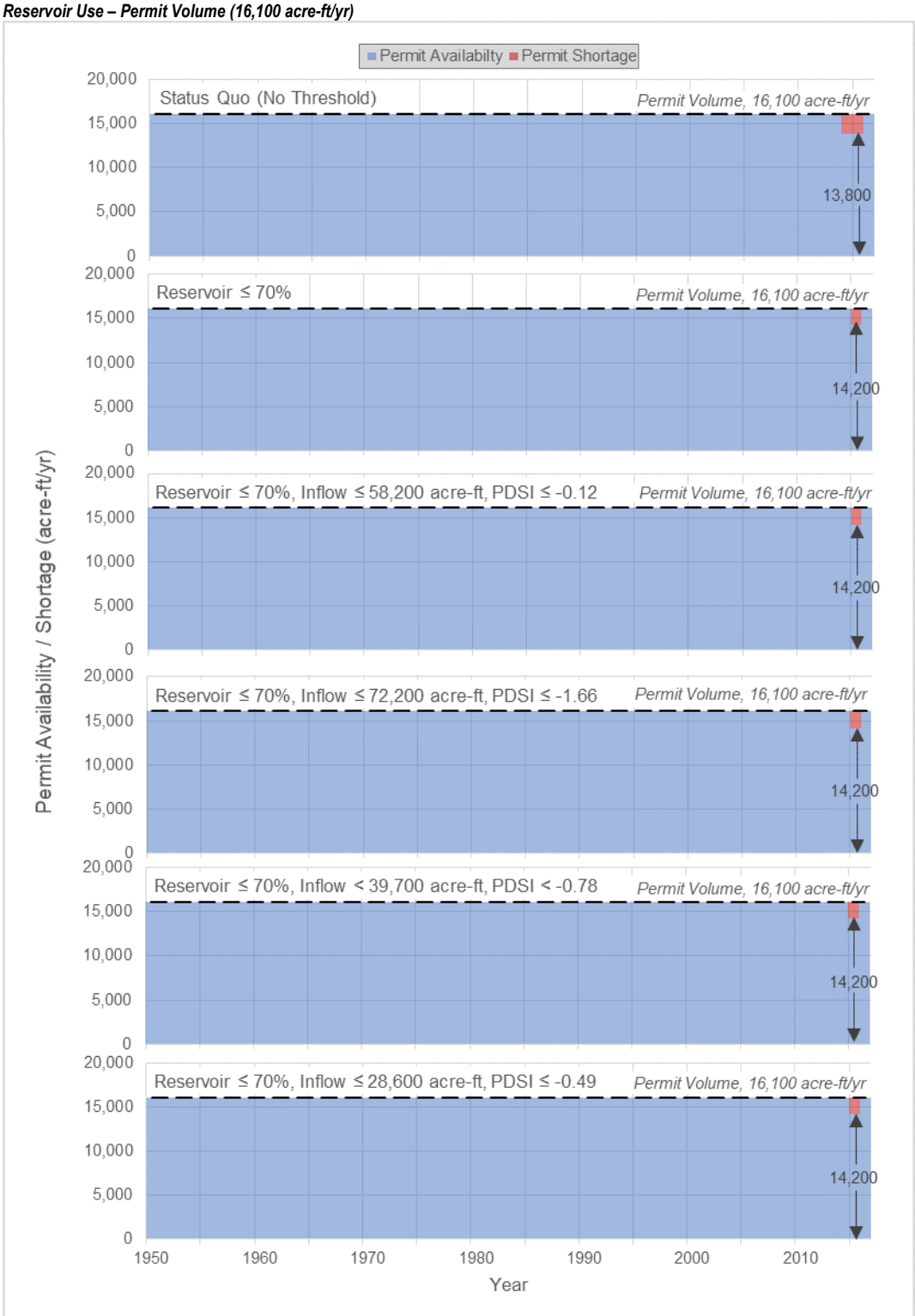

Figure 123. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

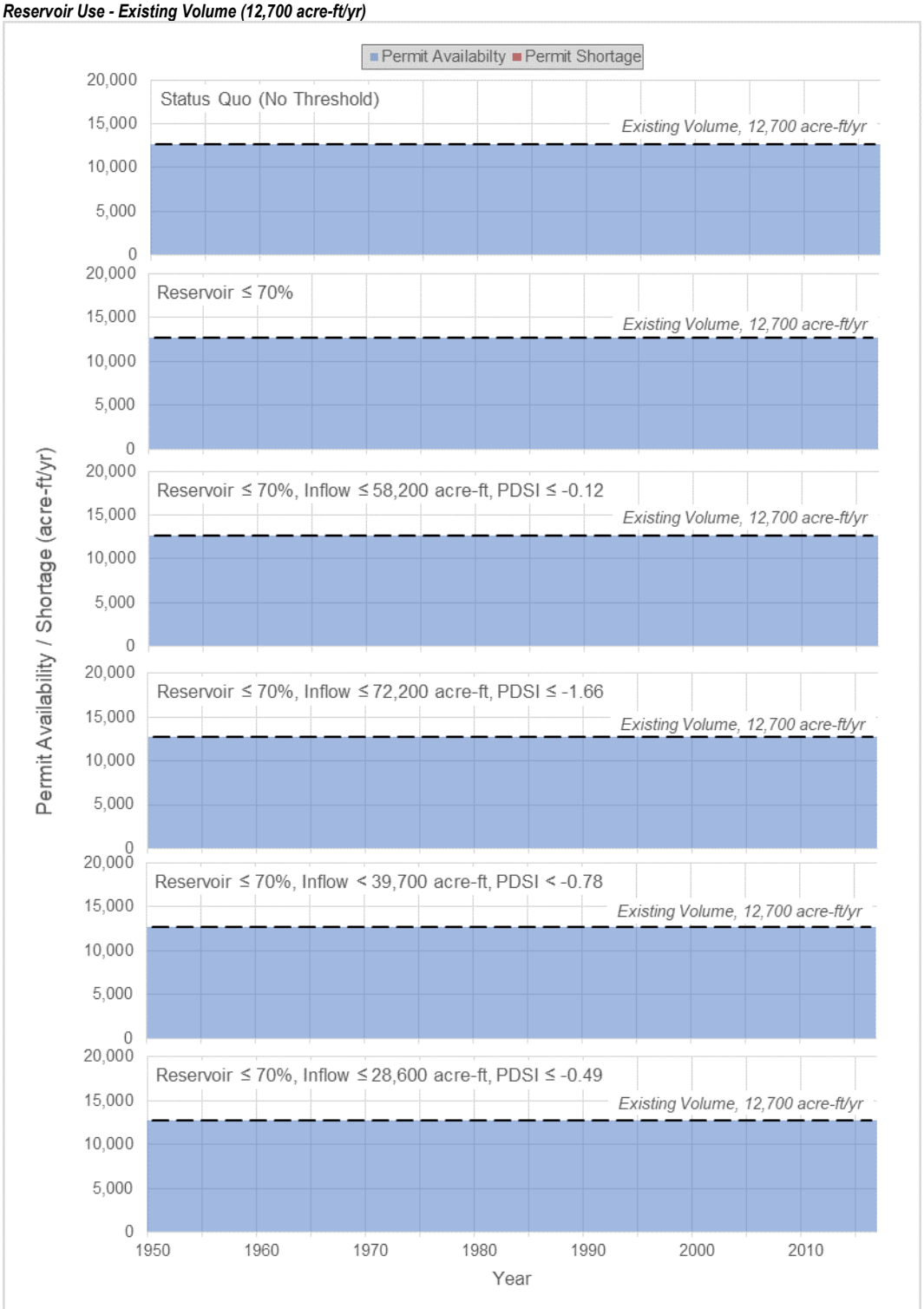

Figure 124. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

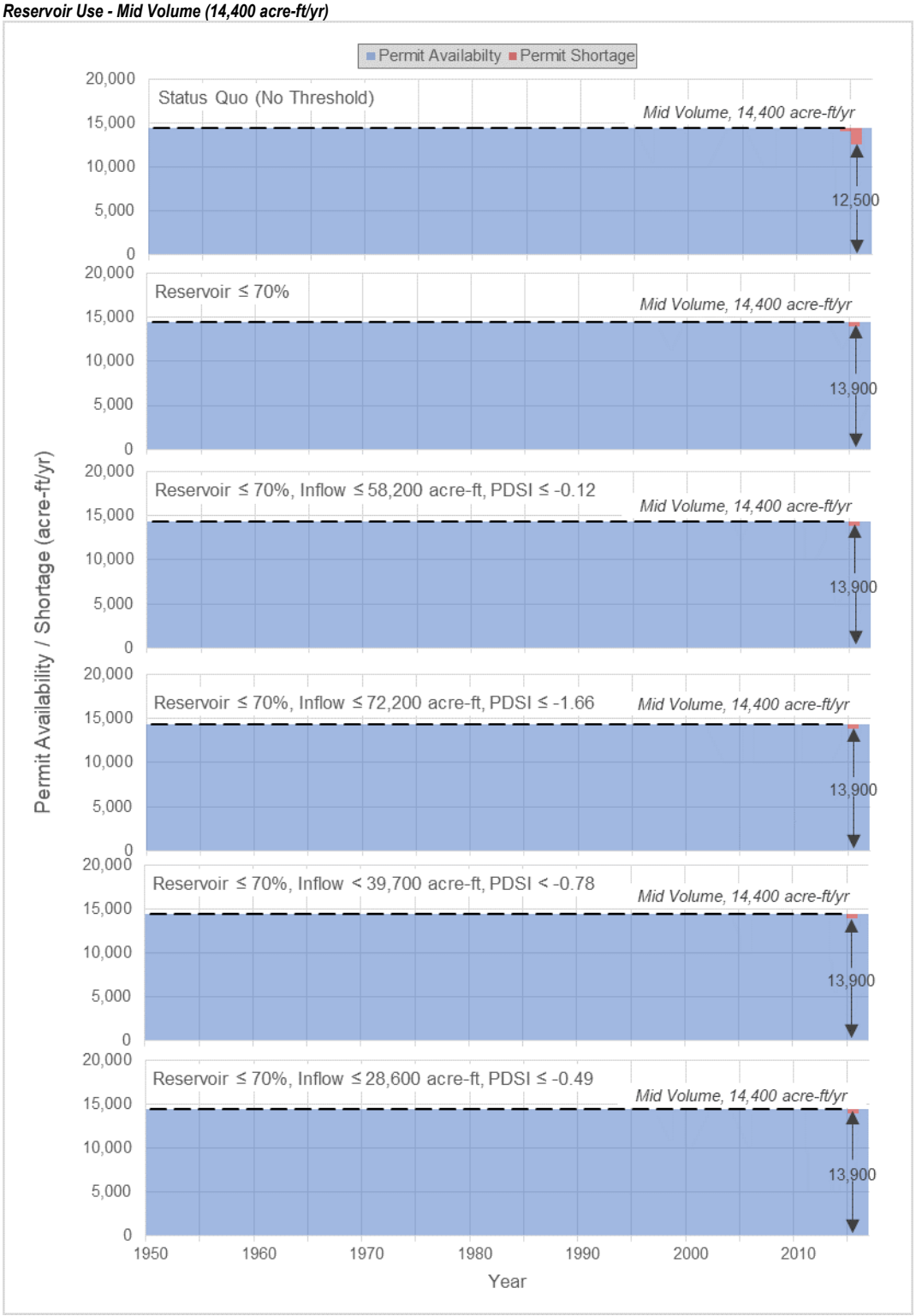

Figure 125. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

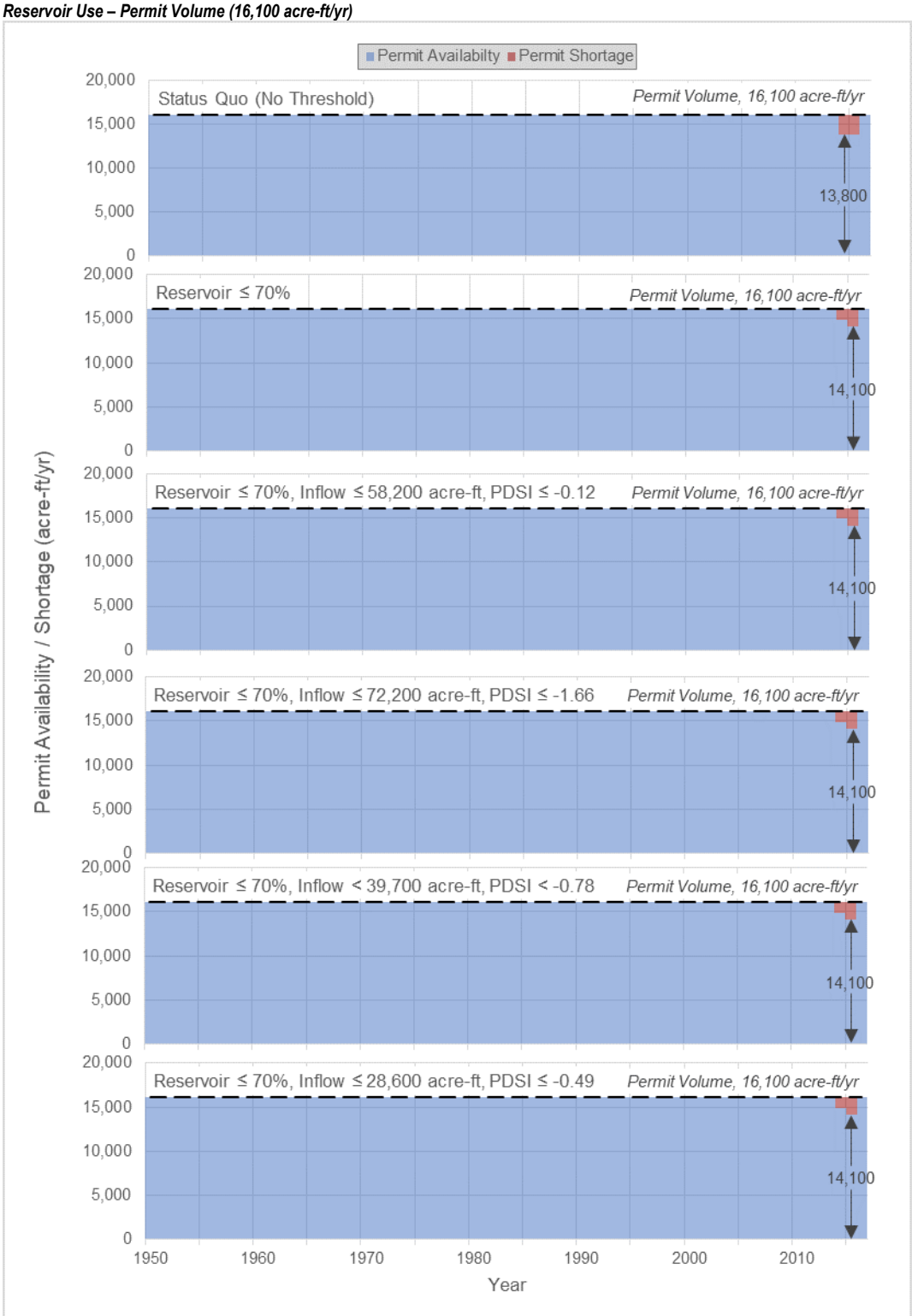

Figure 126. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

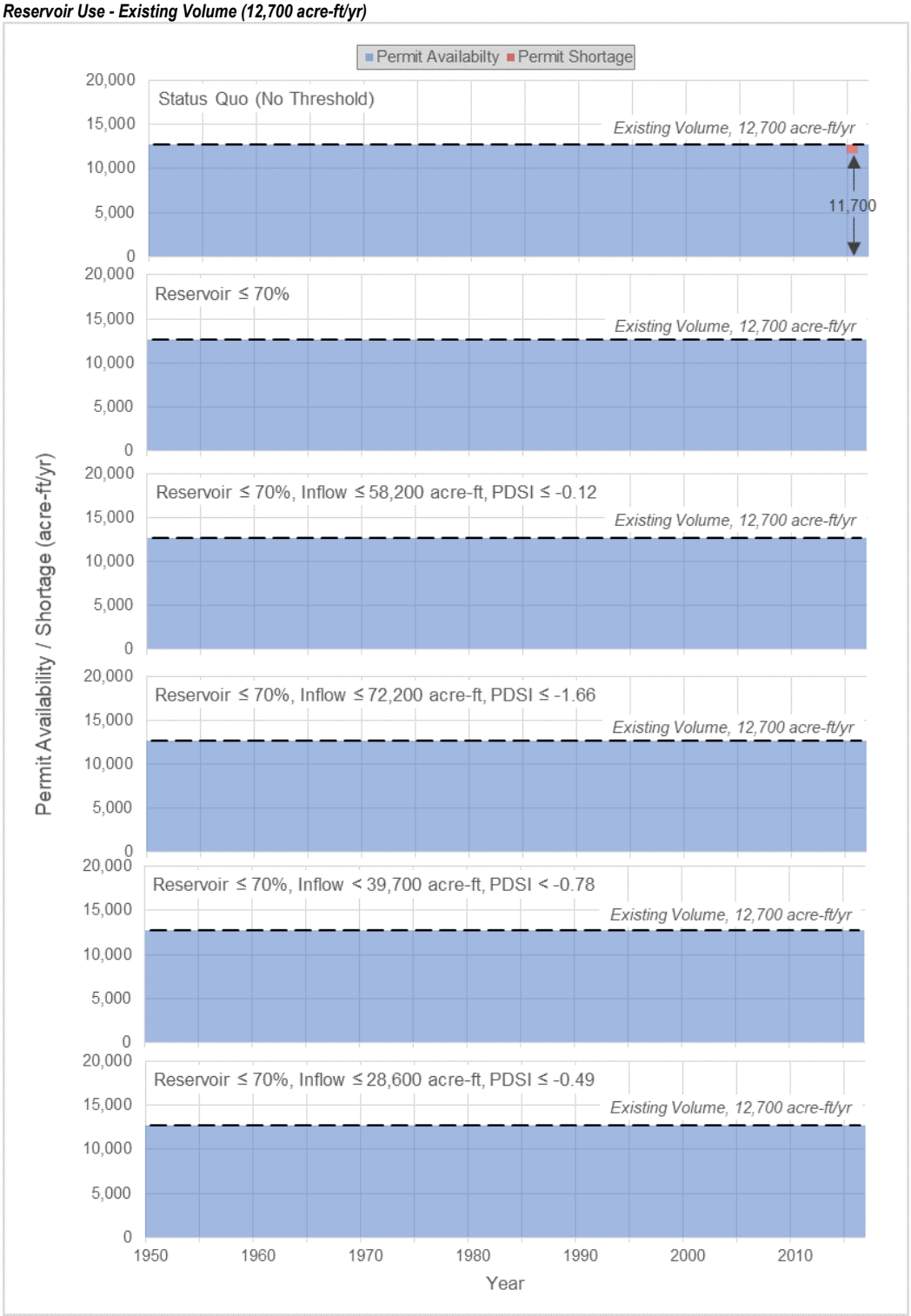

Figure 127. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

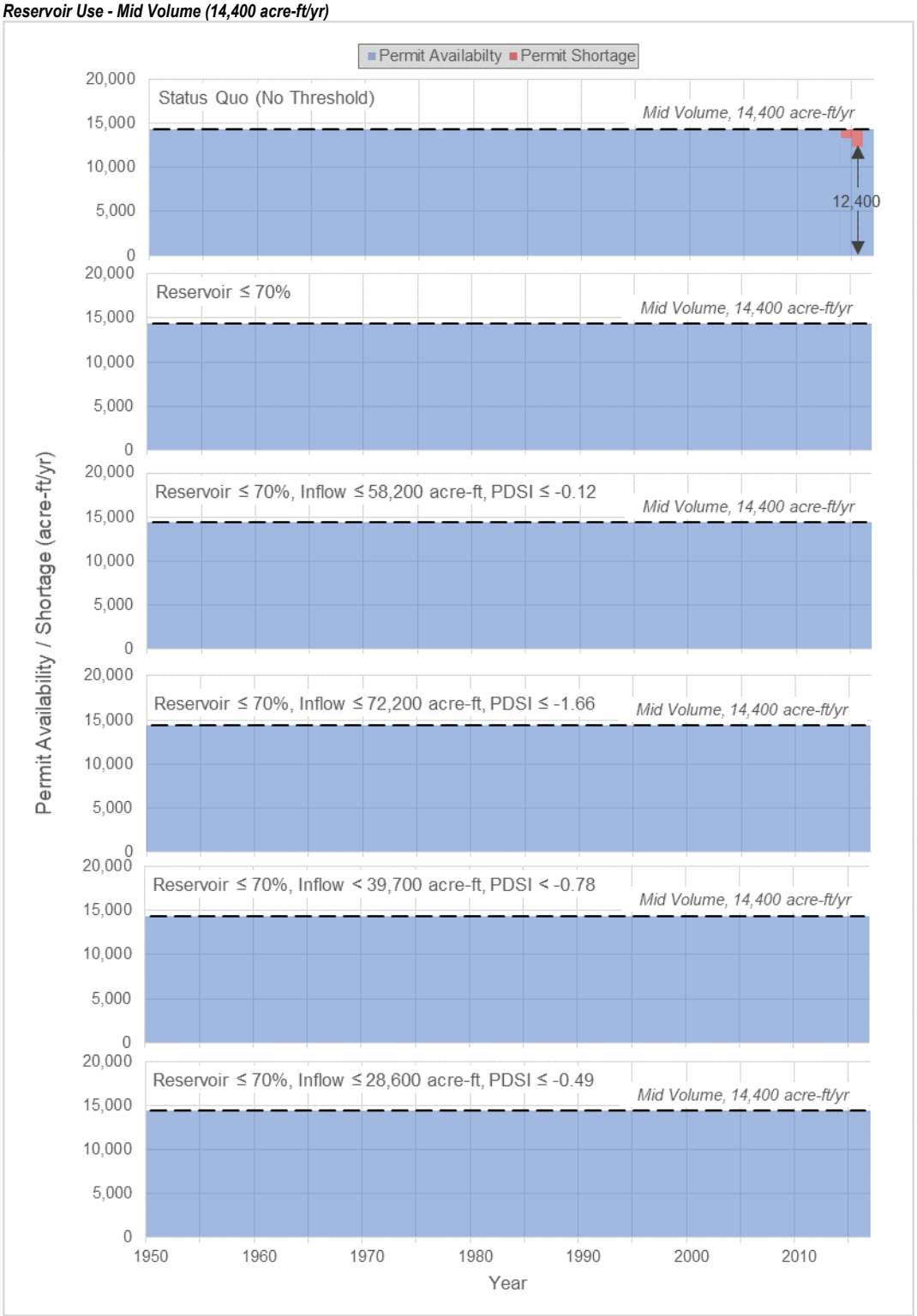

Figure 128. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Permit Volume (16,100 acre-ft/yr)

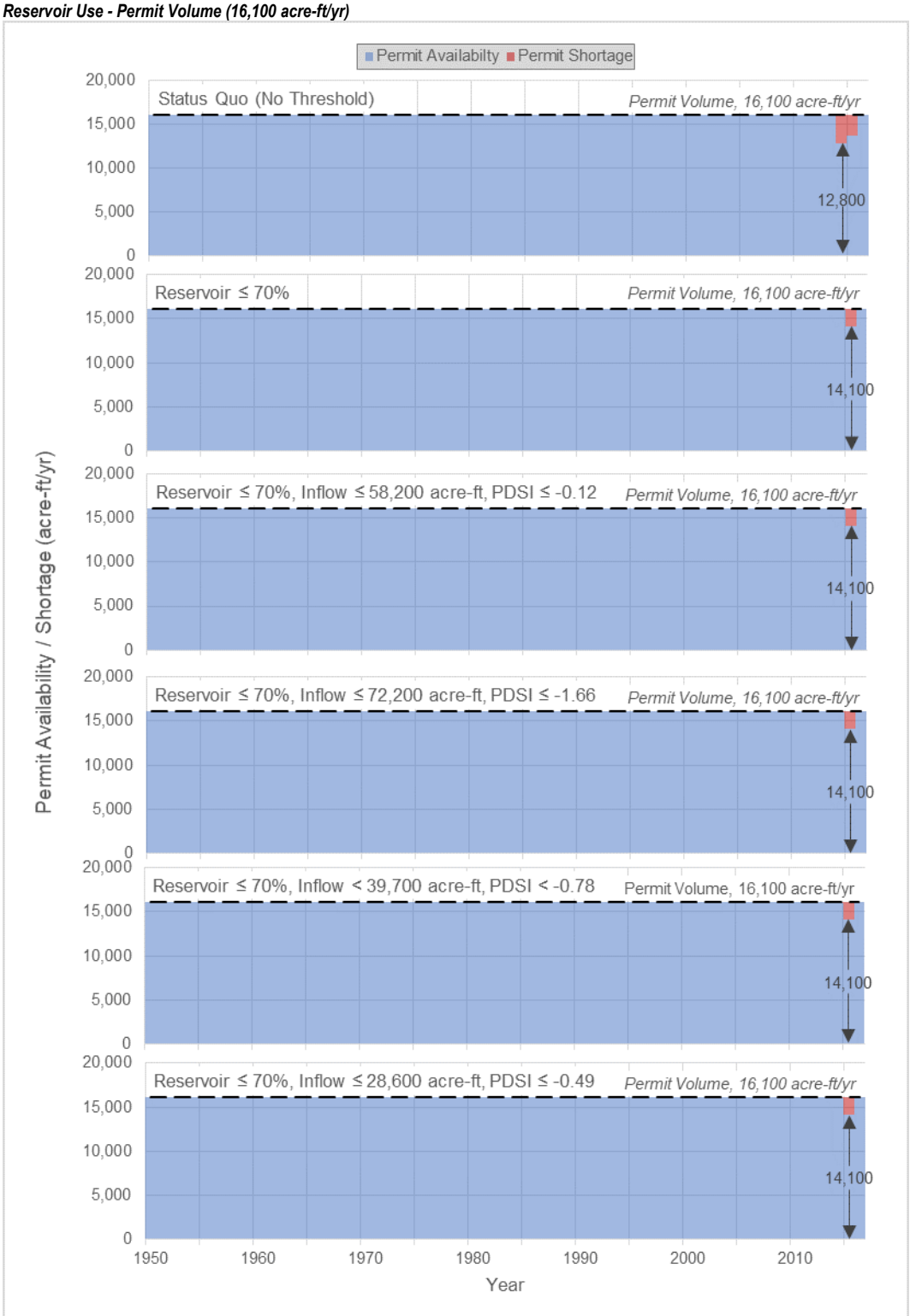

Figure 129. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

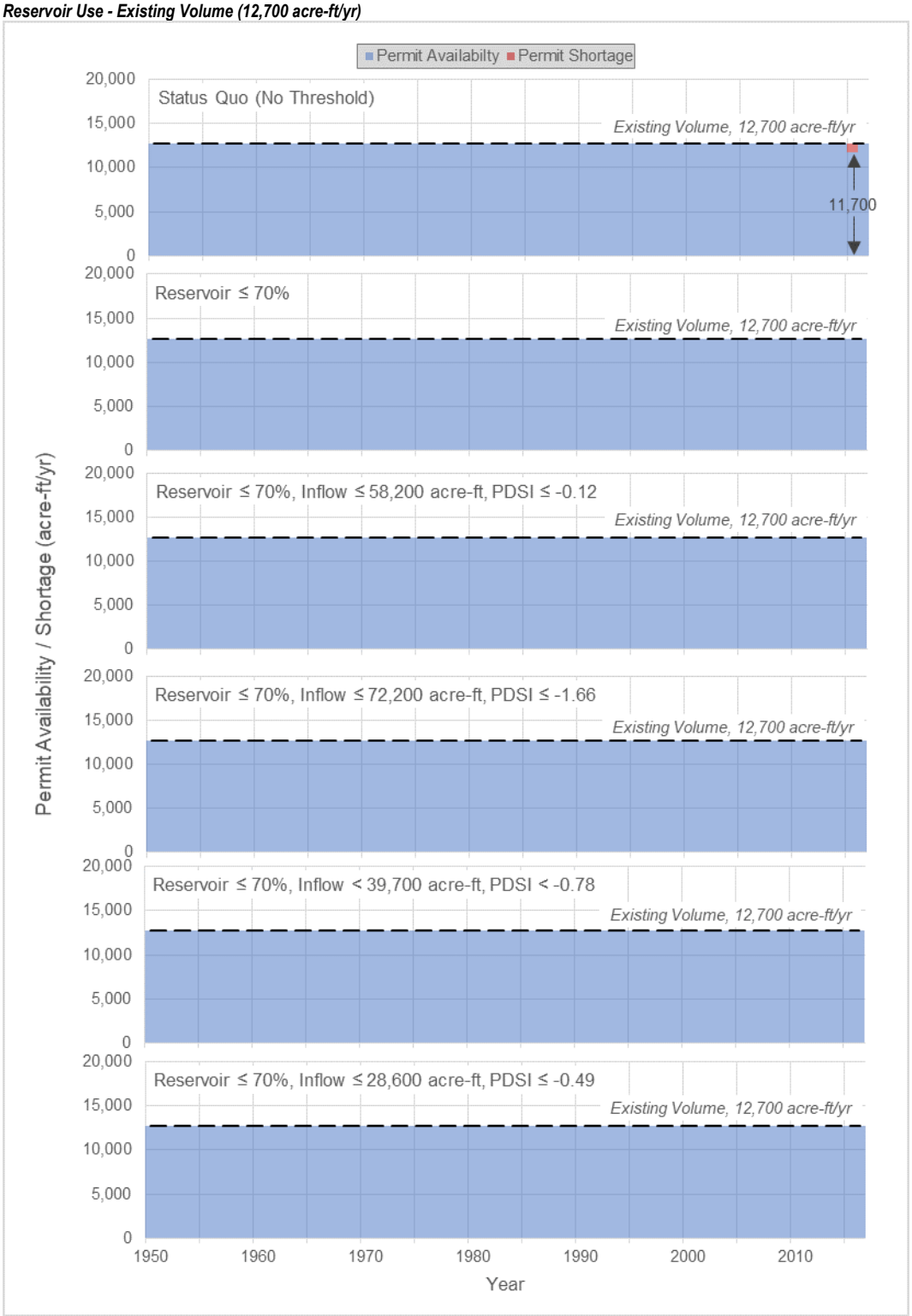

Figure 130. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

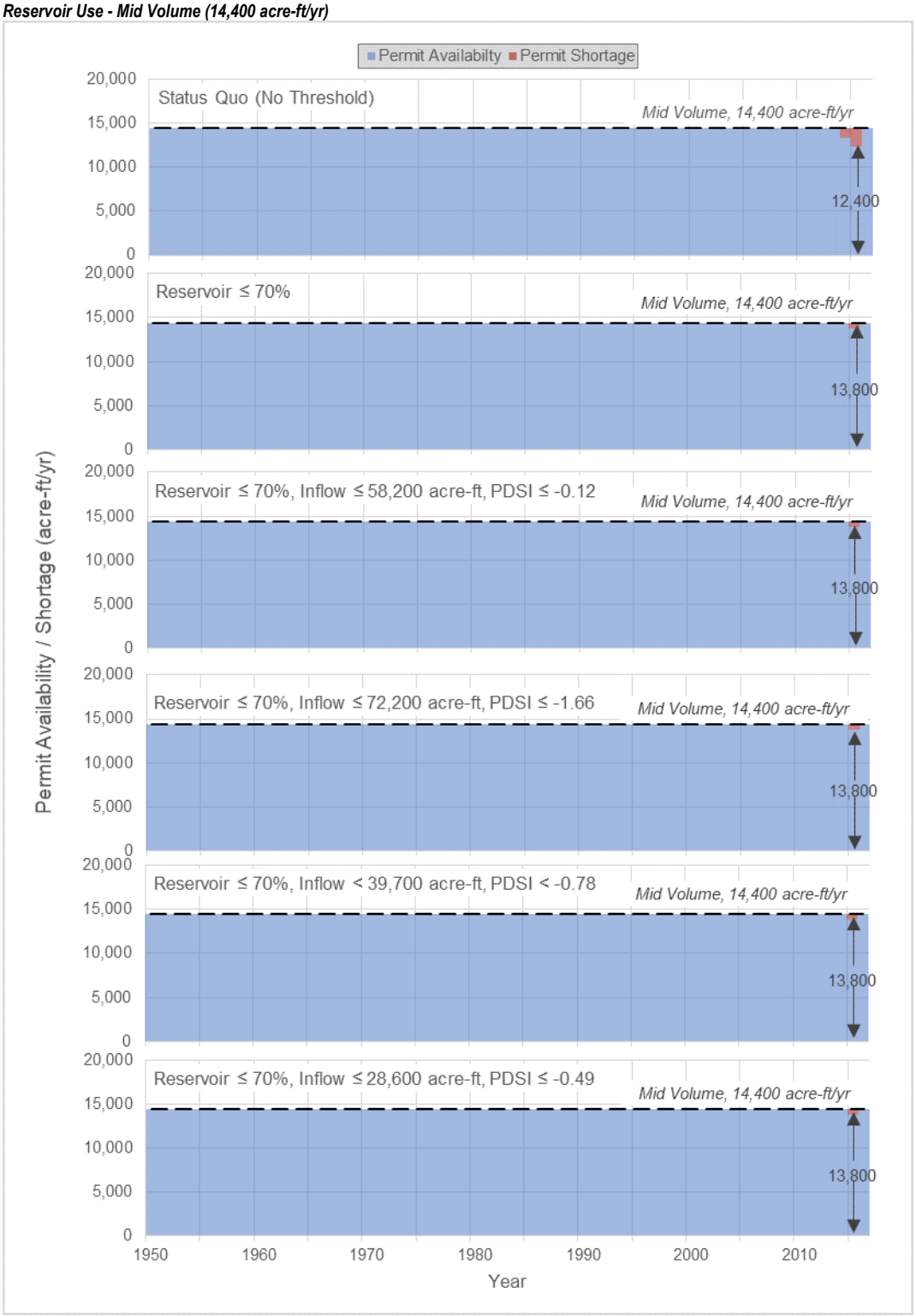

Figure 131. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

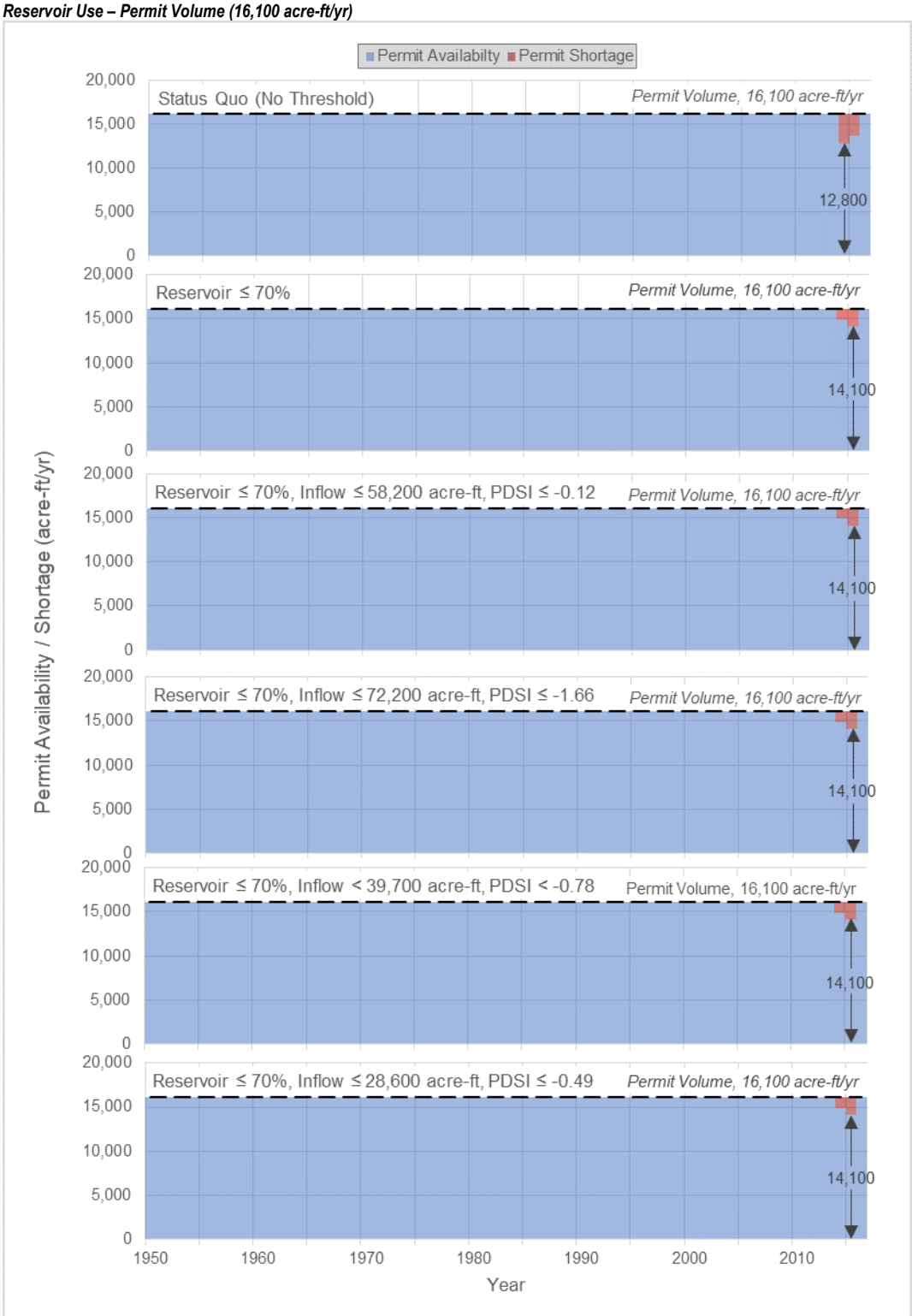

Figure 132. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

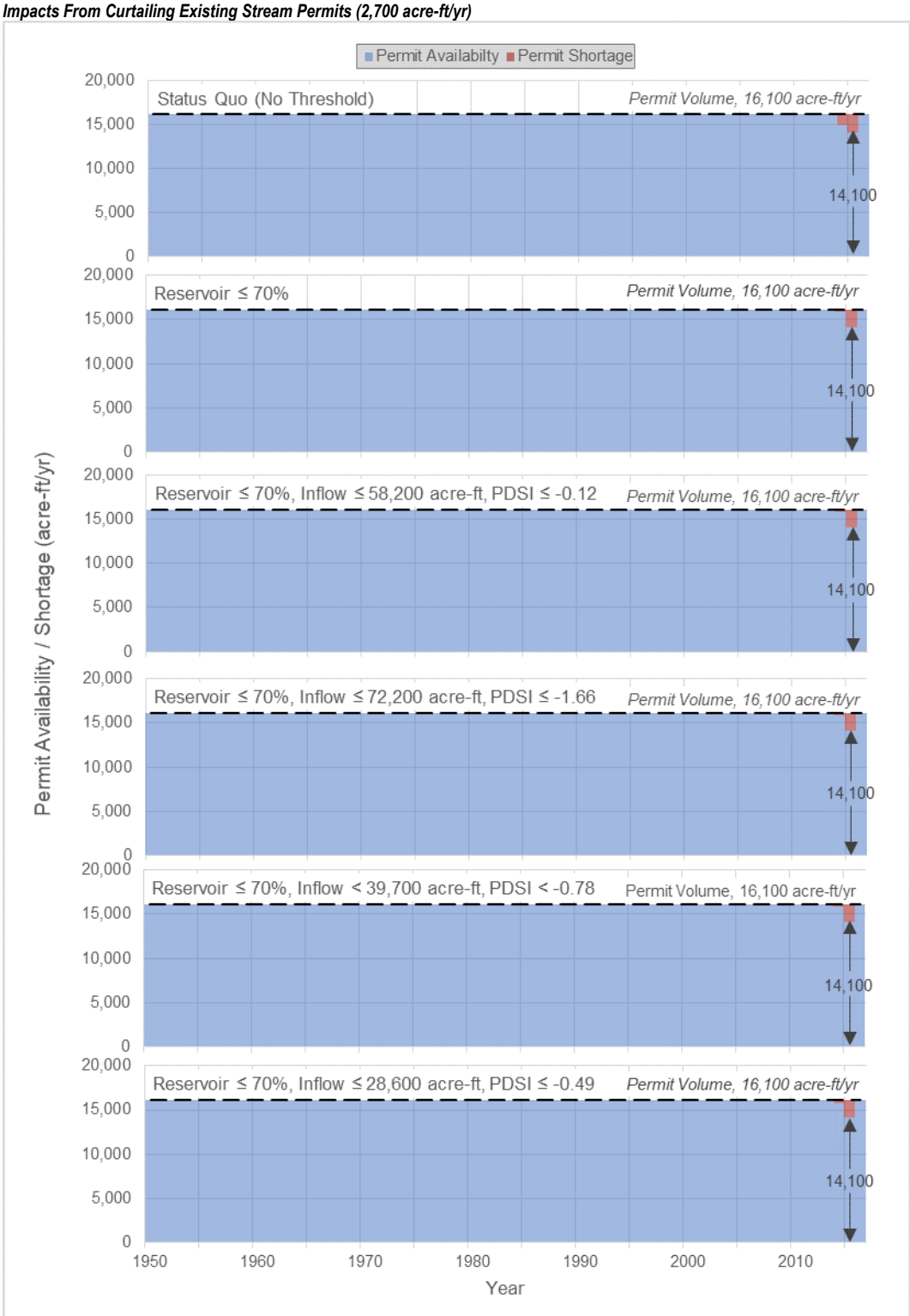

Figure 133. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

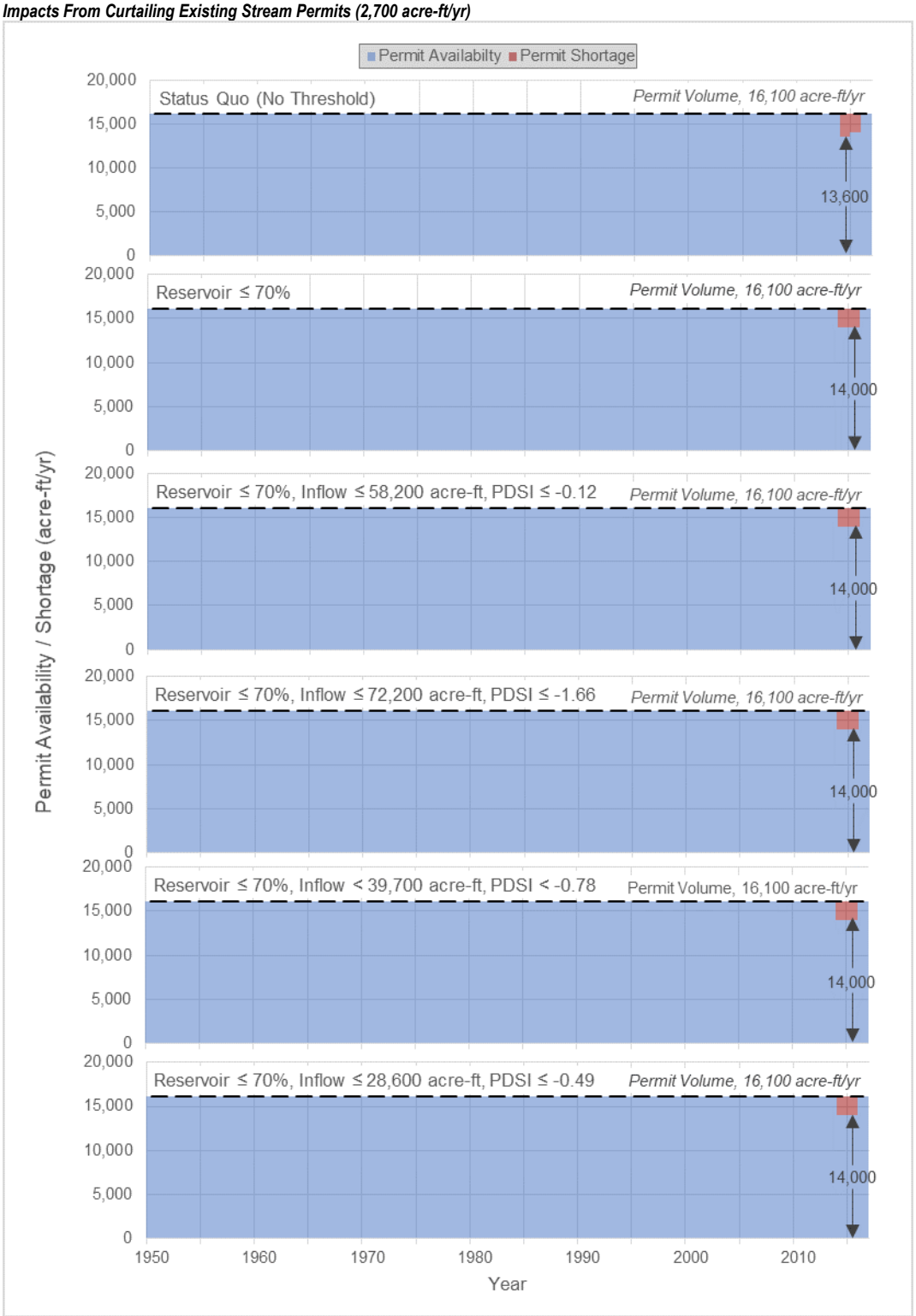

Figure 134. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 35,800 acre-ft/yr)

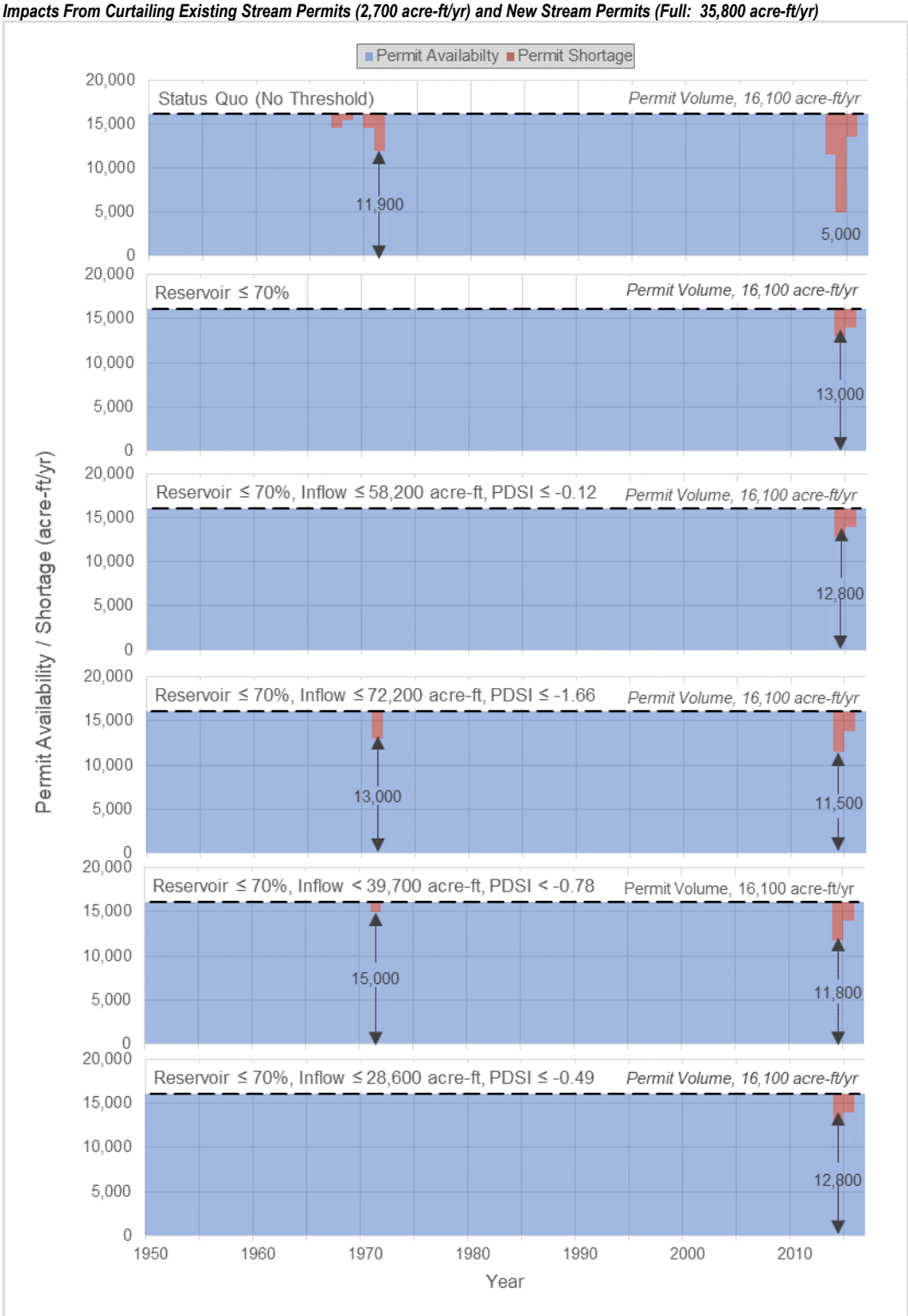

Figure 135. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (35,800 acre-ft/yr)

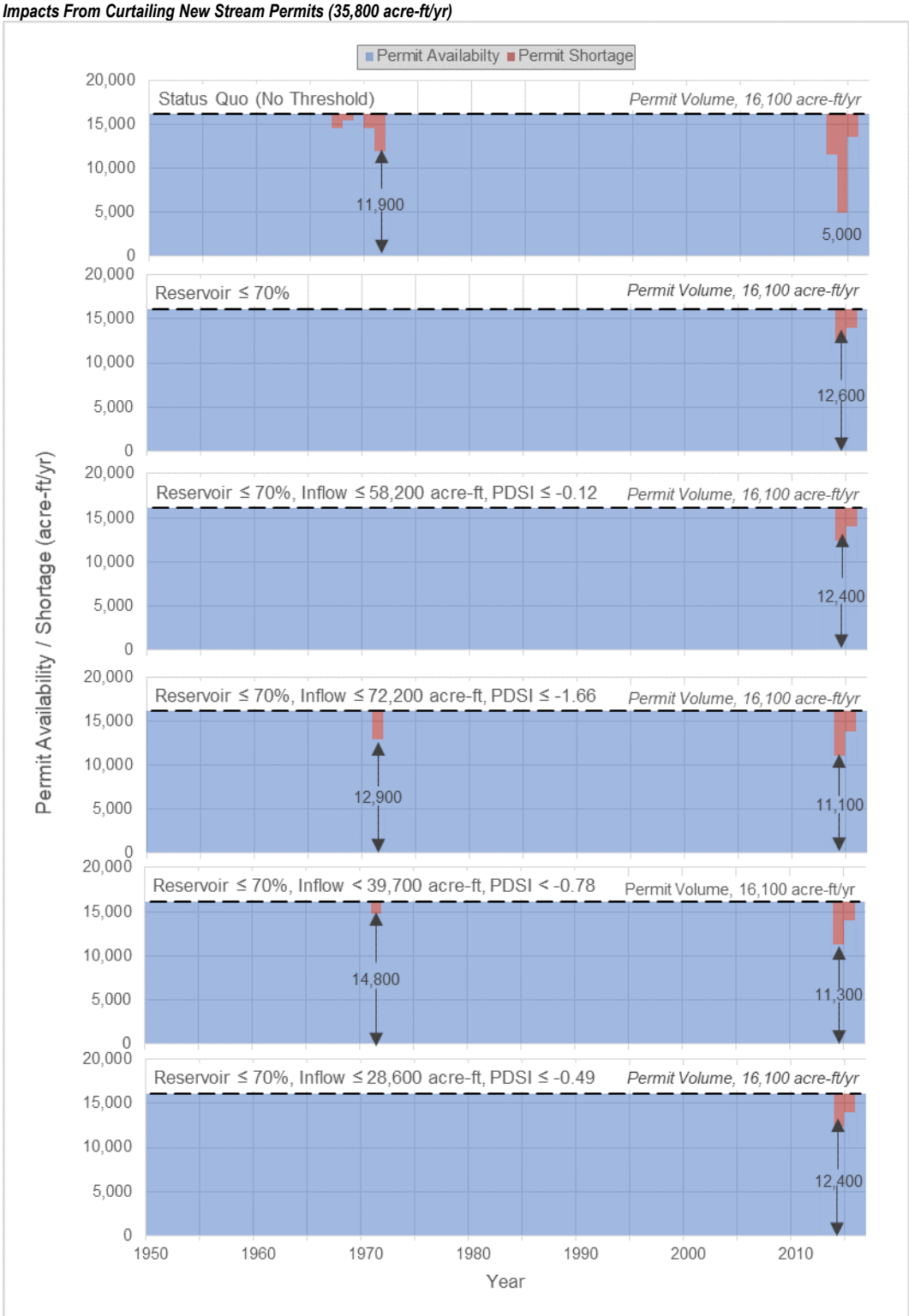

Figure 136. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

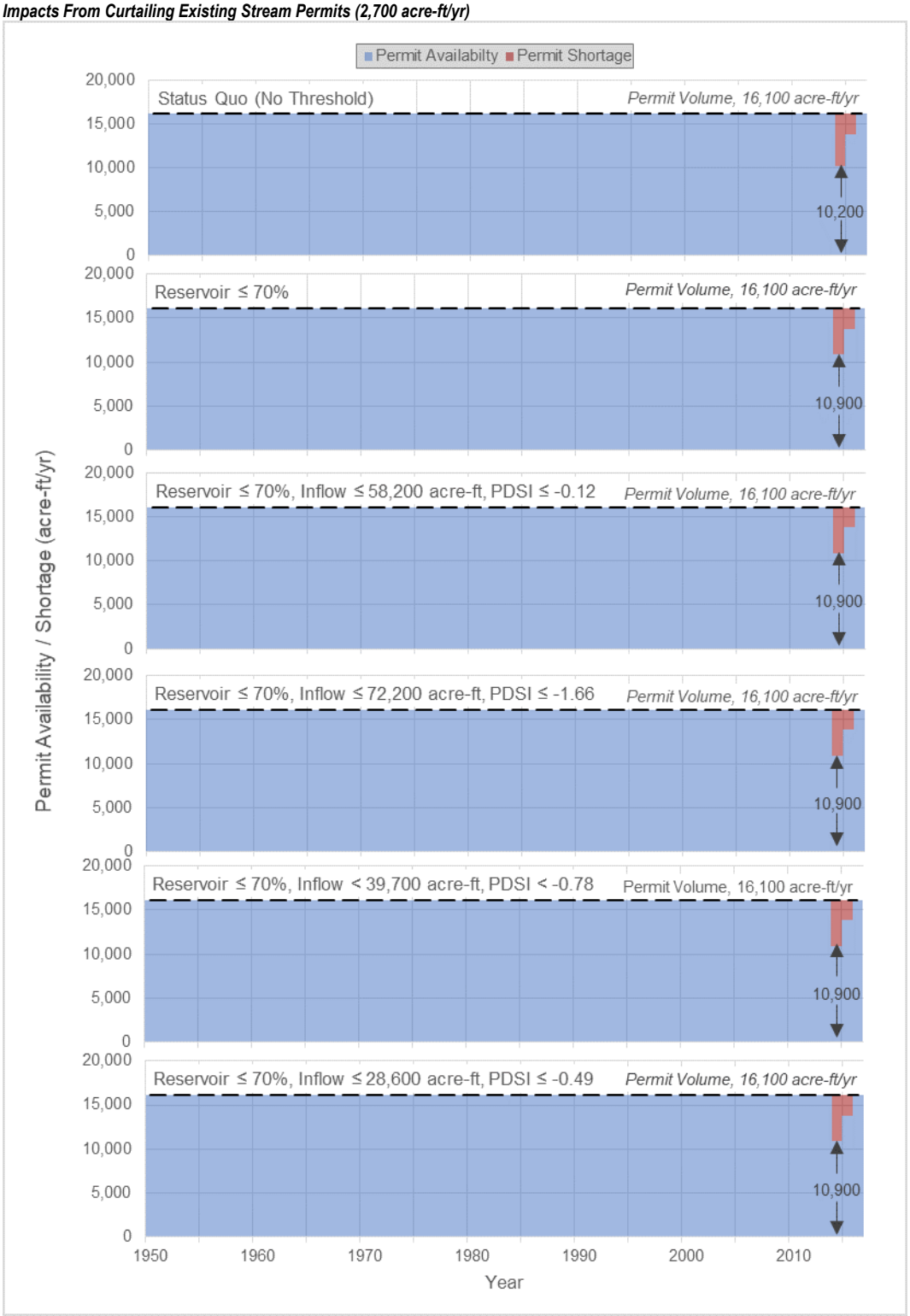

Figure 137. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 33,500 acre-ft/yr)

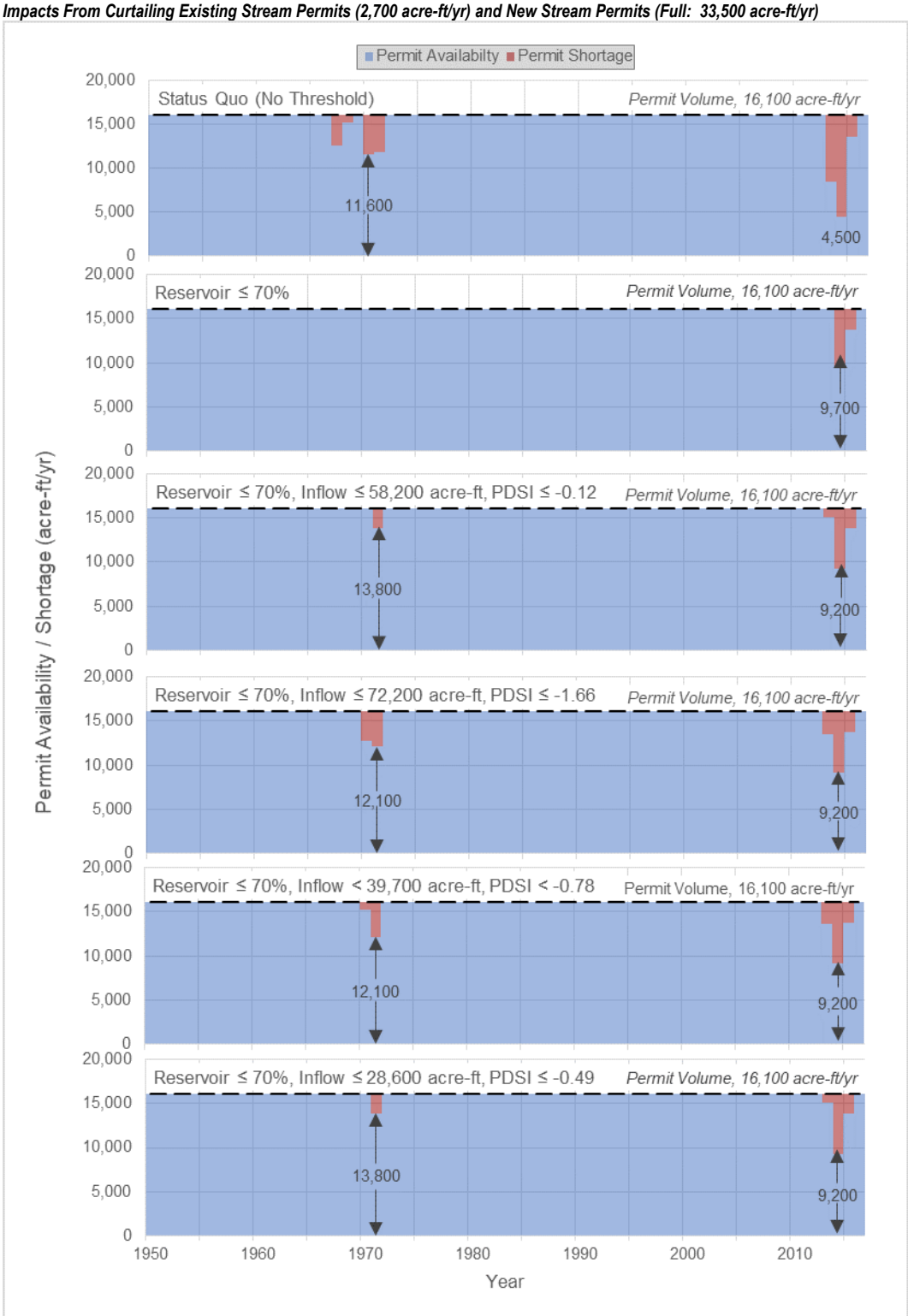

Figure 138. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing 33,500 acre-ft/yr of New Stream Permits

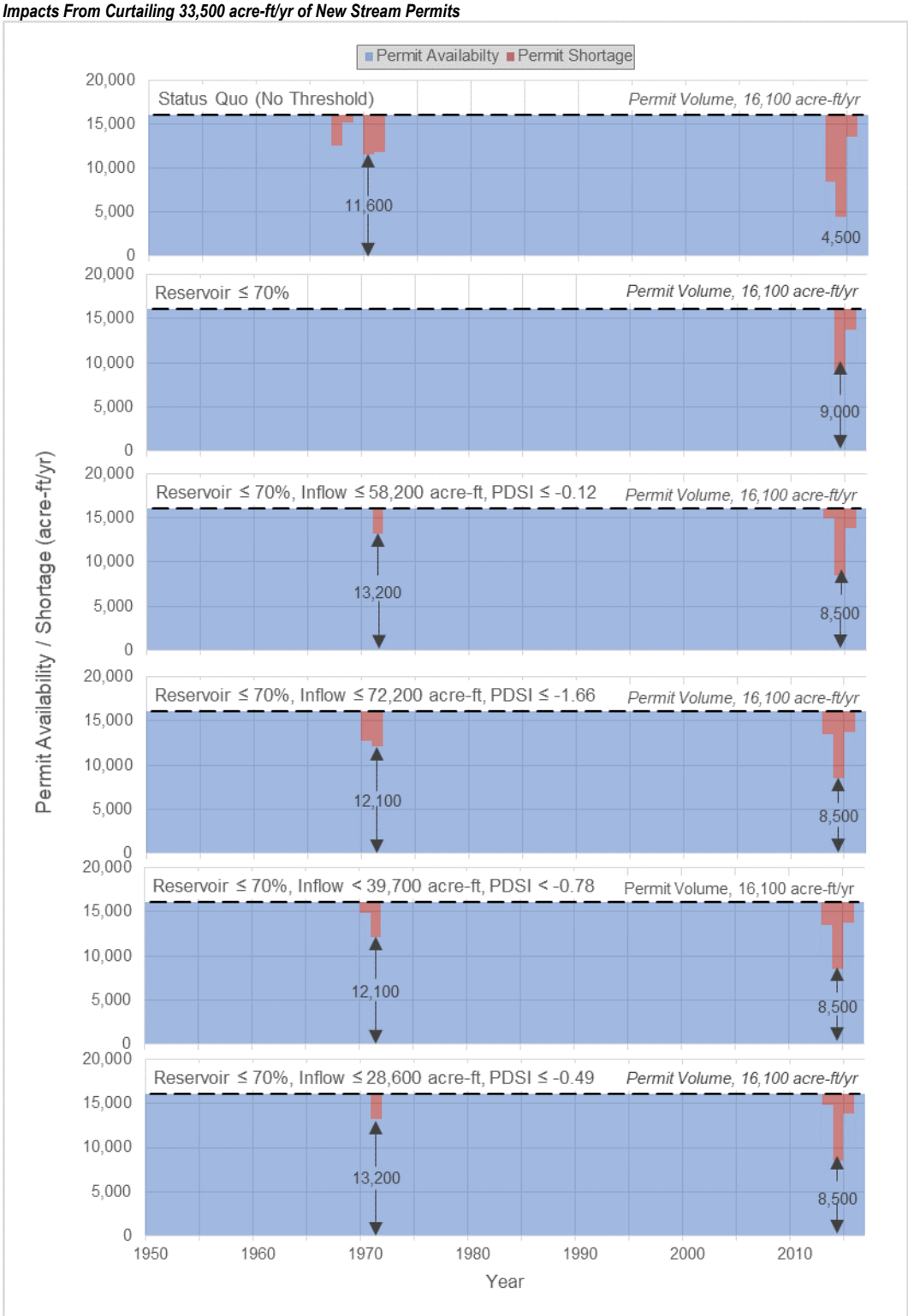

Figure 139. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 70% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Curtailment Based on Less than or Equal to 50 Percent Conservation Pool Storage Threshold Combined with Four Inflow-PDSI Thresholds

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

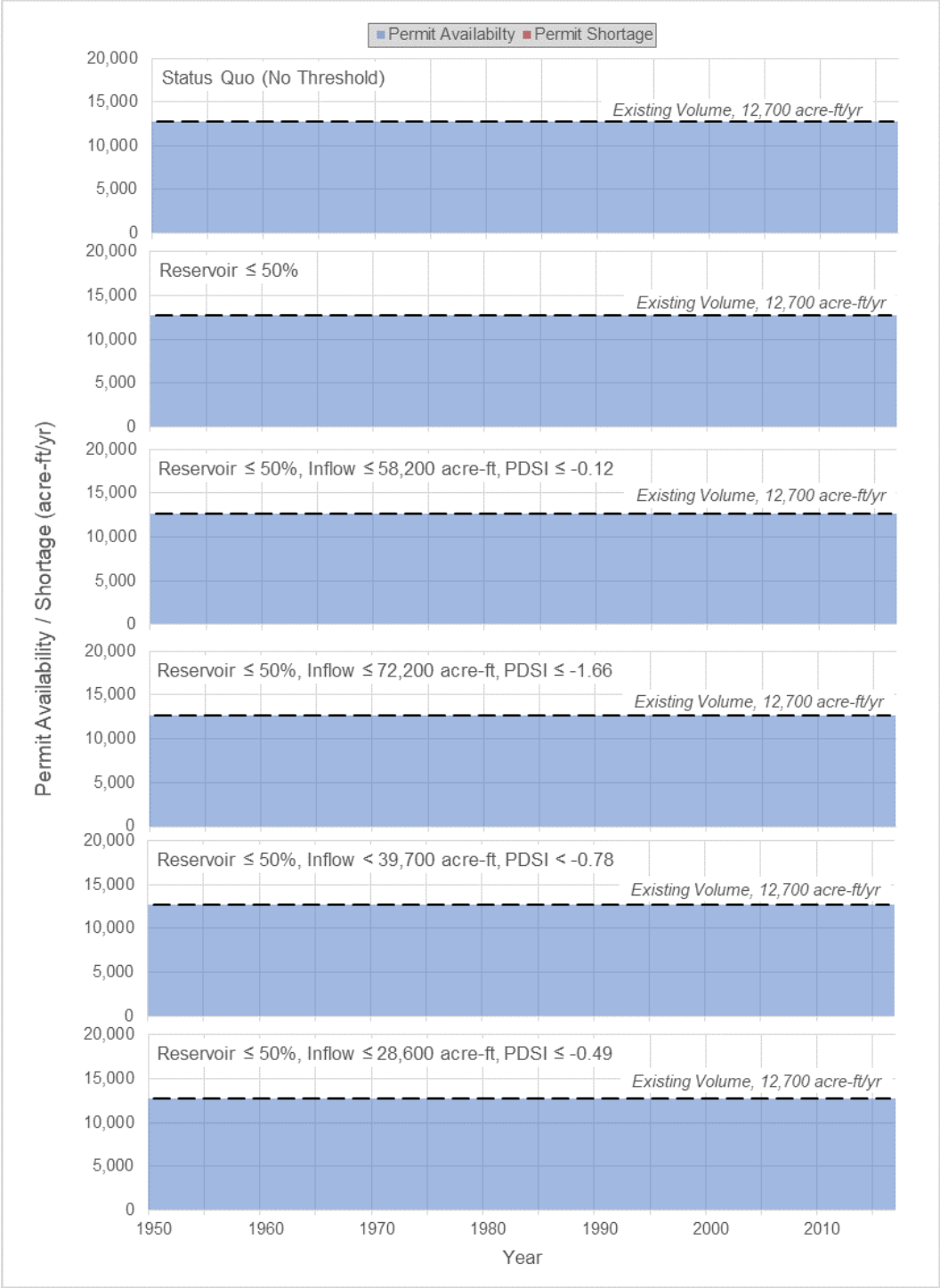

Figure 140. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

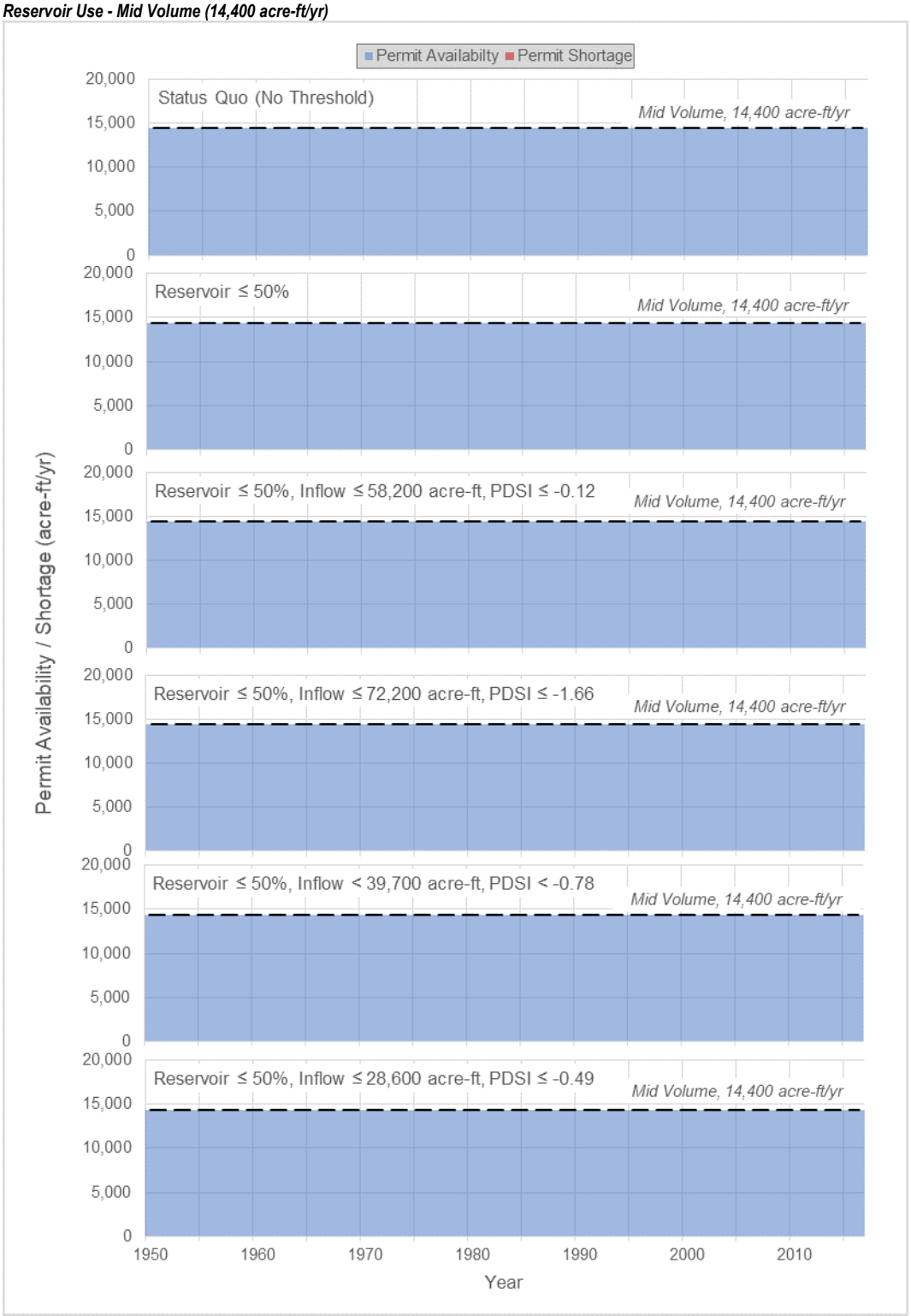

Figure 141. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

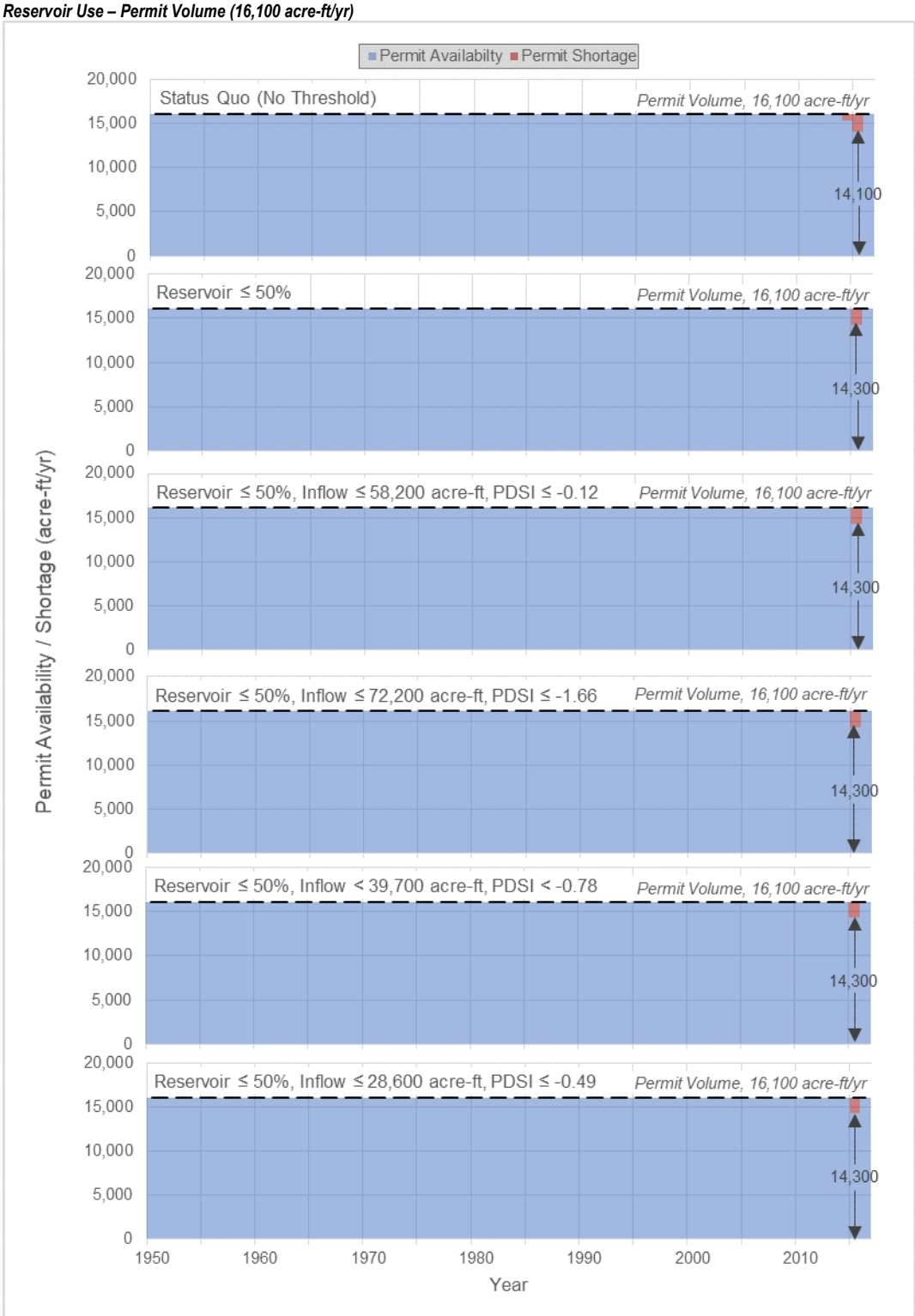

Figure 142. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

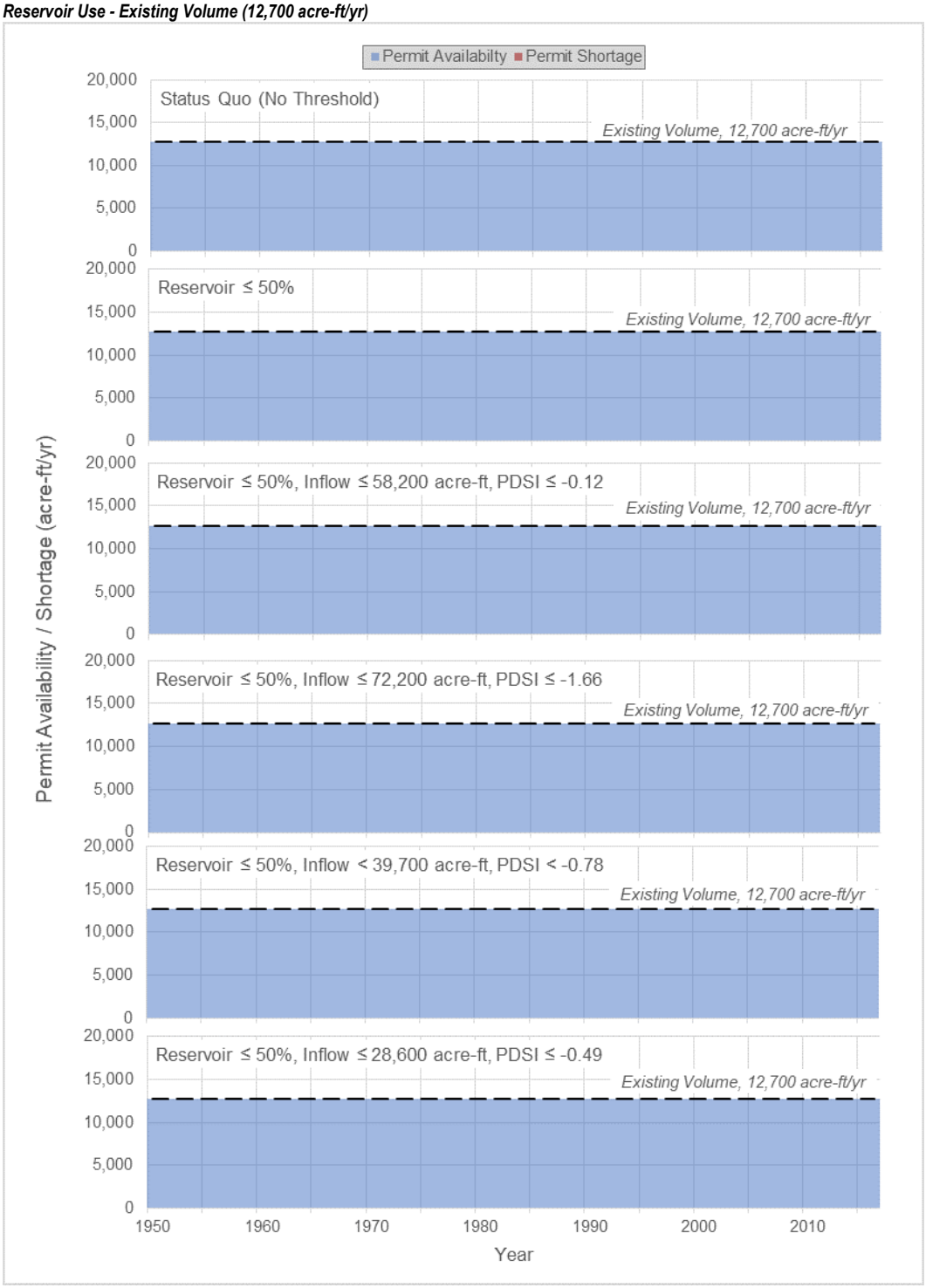

Figure 143. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

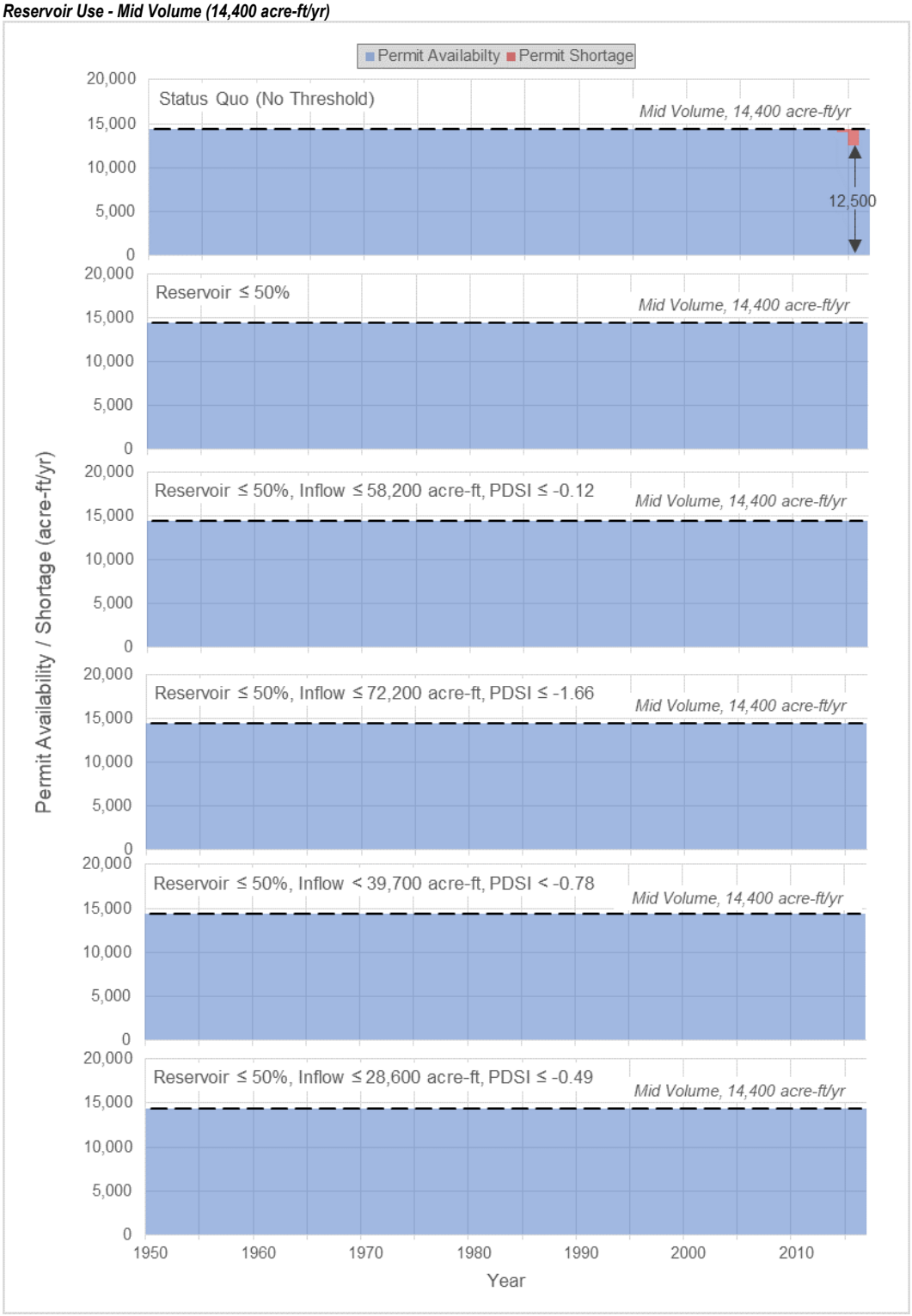

Figure 144. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

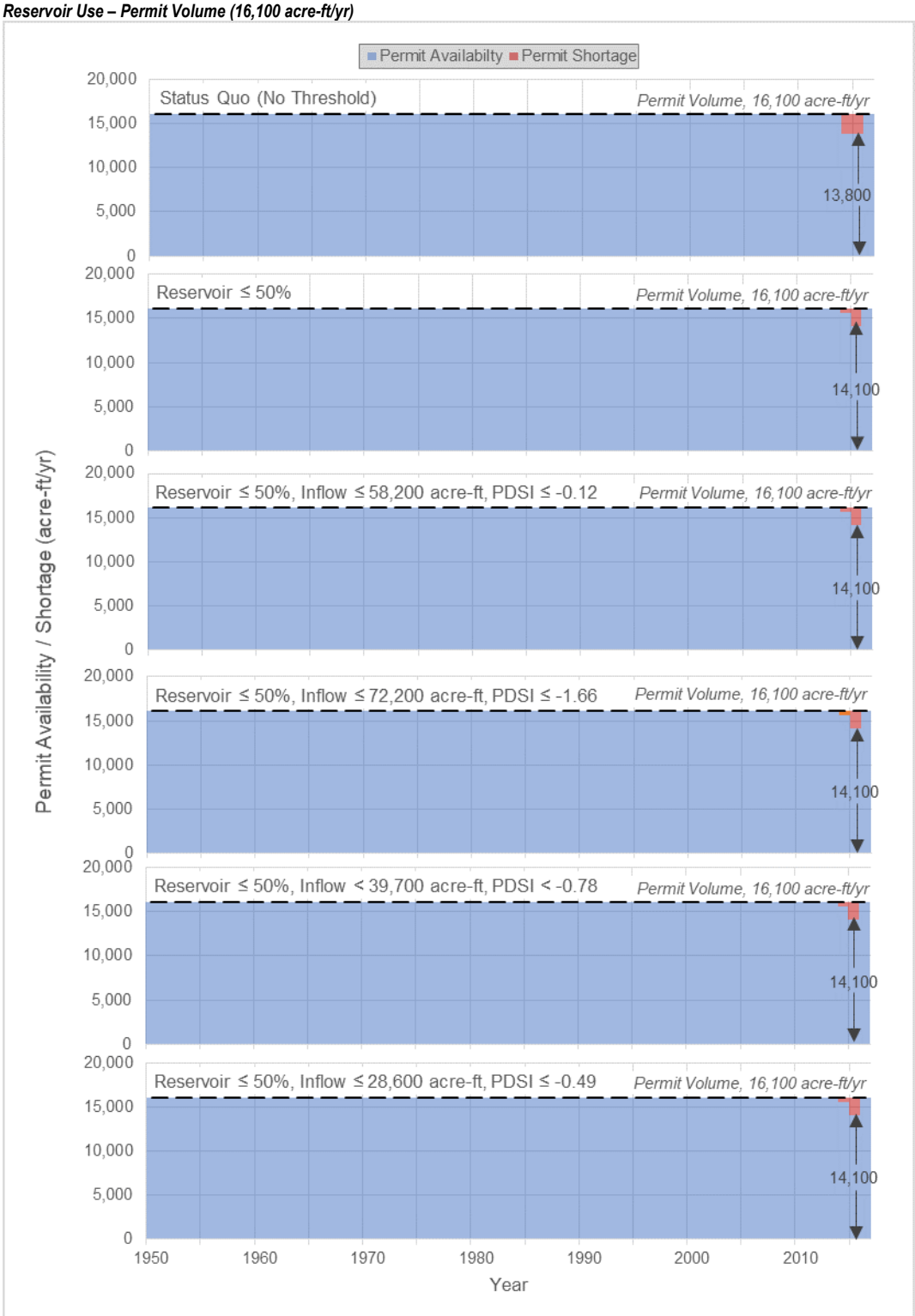

Figure 145. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (2,500 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

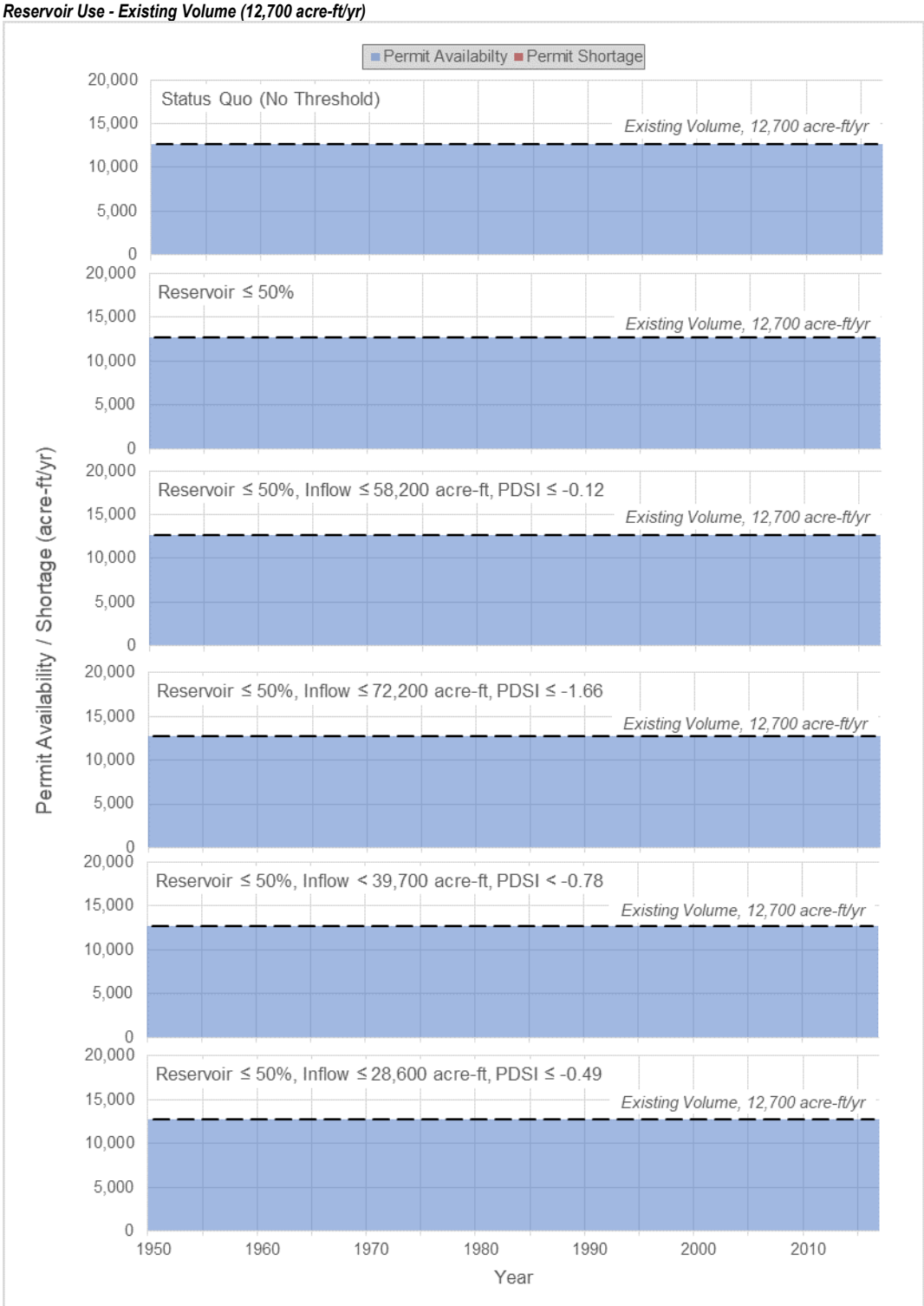

Figure 146. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

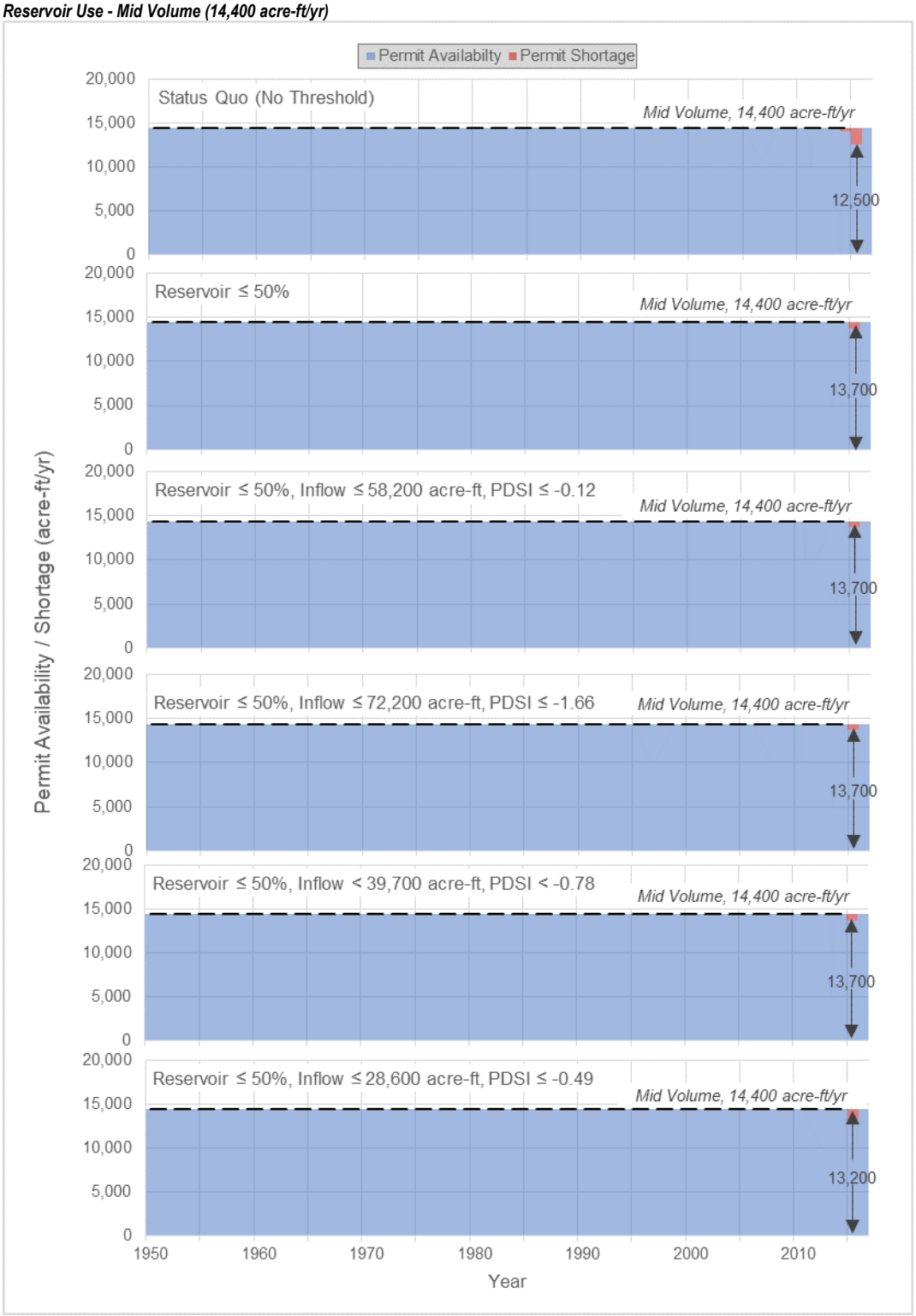

Figure 147. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

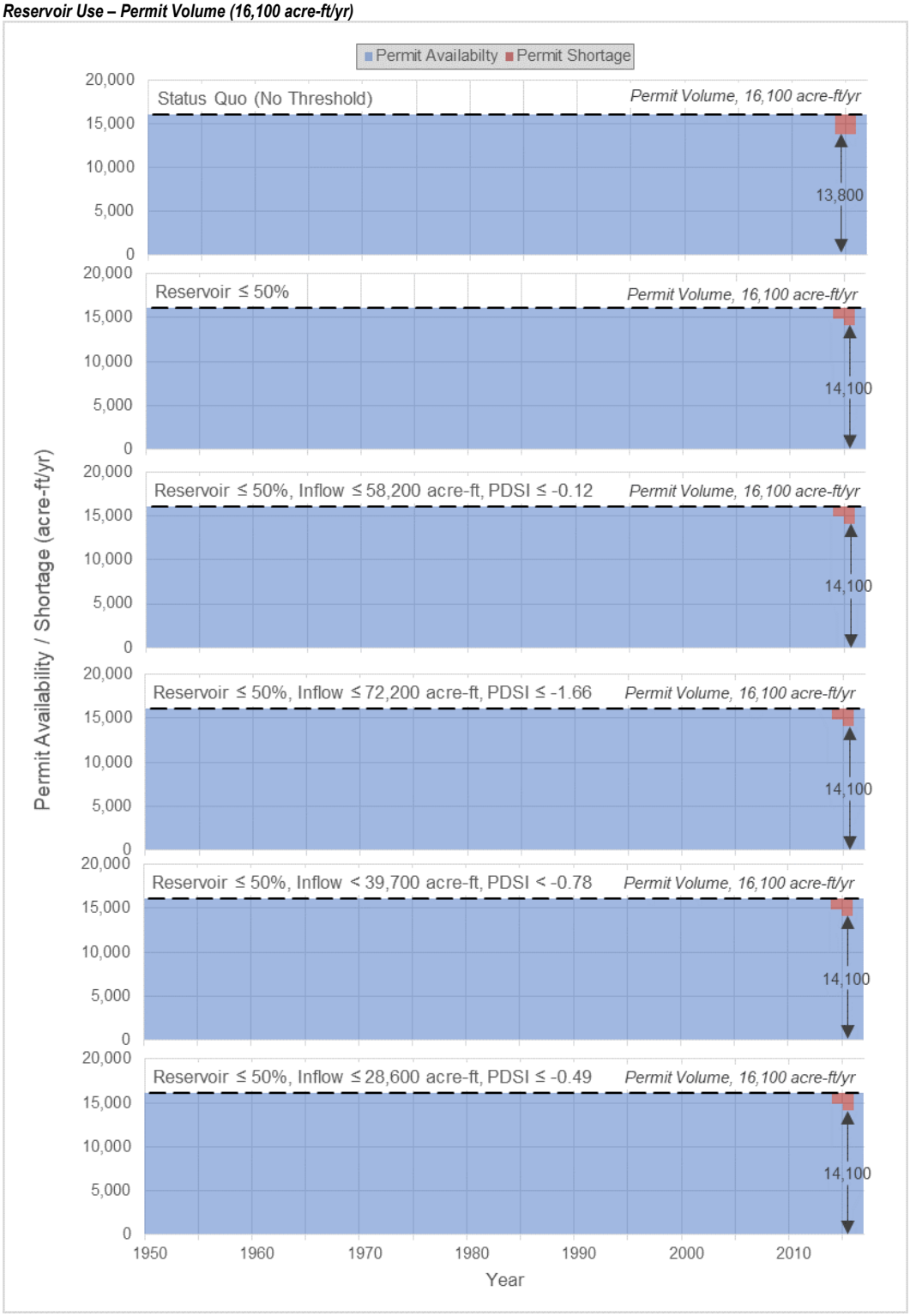

Figure 148. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (2,500 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

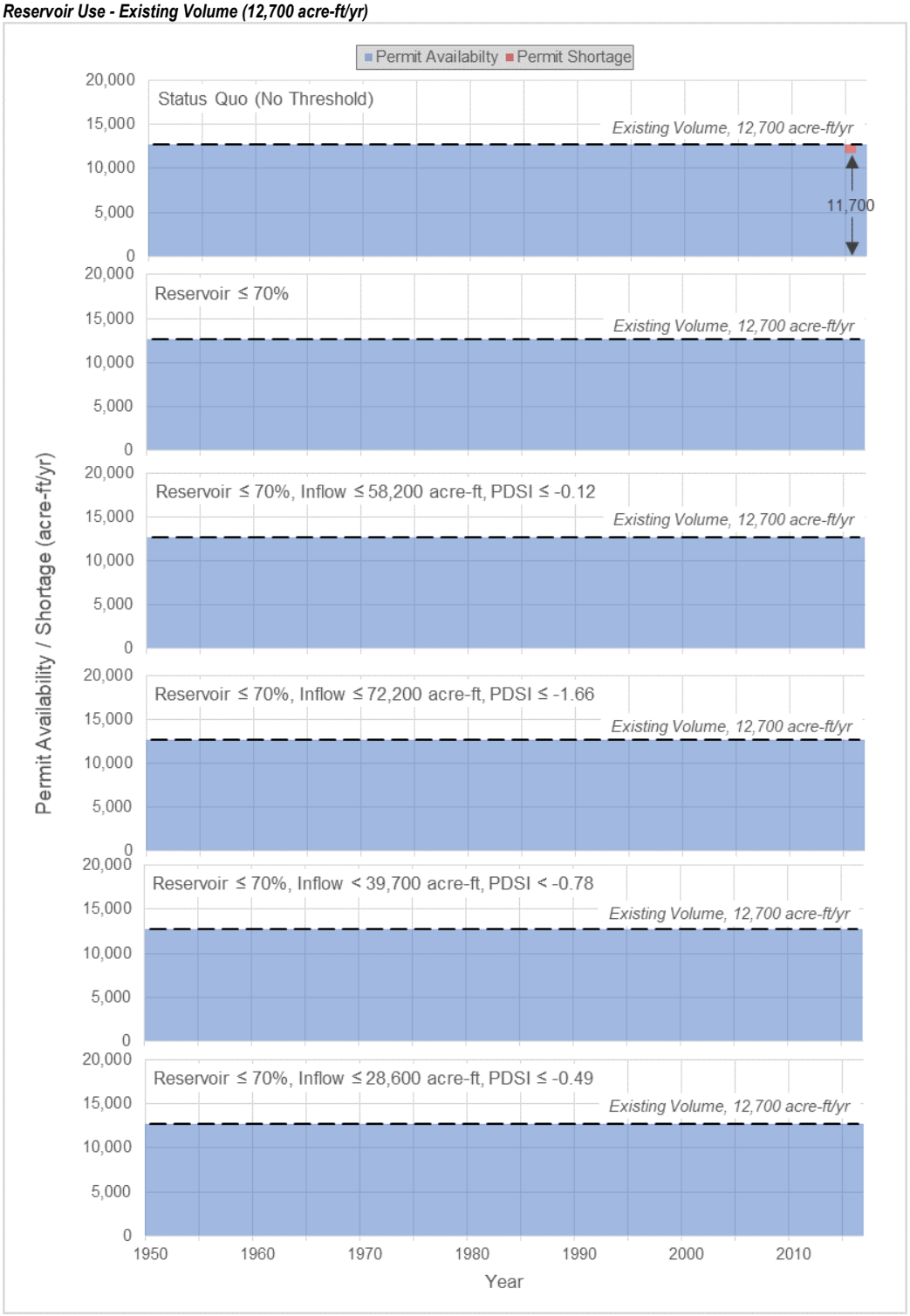

Figure 149. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

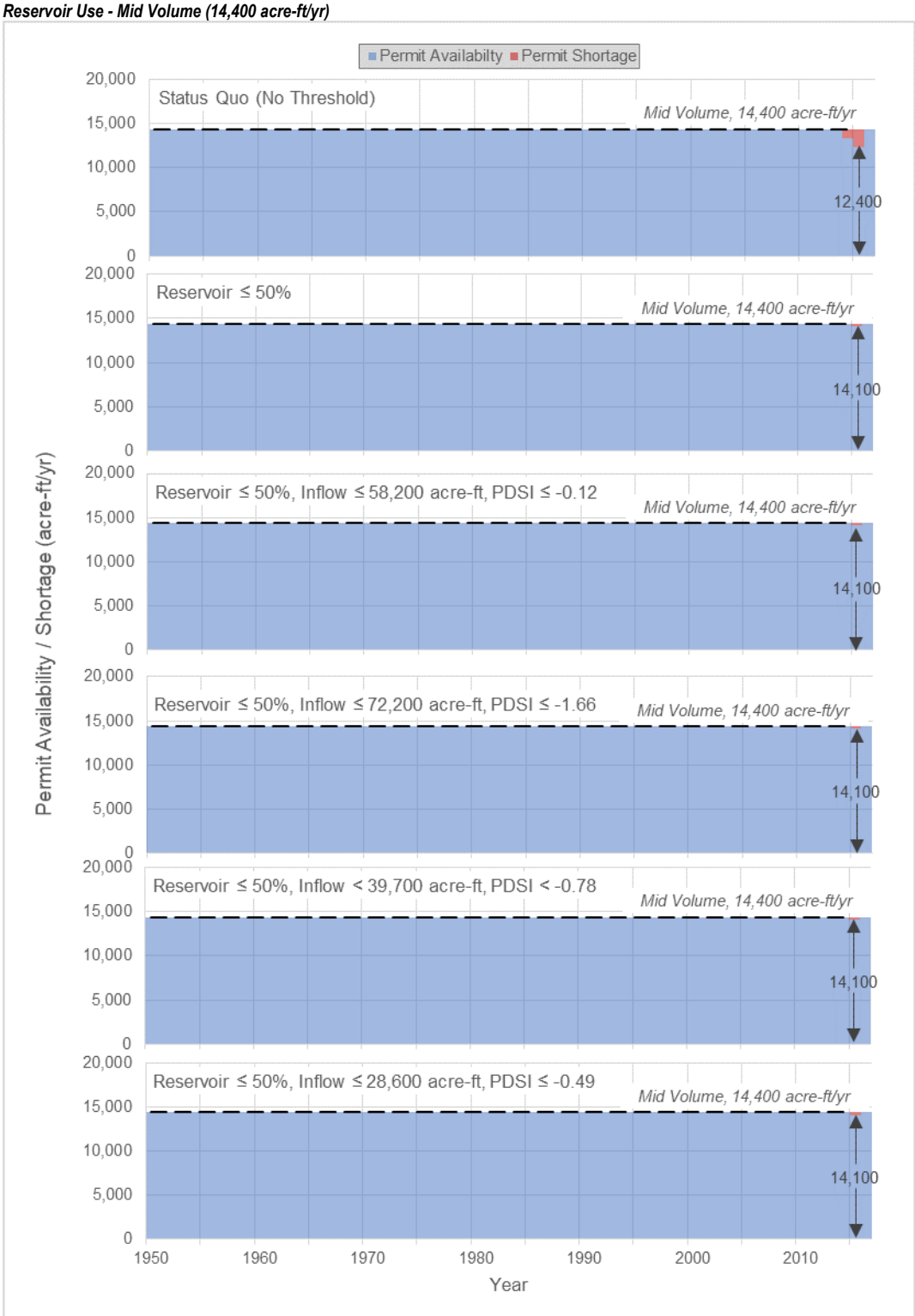

Figure 150. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Permit Volume (16,100 acre-ft/yr)

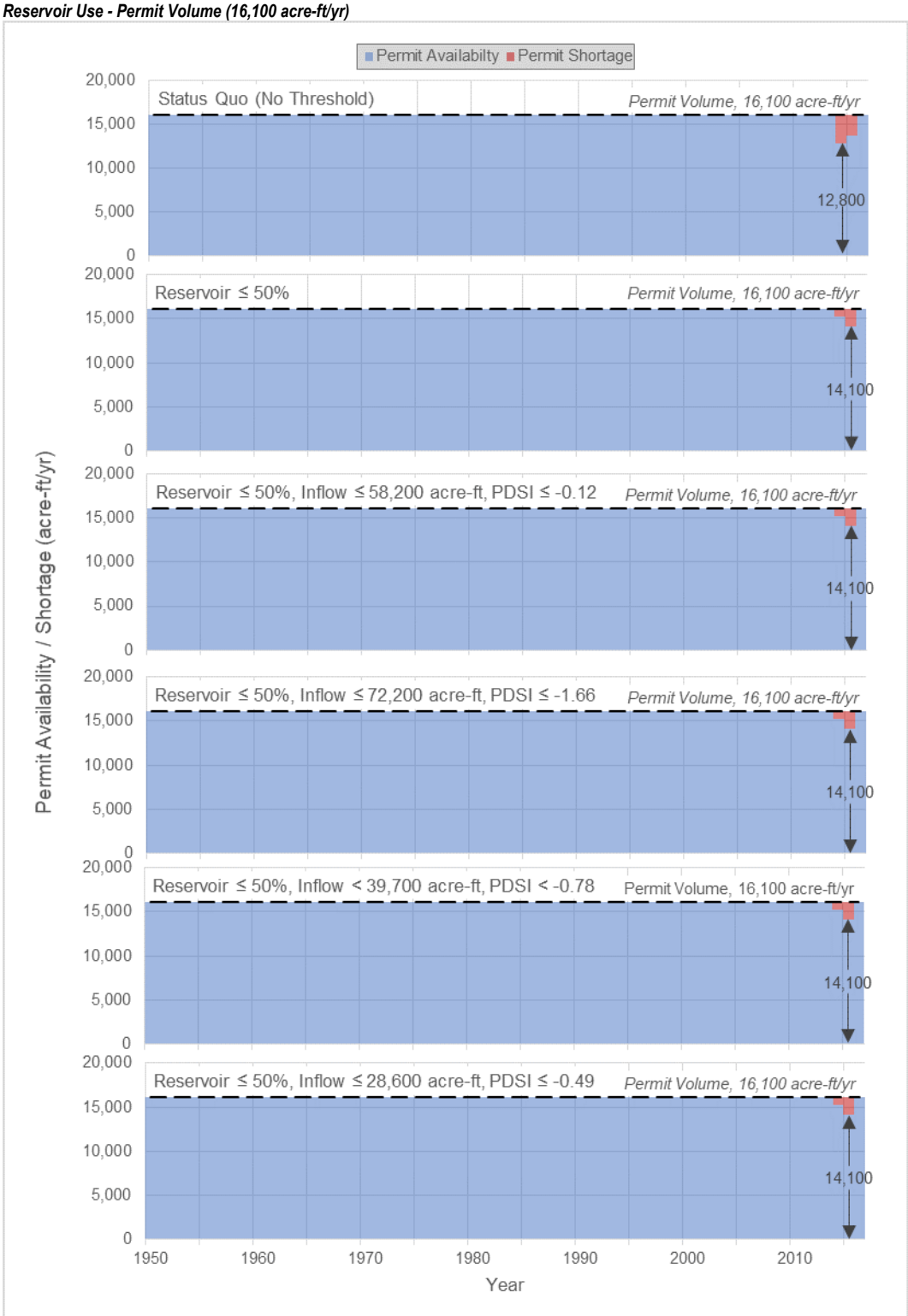

Figure 151. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (5,000 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

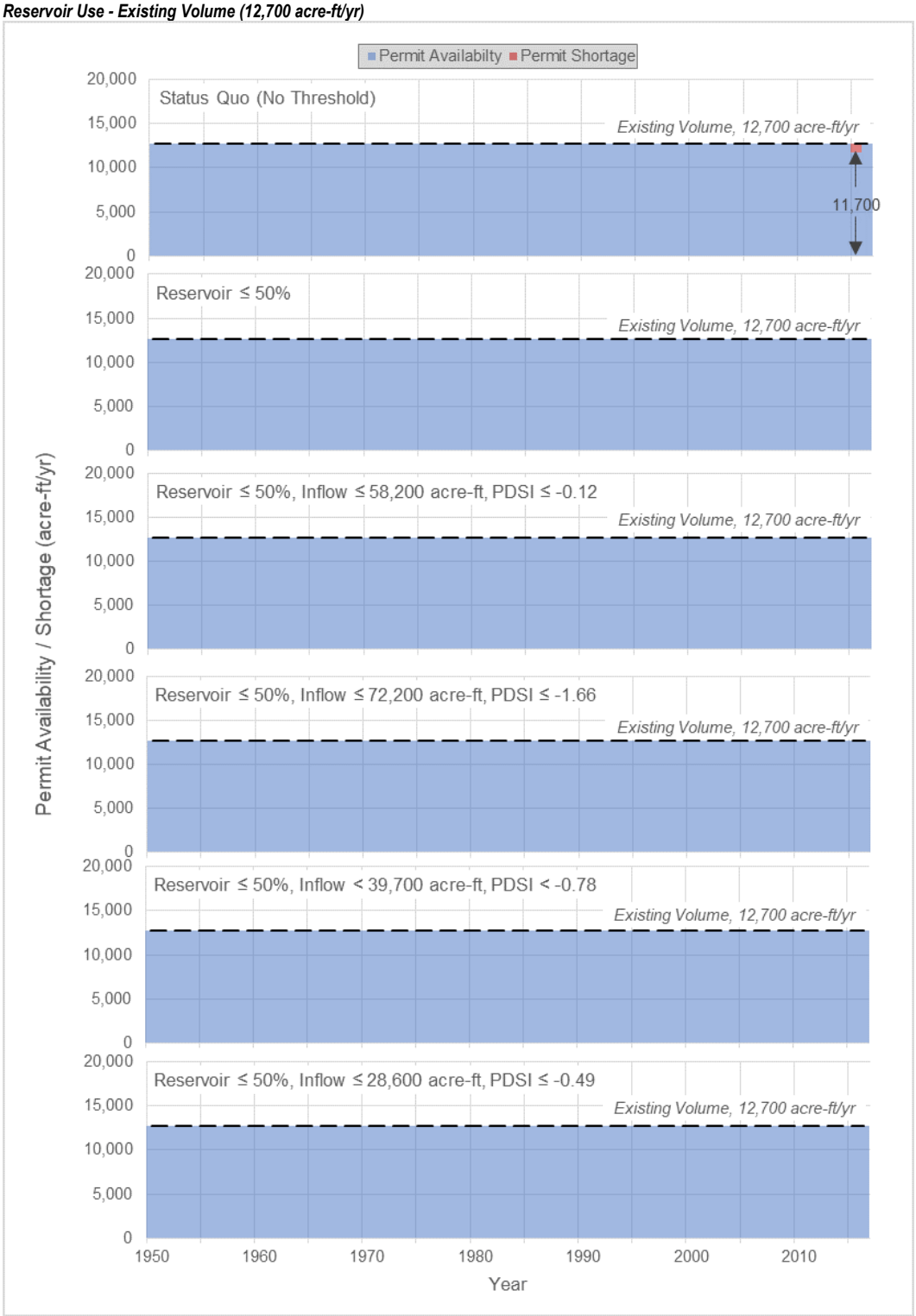

Figure 152. The dependability of Tom Steed Reservoir supply in delivering 12,700 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

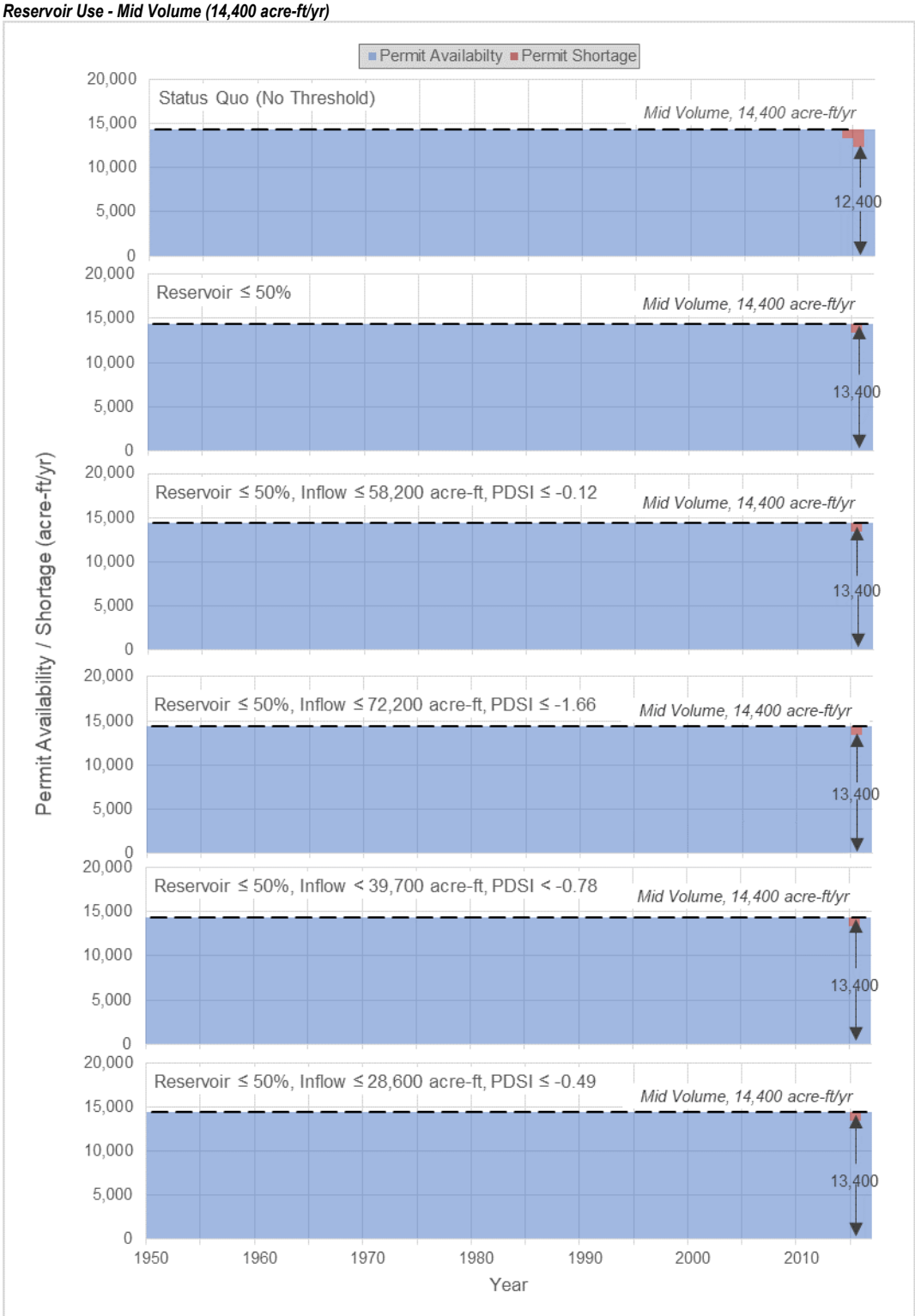

Figure 153. The dependability of Tom Steed Reservoir supply in delivering 14,400 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

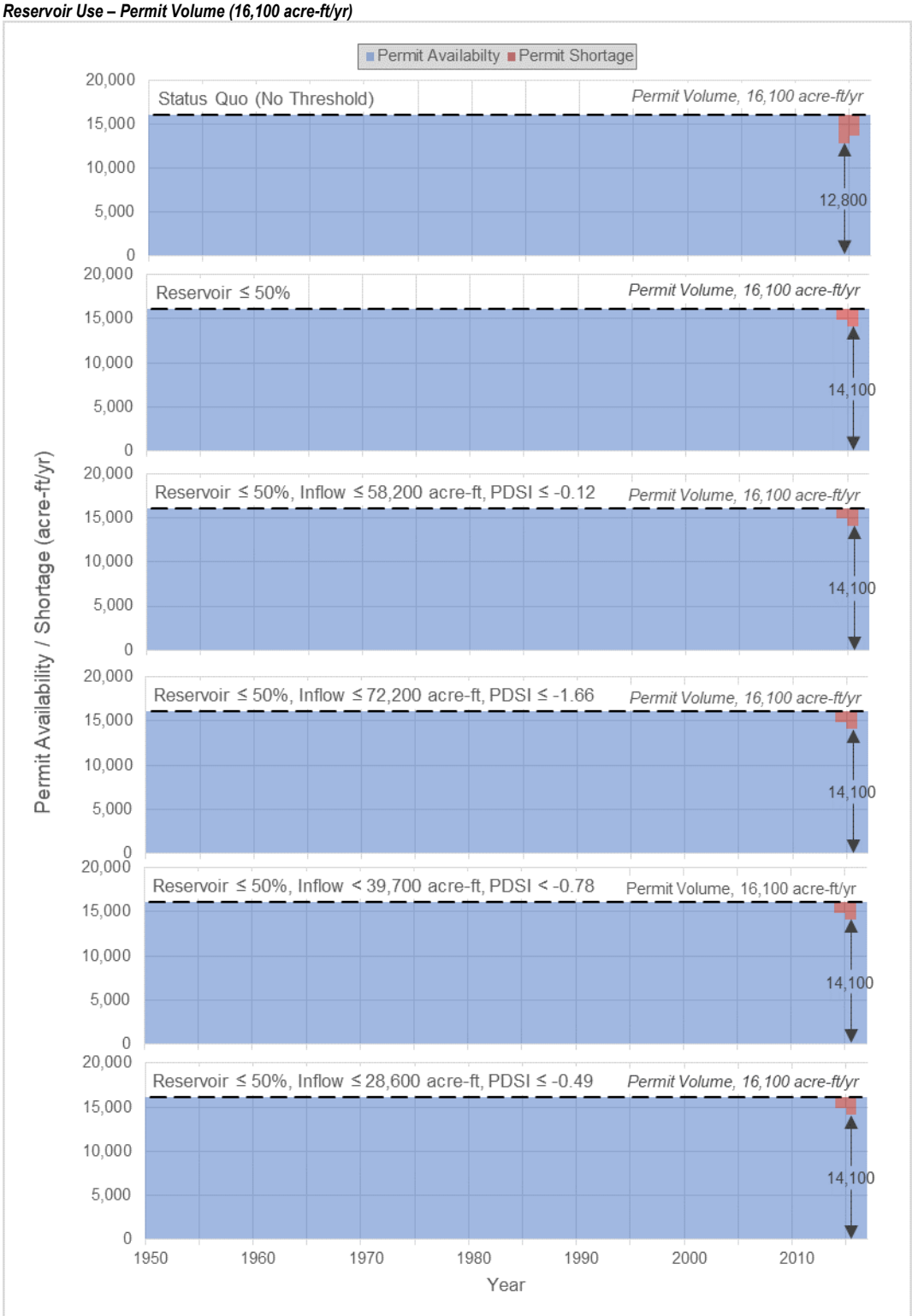

Figure 154. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (5,000 acre-ft.yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

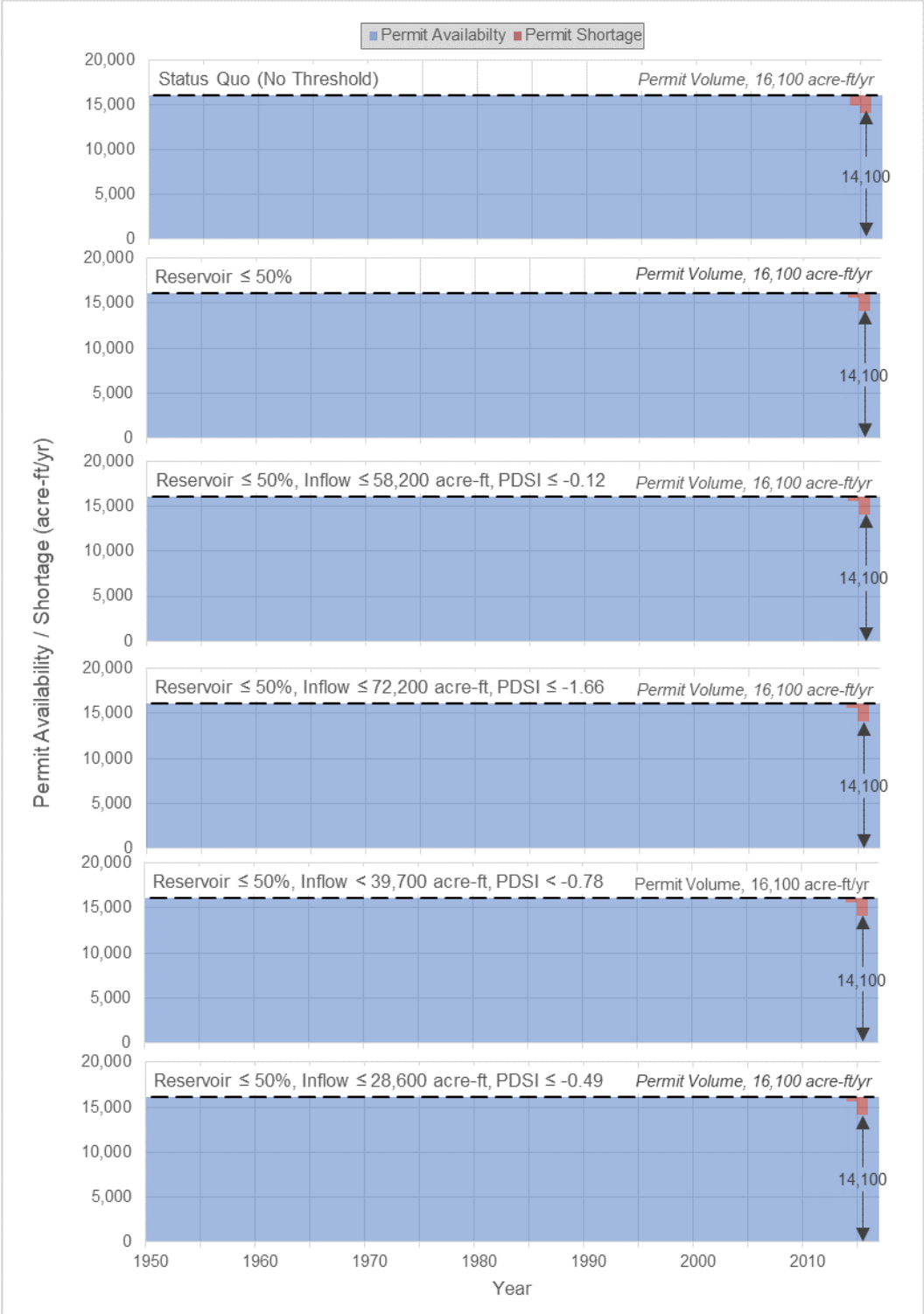

Figure 155. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

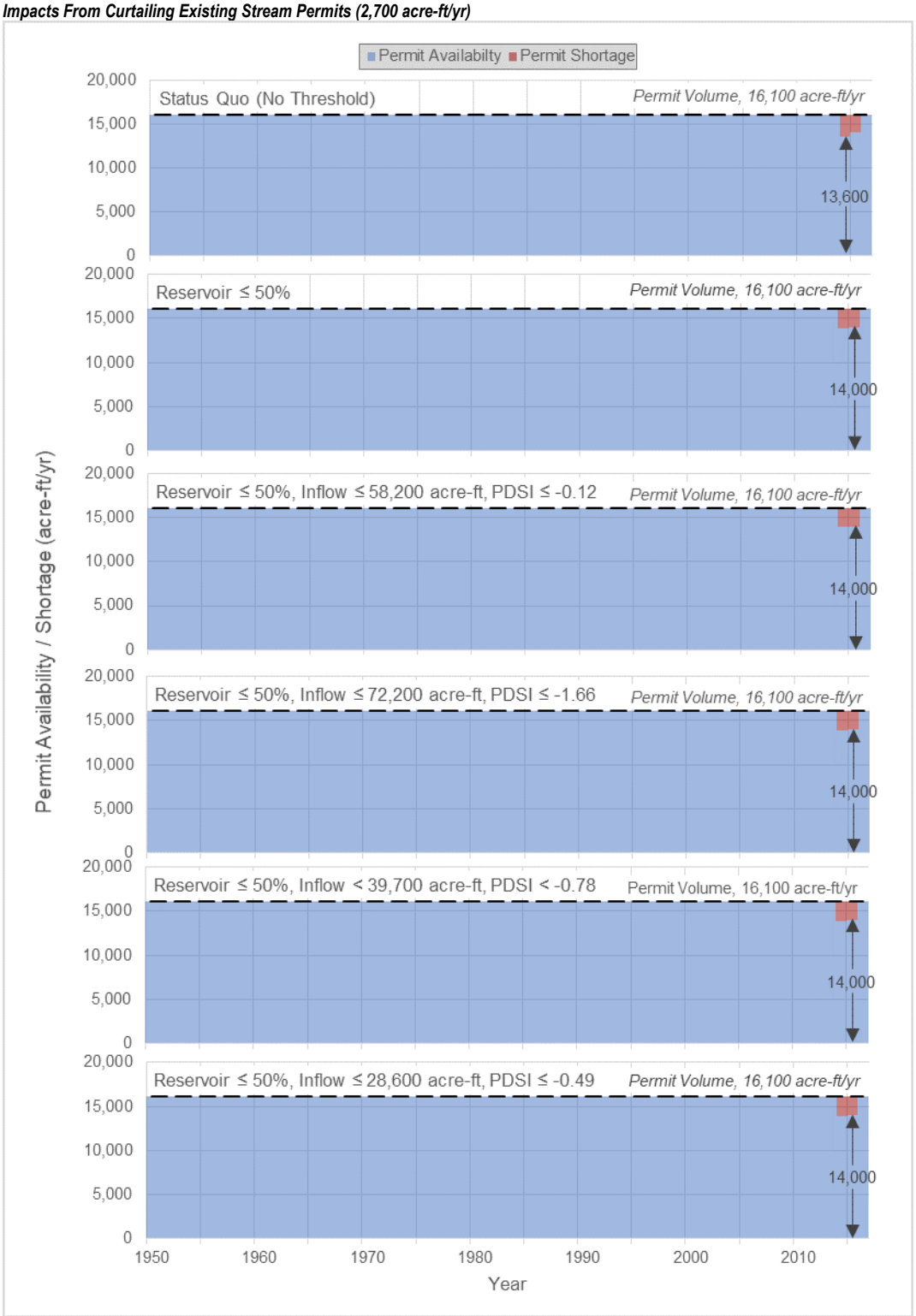

Figure 156. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 35,800 acre-ft/yr)

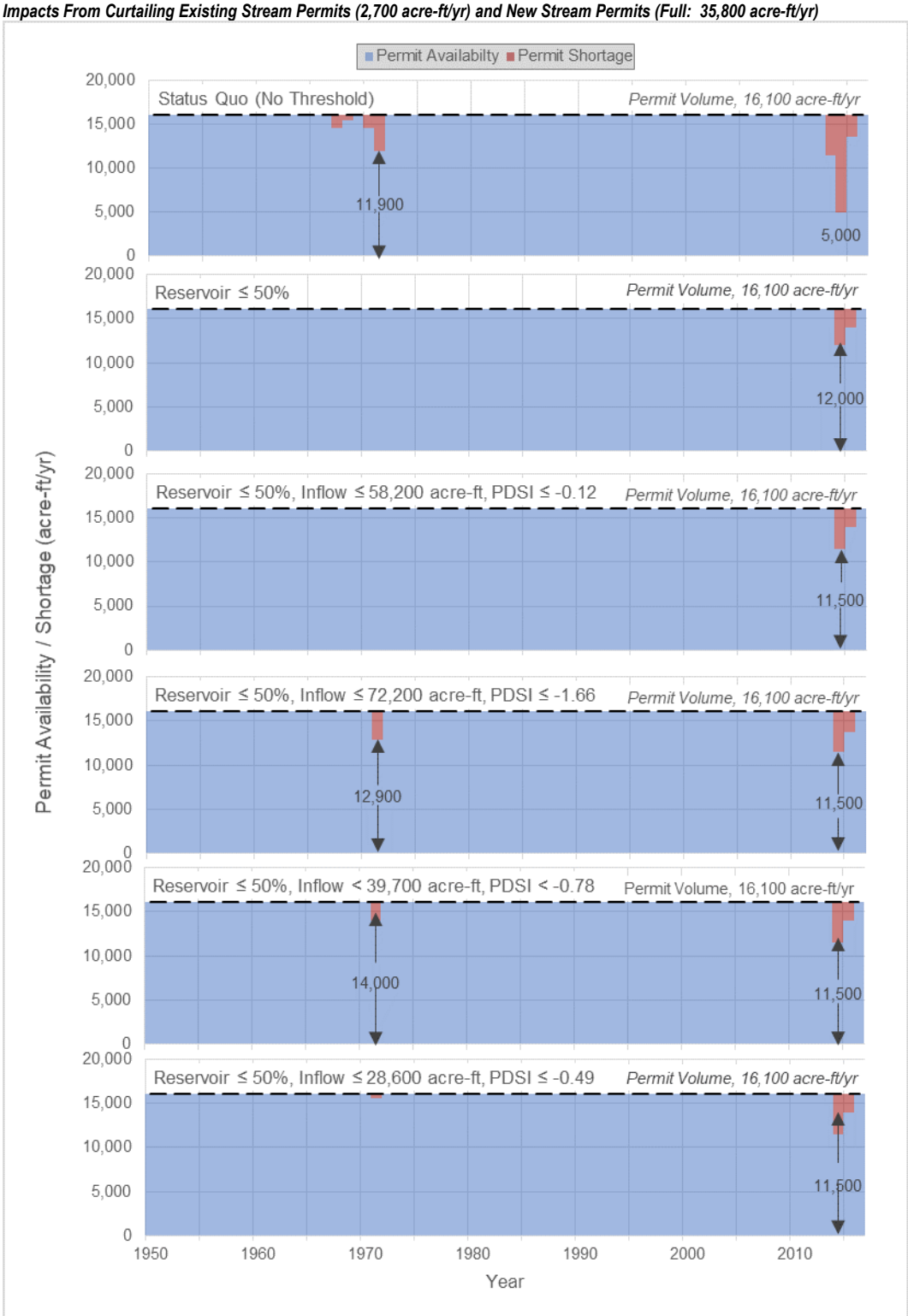

Figure 157. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing New Stream Permits (35,800 acre-ft/yr)

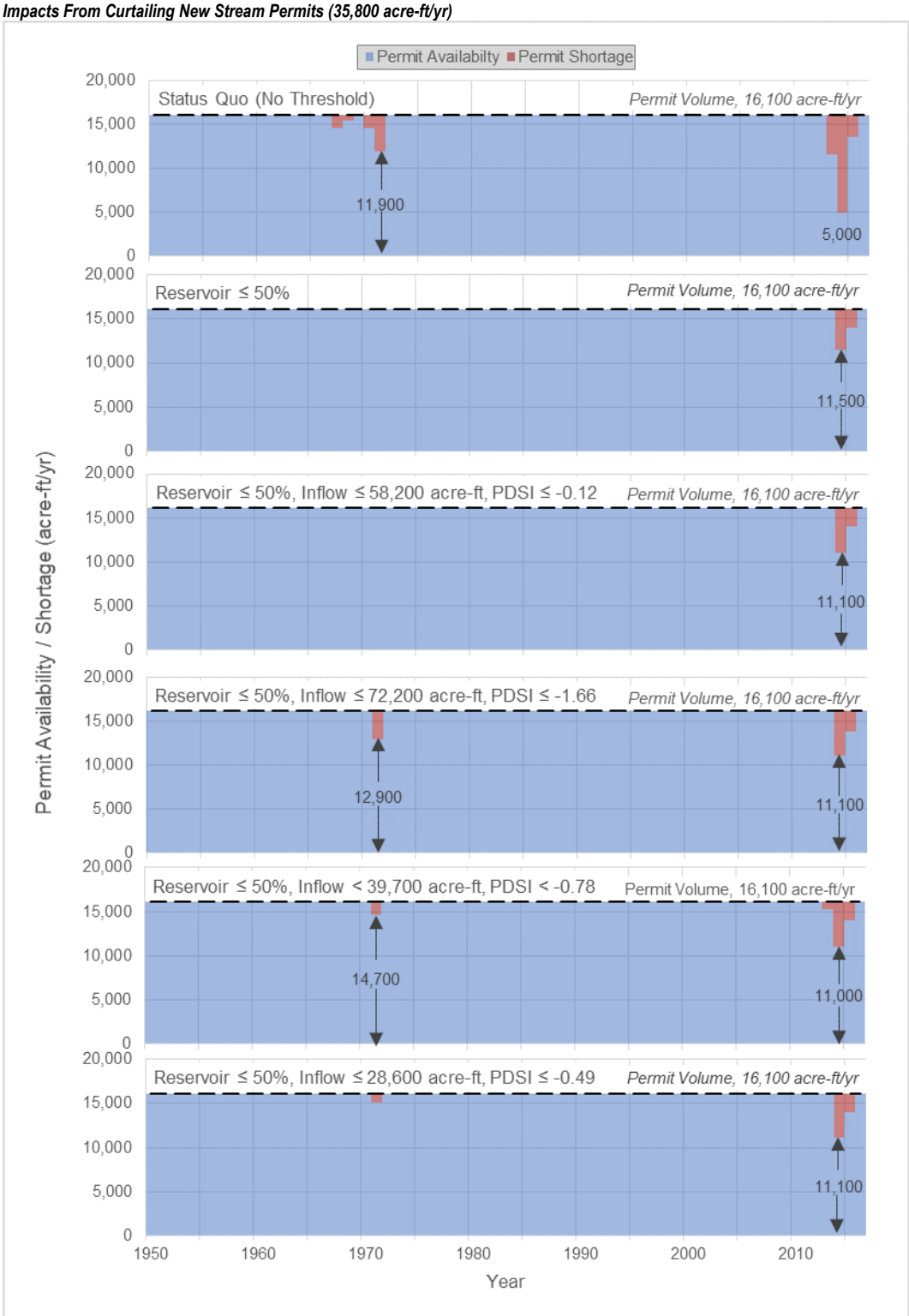

Figure 158. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (35,800 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

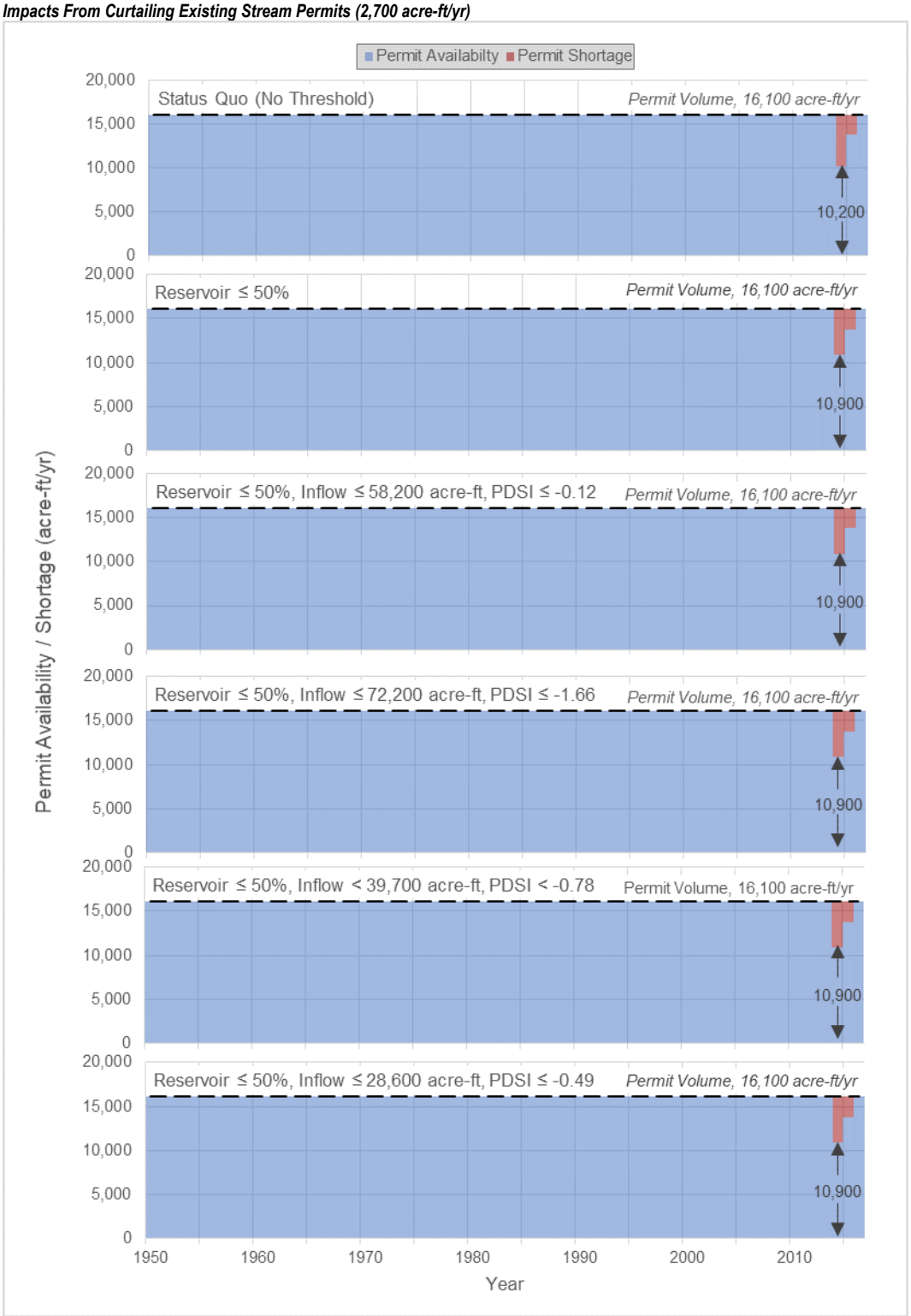

Figure 159. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 33,500 acre-ft/yr)

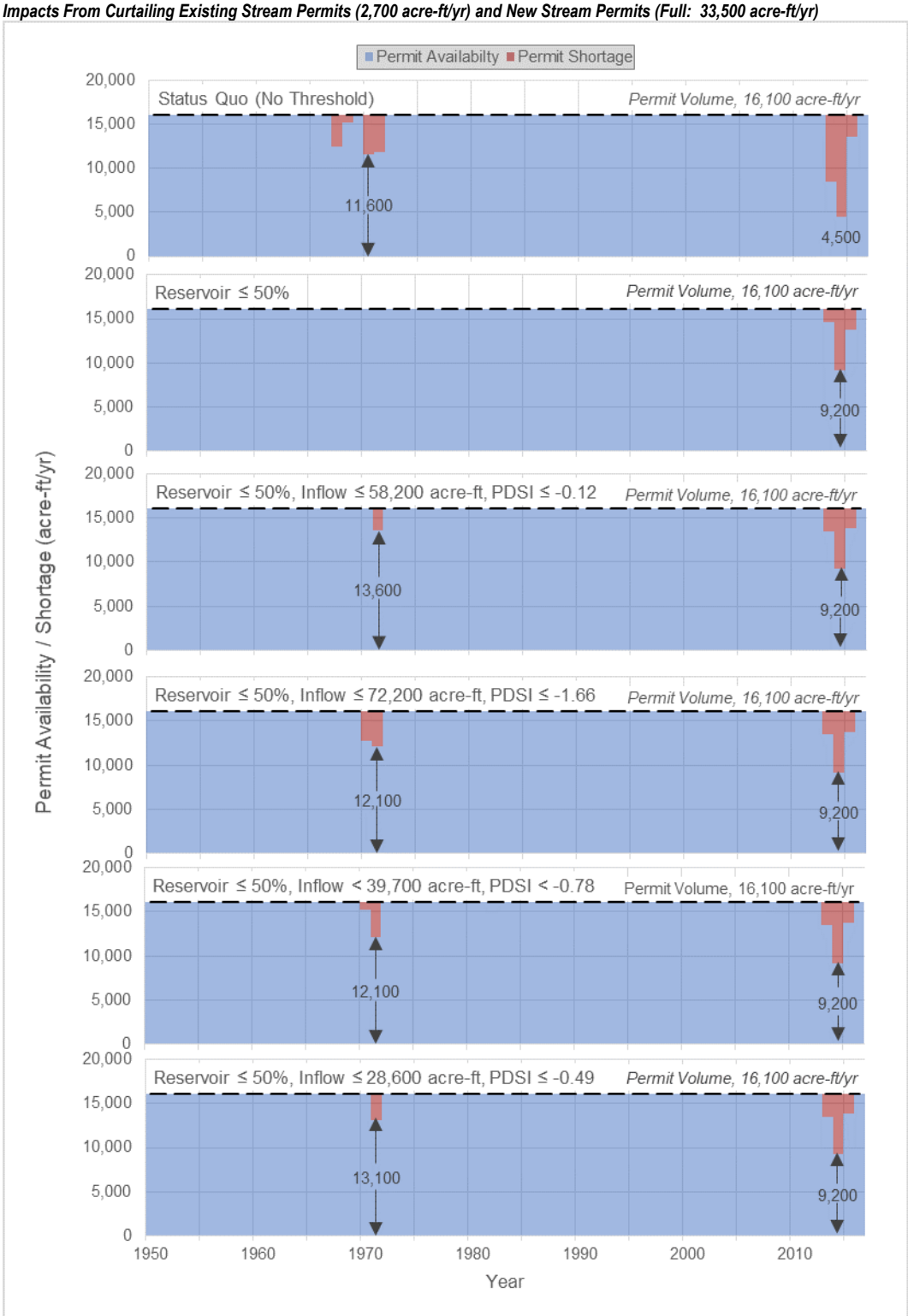

Figure 160. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing existing (2,700 acre-ft/yr) and new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts From Curtailing 33,500 acre-ft/yr of New Stream Permits

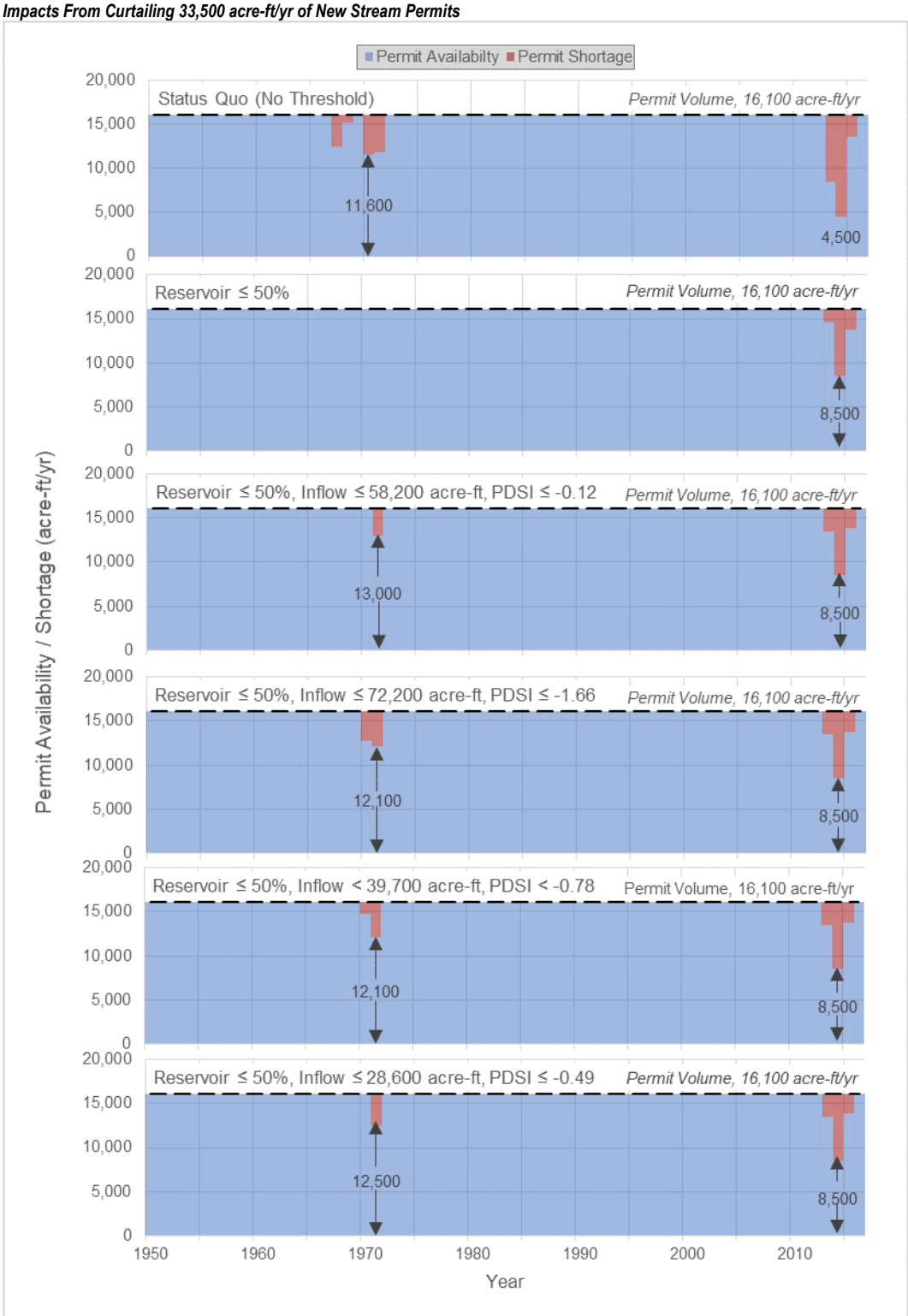

Figure 161. The dependability of Tom Steed Reservoir supply in delivering 16,100 acre-ft/yr for each calendar year that result from curtailing new (33,500 acre-ft/yr) junior stream permits when Tom Steed Reservoir storage is at or below 50% and when both inflow and PDSI are at or below four curtailment threshold combinations.

Impacts on Basin-Wide Individual Permit Availability

Table 22. Regular streamwater permits within the Tom Steed Reservoir watershed, including modeled consumptive demand volume of junior versus senior permit holders.

Location	Permit Number	Permit Owner	Permit Type	Permits Junior to MPMCD[a]		Permits Senior to MPMCD[b]	
				Permitted Volume (acre-ft/yr)	Modeled Consumptive Demand (acre-ft/yr)	Permitted Volume (acre-ft/yr)	Modeled Consumptive Demand (acre-ft/yr)
Elk Creek Drainage Basin	19650249	Private	Recreation, Fish, and Wildlife	-	-	800	600
	19550353	Private	Irrigation	-	-	7.5	7
	19600053	Private	Irrigation	-	-	108	77
	20030029	Private	Irrigation	100	73	-	-
	19740306	Private	Irrigation	20	16	-	-
	19641018	Private	Irrigation	-	-	160	113
	20060043	Private	Irrigation	1,470	1,031	-	-
	19320051	Public	M&I	-	-	631	321
	19650553	Private	Irrigation	-	-	149	106
West Otter and Glen Creeks Drainage Basin	19970006	Public	M&I	1,100	558	-	-
	19820113	Public	Recreation, Fish, and Wildlife	10	10	-	-
	Total			2,700	1,688	1,856	1,224
Reservoir	19670671	MPMCD	M&I	16,100	16,100	16,100	16,100
Downstream of Reservoir	19970010	Private	Irrigation	297	210	-	-
	19980025	Private	Irrigation	1,338	939	-	-
	20060062	Private	Irrigation	320	226	-	-
	19520414	Private	Irrigation	-	-	77	55
	19960036	Private	Recreation, Fish, and Wildlife	15	12	-	-
	20090008	Private	Irrigation	46	34	-	-
	Total			2,016	1,421	77	55

[a] "Junior" is defined as having an application date later than the MPMCD.
[a] "Senior" is defined as having an application date earlier than the MPMCD.

Table 23. New stream water permits upstream of Tom Steed Reservoir and the amount divided between each tributary.

	Total New Permits	Elk Creek	Otter Creek
Low	2,500 ac-ft/year	625 ac-ft/year	1,875 ac-ft/year
High	5,000 ac-ft/year	1,250 ac-ft/year	3,750 ac-ft/year
Full (Low)	35,800 ac-ft/year	8,900 ac-ft/year	26,900 ac-ft/year
Full (High)	33,500 ac-ft/year	8,400 ac-ft/year	25,100 ac-ft/year

Table 24. Breakdown of new permit calculations upstream of Tom Steed Reservoir.

	Full GW, Existing SW Permits, Domestic SW (Low)	Full GW, Existing SW Permits, Domestic SW (High)
Elk Creek Flow (acre-ft/yr)	19,000	17,800
Otter Creek Flow (acre-ft/yr)	32,900	31,800
Total Flow (acre-ft/yr)	51,900	49,600
	Full GW, Full SW Permits, Domestic SW (Low)	**Full GW, Full SW Permits, Domestic SW (High)**
Available Flow for New Permits (acre-ft/yr)	51,900 – 16,100 = **35,800**	49,600 – 16,100 = **33,500**
New Permits on Elk Creek (acre-ft/yr)	8,900	8,400
New Permits on Otter Creek (acre-ft/yr)	26,900	25,100
Total Upstream Junior Permits	**35,800**	**33,500**

Existing and/or New Groundwater Permit Use and Existing Domestic Use Conditions

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

Table 25. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 99%	7 100% 94%	7 100% 93%	7 100% 90%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 99% 87%	7 99% 87%
		19600053	108	103 100% 87%	104 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	665 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	31 58% 10%	52 72% 24%	64 82% 40%	71 88% 51%	82 93% 64%	82 93% 64%	73 87% 55%	75 88% 60%	68 88% 42%	74 91% 52%
		19740306	20	19 100% 93%	6 60% 10%	10 72% 24%	13 82% 40%	14 88% 52%	17 93% 72%	17 93% 72%	15 87% 57%	15 88% 61%	14 88% 43%	15 91% 54%
		19641018	160	152 99% 90%	158 100% 96%	157 100% 94%	157 100% 94%	155 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 99% 93%	153 99% 93%
		20060043	1,470	1,237 99% 55%	441 58% 7%	706 72% 22%	875 82% 34%	959 87% 39%	1,090 91% 45%	1,090 91% 45%	976 85% 39%	1,008 87% 42%	904 87% 34%	978 90% 39%
	30302	19650553	149	116 97% 40%	136 100% 70%	131 100% 60%	126 100% 54%	124 99% 49%	121 99% 48%	121 99% 48%	123 99% 51%	122 99% 48%	125 97% 54%	122 97% 49%
		19970006	1,100	958 100% 37%	607 99% 7%	713 99% 18%	785 99% 28%	824 99% 31%	884 100% 36%	884 100% 36%	830 99% 34%	847 99% 34%	805 100% 28%	836 100% 31%
		19320051	631	595 100% 75%	616 100% 76%	614 100% 76%	614 100% 76%	610 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	601 100% 76%	601 100% 76%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	3 66% 4%	5 75% 13%	6 79% 30%	7 85% 34%	8 93% 46%	8 93% 46%	7 87% 40%	7 88% 40%	6 85% 30%	7 88% 34%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	79 57% 9%	112 69% 16%	133 78% 21%	141 82% 21%	160 88% 25%	160 88% 25%	144 82% 22%	147 84% 22%	138 81% 21%	143 84% 21%
		19980025	1,338	1,204 100% 43%	1,006 100% 16%	1,083 100% 24%	1,123 100% 33%	1,143 100% 36%	1,167 100% 39%	1,167 100% 39%	1,144 100% 36%	1,151 100% 37%	1,143 100% 33%	1,153 100% 36%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	5 21% 3%	19 66% 18%	27 78% 39%	32 85% 52%	38 93% 72%	38 93% 72%	33 87% 57%	34 88% 61%	30 85% 46%	34 88% 58%
		19960036	15	15 100% 97%	2 21% 3%	6 66% 18%	9 78% 39%	10 85% 52%	12 93% 70%	12 93% 70%	11 87% 57%	11 88% 61%	10 85% 43%	11 88% 55%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 25. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	665 100% 21%	664 100% 21%	665 100% 21%	664 100% 21%	665 100% 21%	664 100% 21%	665 100% 21%	664 100% 21%
		20030029	100	95 100% 79%	75 91% 57%	89 97% 69%	86 96% 67%	93 99% 75%	86 96% 67%	93 99% 75%	86 96% 67%	93 99% 75%	86 96% 67%	93 99% 75%
		19740306	20	19 100% 93%	15 91% 60%	18 97% 82%	17 96% 78%	19 99% 88%	17 96% 78%	19 99% 88%	17 96% 78%	19 99% 88%	17 96% 78%	19 99% 88%
		19641018	160	152 99% 90%	154 99% 93%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	994 90% 39%	1,153 96% 48%	1,129 94% 46%	1,205 97% 51%	1,129 94% 46%	1,205 97% 51%	1,129 94% 46%	1,205 97% 51%	1,129 94% 46%	1,205 97% 51%
	30302	19650553	149	116 97% 40%	122 99% 49%	117 97% 45%	119 97% 46%	116 97% 43%	119 97% 46%	116 97% 43%	119 97% 46%	116 97% 43%	119 97% 46%	116 97% 43%
		19970006	1,100	958 100% 37%	847 100% 31%	919 100% 37%	908 100% 36%	943 100% 37%	908 100% 36%	943 100% 37%	908 100% 36%	943 100% 37%	908 100% 36%	943 100% 37%
		19320051	631	595 100% 75%	603 100% 76%	597 100% 76%	597 100% 76%	596 100% 75%	597 100% 76%	596 100% 75%	597 100% 76%	596 100% 75%	597 100% 76%	596 100% 75%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	7 90% 39%	9 97% 55%	8 96% 51%	9 99% 58%	8 96% 51%	9 99% 58%	8 96% 51%	9 99% 58%	8 96% 51%	9 99% 58%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	145 85% 22%	164 90% 25%	161 90% 25%	168 91% 25%	161 90% 25%	168 91% 25%	161 90% 25%	168 91% 25%	161 90% 25%	168 91% 25%
		19980025	1,338	1,204 100% 43%	1,152 100% 36%	1,193 100% 40%	1,185 100% 40%	1,203 100% 42%	1,185 100% 40%	1,203 100% 42%	1,185 100% 40%	1,203 100% 42%	1,185 100% 40%	1,203 100% 42%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	34 88% 61%	43 97% 88%	41 96% 84%	45 99% 96%	41 96% 84%	45 99% 96%	41 96% 84%	45 99% 96%	41 96% 84%	45 99% 96%
		19960036	15	15 100% 97%	11 88% 60%	14 97% 85%	13 96% 81%	14 99% 93%	13 96% 81%	14 99% 93%	13 96% 81%	14 99% 93%	13 96% 81%	14 99% 93%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

Table 26. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 99%	7 100% 94%	7 100% 93%	7 100% 93%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 99% 87%	7 99% 87%
		19600053	108	103 100% 87%	104 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	665 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	31 57% 10%	50 69% 24%	63 82% 39%	64 82% 40%	82 93% 64%	82 93% 64%	72 87% 54%	72 87% 55%	67 88% 42%	67 88% 42%
		19740306	20	19 100% 93%	6 58% 10%	10 69% 24%	13 82% 39%	13 82% 40%	17 93% 72%	17 93% 72%	14 87% 55%	15 87% 57%	14 88% 43%	14 88% 43%
		19641018	160	152 99% 90%	158 100% 96%	157 100% 94%	157 100% 94%	157 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 99% 93%	153 99% 93%
		20060043	1,470	1,237 99% 55%	433 57% 7%	690 69% 22%	857 82% 33%	869 82% 34%	1,090 91% 45%	1,090 91% 45%	958 85% 37%	970 85% 39%	899 87% 34%	899 87% 34%
	30302	19650553	149	116 97% 40%	136 100% 70%	132 100% 61%	126 100% 54%	126 100% 54%	121 99% 48%	121 99% 48%	123 99% 51%	123 99% 51%	125 97% 54%	125 97% 54%
		19970006	1,100	958 100% 37%	607 99% 7%	705 99% 18%	781 99% 27%	785 99% 28%	884 100% 36%	884 100% 36%	826 99% 33%	830 99% 34%	805 100% 28%	805 100% 28%
		19320051	631	595 100% 75%	616 100% 76%	614 100% 76%	614 100% 76%	614 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	601 100% 76%	601 100% 76%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	3 66% 4%	4 72% 13%	6 79% 30%	6 79% 30%	8 93% 46%	8 93% 46%	7 87% 40%	7 87% 40%	6 85% 30%	6 85% 30%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	14,358 100% 99%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	78 57% 9%	110 66% 16%	131 78% 21%	133 78% 21%	160 88% 25%	160 88% 25%	141 82% 22%	143 82% 22%	137 81% 21%	137 81% 21%
		19980025	1,338	1,204 100% 43%	1,006 100% 16%	1,076 100% 24%	1,117 100% 33%	1,123 100% 33%	1,167 100% 39%	1,167 100% 39%	1,138 100% 36%	1,144 100% 36%	1,143 100% 33%	1,143 100% 33%
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	5 21% 3%	19 63% 18%	26 78% 36%	27 78% 39%	38 93% 72%	38 93% 72%	32 87% 54%	33 87% 57%	30 85% 46%	30 85% 46%
		19960036	15	15 100% 97%	2 21% 3%	6 63% 18%	9 78% 36%	9 78% 39%	12 93% 70%	12 93% 70%	10 87% 54%	11 87% 57%	10 85% 43%	10 85% 43%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 26. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 85%	7 99% 84%	7 99% 85%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	665 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	74 91% 55%	86 96% 67%	77 93% 57%	86 96% 67%	82 93% 64%	86 96% 67%	79 93% 60%	86 96% 67%	78 94% 58%	86 96% 67%
		19740306	20	19 100% 93%	15 91% 58%	17 96% 78%	16 93% 61%	17 96% 78%	17 93% 72%	17 96% 78%	16 93% 64%	17 96% 78%	16 94% 63%	17 96% 78%
		19641018	160	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	153 99% 91%	152 99% 90%
		20060043	1,470	1,237 99% 55%	988 90% 39%	1,129 94% 46%	1,019 91% 40%	1,129 94% 46%	1,090 91% 45%	1,129 94% 46%	1,046 91% 42%	1,129 94% 46%	1,026 93% 40%	1,129 94% 46%
	30302	19650553	149	116 97% 40%	124 99% 49%	119 97% 46%	123 99% 49%	119 97% 46%	121 99% 48%	119 97% 46%	121 99% 48%	119 97% 46%	121 97% 49%	119 97% 46%
		19970006	1,100	958 100% 37%	844 100% 31%	908 100% 36%	856 100% 33%	908 100% 36%	884 100% 36%	908 100% 36%	866 100% 34%	908 100% 36%	863 100% 33%	908 100% 36%
		19320051	631	595 100% 75%	606 100% 76%	597 100% 76%	606 100% 76%	597 100% 76%	605 100% 76%	597 100% 76%	603 100% 76%	597 100% 76%	600 100% 76%	597 100% 76%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	7 88% 39%	8 96% 51%	7 90% 42%	8 96% 51%	8 93% 46%	8 96% 51%	7 93% 42%	8 96% 51%	7 91% 42%	8 96% 51%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	14,358 100% 99%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	145 85% 22%	161 90% 25%	149 88% 22%	161 90% 25%	160 88% 25%	161 90% 25%	151 88% 22%	161 90% 25%	149 88% 22%	161 90% 25%
		19980025	1,338	1,204 100% 43%	1,147 100% 36%	1,185 100% 40%	1,154 100% 37%	1,185 100% 40%	1,167 100% 39%	1,185 100% 40%	1,161 100% 37%	1,185 100% 40%	1,164 100% 37%	1,185 100% 40%
	30304	20060062	320	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	34 87% 60%	41 96% 84%	35 90% 63%	41 96% 84%	38 93% 72%	41 96% 84%	36 93% 66%	41 96% 84%	36 91% 67%	41 96% 84%
		19960036	15	15 100% 97%	11 87% 58%	13 96% 81%	11 90% 61%	13 96% 81%	12 93% 70%	13 96% 81%	12 93% 64%	13 96% 81%	12 91% 64%	13 96% 81%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

Table 27. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment any month.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	8 100% 100%	7 100% 94%	7 100% 99%	7 100% 94%	7 99% 90%	7 99% 90%	7 100% 91%	7 100% 90%	7 100% 99%	7 100% 94%
		19600053	108	103 100% 87%	104 100% 84%	104 100% 85%	103 100% 84%	104 100% 85%	103 100% 87%	103 100% 87%	104 100% 87%	104 100% 87%	103 100% 84%	104 100% 85%
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%
		20030029	100	95 100% 79%	36 60% 15%	54 72% 34%	62 75% 46%	67 78% 49%	81 88% 67%	81 88% 69%	74 81% 58%	75 82% 60%	62 76% 46%	67 79% 49%
		19740306	20	19 100% 93%	7 60% 15%	11 72% 34%	12 75% 48%	13 78% 52%	16 88% 78%	16 88% 79%	15 81% 64%	15 82% 66%	12 76% 48%	14 79% 52%
		19641018	160	152 99% 90%	158 100% 96%	156 100% 93%	157 100% 94%	156 100% 93%	154 99% 93%	154 99% 93%	156 100% 93%	156 100% 93%	157 100% 94%	156 100% 93%
		20060043	1,470	1,237 99% 55%	518 60% 13%	755 70% 33%	865 75% 39%	915 76% 42%	1,067 87% 48%	1,070 87% 48%	984 81% 43%	999 81% 45%	866 76% 39%	917 78% 42%
	30302	19650553	149	116 97% 40%	136 100% 73%	133 99% 63%	127 100% 55%	126 99% 54%	120 99% 48%	119 99% 48%	122 99% 52%	121 97% 51%	126 99% 55%	125 97% 54%
		19970006	1,100	958 100% 37%	623 99% 6%	717 99% 25%	764 99% 30%	786 99% 33%	874 99% 37%	875 99% 37%	832 99% 37%	837 99% 37%	767 100% 30%	789 100% 33%
		19320051	631	595 100% 75%	616 100% 76%	614 100% 76%	614 100% 76%	613 100% 76%	608 100% 76%	608 100% 76%	612 100% 76%	612 100% 76%	613 100% 76%	612 100% 76%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	2 57% 3%	4 75% 12%	5 78% 22%	6 81% 24%	8 91% 49%	8 91% 49%	7 88% 43%	7 88% 43%	5 81% 22%	6 84% 24%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	99 60% 12%	127 67% 24%	137 72% 25%	140 73% 25%	156 84% 25%	156 84% 25%	150 79% 25%	151 79% 25%	137 72% 25%	140 73% 25%
		19980025	1,338	1,204 100% 43%	1,014 100% 22%	1,079 100% 33%	1,102 100% 31%	1,118 100% 34%	1,164 100% 40%	1,166 100% 40%	1,139 100% 40%	1,145 100% 40%	1,104 100% 31%	1,121 100% 34%
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	13 49% 7%	24 66% 28%	28 70% 48%	31 73% 54%	38 87% 81%	39 87% 82%	34 81% 66%	35 82% 67%	28 72% 48%	31 75% 54%
		19960036	15	15 100% 97%	3 55% 1%	6 75% 12%	8 78% 28%	9 81% 34%	12 91% 72%	12 91% 72%	11 88% 58%	11 88% 58%	9 81% 28%	9 84% 34%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 27. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	76 90% 63%	87 96% 70%	78 90% 64%	87 96% 70%	83 91% 69%	88 96% 70%	80 93% 64%	88 96% 72%	79 91% 64%	88 96% 72%
		19740306	20	19 100% 93%	15 90% 69%	18 96% 79%	16 90% 72%	18 96% 79%	17 91% 79%	18 96% 82%	16 93% 73%	18 96% 82%	16 91% 72%	18 96% 81%
		19641018	160	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,010 88% 45%	1,135 94% 49%	1,029 88% 46%	1,136 94% 49%	1,086 90% 48%	1,144 94% 49%	1,062 91% 46%	1,142 94% 49%	1,043 90% 46%	1,137 94% 49%
	30302	19650553	149	116 97% 40%	123 97% 49%	118 97% 46%	121 97% 49%	117 97% 45%	119 97% 48%	118 97% 46%	120 97% 48%	117 97% 45%	120 97% 48%	117 97% 45%
		19970006	1,100	958 100% 37%	840 100% 36%	909 100% 37%	850 100% 37%	911 100% 37%	883 100% 37%	914 100% 37%	866 100% 37%	913 100% 37%	856 100% 37%	911 100% 37%
		19320051	631	595 100% 75%	608 100% 76%	599 100% 76%	608 100% 76%	599 100% 76%	607 100% 76%	599 100% 76%	608 100% 76%	599 100% 76%	607 100% 76%	599 100% 76%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	7 90% 33%	8 97% 48%	7 91% 34%	8 97% 48%	8 94% 49%	8 97% 52%	7 93% 43%	8 97% 51%	7 94% 34%	8 97% 48%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%	16,078 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	149 81% 25%	162 90% 25%	151 82% 25%	162 90% 25%	158 85% 25%	164 90% 25%	156 85% 25%	164 90% 25%	152 84% 25%	162 90% 25%
		19980025	1,338	1,204 100% 43%	1,151 100% 39%	1,190 100% 40%	1,158 100% 39%	1,192 100% 40%	1,174 100% 40%	1,190 100% 40%	1,168 100% 40%	1,192 100% 40%	1,162 100% 39%	1,192 100% 40%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 96%	318 100% 99%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	36 85% 72%	42 94% 85%	37 87% 75%	42 94% 85%	40 90% 82%	43 94% 90%	38 91% 76%	43 94% 88%	38 88% 75%	43 94% 88%
		19960036	15	15 100% 97%	11 90% 49%	13 97% 76%	11 91% 52%	13 97% 76%	13 94% 72%	14 97% 81%	12 93% 61%	14 97% 79%	11 94% 52%	13 97% 76%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 28. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits										
					Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available											
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	8 100% 100%	7 100% 94%	7 100% 99%	7 100% 94%	7 99% 90%	7 99% 90%	7 100% 91%	7 100% 90%	7 100% 99%	7 100% 94%	
		19600053	108	103 100% 87%	104 100% 84%	104 100% 85%	103 100% 84%	104 100% 85%	103 100% 87%	103 100% 87%	104 100% 87%	104 100% 87%	103 100% 84%	104 100% 85%	
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	
		20030029	100	95 100% 79%	36 60% 15%	54 72% 34%	62 75% 46%	67 78% 49%	81 88% 67%	81 88% 69%	74 81% 58%	75 82% 60%	62 76% 46%	67 79% 49%	
		19740306	20	19 100% 93%	7 60% 15%	11 72% 34%	12 75% 48%	13 78% 52%	16 88% 78%	16 88% 79%	15 81% 64%	15 82% 66%	12 76% 48%	14 79% 52%	
		19641018	160	152 99% 90%	158 100% 96%	156 100% 93%	157 100% 94%	156 100% 93%	154 99% 93%	154 99% 93%	156 100% 93%	156 100% 93%	157 100% 94%	156 100% 93%	
		20060043	1,470	1,237 99% 55%	518 60% 13%	755 70% 33%	865 75% 39%	915 76% 42%	1,067 87% 48%	1,070 87% 48%	984 81% 43%	999 81% 45%	866 76% 39%	917 78% 42%	
	30302	19650553	149	116 97% 40%	136 100% 73%	133 99% 63%	127 100% 55%	126 99% 54%	120 99% 48%	119 99% 48%	122 99% 52%	121 97% 51%	126 99% 55%	125 97% 54%	
		19970006	1,100	958 100% 37%	623 99% 6%	717 99% 25%	764 99% 30%	786 99% 33%	874 99% 37%	875 99% 37%	832 99% 37%	837 99% 37%	767 100% 30%	789 100% 33%	
		19320051	631	595 100% 75%	616 100% 76%	614 100% 76%	614 100% 76%	613 100% 76%	608 100% 76%	608 100% 76%	612 100% 76%	612 100% 76%	613 100% 76%	612 100% 76%	
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
	30303	19820113	10	9 100% 63%	2 57% 3%	4 75% 12%	5 78% 22%	6 81% 24%	8 91% 49%	8 91% 49%	7 88% 43%	7 88% 43%	5 81% 22%	6 84% 24%	
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,062 100% 97%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	16,082 100% 99%	
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	99 60% 12%	127 67% 24%	137 72% 25%	140 73% 25%	156 84% 25%	156 84% 25%	150 79% 25%	151 79% 25%	137 72% 25%	140 73% 25%	
		19980025	1,338	1,204 100% 43%	1,014 100% 22%	1,079 100% 33%	1,102 100% 31%	1,118 100% 34%	1,164 100% 40%	1,166 100% 40%	1,139 100% 40%	1,145 100% 40%	1,104 100% 31%	1,121 100% 34%	
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%	
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	13 49% 7%	24 66% 28%	28 70% 48%	31 73% 54%	38 87% 81%	39 87% 82%	34 81% 66%	35 82% 67%	28 72% 48%	31 75% 54%	
		19960036	15	15 100% 97%	3 55% 1%	6 75% 12%	8 78% 28%	9 81% 34%	12 91% 72%	12 91% 72%	11 88% 58%	11 88% 58%	9 81% 28%	9 84% 34%	
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	

Table 28. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	76 90% 63%	87 96% 70%	78 90% 64%	87 96% 70%	83 91% 69%	88 96% 70%	80 93% 64%	88 96% 72%	79 91% 64%	88 96% 72%
		19740306	20	19 100% 93%	15 90% 69%	18 96% 79%	16 90% 72%	18 96% 79%	17 91% 79%	18 96% 82%	16 93% 73%	18 96% 82%	16 91% 72%	18 96% 81%
		19641018	160	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,010 88% 45%	1,135 94% 49%	1,029 88% 46%	1,136 94% 49%	1,086 90% 48%	1,144 94% 49%	1,062 91% 46%	1,142 94% 49%	1,043 90% 46%	1,137 94% 49%
	30302	19650553	149	116 97% 40%	123 97% 49%	118 97% 46%	121 97% 49%	117 97% 45%	119 97% 48%	118 97% 46%	120 97% 48%	117 97% 45%	120 97% 48%	117 97% 45%
		19970006	1,100	958 100% 37%	840 100% 36%	909 100% 37%	850 100% 37%	911 100% 37%	883 100% 37%	914 100% 37%	866 100% 37%	913 100% 37%	856 100% 37%	911 100% 37%
		19320051	631	595 100% 75%	608 100% 76%	599 100% 76%	608 100% 76%	599 100% 76%	607 100% 76%	599 100% 76%	608 100% 76%	599 100% 76%	607 100% 76%	599 100% 76%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	7 90% 33%	8 97% 48%	7 91% 34%	8 97% 48%	8 94% 49%	8 97% 52%	7 93% 43%	8 97% 51%	7 94% 34%	8 97% 48%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,062 100% 97%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%	16,078 100% 99%	16,081 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	171 93% 27%	149 81% 25%	162 90% 25%	151 82% 25%	162 90% 25%	158 85% 25%	164 90% 25%	156 85% 25%	164 90% 25%	152 84% 25%	162 90% 25%
		19980025	1,338	1,204 100% 43%	1,151 100% 39%	1,190 100% 40%	1,158 100% 39%	1,192 100% 40%	1,174 100% 40%	1,190 100% 40%	1,168 100% 40%	1,192 100% 40%	1,162 100% 39%	1,192 100% 40%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 96%	318 100% 99%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	36 85% 72%	42 94% 85%	37 87% 75%	42 94% 85%	40 90% 82%	43 94% 90%	38 91% 76%	43 94% 88%	38 88% 75%	43 94% 88%
		19960036	15	15 100% 97%	11 90% 49%	13 97% 76%	11 91% 52%	13 97% 76%	13 94% 72%	14 97% 81%	12 93% 61%	14 97% 79%	11 94% 52%	13 97% 76%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Low: 2,500 acre-ft/yr) –

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

Table 29. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 99%	7 100% 96%	7 100% 93%	7 100% 93%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 100% 87%	7 100% 87%		
		19600053	108	103 100% 87%	104 100% 85%	103 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%		
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%		
		20030029	100	95 100% 79%	31 58% 10%	51 72% 24%	63 82% 39%	64 82% 40%	82 93% 64%	82 93% 64%	72 87% 54%	73 87% 55%	67 87% 42%	67 87% 42%		
		19740306	20	19 100% 93%	6 60% 10%	10 72% 24%	13 82% 39%	13 82% 40%	17 93% 72%	17 93% 72%	14 87% 55%	15 87% 57%	13 87% 43%	13 87% 43%		
		19641018	160	152 99% 90%	158 100% 96%	157 100% 94%	157 100% 94%	157 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 100% 93%	153 100% 93%		
		20060043	1,470	1,237 99% 55%	441 58% 7%	702 72% 22%	863 82% 33%	875 82% 34%	1,090 91% 45%	1,090 91% 45%	964 85% 37%	976 85% 39%	892 85% 34%	892 85% 34%		
	30302	19650553	149	116 97% 40%	136 100% 70%	132 100% 60%	126 100% 54%	126 100% 54%	121 99% 48%	121 99% 48%	123 99% 51%	123 99% 51%	125 97% 54%	125 97% 54%		
		19970006	1,100	958 100% 37%	607 99% 7%	711 99% 18%	781 99% 27%	785 99% 28%	884 100% 36%	884 100% 36%	826 99% 33%	830 99% 34%	800 100% 28%	800 100% 28%		
		19320051	631	595 100% 75%	616 100% 76%	614 100% 76%	614 100% 76%	614 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	605 100% 76%	605 100% 76%		
		New Permits on Elk Creek	625	539 100% 45%	327 97% 7%	389 97% 21%	430 97% 33%	432 97% 34%	493 99% 40%	493 99% 40%	456 97% 36%	458 97% 37%	443 99% 34%	443 99% 34%		
	30303	19820113	10	9 100% 63%	3 66% 4%	4 73% 12%	6 79% 30%	6 79% 30%	8 93% 46%	8 93% 46%	7 87% 40%	7 87% 40%	6 85% 30%	6 85% 30%		
		New Permits on Otter Creek	1,875	1,323 100% 1%	455 66% 0%	674 73% 0%	839 79% 1%	848 79% 1%	1,125 93% 1%	1,125 93% 1%	981 87% 1%	991 87% 1%	903 85% 1%	903 85% 1%		
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%		
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	79 57% 7%	110 69% 16%	130 78% 21%	131 78% 21%	156 88% 24%	156 88% 24%	140 82% 22%	141 82% 22%	133 79% 21%	133 79% 21%		
		19980025	1,338	1,202 100% 42%	1,006 100% 16%	1,078 100% 24%	1,116 100% 33%	1,122 100% 33%	1,165 100% 37%	1,165 100% 37%	1,137 100% 36%	1,143 100% 36%	1,141 100% 33%	1,141 100% 33%		
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	5 21% 3%	19 64% 16%	26 78% 36%	27 78% 39%	38 93% 72%	38 93% 72%	32 87% 54%	33 87% 57%	30 85% 43%	30 85% 43%		
		19960036	15	15 100% 97%	2 21% 3%	6 64% 16%	9 78% 36%	9 78% 39%	12 93% 70%	12 93% 70%	10 87% 54%	11 87% 57%	10 85% 42%	10 85% 42%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 29. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 85%	7 99% 84%	7 99% 85%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	665 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	74 91% 55%	87 97% 69%	77 93% 57%	87 97% 69%	82 93% 64%	87 97% 69%	79 93% 60%	87 97% 69%	78 94% 58%	87 97% 69%
		19740306	20	19 100% 93%	15 91% 58%	18 97% 79%	16 93% 61%	18 97% 79%	17 93% 72%	18 97% 79%	16 93% 64%	18 97% 79%	16 94% 63%	18 97% 79%
		19641018	160	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	153 99% 91%	152 99% 90%
		20060043	1,470	1,237 99% 55%	988 90% 39%	1,143 96% 48%	1,019 91% 40%	1,143 96% 48%	1,090 91% 45%	1,143 96% 48%	1,046 91% 42%	1,143 96% 48%	1,026 93% 40%	1,143 96% 48%
	30302	19650553	149	116 97% 40%	124 99% 49%	119 97% 45%	123 99% 49%	119 97% 45%	121 99% 48%	119 97% 45%	121 99% 48%	119 97% 45%	121 97% 49%	119 97% 45%
		19970006	1,100	958 100% 37%	844 100% 31%	914 100% 37%	856 100% 33%	914 100% 37%	884 100% 36%	914 100% 37%	866 100% 34%	914 100% 37%	863 100% 33%	914 100% 37%
		19320051	631	595 100% 75%	606 100% 76%	597 100% 76%	606 100% 76%	597 100% 76%	605 100% 76%	597 100% 76%	603 100% 76%	597 100% 76%	600 100% 76%	597 100% 76%
		New Permits on Elk Creek	625	539 100% 45%	468 99% 37%	509 99% 43%	476 99% 39%	509 99% 43%	493 99% 40%	509 99% 43%	480 99% 39%	509 99% 43%	478 99% 39%	509 99% 43%
	30303	19820113	10	9 100% 63%	7 88% 39%	8 97% 52%	7 90% 42%	8 97% 52%	8 93% 46%	8 97% 52%	7 93% 42%	8 97% 52%	7 91% 42%	8 97% 52%
		New Permits on Otter Creek	1,875	1,323 100% 1%	1,012 88% 1%	1,200 97% 1%	1,046 90% 1%	1,200 97% 1%	1,125 93% 1%	1,200 97% 1%	1,081 93% 1%	1,200 97% 1%	1,071 91% 1%	1,200 97% 1%
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	142 85% 22%	159 90% 24%	146 88% 22%	159 90% 24%	156 88% 24%	159 90% 24%	149 88% 22%	159 90% 24%	146 88% 22%	159 90% 24%
		19980025	1,338	1,202 100% 42%	1,146 100% 36%	1,186 100% 39%	1,153 100% 37%	1,186 100% 39%	1,165 100% 37%	1,186 100% 39%	1,160 100% 37%	1,186 100% 39%	1,163 100% 37%	1,186 100% 39%
	30304	20060062	320	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	34 87% 60%	42 97% 85%	35 90% 63%	42 97% 85%	38 93% 72%	42 97% 85%	36 93% 66%	42 97% 85%	36 91% 67%	42 97% 85%
		19960036	15	15 100% 97%	11 87% 58%	14 97% 82%	11 90% 61%	14 97% 82%	12 93% 70%	14 97% 82%	12 93% 64%	14 97% 82%	12 91% 64%	14 97% 82%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

Table 30. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 99%	7 100% 96%	7 100% 93%	7 100% 93%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 100% 87%	7 100% 87%
		19600053	108	103 100% 87%	104 100% 85%	103 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%
		20030029	100	95 100% 79%	31 57% 10%	49 69% 24%	62 82% 37%	64 82% 40%	82 93% 64%	82 93% 64%	72 87% 54%	72 87% 55%	66 87% 40%	66 87% 42%
		19740306	20	19 100% 93%	6 58% 10%	10 69% 24%	13 82% 37%	13 82% 40%	17 93% 72%	17 93% 72%	14 87% 55%	15 87% 57%	13 87% 42%	13 87% 43%
		19641018	160	152 99% 90%	158 100% 96%	157 100% 94%	157 100% 94%	157 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 100% 93%	153 100% 93%
		20060043	1,470	1,237 99% 55%	433 57% 7%	686 69% 22%	846 82% 31%	869 82% 34%	1,090 91% 45%	1,090 91% 45%	958 85% 37%	970 85% 39%	875 85% 33%	886 85% 34%
	30302	19650553	149	116 97% 40%	136 100% 70%	133 100% 61%	127 100% 55%	126 100% 54%	121 99% 48%	121 99% 48%	123 99% 51%	123 99% 51%	125 97% 55%	125 97% 54%
		19970006	1,100	958 100% 37%	607 99% 7%	703 99% 18%	774 99% 25%	785 99% 28%	884 100% 36%	884 100% 36%	826 99% 33%	830 99% 34%	793 100% 27%	800 100% 28%
		19320051	631	595 100% 75%	616 100% 76%	614 100% 76%	614 100% 76%	614 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	605 100% 76%	605 100% 76%
		New Permits on Elk Creek	625	539 100% 45%	324 97% 7%	385 97% 21%	424 97% 31%	431 97% 34%	493 99% 40%	493 99% 40%	454 97% 36%	457 97% 37%	439 99% 33%	442 99% 34%
	30303	19820113	10	9 100% 63%	3 66% 4%	4 70% 12%	6 79% 30%	6 79% 30%	8 93% 46%	8 93% 46%	7 87% 40%	7 87% 40%	6 85% 30%	6 85% 30%
		New Permits on Otter Creek	1,875	1,323 100% 1%	437 63% 0%	647 70% 0%	829 79% 1%	842 79% 1%	1,122 93% 1%	1,122 93% 1%	978 87% 1%	988 87% 1%	894 85% 1%	897 85% 1%
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	14,365 100% 97%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	78 57% 7%	108 66% 16%	130 78% 19%	130 78% 21%	156 88% 24%	156 88% 24%	139 82% 22%	141 82% 22%	133 79% 19%	132 79% 21%
		19980025	1,338	1,202 100% 42%	1,006 100% 16%	1,071 100% 24%	1,112 100% 31%	1,122 100% 33%	1,165 100% 37%	1,165 100% 37%	1,137 100% 36%	1,143 100% 36%	1,137 100% 31%	1,141 100% 33%
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	5 21% 3%	18 61% 16%	25 76% 34%	27 78% 39%	38 93% 72%	38 93% 72%	32 87% 54%	33 87% 57%	29 84% 42%	30 85% 43%
		19960036	15	15 100% 97%	2 21% 3%	6 61% 16%	8 76% 34%	9 78% 39%	12 93% 70%	12 93% 70%	10 87% 54%	11 87% 57%	9 84% 40%	10 85% 42%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 30. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 85%	7 99% 84%	7 99% 85%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	665 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	74 91% 55%	86 96% 67%	77 93% 57%	86 96% 67%	82 93% 64%	86 96% 67%	79 93% 60%	86 96% 67%	78 94% 58%	86 96% 67%
		19740306	20	19 100% 93%	15 91% 58%	17 96% 78%	16 93% 61%	17 96% 78%	17 93% 72%	17 96% 78%	16 93% 64%	17 96% 78%	16 94% 63%	17 96% 78%
		19641018	160	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	153 99% 91%	152 99% 90%
		20060043	1,470	1,237 99% 55%	988 90% 39%	1,129 94% 46%	1,019 91% 40%	1,129 94% 46%	1,090 91% 45%	1,129 94% 46%	1,046 91% 42%	1,129 94% 46%	1,026 93% 40%	1,129 94% 46%
	30302	19650553	149	116 97% 40%	124 99% 49%	119 97% 46%	123 99% 49%	119 97% 46%	121 99% 48%	119 97% 46%	121 99% 48%	119 97% 46%	121 97% 49%	119 97% 46%
		19970006	1,100	958 100% 37%	844 100% 31%	908 100% 36%	856 100% 33%	908 100% 36%	884 100% 36%	908 100% 36%	866 100% 34%	908 100% 36%	863 100% 33%	908 100% 36%
		19320051	631	595 100% 75%	606 100% 76%	597 100% 76%	606 100% 76%	597 100% 76%	605 100% 76%	597 100% 76%	603 100% 76%	597 100% 76%	600 100% 76%	597 100% 76%
		New Permits on Elk Creek	625	539 100% 45%	468 99% 37%	505 99% 42%	476 99% 39%	505 99% 42%	493 99% 40%	505 99% 42%	480 99% 39%	505 99% 42%	478 99% 39%	505 99% 42%
	30303	19820113	10	9 100% 63%	7 87% 39%	8 96% 51%	7 90% 42%	8 96% 51%	8 93% 46%	8 96% 51%	7 93% 42%	8 96% 51%	7 91% 42%	8 96% 51%
		New Permits on Otter Creek	1,875	1,323 100% 1%	1,005 87% 1%	1,186 96% 1%	1,046 90% 1%	1,186 96% 1%	1,122 93% 1%	1,186 96% 1%	1,081 93% 1%	1,186 96% 1%	1,071 91% 1%	1,186 96% 1%
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	14,365 100% 97%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	142 85% 22%	157 90% 24%	146 88% 22%	157 90% 24%	156 88% 24%	157 90% 24%	149 88% 22%	157 90% 24%	146 88% 22%	157 90% 24%
		19980025	1,338	1,202 100% 42%	1,146 100% 36%	1,182 100% 39%	1,153 100% 37%	1,182 100% 39%	1,165 100% 37%	1,182 100% 39%	1,160 100% 37%	1,182 100% 39%	1,163 100% 37%	1,182 100% 39%
	30304	20060062	320	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	34 87% 60%	41 96% 84%	35 90% 63%	41 96% 84%	38 93% 72%	41 96% 84%	36 93% 66%	41 96% 84%	36 91% 67%	41 96% 84%
		19960036	15	15 100% 97%	11 87% 58%	13 96% 81%	11 90% 61%	13 96% 81%	12 93% 70%	13 96% 81%	12 93% 64%	13 96% 81%	12 91% 64%	13 96% 81%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

Table 31. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 99%	7 100% 96%	7 100% 91%	7 100% 91%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 100% 87%	7 100% 87%		
		19600053	108	103 100% 87%	104 100% 85%	104 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%		
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%		
		20030029	100	95 100% 79%	30 55% 10%	48 67% 24%	63 84% 37%	65 84% 40%	82 93% 64%	82 93% 64%	72 87% 54%	72 87% 55%	65 87% 40%	66 87% 42%		
		19740306	20	19 100% 93%	6 55% 10%	10 67% 24%	13 84% 37%	13 84% 40%	17 93% 72%	17 93% 72%	14 87% 55%	15 87% 57%	13 87% 42%	13 87% 43%		
		19641018	160	152 99% 90%	158 100% 96%	158 100% 94%	156 100% 94%	156 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 100% 93%	153 100% 93%		
		20060043	1,470	1,237 99% 55%	425 55% 7%	671 67% 22%	843 84% 31%	876 84% 34%	1,090 91% 45%	1,090 91% 45%	953 85% 37%	970 85% 39%	870 85% 33%	886 85% 34%		
	30302	19650553	149	116 97% 40%	136 100% 70%	133 100% 61%	127 100% 55%	126 100% 54%	121 99% 48%	121 99% 48%	123 99% 51%	123 99% 51%	125 97% 55%	125 97% 54%		
		19970006	1,100	958 100% 37%	603 99% 7%	693 99% 18%	778 99% 25%	788 99% 28%	884 100% 36%	884 100% 36%	825 99% 33%	828 99% 34%	792 100% 27%	799 100% 28%		
		19320051	631	595 100% 75%	616 100% 76%	615 100% 76%	612 100% 76%	612 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	605 100% 76%	605 100% 76%		
		New Permits on Elk Creek	625	539 100% 45%	322 97% 7%	377 97% 21%	428 97% 31%	436 97% 34%	493 99% 40%	493 99% 40%	454 97% 36%	457 97% 37%	439 99% 33%	442 99% 34%		
	30303	19820113	10	9 100% 63%	2 58% 4%	4 66% 12%	6 81% 30%	6 81% 30%	8 93% 46%	8 93% 46%	7 87% 40%	7 87% 40%	6 85% 30%	6 85% 30%		
		New Permits on Otter Creek	1,875	1,323 100% 1%	411 57% 0%	612 64% 0%	826 81% 1%	845 81% 1%	1,114 93% 1%	1,114 93% 1%	966 87% 1%	980 87% 1%	884 85% 1%	889 85% 1%		
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,032 99% 97%	16,078 100% 99%	16,073 100% 99%	16,073 100% 99%	16,073 100% 99%	16,071 100% 99%	16,071 100% 99%	16,071 100% 99%	16,071 100% 99%	16,073 100% 99%		
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	77 54% 7%	105 63% 16%	130 78% 19%	132 78% 21%	156 88% 24%	156 88% 24%	139 81% 22%	140 81% 22%	132 78% 19%	132 78% 21%		
		19980025	1,338	1,202 100% 42%	1,006 100% 16%	1,067 100% 24%	1,115 100% 31%	1,125 100% 33%	1,165 100% 37%	1,165 100% 37%	1,137 100% 36%	1,143 100% 36%	1,137 100% 31%	1,141 100% 33%		
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	5 21% 3%	17 60% 15%	26 79% 34%	27 81% 39%	38 93% 72%	38 93% 72%	32 87% 54%	33 87% 57%	29 84% 42%	30 85% 43%		
		19960036	15	15 100% 97%	2 21% 3%	6 60% 15%	9 79% 34%	9 81% 39%	12 93% 70%	12 93% 70%	10 87% 54%	11 87% 57%	9 84% 40%	10 85% 42%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 31. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 90%	7 99% 85%	7 100% 88%	7 99% 84%	7 99% 87%	7 99% 84%	7 100% 87%	7 99% 84%	7 100% 85%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	70 88% 51%	84 96% 66%	74 90% 57%	85 96% 66%	82 93% 64%	86 96% 67%	77 90% 60%	85 96% 66%	76 91% 58%	85 96% 66%
		19740306	20	19 100% 93%	14 88% 54%	17 96% 73%	15 90% 60%	17 96% 75%	17 93% 72%	17 96% 78%	15 90% 63%	17 96% 75%	15 91% 61%	17 96% 75%
		19641018	160	152 99% 90%	154 100% 93%	152 99% 90%	154 100% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 100% 93%	152 99% 90%	153 100% 91%	152 99% 90%
		20060043	1,470	1,237 99% 55%	937 87% 36%	1,098 94% 45%	990 88% 40%	1,107 94% 45%	1,090 91% 45%	1,129 94% 46%	1,017 88% 42%	1,107 94% 45%	997 90% 40%	1,107 94% 45%
	30302	19650553	149	116 97% 40%	124 99% 51%	120 97% 46%	123 99% 49%	119 97% 46%	121 99% 48%	119 97% 46%	121 99% 48%	119 97% 46%	121 97% 49%	119 97% 46%
		19970006	1,100	958 100% 37%	825 99% 28%	896 100% 36%	841 99% 33%	899 100% 36%	884 100% 36%	908 100% 36%	851 99% 34%	899 100% 36%	848 100% 33%	899 100% 36%
		19320051	631	595 100% 75%	609 100% 76%	598 100% 76%	609 100% 76%	598 100% 76%	605 100% 76%	597 100% 76%	607 100% 76%	598 100% 76%	604 100% 76%	598 100% 76%
		New Permits on Elk Creek	625	539 100% 45%	454 97% 34%	496 99% 42%	467 97% 39%	498 99% 42%	493 99% 40%	505 99% 42%	470 97% 39%	498 99% 42%	469 99% 39%	498 99% 42%
	30303	19820113	10	9 100% 63%	6 84% 34%	8 93% 48%	7 87% 40%	8 94% 49%	8 93% 46%	8 96% 51%	7 90% 40%	8 94% 49%	7 90% 40%	8 94% 49%
		New Permits on Otter Creek	1,875	1,323 100% 1%	936 84% 0%	1,143 93% 1%	1,001 87% 1%	1,163 94% 1%	1,114 93% 1%	1,183 96% 1%	1,039 90% 1%	1,163 94% 1%	1,029 90% 1%	1,163 94% 1%
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,032 99% 97%	16,071 100% 99%	16,063 100% 97%	16,071 100% 99%	16,063 100% 97%	16,071 100% 99%	16,063 100% 97%	16,071 100% 99%	16,063 100% 97%	16,071 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	133 82% 21%	153 88% 24%	143 85% 22%	154 90% 24%	156 88% 24%	157 90% 24%	145 85% 22%	154 90% 24%	143 85% 22%	154 90% 24%
		19980025	1,338	1,202 100% 42%	1,138 100% 33%	1,174 100% 39%	1,148 100% 37%	1,180 100% 39%	1,165 100% 37%	1,182 100% 39%	1,155 100% 37%	1,180 100% 39%	1,158 100% 37%	1,180 100% 39%
	30304	20060062	320	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	32 84% 54%	40 93% 81%	34 87% 60%	41 94% 82%	38 93% 72%	41 96% 84%	35 90% 63%	41 94% 82%	35 90% 63%	41 94% 82%
		19960036	15	15 100% 97%	10 84% 54%	13 93% 78%	11 87% 60%	13 94% 79%	12 93% 70%	13 96% 81%	11 90% 63%	13 94% 79%	11 90% 61%	13 94% 79%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing New Stream Permits (Low: 2,500 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

Table 32. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%		
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%		
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%		
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%		
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%		
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%		
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%		
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%		
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%		
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%		
		New Permits on Elk Creek	625	539 100% 45%	77 21% 4%	227 61% 15%	335 78% 31%	390 85% 36%	454 93% 39%	454 93% 39%	402 85% 36%	418 87% 37%	354 85% 31%	396 88% 36%		
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%		
		New Permits on Otter Creek	1,875	1,323 100% 1%	160 21% 0%	497 61% 0%	758 78% 1%	897 85% 1%	1,082 93% 1%	1,082 93% 1%	945 87% 1%	987 88% 1%	820 85% 1%	928 88% 1%		
Tom Steed Reservoir		19670671	16,100[a]	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%		
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	171 93% 27%	169 93% 27%	169 93% 27%	168 93% 27%	167 93% 25%	167 93% 25%	168 93% 27%	168 93% 27%	169 93% 27%	168 93% 27%		
		19980025	1,338	1,202 100% 42%	1,204 100% 43%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%	1,202 100% 42%	1,202 100% 42%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%		
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%		
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 32. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	625	539 100% 45%	407 87% 36%	515 99% 45%	471 94% 42%	515 99% 45%	484 96% 42%	484 96% 42%	471 94% 42%	515 99% 45%	471 94% 42%	515 99% 45%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	1,875	1,323 100% 1%	956 87% 1%	1,263 99% 1%	1,130 94% 1%	1,263 99% 1%	1,174 96% 1%	1,174 96% 1%	1,130 94% 1%	1,263 99% 1%	1,130 94% 1%	1,263 99% 1%
Tom Steed Reservoir		19670671	16,100[a]	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	168 93% 27%	167 93% 25%	168 93% 27%	167 93% 25%	167 93% 25%	167 93% 25%	168 93% 27%	167 93% 25%	168 93% 27%	167 93% 25%
		19980025	1,338	1,202 100% 42%	1,203 100% 43%	1,202 100% 42%	1,203 100% 42%	1,202 100% 42%	1,202 100% 42%	1,202 100% 42%	1,203 100% 42%	1,202 100% 42%	1,203 100% 42%	1,202 100% 42%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

Table 33. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	625	539 100% 45%	70 21% 3%	219 58% 15%	335 78% 31%	390 85% 36%	454 93% 39%	454 93% 39%	402 85% 36%	418 87% 37%	354 85% 31%	396 88% 36%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	1,875	1,323 100% 1%	143 21% 0%	477 58% 0%	758 78% 1%	897 85% 1%	1,082 93% 1%	1,082 93% 1%	945 87% 1%	987 88% 1%	820 85% 1%	928 88% 1%
Tom Steed Reservoir		19670671	16,100[a]	14,365 100% 97%	14,397 100% 99%	14,394 100% 99%	14,393 100% 99%	14,393 100% 99%	14,393 100% 99%	14,393 100% 99%	14,393 100% 99%	14,393 100% 99%	14,393 100% 99%	14,393 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	171 93% 27%	169 93% 27%	169 93% 27%	168 93% 27%	167 93% 25%	167 93% 25%	168 93% 27%	168 93% 27%	169 93% 27%	168 93% 27%
		19980025	1,338	1,202 100% 42%	1,204 100% 43%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%	1,202 100% 42%	1,202 100% 42%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 33. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	625	539 100% 45%	398 85% 34%	484 96% 42%	452 91% 40%	484 96% 42%	475 94% 40%	484 96% 42%	434 91% 37%	484 96% 42%	452 91% 40%	506 99% 43%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	1,875	1,323 100% 1%	933 85% 1%	1,174 96% 1%	1,093 91% 1%	1,174 96% 1%	1,159 94% 1%	1,174 96% 1%	1,038 93% 1%	1,174 96% 1%	1,093 91% 1%	1,239 99% 1%
Tom Steed Reservoir		19670671	16,100[a]	14,365 100% 97%	14,393 100% 99%	14,389 100% 99%	14,393 100% 99%	14,389 100% 99%	14,393 100% 99%	14,389 100% 99%	14,393 100% 99%	14,389 100% 99%	14,393 100% 99%	14,383 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	168 93% 27%	167 93% 25%	168 93% 27%	167 93% 25%	167 93% 25%	167 93% 25%	168 93% 27%	167 93% 25%	168 93% 27%	167 93% 25%
		19980025	1,338	1,202 100% 42%	1,203 100% 43%	1,202 100% 42%	1,203 100% 42%	1,202 100% 42%	1,202 100% 42%	1,202 100% 42%	1,203 100% 43%	1,202 100% 42%	1,203 100% 42%	1,202 100% 42%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

Table 34. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	625	539 100% 45%	70 21% 3%	197 52% 13%	324 79% 27%	342 81% 31%	454 93% 39%	454 93% 39%	392 85% 33%	402 85% 36%	345 84% 30%	354 85% 31%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	1,875	1,323 100% 1%	143 21% 0%	429 52% 0%	735 79% 1%	770 81% 1%	1,082 93% 1%	1,082 93% 1%	921 87% 1%	945 87% 1%	809 84% 1%	820 85% 1%
Tom Steed Reservoir		19670671	16,100[a]	16,032 99% 97%	16,057 100% 97%	16,053 100% 97%	16,053 100% 97%	16,053 100% 97%	16,053 100% 97%	16,053 100% 97%	16,053 100% 97%	16,053 100% 97%	16,053 100% 97%	16,053 100% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	171 93% 27%	169 93% 27%	169 93% 27%	169 93% 27%	167 93% 25%	167 93% 25%	169 93% 27%	168 93% 27%	169 93% 27%	169 93% 27%
		19980025	1,338	1,202 100% 42%	1,204 100% 43%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%	1,202 100% 42%	1,202 100% 42%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%	1,203 100% 43%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 34. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	625	539 100% 45%	378 81% 33%	470 93% 42%	413 87% 37%	477 94% 42%	454 93% 39%	484 96% 42%	424 88% 37%	477 94% 42%	419 90% 37%	477 94% 42%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	1,875	1,323 100% 1%	876 81% 0%	1,134 93% 1%	963 87% 1%	1,154 94% 1%	1,082 93% 1%	1,174 96% 1%	1,004 90% 1%	1,154 94% 1%	994 90% 1%	1,154 94% 1%
Tom Steed Reservoir		19670671	16,100[a]	16,032 99% 97%	16,053 100% 97%	16,052 100% 97%	16,053 100% 97%	16,052 100% 97%	16,053 100% 97%	16,052 100% 97%	16,053 100% 97%	16,052 100% 97%	16,053 100% 97%	16,052 100% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	167 93% 25%	168 93% 27%	168 93% 27%	168 93% 27%	168 93% 27%	167 93% 25%	167 93% 25%	168 93% 27%	168 93% 27%	168 93% 27%	168 93% 27%
		19980025	1,338	1,202 100% 42%	1,203 100% 43%	1,203 100% 42%	1,203 100% 43%	1,203 100% 42%	1,202 100% 42%	1,202 100% 42%	1,203 100% 43%	1,203 100% 42%	1,203 100% 43%	1,203 100% 42%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (High: 5,000 acre-ft/yr) –

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

Table 35. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits										
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds								
				Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600		
				PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49		
				Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
					Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8		7 99% 84%	7 100% 99%	7 100% 96%	7 100% 93%	7 100% 93%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 100% 87%	7 100% 87%
		19600053	108		103 100% 87%	104 100% 85%	103 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800		663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%
		20030029	100		95 100% 79%	31 58% 10%	51 72% 24%	62 82% 37%	64 82% 40%	82 93% 64%	82 93% 64%	72 87% 54%	73 87% 55%	66 87% 40%	67 87% 42%
		19740306	20		19 100% 93%	6 60% 10%	10 72% 24%	13 82% 37%	13 82% 40%	17 93% 72%	17 93% 72%	14 87% 55%	15 87% 57%	13 87% 42%	13 87% 43%
		19641018	160		152 99% 90%	158 100% 96%	157 100% 94%	157 100% 94%	157 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 100% 93%	153 100% 93%
		20060043	1,470		1,237 99% 55%	441 58% 7%	702 72% 22%	846 82% 31%	875 82% 34%	1,090 91% 45%	1,090 91% 45%	964 85% 37%	976 85% 39%	875 85% 33%	892 85% 34%
	30302	19650553	149		116 97% 40%	136 100% 70%	132 100% 60%	127 100% 55%	126 100% 54%	121 99% 48%	121 99% 48%	123 99% 51%	123 99% 51%	125 97% 55%	125 97% 54%
		19970006	1,100		958 100% 37%	607 99% 7%	711 99% 18%	774 99% 25%	785 99% 28%	884 100% 36%	884 100% 36%	826 99% 33%	830 99% 34%	793 100% 27%	800 100% 28%
		19320051	631		595 100% 75%	616 100% 76%	614 100% 76%	614 100% 76%	614 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	605 100% 76%	605 100% 76%
		New Permits on Elk Creek	1,250		1,055 100% 40%	642 97% 6%	766 97% 19%	840 97% 28%	851 97% 31%	967 99% 37%	967 99% 37%	897 97% 33%	901 97% 34%	866 99% 30%	873 99% 31%
	30303	19820113	10		9 100% 63%	3 66% 4%	4 73% 12%	6 79% 30%	6 79% 30%	8 93% 46%	8 93% 46%	7 87% 40%	7 87% 40%	6 85% 30%	6 85% 30%
		New Permits on Otter Creek	3,750		2,384 100% 0%	878 66% 0%	1,251 73% 0%	1,526 79% 0%	1,552 79% 0%	2,053 93% 0%	2,053 93% 0%	1,782 87% 0%	1,800 87% 0%	1,635 85% 0%	1,644 85% 0%
Tom Steed Reservoir		19670671	16,100[a]		12,685 100% 99%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297		157 88% 24%	79 57% 7%	106 69% 16%	124 76% 19%	126 76% 21%	147 85% 22%	147 85% 22%	135 81% 22%	136 81% 22%	127 78% 19%	128 78% 21%
		19980025	1,338		1,199 100% 42%	1,006 100% 16%	1,075 100% 24%	1,109 100% 31%	1,119 100% 33%	1,162 100% 37%	1,162 100% 37%	1,134 100% 36%	1,140 100% 36%	1,134 100% 31%	1,138 100% 33%
	30304	20060062	320		317 100% 96%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46		46 100% 100%	5 21% 3%	19 64% 16%	25 76% 34%	27 78% 39%	38 93% 72%	38 93% 72%	32 87% 54%	33 87% 57%	29 84% 42%	30 85% 43%
		19960036	15		15 100% 97%	2 21% 3%	6 64% 16%	8 76% 34%	9 78% 39%	12 93% 70%	12 93% 70%	10 87% 54%	11 87% 57%	9 84% 40%	10 85% 42%
		19520414	77		77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 35. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 87%	7 99% 84%	7 99% 85%	7 99% 84%	7 99% 85%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	665 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	74 91% 55%	86 96% 67%	77 93% 57%	86 96% 67%	82 93% 64%	86 96% 67%	79 93% 60%	86 96% 67%	78 94% 58%	86 96% 67%
		19740306	20	19 100% 93%	15 91% 58%	17 96% 78%	16 93% 61%	17 96% 78%	17 93% 72%	17 96% 78%	16 93% 64%	17 96% 78%	16 94% 63%	17 96% 78%
		19641018	160	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 99% 93%	152 99% 90%	153 99% 91%	152 99% 90%
		20060043	1,470	1,237 99% 55%	988 90% 39%	1,129 94% 46%	1,019 91% 40%	1,129 94% 46%	1,090 91% 45%	1,129 94% 46%	1,046 91% 42%	1,129 94% 46%	1,026 93% 40%	1,129 94% 46%
	30302	19650553	149	116 97% 40%	124 99% 49%	119 97% 46%	123 99% 49%	119 97% 46%	121 99% 48%	119 97% 46%	121 99% 48%	119 97% 46%	121 97% 49%	119 97% 46%
		19970006	1,100	958 100% 37%	844 100% 31%	908 100% 36%	856 100% 33%	908 100% 36%	884 100% 36%	908 100% 36%	866 100% 34%	908 100% 36%	863 100% 33%	908 100% 36%
		19320051	631	595 100% 75%	606 100% 76%	597 100% 76%	606 100% 76%	597 100% 76%	605 100% 76%	597 100% 76%	603 100% 76%	597 100% 76%	600 100% 76%	597 100% 76%
		New Permits on Elk Creek	1,250	1,055 100% 40%	919 99% 34%	989 99% 39%	936 99% 36%	989 99% 39%	967 99% 37%	989 99% 39%	942 99% 36%	989 99% 39%	940 99% 36%	989 99% 39%
	30303	19820113	10	9 100% 63%	7 88% 39%	8 96% 51%	7 90% 42%	8 96% 51%	8 93% 46%	8 96% 51%	7 93% 42%	8 96% 51%	7 91% 42%	8 96% 51%
		New Permits on Otter Creek	3,750	2,384 100% 0%	1,842 88% 0%	2,162 96% 0%	1,906 90% 0%	2,162 96% 0%	2,053 93% 0%	2,162 96% 0%	1,960 93% 0%	2,162 96% 0%	1,943 91% 0%	2,162 96% 0%
Tom Steed Reservoir		19670671	16,100[a]	12,685 100% 99%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	136 84% 22%	148 85% 22%	139 85% 22%	148 85% 22%	147 85% 22%	148 85% 22%	142 85% 22%	148 85% 22%	139 85% 22%	148 85% 22%
		19980025	1,338	1,199 100% 42%	1,143 100% 36%	1,179 100% 39%	1,150 100% 37%	1,179 100% 39%	1,162 100% 37%	1,179 100% 39%	1,157 100% 37%	1,179 100% 39%	1,160 100% 37%	1,179 100% 39%
	30304	20060062	320	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	34 87% 60%	41 96% 84%	35 90% 63%	41 96% 84%	38 93% 72%	41 96% 84%	36 93% 66%	41 96% 84%	36 91% 67%	41 96% 84%
		19960036	15	15 100% 97%	11 87% 58%	13 96% 81%	11 90% 61%	13 96% 81%	12 93% 70%	13 96% 81%	12 93% 64%	13 96% 81%	12 91% 64%	13 96% 81%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

Table 36. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 99%	7 100% 96%	7 100% 93%	7 100% 93%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 100% 87%	7 100% 87%		
		19600053	108	103 100% 87%	104 100% 85%	104 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%		
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%		
		20030029	100	95 100% 79%	31 57% 10%	49 69% 22%	62 82% 37%	64 82% 40%	82 93% 64%	82 93% 64%	72 87% 54%	72 87% 55%	66 87% 40%	66 87% 42%		
		19740306	20	19 100% 93%	6 58% 10%	10 69% 22%	13 82% 37%	13 82% 40%	17 93% 72%	17 93% 72%	14 87% 55%	15 87% 57%	13 87% 42%	13 87% 43%		
		19641018	160	152 99% 90%	158 100% 96%	158 100% 94%	157 100% 94%	157 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 100% 93%	153 100% 93%		
		20060043	1,470	1,237 99% 55%	433 57% 7%	680 69% 21%	846 82% 31%	869 82% 34%	1,090 91% 45%	1,090 91% 45%	958 85% 37%	970 85% 39%	875 85% 33%	886 85% 34%		
	30302	19650553	149	116 97% 40%	136 100% 70%	133 100% 61%	127 100% 55%	126 100% 54%	121 99% 48%	121 99% 48%	123 99% 51%	123 99% 51%	125 97% 55%	125 97% 54%		
		19970006	1,100	958 100% 37%	607 99% 7%	700 99% 18%	774 99% 25%	785 99% 28%	884 100% 36%	884 100% 36%	826 99% 33%	830 99% 34%	793 100% 27%	800 100% 28%		
		19320051	631	595 100% 75%	616 100% 76%	615 100% 76%	614 100% 76%	614 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	605 100% 76%	605 100% 76%		
		New Permits on Elk Creek	1,250	1,055 100% 40%	632 97% 6%	749 97% 18%	835 97% 28%	849 97% 31%	966 99% 37%	966 99% 37%	892 97% 33%	899 97% 34%	864 99% 30%	871 99% 31%		
	30303	19820113	10	9 100% 63%	3 66% 4%	4 70% 12%	6 79% 30%	6 79% 30%	8 93% 46%	8 93% 46%	7 87% 40%	7 87% 40%	6 85% 30%	6 85% 30%		
		New Permits on Otter Creek	3,750	2,384 100% 0%	836 63% 0%	1,192 70% 0%	1,516 79% 0%	1,545 79% 0%	2,043 93% 0%	2,043 93% 0%	1,772 87% 0%	1,794 87% 0%	1,630 85% 0%	1,636 85% 0%		
Tom Steed Reservoir		19670671	16,100[a]	14,353 99% 97%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%	14,400 100% 100%		
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	78 57% 7%	104 66% 16%	124 76% 19%	125 76% 21%	147 85% 22%	147 85% 22%	134 81% 22%	135 81% 22%	127 78% 19%	127 78% 21%		
		19980025	1,338	1,199 100% 42%	1,006 100% 16%	1,066 100% 24%	1,109 100% 31%	1,119 100% 33%	1,162 100% 37%	1,162 100% 37%	1,134 100% 36%	1,140 100% 36%	1,134 100% 31%	1,138 100% 33%		
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	5 21% 3%	17 61% 13%	25 76% 34%	27 78% 39%	38 93% 72%	38 93% 72%	32 87% 54%	33 87% 57%	29 84% 42%	30 85% 43%		
		19960036	15	15 100% 97%	2 21% 3%	6 61% 13%	8 76% 34%	9 78% 39%	12 93% 70%	12 93% 70%	10 87% 54%	11 87% 57%	9 84% 40%	10 85% 42%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 36. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 90%	7 99% 84%	7 100% 88%	7 99% 84%	7 99% 87%	7 99% 84%	7 100% 87%	7 99% 84%	7 100% 85%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	72 90% 52%	85 96% 66%	76 91% 57%	85 96% 66%	82 93% 64%	86 96% 67%	78 91% 60%	85 96% 66%	77 93% 58%	85 96% 66%
		19740306	20	19 100% 93%	14 90% 55%	17 96% 75%	15 91% 61%	17 96% 75%	17 93% 72%	17 96% 78%	16 91% 64%	17 96% 75%	16 93% 63%	17 96% 75%
		19641018	160	152 99% 90%	154 100% 93%	152 99% 90%	154 100% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 100% 93%	152 99% 90%	153 100% 91%	152 99% 90%
		20060043	1,470	1,237 99% 55%	959 88% 37%	1,107 94% 45%	1,007 90% 40%	1,107 94% 45%	1,090 91% 45%	1,129 94% 46%	1,034 90% 42%	1,107 94% 45%	1,014 91% 40%	1,107 94% 45%
	30302	19650553	149	116 97% 40%	124 99% 49%	119 97% 46%	123 99% 49%	119 97% 46%	121 99% 48%	119 97% 46%	121 99% 48%	119 97% 46%	121 97% 49%	119 97% 46%
		19970006	1,100	958 100% 37%	833 99% 30%	899 100% 36%	851 99% 33%	899 100% 36%	884 100% 36%	908 100% 36%	861 99% 34%	899 100% 36%	858 100% 33%	899 100% 36%
		19320051	631	595 100% 75%	609 100% 76%	598 100% 76%	609 100% 76%	598 100% 76%	605 100% 76%	597 100% 76%	607 100% 76%	598 100% 76%	604 100% 76%	598 100% 76%
		New Permits on Elk Creek	1,250	1,055 100% 40%	902 97% 33%	977 99% 39%	929 97% 36%	977 99% 39%	966 99% 37%	988 99% 39%	935 97% 36%	977 99% 39%	933 99% 36%	977 99% 39%
	30303	19820113	10	9 100% 63%	7 85% 36%	8 94% 49%	7 88% 42%	8 94% 49%	8 93% 46%	8 96% 51%	7 91% 42%	8 94% 49%	7 91% 42%	8 94% 49%
		New Permits on Otter Creek	3,750	2,384 100% 0%	1,765 85% 0%	2,126 94% 0%	1,877 88% 0%	2,126 94% 0%	2,043 93% 0%	2,152 96% 0%	1,931 91% 0%	2,126 94% 0%	1,914 91% 0%	2,126 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	14,353 99% 97%	14,400 100% 100%	14,396 100% 99%	14,400 100% 100%	14,396 100% 99%	14,400 100% 100%	14,396 100% 99%	14,400 100% 100%	14,396 100% 99%	14,400 100% 100%	14,396 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	130 82% 21%	145 85% 22%	137 84% 22%	145 85% 22%	147 85% 22%	148 85% 22%	139 84% 22%	145 85% 22%	137 84% 22%	145 85% 22%
		19980025	1,338	1,199 100% 42%	1,136 100% 34%	1,177 100% 39%	1,150 100% 37%	1,177 100% 39%	1,162 100% 37%	1,179 100% 39%	1,156 100% 37%	1,177 100% 39%	1,160 100% 37%	1,177 100% 39%
	30304	20060062	320	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	32 85% 55%	41 94% 82%	34 88% 61%	41 94% 82%	38 93% 72%	41 96% 84%	36 91% 64%	41 94% 82%	36 91% 64%	41 94% 82%
		19960036	15	15 100% 97%	11 85% 55%	13 94% 79%	11 88% 61%	13 94% 79%	12 93% 70%	13 96% 81%	12 91% 64%	13 94% 79%	12 91% 63%	13 94% 79%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use - Permit Volume (16,100 acre-ft/yr)

Table 37. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 99%	7 100% 96%	7 100% 91%	7 100% 91%	7 99% 87%	7 99% 87%	7 100% 88%	7 100% 88%	7 100% 87%	7 100% 87%		
		19600053	108	103 100% 87%	104 100% 85%	104 100% 85%	104 100% 87%	104 100% 87%	104 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%		
		19650249	800	663 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%	666 100% 21%		
		20030029	100	95 100% 79%	30 55% 9%	48 67% 24%	63 84% 37%	65 84% 40%	82 93% 64%	82 93% 64%	72 87% 54%	72 87% 55%	65 87% 40%	66 87% 42%		
		19740306	20	19 100% 93%	6 55% 9%	10 67% 24%	13 84% 37%	13 84% 40%	17 93% 72%	17 93% 72%	14 87% 55%	15 87% 57%	13 87% 42%	13 87% 43%		
		19641018	160	152 99% 90%	158 100% 96%	158 100% 94%	156 100% 94%	156 100% 94%	154 99% 93%	154 99% 93%	155 100% 94%	155 100% 94%	153 100% 93%	153 100% 93%		
		20060043	1,470	1,237 99% 55%	412 55% 6%	671 67% 22%	843 84% 31%	876 84% 34%	1,090 91% 45%	1,090 91% 45%	953 85% 37%	970 85% 39%	870 85% 33%	886 85% 34%		
	30302	19650553	149	116 97% 40%	136 100% 70%	133 100% 61%	127 100% 55%	126 100% 54%	121 99% 48%	121 99% 48%	123 99% 51%	123 99% 51%	125 97% 55%	125 97% 54%		
		19970006	1,100	958 100% 37%	599 99% 6%	693 99% 18%	778 99% 25%	788 99% 28%	884 100% 36%	884 100% 36%	825 99% 33%	828 99% 34%	792 100% 27%	799 100% 28%		
		19320051	631	595 100% 75%	616 100% 76%	615 100% 76%	612 100% 76%	612 100% 76%	605 100% 76%	605 100% 76%	607 100% 76%	607 100% 76%	605 100% 76%	605 100% 76%		
		New Permits on Elk Creek	1,250	1,055 100% 40%	623 97% 4%	742 97% 19%	843 97% 28%	857 97% 31%	966 99% 37%	966 99% 37%	891 97% 33%	898 97% 34%	863 99% 30%	870 99% 31%		
	30303	19820113	10	9 100% 63%	2 58% 3%	4 66% 12%	6 81% 30%	6 81% 30%	8 93% 46%	8 93% 46%	7 87% 40%	7 87% 40%	6 85% 30%	6 85% 30%		
		New Permits on Otter Creek	3,750	2,384 100% 0%	770 57% 0%	1,141 64% 0%	1,514 81% 0%	1,550 81% 0%	2,032 93% 0%	2,032 93% 0%	1,752 87% 0%	1,778 87% 0%	1,612 85% 0%	1,621 85% 0%		
Tom Steed Reservoir		19670671	16,100[a]	16,015 99% 97%	16,078 100% 99%	16,071 100% 99%	16,071 100% 99%	16,071 100% 99%	16,069 100% 97%	16,069 100% 97%	16,069 100% 97%	16,069 100% 97%	16,071 100% 99%	16,071 100% 99%		
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	74 54% 6%	102 63% 16%	125 76% 19%	126 76% 21%	147 85% 22%	147 85% 22%	134 79% 22%	135 79% 22%	126 76% 19%	127 76% 21%		
		19980025	1,338	1,199 100% 42%	1,006 100% 16%	1,064 100% 24%	1,112 100% 31%	1,122 100% 33%	1,162 100% 37%	1,162 100% 37%	1,134 100% 36%	1,140 100% 36%	1,134 100% 31%	1,138 100% 33%		
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	4 18% 0%	17 60% 15%	26 79% 34%	27 81% 39%	38 93% 72%	38 93% 72%	32 87% 54%	33 87% 57%	29 84% 42%	30 85% 43%		
		19960036	15	15 100% 97%	1 18% 0%	6 60% 15%	9 79% 34%	9 81% 39%	12 93% 70%	12 93% 70%	10 87% 54%	11 87% 57%	9 84% 40%	10 85% 42%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 37. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 100% 90%	7 99% 85%	7 100% 88%	7 99% 84%	7 99% 87%	7 99% 84%	7 100% 87%	7 99% 84%	7 100% 85%	7 99% 84%
		19600053	108	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	104 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%	666 100% 21%	665 100% 21%
		20030029	100	95 100% 79%	69 85% 51%	84 96% 66%	74 90% 57%	85 96% 66%	82 93% 64%	86 96% 67%	77 90% 60%	85 96% 66%	76 91% 58%	85 96% 66%
		19740306	20	19 100% 93%	14 85% 54%	17 96% 73%	15 90% 60%	17 96% 75%	17 93% 72%	17 96% 78%	15 90% 63%	17 96% 75%	15 91% 61%	17 96% 75%
		19641018	160	152 99% 90%	154 100% 93%	152 99% 90%	154 100% 93%	152 99% 90%	154 99% 93%	152 99% 90%	154 100% 93%	152 99% 90%	153 100% 91%	152 99% 90%
		20060043	1,470	1,237 99% 55%	921 84% 36%	1,098 94% 45%	990 88% 40%	1,107 94% 45%	1,090 91% 45%	1,129 94% 46%	1,017 88% 42%	1,107 94% 45%	997 90% 40%	1,107 94% 45%
	30302	19650553	149	116 97% 40%	124 99% 51%	120 97% 46%	123 99% 49%	119 97% 46%	121 99% 48%	119 97% 46%	121 99% 48%	119 97% 46%	121 97% 49%	119 97% 46%
		19970006	1,100	958 100% 37%	815 99% 28%	896 100% 36%	841 99% 33%	899 100% 36%	884 100% 36%	908 100% 36%	851 99% 34%	899 100% 36%	848 100% 33%	899 100% 36%
		19320051	631	595 100% 75%	609 100% 76%	598 100% 76%	609 100% 76%	598 100% 76%	605 100% 76%	597 100% 76%	607 100% 76%	598 100% 76%	604 100% 76%	598 100% 76%
		New Permits on Elk Creek	1,250	1,055 100% 40%	882 97% 33%	972 99% 39%	918 97% 36%	976 99% 39%	966 99% 37%	988 99% 39%	924 97% 36%	976 99% 39%	922 99% 36%	976 99% 39%
	30303	19820113	10	9 100% 63%	6 81% 34%	8 93% 48%	7 87% 40%	8 94% 49%	8 93% 46%	8 96% 51%	7 90% 40%	8 94% 49%	7 90% 40%	8 94% 49%
		New Permits on Otter Creek	3,750	2,384 100% 0%	1,674 81% 0%	2,079 93% 0%	1,823 87% 0%	2,115 94% 0%	2,032 93% 0%	2,152 96% 0%	1,884 90% 0%	2,115 94% 0%	1,867 90% 0%	2,115 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	16,015 99% 97%	16,069 100% 97%	16,057 100% 97%	16,069 100% 97%	16,057 100% 97%	16,069 100% 97%	16,057 100% 97%	16,069 100% 97%	16,057 100% 97%	16,069 100% 97%	16,057 100% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	127 81% 21%	145 85% 22%	137 84% 22%	145 85% 22%	147 85% 22%	148 85% 22%	139 84% 22%	145 85% 22%	137 84% 22%	145 85% 22%
		19980025	1,338	1,199 100% 42%	1,131 100% 33%	1,172 100% 39%	1,146 100% 37%	1,177 100% 39%	1,162 100% 37%	1,179 100% 39%	1,152 100% 37%	1,177 100% 39%	1,156 100% 37%	1,177 100% 39%
	30304	20060062	320	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	31 81% 54%	40 93% 81%	34 87% 60%	41 94% 82%	38 93% 72%	41 96% 84%	35 90% 63%	41 94% 82%	35 90% 63%	41 94% 82%
		19960036	15	15 100% 97%	10 81% 54%	13 93% 78%	11 87% 60%	13 94% 79%	12 93% 70%	13 96% 81%	11 90% 63%	13 94% 79%	11 90% 61%	13 94% 79%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing New Stream Permits (High: 5,000 acre-ft/yr)

Reservoir Use - Existing Volume (12,700 acre-ft/yr)

Table 38. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	1,250	1,055 100% 40%	139 21% 3%	448 61% 15%	626 76% 24%	662 78% 28%	892 93% 36%	892 93% 36%	773 85% 30%	791 85% 33%	680 84% 27%	697 85% 28%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	3,750	2,384 100% 0%	271 21% 0%	922 61% 0%	1,315 76% 0%	1,381 78% 0%	1,968 93% 0%	1,968 93% 0%	1,663 87% 0%	1,708 87% 0%	1,468 84% 0%	1,488 85% 0%
Tom Steed Reservoir		19670671	16,100[a]	12,685 100% 99%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	170 93% 27%	165 93% 27%	164 91% 27%	163 91% 27%	158 90% 24%	158 90% 24%	163 91% 27%	163 91% 27%	163 91% 27%	163 91% 27%
		19980025	1,338	1,199 100% 42%	1,204 100% 43%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%	1,199 100% 42%	1,199 100% 42%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 38. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	1,250	1,055 100% 40%	800 87% 33%	949 96% 39%	833 90% 34%	949 96% 39%	892 93% 36%	949 96% 39%	853 91% 34%	949 96% 39%	844 91% 34%	949 96% 39%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	3,750	2,384 100% 0%	1,735 87% 0%	2,134 96% 0%	1,808 90% 0%	2,134 96% 0%	1,968 93% 0%	2,134 96% 0%	1,875 93% 0%	2,134 96% 0%	1,858 91% 0%	2,134 96% 0%
Tom Steed Reservoir		19670671	16,100[a]	12,685 100% 99%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%	12,700 100% 100%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	162 91% 27%	157 88% 24%	161 90% 27%	157 88% 24%	158 90% 24%	157 88% 24%	161 90% 27%	157 88% 24%	161 90% 27%	157 88% 24%
		19980025	1,338	1,199 100% 42%	1,201 100% 43%	1,199 100% 42%	1,201 100% 43%	1,199 100% 42%	1,199 100% 42%	1,199 100% 42%	1,201 100% 43%	1,199 100% 42%	1,201 100% 43%	1,199 100% 42%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use - Mid Volume (14,400 acre-ft/yr)

Table 39. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	1,250	1,055 100% 40%	139 21% 3%	419 58% 13%	626 76% 24%	662 78% 28%	892 93% 36%	892 93% 36%	773 85% 30%	791 85% 33%	680 84% 27%	697 85% 28%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	3,750	2,384 100% 0%	271 21% 0%	860 58% 0%	1,315 76% 0%	1,381 78% 0%	1,968 93% 0%	1,968 93% 0%	1,663 87% 0%	1,708 87% 0%	1,468 84% 0%	1,488 85% 0%
Tom Steed Reservoir		19670671	16,100[a]	14,353 99% 97%	14,397 100% 99%	14,392 100% 99%	14,392 100% 99%	14,392 100% 99%	14,391 100% 99%	14,391 100% 99%	14,391 100% 99%	14,391 100% 99%	14,392 100% 99%	14,392 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	170 93% 27%	165 93% 27%	164 91% 27%	163 91% 27%	158 90% 24%	158 90% 24%	163 91% 27%	163 91% 27%	163 91% 27%	163 91% 27%
		19980025	1,338	1,199 100% 42%	1,204 100% 43%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%	1,199 100% 42%	1,199 100% 42%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 39. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	1,250	1,055 100% 40%	757 84% 31%	936 94% 39%	825 88% 34%	936 94% 39%	892 93% 36%	949 96% 39%	846 90% 34%	936 94% 39%	837 91% 34%	936 94% 39%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	3,750	2,384 100% 0%	1,620 84% 0%	2,097 94% 0%	1,779 88% 0%	2,097 94% 0%	1,968 93% 0%	2,134 96% 0%	1,846 91% 0%	2,097 94% 0%	1,829 91% 0%	2,097 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	14,353 99% 97%	14,391 100% 99%	14,385 100% 99%	14,391 100% 99%	14,385 100% 99%	14,391 100% 99%	14,385 100% 99%	14,391 100% 99%	14,385 100% 99%	14,391 100% 99%	14,385 100% 99%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	162 91% 27%	159 88% 25%	161 90% 27%	159 88% 25%	158 90% 24%	157 88% 24%	161 90% 27%	159 88% 25%	161 90% 27%	159 88% 25%
		19980025	1,338	1,199 100% 42%	1,201 100% 43%	1,200 100% 42%	1,201 100% 43%	1,200 100% 42%	1,199 100% 42%	1,199 100% 42%	1,201 100% 43%	1,200 100% 42%	1,201 100% 43%	1,200 100% 42%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Reservoir Use – Permit Volume (16,100 acre-ft/yr)

Table 40. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	1,250	1,055 100% 40%	139 21% 3%	391 52% 13%	639 79% 24%	675 81% 28%	892 93% 36%	892 93% 36%	773 85% 30%	791 85% 33%	680 84% 27%	697 85% 28%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	3,750	2,384 100% 0%	271 21% 0%	796 52% 0%	1,339 79% 0%	1,405 81% 0%	1,968 93% 0%	1,968 93% 0%	1,663 87% 0%	1,708 87% 0%	1,468 84% 0%	1,488 85% 0%
Tom Steed Reservoir		19670671	16,100[a]	16,015 99% 97%	16,057 100% 97%	16,052 100% 97%	16,052 100% 97%	16,052 100% 97%	16,052 100% 97%	16,052 100% 97%	16,052 100% 97%	16,052 100% 97%	16,052 100% 97%	16,052 100% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	170 93% 27%	166 93% 27%	164 91% 27%	163 91% 27%	158 90% 24%	158 90% 24%	163 91% 27%	163 91% 27%	163 91% 27%	163 91% 27%
		19980025	1,338	1,199 100% 42%	1,204 100% 43%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%	1,199 100% 42%	1,199 100% 42%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%	1,201 100% 43%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 40. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%	663 100% 21%
		20030029	100	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%	95 100% 79%
		19740306	20	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%	19 100% 93%
		19641018	160	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%	152 99% 90%
		20060043	1,470	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%	1,237 99% 55%
	30302	19650553	149	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%	116 97% 40%
		19970006	1,100	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%	958 100% 37%
		19320051	631	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%	595 100% 75%
		New Permits on Elk Creek	1,250	1,055 100% 40%	745 81% 31%	922 93% 39%	813 87% 34%	936 94% 39%	892 93% 36%	949 96% 39%	834 88% 34%	936 94% 39%	825 90% 34%	936 94% 39%
	30303	19820113	10	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%	9 100% 63%
		New Permits on Otter Creek	3,750	2,384 100% 0%	1,588 81% 0%	2,061 93% 0%	1,747 87% 0%	2,097 94% 0%	1,968 93% 0%	2,134 96% 0%	1,814 90% 0%	2,097 94% 0%	1,797 90% 0%	2,097 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	16,015 99% 97%	16,052 100% 97%	16,052 99% 97%	16,052 100% 97%	16,052 99% 97%	16,052 100% 97%	16,052 99% 97%	16,052 100% 97%	16,052 99% 97%	16,052 100% 97%	16,052 99% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	157 88% 24%	163 93% 27%	160 90% 25%	162 91% 27%	159 88% 25%	158 90% 24%	157 88% 24%	162 91% 27%	159 88% 25%	162 91% 27%	159 88% 25%
		19980025	1,338	1,199 100% 42%	1,201 100% 43%	1,200 100% 42%	1,201 100% 43%	1,200 100% 42%	1,199 100% 42%	1,199 100% 42%	1,201 100% 43%	1,200 100% 42%	1,201 100% 43%	1,200 100% 42%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Full Groundwater Permit Use Under a Range of Domestic Use Conditions

Existing Domestic Use – ***Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)***

Table 41. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in any month

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	8 100% 100%	7 100% 94%	7 100% 99%	7 100% 94%	7 99% 90%	7 99% 90%	7 100% 91%	7 100% 90%	7 100% 99%	7 100% 94%		
		19600053	108	103 100% 87%	104 100% 84%	104 100% 85%	103 100% 84%	104 100% 85%	103 100% 87%	103 100% 87%	103 100% 87%	104 100% 87%	103 100% 84%	104 100% 85%		
		19650249	800	568 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%		
		20030029	100	95 100% 79%	35 57% 12%	53 70% 33%	61 73% 45%	66 76% 49%	81 88% 67%	81 88% 69%	73 81% 58%	75 82% 60%	62 75% 45%	67 78% 49%		
		19740306	20	19 100% 93%	7 57% 12%	11 70% 33%	12 73% 46%	13 76% 52%	16 88% 78%	16 88% 79%	15 81% 64%	15 82% 66%	12 75% 46%	13 78% 52%		
		19641018	160	149 99% 78%	158 100% 96%	156 100% 91%	157 100% 94%	156 100% 91%	152 99% 82%	152 99% 82%	155 100% 85%	154 100% 85%	157 100% 94%	156 100% 91%		
		20060043	1,470	1,188 99% 46%	499 57% 12%	736 69% 30%	831 73% 31%	880 75% 36%	1,026 87% 40%	1,027 87% 40%	945 81% 37%	957 81% 39%	831 75% 31%	880 76% 36%		
	30302	19650553	149	116 97% 40%	136 100% 73%	133 99% 64%	127 100% 55%	126 99% 54%	120 99% 48%	119 99% 48%	122 99% 52%	121 97% 51%	126 99% 55%	125 97% 54%		
		19970006	1,100	955 100% 37%	614 99% 6%	713 99% 25%	759 99% 30%	782 99% 33%	872 99% 37%	873 99% 37%	828 99% 37%	833 99% 37%	762 100% 30%	786 100% 33%		
		19320051	631	593 100% 73%	616 100% 76%	614 100% 76%	614 100% 76%	613 100% 76%	606 100% 76%	606 100% 76%	611 100% 76%	611 100% 76%	613 100% 76%	612 100% 76%		
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		
	30303	19820113	10	9 100% 63%	2 57% 3%	4 75% 12%	5 78% 22%	6 81% 24%	8 91% 49%	8 91% 49%	7 88% 43%	7 88% 43%	5 81% 22%	6 84% 24%		
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		
Tom Steed Reservoir		19670671	16,100[a]	16,058 87% 97%	16,072 88% 97%	16,072 88% 97%	16,072 88% 97%	16,072 88% 97%	16,071 87% 97%	16,071 87% 97%	16,072 88% 97%	16,072 88% 97%	16,072 88% 97%	16,072 88% 97%		
Downstream of Bretch Diversion Dam	30302	19970010	297	156 87% 24%	93 55% 10%	118 63% 22%	126 66% 22%	129 67% 24%	145 81% 24%	145 81% 24%	137 76% 24%	139 76% 24%	126 66% 22%	129 67% 24%		
		19980025	1,338	1,199 100% 42%	1,002 100% 21%	1,074 100% 31%	1,096 100% 28%	1,114 100% 33%	1,160 100% 39%	1,162 100% 39%	1,134 100% 39%	1,141 100% 39%	1,098 100% 28%	1,116 100% 33%		
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	12 51% 6%	24 66% 27%	28 70% 46%	31 73% 54%	38 87% 81%	39 87% 82%	34 81% 66%	35 82% 67%	28 72% 46%	31 75% 54%		
		19960036	15	15 100% 97%	3 57% 0%	6 75% 12%	8 78% 28%	9 81% 33%	12 91% 72%	12 91% 72%	11 88% 58%	11 88% 58%	9 81% 28%	9 84% 33%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 41. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	568 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%
		20030029	100	95 100% 79%	73 87% 61%	86 94% 69%	77 88% 63%	87 96% 69%	82 91% 69%	88 96% 70%	80 93% 64%	88 96% 70%	78 90% 63%	88 96% 72%
		19740306	20	19 100% 93%	15 87% 67%	17 94% 78%	15 88% 70%	18 96% 78%	17 91% 79%	18 96% 82%	16 93% 73%	18 96% 81%	16 90% 70%	18 96% 81%
		19641018	160	149 99% 78%	152 99% 84%	149 99% 78%	152 99% 84%	149 99% 78%	152 99% 82%	149 99% 78%	152 99% 84%	149 99% 78%	152 99% 84%	149 99% 78%
		20060043	1,470	1,188 99% 46%	951 85% 37%	1,072 93% 40%	976 87% 37%	1,085 94% 40%	1,042 90% 40%	1,098 94% 42%	1,016 91% 39%	1,090 94% 40%	989 88% 37%	1,090 94% 42%
	30302	19650553	149	116 97% 40%	123 97% 49%	118 97% 46%	121 97% 49%	117 97% 45%	119 97% 48%	118 97% 46%	120 97% 46%	117 97% 45%	120 97% 48%	117 97% 45%
		19970006	1,100	955 100% 37%	831 100% 36%	900 100% 37%	844 100% 36%	905 100% 37%	880 100% 37%	909 100% 37%	865 100% 37%	907 100% 37%	851 100% 36%	907 100% 37%
		19320051	631	593 100% 73%	606 100% 76%	597 100% 75%	606 100% 76%	597 100% 75%	605 100% 76%	597 100% 75%	606 100% 76%	597 100% 75%	605 100% 76%	597 100% 75%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	6 87% 31%	8 97% 46%	7 90% 33%	8 97% 46%	8 94% 49%	8 97% 52%	7 93% 43%	8 97% 51%	7 93% 33%	8 97% 48%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	16,058 87% 97%	16,071 88% 97%	16,068 88% 97%	16,071 88% 97%	16,068 88% 97%	16,070 87% 97%	16,067 87% 97%	16,071 88% 97%	16,068 88% 97%	16,071 88% 97%	16,068 88% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	156 87% 24%	135 76% 24%	148 84% 24%	138 78% 24%	149 85% 24%	147 82% 24%	152 85% 24%	144 82% 24%	150 85% 24%	139 79% 24%	150 85% 24%
		19980025	1,338	1,199 100% 42%	1,142 100% 36%	1,183 100% 39%	1,151 100% 37%	1,187 100% 39%	1,167 100% 39%	1,185 100% 39%	1,163 100% 39%	1,187 100% 39%	1,155 100% 37%	1,187 100% 39%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 96%	318 100% 99%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	35 84% 70%	42 93% 84%	37 87% 73%	42 94% 85%	39 90% 82%	43 94% 90%	38 91% 76%	43 94% 88%	37 88% 73%	43 94% 88%
		19960036	15	15 100% 97%	11 87% 48%	13 97% 75%	11 90% 51%	13 97% 75%	13 94% 72%	14 97% 81%	12 93% 61%	14 97% 79%	11 93% 51%	13 97% 76%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 42. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits										
					Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available											
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	8 100% 100%	7 100% 94%	7 100% 99%	7 100% 94%	7 99% 90%	7 99% 90%	7 100% 91%	7 100% 90%	7 100% 99%	7 100% 94%	
		19600053	108	103 100% 87%	104 100% 84%	104 100% 85%	103 100% 84%	104 100% 85%	103 100% 87%	103 100% 87%	103 100% 87%	104 100% 87%	103 100% 84%	104 100% 85%	
		19650249	800	568 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	
		20030029	100	95 100% 79%	35 57% 12%	53 70% 33%	61 73% 45%	66 76% 49%	81 88% 67%	81 88% 69%	73 81% 58%	75 82% 60%	62 75% 45%	67 78% 49%	
		19740306	20	19 100% 93%	7 57% 12%	11 70% 33%	12 73% 46%	13 76% 52%	16 88% 78%	16 88% 79%	15 81% 64%	15 82% 66%	12 75% 46%	13 78% 52%	
		19641018	160	149 99% 78%	158 100% 96%	156 100% 91%	157 100% 94%	156 100% 91%	152 99% 82%	152 99% 82%	155 100% 85%	154 100% 85%	157 100% 94%	156 100% 91%	
		20060043	1,470	1,188 99% 46%	499 57% 12%	736 69% 30%	831 73% 31%	880 75% 36%	1,026 87% 40%	1,027 87% 40%	945 81% 37%	957 81% 39%	831 75% 31%	880 76% 36%	
	30302	19650553	149	116 97% 40%	136 100% 73%	133 99% 64%	127 100% 55%	126 99% 54%	120 99% 48%	119 99% 48%	122 99% 52%	121 97% 51%	126 99% 55%	125 97% 54%	
		19970006	1,100	955 100% 37%	614 99% 6%	713 99% 25%	759 99% 30%	782 99% 33%	872 99% 37%	873 99% 37%	828 99% 37%	833 99% 37%	762 100% 30%	786 100% 33%	
		19320051	631	593 100% 73%	616 100% 76%	614 100% 76%	614 100% 76%	613 100% 76%	606 100% 76%	606 100% 76%	611 100% 76%	611 100% 76%	613 100% 76%	612 100% 76%	
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
	30303	19820113	10	9 100% 63%	2 57% 3%	4 75% 12%	5 78% 22%	6 81% 24%	8 91% 49%	8 91% 49%	7 88% 43%	7 88% 43%	5 81% 22%	6 84% 24%	
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,058 100% 97%	16,072 100% 97%	16,072 100% 97%	16,072 100% 97%	16,072 100% 97%	16,071 100% 97%	16,071 100% 97%	16,072 100% 97%	16,072 100% 97%	16,072 100% 97%	
Downstream of Bretch Diversion Dam	30302	19970010	297	156 87% 24%	93 55% 10%	118 63% 22%	126 66% 22%	129 67% 24%	145 81% 24%	145 81% 24%	137 76% 24%	139 76% 24%	126 66% 22%	129 67% 24%	
		19980025	1,338	1,199 100% 42%	1,002 100% 21%	1,074 100% 31%	1,096 100% 28%	1,114 100% 33%	1,160 100% 39%	1,162 100% 39%	1,134 100% 39%	1,141 100% 39%	1,098 100% 28%	1,116 100% 33%	
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%	
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	12 51% 6%	24 66% 27%	28 70% 46%	31 73% 54%	38 87% 81%	39 87% 82%	34 81% 66%	35 82% 67%	28 72% 46%	31 75% 54%	
		19960036	15	15 100% 97%	3 57% 0%	6 75% 12%	8 78% 28%	9 81% 33%	12 91% 72%	12 91% 72%	11 88% 58%	11 88% 58%	9 81% 28%	9 84% 33%	
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	

Table 42. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%	7 99% 88%	7 99% 84%
		19600053	108	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%	103 100% 87%
		19650249	800	568 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%	570 100% 9%
		20030029	100	95 100% 79%	73 87% 61%	86 94% 69%	77 88% 63%	87 96% 69%	82 91% 69%	88 96% 70%	80 93% 64%	88 96% 70%	78 90% 63%	88 96% 72%
		19740306	20	19 100% 93%	15 87% 67%	17 94% 78%	15 88% 70%	18 96% 78%	17 91% 79%	18 96% 82%	16 93% 73%	18 96% 81%	16 90% 70%	18 96% 81%
		19641018	160	149 99% 78%	152 99% 84%	149 99% 78%	152 99% 84%	149 99% 78%	152 99% 82%	149 99% 78%	152 99% 84%	149 99% 78%	152 99% 84%	149 99% 78%
		20060043	1,470	1,188 99% 46%	951 85% 37%	1,072 93% 40%	976 87% 37%	1,085 94% 40%	1,042 90% 40%	1,098 94% 42%	1,016 91% 39%	1,090 94% 40%	989 88% 37%	1,090 94% 42%
	30302	19650553	149	116 97% 40%	123 97% 49%	118 97% 46%	121 97% 49%	117 97% 45%	119 97% 48%	118 97% 46%	120 97% 46%	117 97% 45%	120 97% 48%	117 97% 45%
		19970006	1,100	955 100% 37%	831 100% 36%	900 100% 37%	844 100% 36%	905 100% 37%	880 100% 37%	909 100% 37%	865 100% 37%	907 100% 37%	851 100% 36%	907 100% 37%
		19320051	631	593 100% 73%	606 100% 76%	597 100% 75%	606 100% 76%	597 100% 75%	605 100% 76%	597 100% 75%	606 100% 76%	597 100% 75%	605 100% 76%	597 100% 75%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	9 100% 63%	6 87% 31%	8 97% 46%	7 90% 33%	8 97% 46%	8 94% 49%	8 97% 52%	7 93% 43%	8 97% 51%	7 93% 33%	8 97% 48%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	16,062 100% 97%	16,058 100% 97%	16,071 100% 97%	16,068 100% 97%	16,071 100% 97%	16,068 100% 97%	16,070 100% 97%	16,067 100% 97%	16,071 100% 97%	16,068 100% 97%	16,071 100% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	156 87% 24%	135 76% 24%	148 84% 24%	138 78% 24%	149 85% 24%	147 82% 24%	152 85% 24%	144 82% 24%	150 85% 24%	139 79% 24%	150 85% 24%
		19980025	1,338	1,199 100% 42%	1,142 100% 36%	1,183 100% 39%	1,151 100% 37%	1,187 100% 39%	1,167 100% 39%	1,185 100% 39%	1,163 100% 39%	1,187 100% 39%	1,155 100% 37%	1,187 100% 39%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 96%	318 100% 99%	317 100% 96%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	35 84% 70%	42 93% 84%	37 87% 73%	42 94% 85%	39 90% 82%	43 94% 90%	38 91% 76%	43 94% 88%	37 88% 73%	43 94% 88%
		19960036	15	15 100% 97%	11 87% 48%	13 97% 75%	11 90% 51%	13 97% 75%	13 94% 72%	14 97% 81%	12 93% 61%	14 97% 79%	11 93% 51%	13 97% 76%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

New Domestic Use (Low)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

Table 43. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment any month.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%		
		19600053	108	90 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%		
		19650249	800	544 100% 7%	519 100% 6%	520 100% 6%	519 100% 6%	520 100% 6%	521 100% 6%	521 100% 6%	521 100% 6%	521 100% 6%	519 100% 6%	520 100% 6%		
		20030029	100	82 99% 51%	28 54% 9%	37 57% 24%	41 64% 24%	42 64% 25%	47 79% 25%	47 79% 25%	45 76% 25%	45 76% 25%	41 64% 24%	42 64% 25%		
		19740306	20	17 99% 64%	6 57% 9%	8 63% 25%	9 70% 25%	9 72% 27%	11 84% 27%	11 84% 27%	10 79% 27%	10 79% 27%	9 70% 25%	9 72% 27%		
		19641018	160	133 97% 58%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%		
		20060043	1,470	970 97% 28%	407 54% 7%	525 57% 16%	585 64% 19%	594 64% 19%	666 79% 19%	666 79% 19%	635 76% 19%	640 76% 19%	585 64% 19%	594 64% 19%		
	30302	19650553	149	88 93% 28%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%		
		19970006	1,100	836 100% 24%	388 93% 3%	504 93% 13%	595 93% 15%	603 93% 15%	697 96% 18%	697 96% 18%	667 96% 16%	670 97% 16%	596 94% 15%	604 94% 15%		
		19320051	631	544 100% 42%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%		
		New Permits on Elk Creek	8,400	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		
	30303	19820113	10	8 100% 12%	2 55% 0%	3 64% 0%	5 79% 3%	5 79% 3%	7 91% 10%	7 91% 10%	6 87% 7%	6 90% 7%	5 82% 3%	5 82% 3%		
		New Permits on Otter Creek	25,100	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -		
Tom Steed Reservoir		19670671	16,100[a]	16,037 85% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%	16,042 87% 97%		
Downstream of Bretch Diversion Dam	30302	19970010	297	137 85% 19%	84 57% 7%	113 61% 24%	127 69% 24%	129 70% 25%	146 84% 25%	146 84% 25%	138 79% 25%	139 79% 25%	127 69% 24%	129 70% 25%		
		19980025	1,338	1,130 100% 30%	884 99% 15%	926 99% 27%	927 99% 25%	930 99% 27%	948 100% 28%	948 100% 28%	942 99% 28%	942 99% 28%	927 99% 25%	930 99% 27%		
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	1 3% 1%	1 3% 1%	1 3% 1%	1 3% 1%	2 4% 4%	2 4% 4%	1 3% 3%	1 3% 3%	1 3% 1%	1 3% 1%		
		19960036	15	15 100% 97%	0 3% 0%	0 3% 0%	0 3% 0%	0 3% 0%	1 4% 3%	1 4% 3%	1 4% 3%	1 4% 3%	0 3% 0%	0 3% 0%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 43. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%
		19600053	108	90 99% 55%	88 99% 55%	89 99% 55%	88 99% 55%	89 99% 55%	88 99% 55%	89 99% 55%	88 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%
		19650249	800	544 100% 7%	521 100% 6%	522 100% 6%	521 100% 6%	522 100% 6%	521 100% 6%	522 100% 6%	521 100% 6%	522 100% 6%	522 100% 6%	522 100% 6%
		20030029	100	82 99% 51%	43 72% 25%	50 84% 28%	44 73% 25%	51 85% 28%	47 79% 25%	52 85% 28%	46 79% 25%	51 85% 28%	47 78% 27%	51 85% 28%
		19740306	20	17 99% 64%	10 75% 27%	11 88% 30%	10 79% 27%	11 90% 30%	11 84% 27%	12 90% 30%	10 82% 27%	11 90% 30%	11 84% 28%	11 90% 30%
		19641018	160	133 97% 58%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%
		20060043	1,470	970 97% 28%	603 72% 19%	687 84% 19%	621 73% 19%	698 85% 19%	666 79% 19%	712 85% 19%	650 79% 19%	703 85% 19%	661 78% 19%	698 85% 19%
	30302	19650553	149	88 93% 28%	117 97% 48%	115 97% 45%	117 97% 48%	115 97% 45%	117 97% 48%	115 97% 45%	117 97% 48%	115 97% 45%	116 97% 46%	115 97% 45%
		19970006	1,100	836 100% 24%	630 96% 15%	705 97% 18%	650 97% 15%	713 97% 18%	697 96% 18%	722 97% 18%	682 97% 16%	719 97% 16%	666 97% 15%	714 97% 18%
		19320051	631	544 100% 42%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	8 100% 12%	5 84% 6%	7 93% 7%	6 90% 6%	7 96% 7%	7 93% 10%	7 96% 10%	6 91% 7%	7 96% 7%	6 91% 6%	7 96% 7%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	16,037 85% 97%	16,042 87% 97%	16,041 86% 97%	16,042 87% 97%	16,041 86% 97%	16,042 87% 97%	16,041 86% 97%	16,042 87% 97%	16,041 86% 97%	16,042 87% 97%	16,041 86% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	137 85% 19%	132 75% 25%	146 87% 25%	136 78% 25%	148 88% 25%	146 84% 25%	151 88% 25%	142 82% 25%	149 88% 25%	138 81% 25%	148 88% 25%
		19980025	1,338	1,130 100% 30%	938 100% 27%	988 100% 28%	938 100% 27%	988 100% 28%	948 100% 28%	989 100% 28%	946 100% 28%	989 100% 28%	963 100% 28%	988 100% 28%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	2 4% 3%	9 25% 4%	2 4% 3%	9 25% 4%	2 4% 4%	9 25% 4%	2 4% 3%	9 25% 4%	7 21% 3%	9 25% 4%
		19960036	15	15 100% 97%	1 4% 3%	2 25% 3%	1 4% 3%	2 25% 3%	1 4% 3%	2 25% 3%	1 4% 3%	2 25% 3%	1 21% 3%	2 25% 3%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 44. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits										
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds								
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600		
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49		
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available											
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	
		19600053	108	90 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	88 99% 55%	
		19650249	800	544 100% 7%	519 100% 6%	520 100% 6%	519 100% 6%	520 100% 6%	521 100% 6%	521 100% 6%	521 100% 6%	521 100% 6%	519 100% 6%	520 100% 6%	
		20030029	100	82 99% 51%	28 54% 9%	37 57% 24%	41 64% 24%	42 64% 25%	47 79% 25%	47 79% 25%	45 76% 25%	45 76% 25%	41 64% 24%	42 64% 25%	
		19740306	20	17 99% 64%	6 57% 9%	8 63% 25%	9 70% 25%	9 72% 27%	11 84% 27%	11 84% 27%	10 79% 27%	10 79% 27%	9 70% 25%	9 72% 27%	
		19641018	160	133 97% 58%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	141 99% 67%	
		20060043	1,470	970 97% 28%	407 54% 7%	525 57% 16%	585 64% 19%	594 64% 19%	666 79% 19%	666 79% 19%	635 76% 19%	640 76% 19%	585 64% 19%	594 64% 19%	
	30302	19650553	149	88 93% 28%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	117 97% 48%	
		19970006	1,100	836 100% 24%	388 93% 3%	504 93% 13%	595 93% 15%	603 93% 15%	697 96% 18%	697 96% 18%	667 96% 16%	670 97% 16%	596 94% 15%	604 94% 15%	
		19320051	631	544 100% 42%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	552 100% 45%	
		New Permits on Elk Creek	8,400	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
	30303	19820113	10	8 100% 12%	2 55% 0%	3 64% 0%	5 79% 3%	5 79% 3%	7 91% 10%	7 91% 10%	6 87% 7%	6 90% 7%	5 82% 3%	5 82% 3%	
		New Permits on Otter Creek	25,100	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
Tom Steed Reservoir		19670671	16,100[a]	16,037 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	16,042 99% 97%	
Downstream of Bretch Diversion Dam	30302	19970010	297	137 85% 19%	84 57% 7%	113 61% 24%	127 69% 24%	129 70% 25%	146 84% 25%	146 84% 25%	138 79% 25%	139 79% 25%	127 69% 24%	129 70% 25%	
		19980025	1,338	1,130 100% 30%	884 99% 15%	926 99% 27%	927 99% 25%	930 99% 27%	948 100% 28%	948 100% 28%	942 99% 28%	942 99% 28%	927 99% 25%	930 99% 27%	
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	1 3% 1%	1 3% 1%	1 3% 1%	1 3% 1%	2 4% 4%	2 4% 4%	1 3% 3%	1 3% 3%	1 3% 1%	1 3% 1%	
		19960036	15	15 100% 97%	0 3% 0%	0 3% 0%	0 3% 0%	0 3% 0%	1 4% 3%	1 4% 3%	1 4% 3%	1 4% 3%	0 3% 0%	0 3% 0%	
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	

Table 44. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
Inflow Threshold				-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
PDSI Threshold				-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
Reservoir Storage Threshold				-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%	7 99% 73%
		19600053	108	90 99% 55%	88 99% 55%	89 99% 55%	88 99% 55%	89 99% 55%	88 99% 55%	89 99% 55%	88 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%
		19650249	800	544 100% 7%	521 100% 6%	522 100% 6%	521 100% 6%	522 100% 6%	521 100% 6%	522 100% 6%	521 100% 6%	522 100% 6%	522 100% 6%	522 100% 6%
		20030029	100	82 99% 51%	43 72% 25%	50 84% 28%	44 73% 25%	51 85% 28%	47 79% 25%	52 85% 28%	46 79% 25%	51 85% 28%	47 78% 27%	51 85% 28%
		19740306	20	17 99% 64%	10 75% 27%	11 88% 30%	10 79% 27%	11 90% 30%	11 84% 27%	12 90% 30%	10 82% 27%	11 90% 30%	11 84% 28%	11 90% 30%
		19641018	160	133 97% 58%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%	141 99% 67%	140 99% 67%
		20060043	1,470	970 97% 28%	603 72% 19%	687 84% 19%	621 73% 19%	698 85% 19%	666 79% 19%	712 85% 19%	650 79% 19%	703 85% 19%	661 78% 19%	698 85% 19%
	30302	19650553	149	88 93% 28%	117 97% 48%	115 97% 45%	117 97% 48%	115 97% 45%	117 97% 48%	115 97% 45%	117 97% 48%	115 97% 45%	116 97% 46%	115 97% 45%
		19970006	1,100	836 100% 24%	630 96% 15%	705 97% 18%	650 97% 15%	713 97% 18%	697 96% 18%	722 97% 18%	682 97% 16%	719 97% 16%	666 97% 15%	714 97% 18%
		19320051	631	544 100% 42%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%	552 100% 45%	551 100% 45%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	8 100% 12%	5 84% 6%	7 93% 7%	6 90% 6%	7 96% 7%	7 93% 10%	7 96% 10%	6 91% 7%	7 96% 7%	6 91% 6%	7 96% 7%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	16,037 99% 97%	16,042 99% 97%	16,041 99% 97%	16,042 99% 97%	16,041 99% 97%	16,042 99% 97%	16,041 99% 97%	16,042 99% 97%	16,041 99% 97%	16,042 99% 97%	16,041 99% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	137 85% 19%	132 75% 25%	146 87% 25%	136 78% 25%	148 88% 25%	146 84% 25%	151 88% 25%	142 82% 25%	149 88% 25%	138 81% 25%	148 88% 25%
		19980025	1,338	1,130 100% 30%	938 100% 27%	988 100% 28%	938 100% 27%	988 100% 28%	948 100% 28%	989 100% 28%	946 100% 28%	989 100% 28%	963 100% 28%	988 100% 28%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	2 4% 3%	9 25% 4%	2 4% 3%	9 25% 4%	2 4% 4%	9 25% 4%	2 4% 3%	9 25% 4%	7 21% 3%	9 25% 4%
		19960036	15	15 100% 97%	1 4% 3%	2 25% 3%	1 4% 3%	2 25% 3%	1 4% 3%	2 25% 3%	1 4% 3%	2 25% 3%	1 21% 3%	2 25% 3%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 35,800 acre-ft/yr)

Table 45. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in any month.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600			
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49			
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%		
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available												
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	7 99% 73%	7 99% 73%	6 99% 64%	6 99% 64%	6 99% 58%	6 99% 58%	6 97% 60%	6 97% 60%	6 97% 64%	6 97% 64%		
		19600053	108	90 99% 55%	88 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%		
		19650249	800	544 100% 7%	520 100% 7%	524 100% 7%	529 100% 7%	530 100% 7%	538 100% 7%	538 100% 7%	535 100% 7%	535 100% 7%	530 100% 7%	531 100% 7%		
		20030029	100	82 99% 51%	28 52% 7%	45 61% 22%	56 72% 33%	59 72% 36%	71 87% 43%	71 87% 43%	65 81% 39%	65 81% 39%	56 73% 33%	59 73% 36%		
		19740306	20	17 99% 64%	6 54% 7%	9 63% 22%	12 73% 45%	12 73% 48%	15 87% 57%	15 87% 57%	14 81% 52%	14 81% 52%	12 75% 45%	13 75% 48%		
		19641018	160	133 97% 58%	141 99% 67%	140 99% 66%	138 99% 61%	138 99% 60%	136 99% 60%	135 99% 60%	136 97% 60%	136 97% 60%	138 97% 61%	138 97% 60%		
		20060043	1,470	970 97% 28%	400 52% 6%	609 61% 18%	716 72% 24%	746 72% 25%	868 87% 27%	868 87% 27%	816 79% 25%	816 79% 25%	716 72% 24%	746 72% 25%		
	30302	19650553	149	88 93% 28%	115 97% 45%	110 97% 39%	106 97% 36%	103 97% 34%	97 96% 31%	97 96% 31%	101 97% 33%	101 97% 33%	106 97% 36%	103 97% 34%		
		19970006	1,100	836 100% 24%	378 93% 3%	499 94% 4%	628 94% 13%	643 94% 16%	762 96% 24%	762 96% 24%	718 96% 22%	721 97% 22%	630 96% 13%	645 96% 16%		
		19320051	631	544 100% 42%	552 100% 45%	552 100% 43%	551 100% 43%	552 100% 43%	547 100% 42%	547 100% 42%	550 100% 43%	550 100% 43%	551 100% 43%	551 100% 43%		
		New Permits on Elk Creek	8,900	5,365 100% 3%	2,189 91% 1%	2,965 93% 3%	4,059 93% 3%	4,113 93% 3%	4,978 94% 3%	4,987 94% 3%	4,723 94% 3%	4,735 96% 3%	4,073 94% 3%	4,128 94% 3%		
	30303	19820113	10	8 100% 12%	2 54% 0%	3 64% 0%	5 79% 3%	5 79% 3%	7 91% 10%	7 91% 10%	6 88% 7%	6 90% 7%	5 82% 3%	5 82% 3%		
		New Permits on Otter Creek	26,900	8,787 100% 0%	3,542 54% 0%	4,032 66% 0%	5,864 79% 0%	5,899 79% 0%	7,592 91% 0%	7,597 91% 0%	7,053 88% 0%	7,040 90% 0%	5,873 82% 0%	5,970 82% 0%		
Tom Steed Reservoir		19670671	16,100[a]	15,714 31% 90%	16,042 87% 97%	16,039 86% 97%	16,039 85% 97%	16,039 85% 97%	15,956 72% 96%	15,956 72% 96%	15,993 73% 96%	15,993 73% 96%	16,039 85% 97%	16,039 85% 97%		
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	67 52% 6%	79 55% 12%	94 63% 12%	94 63% 12%	105 73% 12%	105 73% 12%	100 70% 12%	100 70% 12%	94 63% 12%	94 63% 12%		
		19980025	1,338	1,125 100% 28%	883 99% 15%	951 99% 21%	1,004 99% 22%	1,018 99% 24%	1,076 100% 28%	1,078 100% 28%	1,052 99% 28%	1,052 99% 28%	1,006 99% 22%	1,020 99% 24%		
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%		
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	9 42% 1%	20 58% 15%	28 70% 46%	30 70% 51%	38 87% 81%	39 87% 82%	34 81% 67%	34 81% 66%	28 72% 48%	30 72% 51%		
		19960036	15	15 100% 97%	2 49% 0%	5 66% 4%	8 79% 28%	9 79% 31%	12 91% 72%	12 91% 72%	11 88% 58%	11 90% 58%	9 82% 28%	9 82% 31%		
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%		

Table 45. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	6 97% 64%	6 97% 60%	6 97% 61%	6 97% 60%	6 97% 58%	6 97% 58%	6 97% 60%	6 97% 60%	6 97% 61%	6 97% 58%
		19600053	108	90 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%
		19650249	800	544 100% 7%	530 100% 7%	535 100% 7%	534 100% 7%	536 100% 7%	538 100% 7%	539 100% 7%	536 100% 7%	538 100% 7%	534 100% 7%	537 100% 7%
		20030029	100	82 99% 51%	59 76% 40%	67 85% 40%	63 78% 40%	68 85% 42%	71 88% 43%	72 90% 43%	67 82% 42%	71 90% 42%	63 78% 40%	71 88% 42%
		19740306	20	17 99% 64%	12 76% 45%	14 85% 51%	13 78% 52%	15 85% 55%	15 88% 57%	15 90% 57%	14 82% 55%	15 90% 55%	13 78% 52%	15 88% 55%
		19641018	160	133 97% 58%	137 97% 61%	135 97% 60%	136 97% 60%	135 97% 60%	135 97% 60%	135 97% 60%	136 97% 60%	135 97% 60%	136 97% 60%	135 97% 60%
		20060043	1,470	970 97% 28%	749 73% 25%	813 82% 25%	788 76% 25%	828 82% 25%	868 87% 27%	879 88% 27%	831 81% 25%	873 88% 25%	788 76% 25%	862 87% 25%
	30302	19650553	149	88 93% 28%	102 97% 34%	97 96% 33%	101 97% 34%	97 96% 33%	97 96% 31%	96 96% 31%	100 97% 33%	96 96% 31%	101 97% 34%	96 96% 31%
		19970006	1,100	836 100% 24%	648 96% 16%	719 97% 19%	686 97% 16%	732 97% 21%	762 96% 24%	768 97% 24%	729 97% 22%	763 97% 22%	686 97% 16%	751 97% 21%
		19320051	631	544 100% 42%	551 100% 43%	549 100% 42%	550 100% 43%	549 100% 42%	546 100% 42%	546 100% 42%	550 100% 43%	549 100% 42%	550 100% 43%	548 100% 42%
		New Permits on Elk Creek	8,900	5,365 100% 3%	4,065 94% 3%	4,614 96% 3%	4,395 96% 3%	4,730 96% 3%	4,987 94% 3%	5,016 96% 3%	4,771 96% 3%	4,968 96% 3%	4,392 96% 3%	4,842 96% 3%
	30303	19820113	10	8 100% 12%	5 81% 3%	6 90% 6%	6 87% 3%	6 91% 6%	7 93% 10%	7 94% 10%	6 90% 7%	7 94% 7%	6 87% 3%	6 94% 6%
		New Permits on Otter Creek	26,900	8,787 100% 0%	5,720 81% 0%	6,902 90% 0%	6,531 87% 0%	7,147 91% 0%	7,599 93% 0%	7,702 94% 0%	7,172 90% 0%	7,586 94% 0%	6,504 87% 0%	7,332 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,714 31% 90%	16,027 81% 97%	16,012 75% 97%	16,024 79% 97%	16,005 71% 97%	15,956 72% 96%	15,955 71% 96%	15,993 73% 96%	15,974 71% 96%	16,024 79% 97%	15,997 71% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	92 63% 12%	95 67% 12%	97 67% 12%	99 70% 12%	105 73% 12%	105 73% 12%	100 70% 12%	104 73% 12%	97 67% 12%	103 73% 12%
		19980025	1,338	1,125 100% 28%	1,021 100% 24%	1,066 100% 27%	1,040 100% 24%	1,068 100% 27%	1,080 100% 28%	1,087 100% 28%	1,059 100% 28%	1,082 100% 28%	1,041 100% 24%	1,079 100% 28%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	30 75% 57%	37 84% 69%	34 78% 66%	38 85% 75%	39 88% 82%	40 90% 84%	36 82% 72%	40 90% 78%	34 78% 66%	39 88% 76%
		19960036	15	15 100% 97%	9 81% 34%	11 90% 57%	10 87% 43%	12 91% 61%	12 93% 72%	13 94% 75%	11 90% 60%	12 94% 66%	10 87% 43%	12 94% 61%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 46. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI Thresholds								
			Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	7 99% 73%	7 99% 73%	6 99% 64%	6 99% 64%	6 99% 58%	6 99% 58%	6 97% 60%	6 97% 60%	6 97% 64%	6 97% 64%
		19600053	108	90 99% 55%	88 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%
		19650249	800	544 100% 7%	520 100% 7%	524 100% 7%	529 100% 7%	530 100% 7%	538 100% 7%	538 100% 7%	535 100% 7%	535 100% 7%	530 100% 7%	531 100% 7%
		20030029	100	82 99% 51%	28 52% 7%	45 61% 22%	56 72% 33%	59 72% 36%	71 87% 43%	71 87% 43%	65 81% 39%	65 81% 39%	56 73% 33%	59 73% 36%
		19740306	20	17 99% 64%	6 54% 7%	9 63% 22%	12 73% 45%	12 73% 48%	15 87% 57%	15 87% 57%	14 81% 52%	14 81% 52%	12 75% 45%	13 75% 48%
		19641018	160	133 97% 58%	141 99% 67%	140 99% 66%	138 99% 61%	138 99% 60%	136 99% 60%	135 99% 60%	136 97% 60%	136 97% 60%	138 97% 61%	138 97% 60%
		20060043	1,470	970 97% 28%	400 52% 6%	609 61% 18%	716 72% 24%	746 72% 25%	868 87% 27%	868 87% 27%	816 79% 25%	816 79% 25%	716 72% 24%	746 72% 25%
	30302	19650553	149	88 93% 28%	115 97% 45%	110 97% 39%	106 97% 36%	103 97% 34%	97 96% 31%	97 96% 31%	101 97% 33%	101 97% 33%	106 97% 36%	103 97% 34%
		19970006	1,100	836 100% 24%	378 93% 3%	499 94% 4%	628 94% 13%	643 94% 16%	762 96% 24%	762 96% 24%	718 96% 22%	721 97% 22%	630 96% 13%	645 96% 16%
		19320051	631	544 100% 42%	552 100% 45%	552 100% 43%	551 100% 43%	552 100% 43%	547 100% 42%	547 100% 42%	550 100% 43%	550 100% 43%	551 100% 43%	551 100% 43%
		New Permits on Elk Creek	8,900	5,365 100% 3%	2,189 91% 1%	2,965 93% 3%	4,059 93% 3%	4,113 93% 3%	4,978 94% 3%	4,987 94% 3%	4,723 94% 3%	4,735 96% 3%	4,073 94% 3%	4,128 94% 3%
	30303	19820113	10	8 100% 12%	2 54% 0%	3 64% 0%	5 79% 3%	5 79% 3%	7 91% 10%	7 91% 10%	6 88% 7%	6 90% 7%	5 82% 3%	5 82% 3%
		New Permits on Otter Creek	26,900	8,787 100% 0%	3,542 54% 0%	4,032 66% 0%	5,864 79% 0%	5,899 79% 0%	7,592 91% 0%	7,597 91% 0%	7,053 88% 0%	7,040 90% 0%	5,873 82% 0%	5,970 82% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,714 96% 90%	16,042 99% 97%	16,039 99% 97%	16,039 99% 97%	16,039 99% 97%	15,956 99% 96%	15,956 99% 96%	15,993 99% 96%	15,993 99% 96%	16,039 99% 97%	16,039 99% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	67 52% 6%	79 55% 12%	94 63% 12%	94 63% 12%	105 73% 12%	105 73% 12%	100 70% 12%	100 70% 12%	94 63% 12%	94 63% 12%
		19980025	1,338	1,125 100% 28%	883 99% 15%	951 99% 21%	1,004 99% 22%	1,018 99% 24%	1,076 100% 28%	1,078 100% 28%	1,052 99% 28%	1,052 99% 28%	1,006 99% 22%	1,020 99% 24%
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	9 42% 1%	20 58% 15%	28 70% 46%	30 70% 51%	38 87% 81%	39 87% 82%	34 81% 67%	34 81% 66%	28 72% 48%	30 72% 51%
		19960036	15	15 100% 97%	2 49% 0%	5 66% 4%	8 79% 28%	9 79% 31%	12 91% 72%	12 91% 72%	11 88% 58%	11 90% 58%	9 82% 28%	9 82% 31%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 46. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	6 97% 64%	6 97% 60%	6 97% 61%	6 97% 60%	6 97% 58%	6 97% 58%	6 97% 60%	6 97% 60%	6 97% 61%	6 97% 58%
		19600053	108	90 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%	89 99% 55%
		19650249	800	544 100% 7%	530 100% 7%	535 100% 7%	534 100% 7%	536 100% 7%	538 100% 7%	539 100% 7%	536 100% 7%	538 100% 7%	534 100% 7%	537 100% 7%
		20030029	100	82 99% 51%	59 76% 40%	67 85% 40%	63 78% 40%	68 85% 42%	71 88% 43%	72 90% 43%	67 82% 42%	71 90% 42%	63 78% 40%	71 88% 42%
		19740306	20	17 99% 64%	12 76% 45%	14 85% 51%	13 78% 52%	15 85% 55%	15 88% 57%	15 90% 57%	14 82% 55%	15 90% 55%	13 78% 52%	15 88% 55%
		19641018	160	133 97% 58%	137 97% 61%	135 97% 60%	136 97% 60%	135 97% 60%	135 97% 60%	135 97% 60%	136 97% 60%	135 97% 60%	136 97% 60%	135 97% 60%
		20060043	1,470	970 97% 28%	749 73% 25%	813 82% 25%	788 76% 25%	828 82% 25%	868 87% 27%	879 88% 27%	831 81% 25%	873 88% 25%	788 76% 25%	862 87% 25%
	30302	19650553	149	88 93% 28%	102 97% 34%	97 96% 33%	101 97% 34%	97 96% 33%	97 96% 31%	96 96% 31%	100 97% 33%	96 96% 31%	101 97% 34%	96 96% 31%
		19970006	1,100	836 100% 24%	648 96% 16%	719 97% 19%	686 97% 16%	732 97% 21%	762 96% 24%	768 97% 24%	729 97% 22%	763 97% 22%	686 97% 16%	751 97% 21%
		19320051	631	544 100% 42%	551 100% 43%	549 100% 42%	550 100% 43%	549 100% 42%	546 100% 42%	546 100% 42%	550 100% 43%	549 100% 42%	550 100% 43%	548 100% 42%
		New Permits on Elk Creek	8,900	5,365 100% 3%	4,065 94% 3%	4,614 96% 3%	4,395 96% 3%	4,730 96% 3%	4,987 94% 3%	5,016 96% 3%	4,771 96% 3%	4,968 96% 3%	4,392 96% 3%	4,842 96% 3%
	30303	19820113	10	8 100% 12%	5 81% 3%	6 90% 6%	6 87% 3%	6 91% 6%	7 93% 10%	7 94% 10%	6 90% 7%	7 94% 7%	6 87% 3%	6 94% 6%
		New Permits on Otter Creek	26,900	8,787 100% 0%	5,720 81% 0%	6,902 90% 0%	6,531 87% 0%	7,147 91% 0%	7,599 93% 0%	7,702 94% 0%	7,172 90% 0%	7,586 94% 0%	6,504 87% 0%	7,332 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,714 96% 90%	16,027 99% 97%	16,012 99% 97%	16,024 99% 97%	16,005 99% 97%	15,956 99% 96%	15,955 99% 96%	15,993 99% 96%	15,974 99% 96%	16,024 99% 97%	15,997 99% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	92 63% 12%	95 67% 12%	97 67% 12%	99 70% 12%	105 73% 12%	105 73% 12%	100 70% 12%	104 73% 12%	97 67% 12%	103 73% 12%
		19980025	1,338	1,125 100% 28%	1,021 100% 24%	1,066 100% 27%	1,040 100% 24%	1,068 100% 27%	1,080 100% 28%	1,087 100% 28%	1,059 100% 28%	1,082 100% 28%	1,041 100% 24%	1,079 100% 28%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	30 75% 57%	37 84% 69%	34 78% 66%	38 85% 75%	39 88% 82%	40 90% 84%	36 82% 72%	40 90% 78%	34 78% 66%	39 88% 76%
		19960036	15	15 100% 97%	9 81% 34%	11 90% 57%	10 87% 43%	12 91% 61%	12 93% 72%	13 94% 75%	11 90% 60%	12 94% 66%	10 87% 43%	12 94% 61%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing New Stream Permits (35,800 acre-ft/yr)

Table 47. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment any month.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%
		19600053	108	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%
		19650249	800	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%
		20030029	100	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%
		19740306	20	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%
		19641018	160	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%
		20060043	1,470	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%
	30302	19650553	149	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%
		19970006	1,100	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%
		19320051	631	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%
		New Permits on Elk Creek	8,900	5,365 100% 3%	1,307 49% 0%	2,357 60% 3%	3,748 79% 3%	3,861 79% 3%	4,906 91% 3%	4,934 91% 3%	4,588 87% 3%	4,613 88% 3%	3,776 81% 3%	3,898 82% 3%
	30303	19820113	10	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%
		New Permits on Otter Creek	26,900	8,787 100% 0%	1,880 51% 0%	3,089 64% 0%	5,380 79% 0%	5,568 79% 0%	7,506 91% 0%	7,597 91% 0%	6,890 88% 0%	6,915 90% 0%	5,431 82% 0%	5,663 82% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,714 31% 90%	16,036 85% 97%	16,032 83% 97%	16,030 82% 97%	16,030 82% 97%	15,948 69% 96%	15,948 69% 96%	15,984 70% 96%	15,984 70% 96%	16,030 82% 97%	16,030 82% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	132 85% 16%	120 84% 13%	119 82% 12%	118 82% 12%	114 81% 12%	114 81% 12%	115 81% 12%	115 81% 12%	119 82% 12%	118 82% 12%
		19980025	1,338	1,125 100% 28%	1,130 100% 30%	1,126 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 47. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%
		19600053	108	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%
		19650249	800	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%
		20030029	100	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%
		19740306	20	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%
		19641018	160	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%
		20060043	1,470	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%
	30302	19650553	149	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%
		19970006	1,100	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%
		19320051	631	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%
		New Permits on Elk Creek	8,900	5,365 100% 3%	3,807 79% 3%	4,488 88% 3%	4,266 87% 3%	4,629 91% 3%	4,934 91% 3%	4,978 94% 3%	4,694 90% 3%	4,858 94% 3%	4,263 87% 3%	4,750 94% 3%
	30303	19820113	10	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%
		New Permits on Otter Creek	26,900	8,787 100% 0%	5,526 81% 0%	6,846 90% 0%	6,440 87% 0%	7,104 91% 0%	7,599 93% 0%	7,702 94% 0%	7,172 90% 0%	7,498 94% 0%	6,413 87% 0%	7,289 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,714 31% 90%	16,021 78% 97%	16,005 72% 97%	16,019 77% 97%	15,998 69% 97%	15,948 69% 96%	15,947 69% 96%	15,984 70% 96%	15,965 68% 94%	16,019 77% 97%	15,984 69% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	116 82% 12%	112 81% 12%	116 82% 12%	112 81% 12%	114 81% 12%	112 81% 12%	114 81% 12%	112 81% 12%	116 82% 12%	112 81% 12%
		19980025	1,338	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 48. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI Thresholds								
			Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%
		19600053	108	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%
		19650249	800	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%
		20030029	100	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%
		19740306	20	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%
		19641018	160	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%
		20060043	1,470	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%
	30302	19650553	149	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%
		19970006	1,100	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%
		19320051	631	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%
		New Permits on Elk Creek	8,900	5,365 100% 3%	1,307 49% 0%	2,357 60% 3%	3,748 79% 3%	3,861 79% 3%	4,906 91% 3%	4,934 91% 3%	4,588 87% 3%	4,613 88% 3%	3,776 81% 3%	3,898 82% 3%
	30303	19820113	10	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%
		New Permits on Otter Creek	26,900	8,787 100% 0%	1,880 51% 0%	3,089 64% 0%	5,380 79% 0%	5,568 79% 0%	7,506 91% 0%	7,597 91% 0%	6,890 88% 0%	6,915 90% 0%	5,431 82% 0%	5,663 82% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,714 96% 90%	16,036 99% 97%	16,032 99% 97%	16,030 99% 97%	16,030 99% 97%	15,948 98% 96%	15,948 98% 96%	15,984 99% 96%	15,984 99% 96%	16,030 99% 97%	16,030 99% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	132 85% 16%	120 84% 13%	119 82% 12%	118 82% 12%	114 81% 12%	114 81% 12%	115 81% 12%	115 81% 12%	119 82% 12%	118 82% 12%
		19980025	1,338	1,125 100% 28%	1,130 100% 30%	1,126 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 48. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%	6 97% 55%
		19600053	108	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%	90 99% 55%
		19650249	800	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%	544 100% 7%
		20030029	100	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%	82 99% 51%
		19740306	20	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%	17 99% 64%
		19641018	160	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%	133 97% 58%
		20060043	1,470	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%	970 97% 28%
	30302	19650553	149	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%	88 93% 28%
		19970006	1,100	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%	836 100% 24%
		19320051	631	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%	544 100% 42%
		New Permits on Elk Creek	8,900	5,365 100% 3%	3,807 79% 3%	4,488 88% 3%	4,266 87% 3%	4,629 91% 3%	4,934 91% 3%	4,978 94% 3%	4,694 90% 3%	4,858 94% 3%	4,263 87% 3%	4,750 94% 3%
	30303	19820113	10	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%	8 100% 12%
		New Permits on Otter Creek	26,900	8,787 100% 0%	5,526 81% 0%	6,846 90% 0%	6,440 87% 0%	7,104 91% 0%	7,599 93% 0%	7,702 94% 0%	7,172 90% 0%	7,498 94% 0%	6,413 87% 0%	7,289 94% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,714 96% 90%	16,021 99% 97%	16,005 99% 97%	16,019 99% 97%	15,998 99% 97%	15,948 98% 96%	15,947 98% 96%	15,984 99% 96%	15,965 99% 94%	16,019 99% 97%	15,984 99% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	108 79% 12%	116 82% 12%	112 81% 12%	116 82% 12%	112 81% 12%	114 81% 12%	112 81% 12%	114 81% 12%	112 81% 12%	116 82% 12%	112 81% 12%
		19980025	1,338	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%	1,125 100% 28%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

New Domestic Use (High)

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr)

Table 49. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment any month.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits											
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds									
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 94% 28%	4 94% 28%	4 94% 28%	4 94% 28%	4 94% 28%	4 94% 28%	4 94% 28%	4 94% 28%	4 94% 28%	4 94% 28%
		19600053	108	59 94% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%
		19650249	800	471 100% 1%	425 100% 1%	425 100% 1%	425 100% 1%	425 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	425 100% 1%	425 100% 1%
		20030029	100	54 93% 24%	26 52% 6%	31 54% 13%	37 63% 16%	37 63% 16%	42 76% 16%	42 76% 16%	40 73% 16%	40 73% 16%	37 63% 16%	37 63% 16%
		19740306	20	11 94% 28%	5 54% 6%	6 55% 13%	7 64% 18%	8 64% 18%	9 78% 18%	9 78% 18%	8 75% 18%	8 75% 18%	7 64% 18%	8 64% 18%
		19641018	160	125 97% 48%	91 94% 30%	91 94% 30%	91 94% 30%	91 94% 30%	91 94% 30%	91 94% 30%	91 94% 30%	91 94% 30%	91 94% 30%	91 94% 30%
		20060043	1,470	716 90% 19%	380 52% 6%	450 54% 13%	529 63% 13%	535 63% 13%	603 76% 13%	603 76% 13%	578 73% 13%	582 73% 13%	529 63% 13%	535 63% 13%
	30302	19650553	149	68 85% 18%	74 90% 22%	74 90% 22%	74 90% 22%	74 90% 22%	74 90% 22%	74 90% 22%	74 90% 22%	74 90% 22%	74 90% 22%	74 90% 22%
		19970006	1,100	645 100% 10%	260 66% 1%	344 67% 4%	471 81% 9%	477 81% 9%	571 91% 9%	571 91% 9%	544 90% 9%	546 90% 9%	471 81% 9%	477 81% 9%
		19320051	631	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	7 100% 4%	2 52% 0%	3 61% 0%	4 79% 1%	4 79% 1%	6 91% 3%	6 91% 3%	5 87% 3%	5 90% 3%	4 81% 1%	4 82% 1%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	15,983 63% 97%	15,995 68% 97%	15,994 68% 97%	15,995 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,995 68% 97%	15,994 68% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	123 82% 13%	77 54% 6%	92 55% 13%	108 64% 16%	110 64% 16%	123 78% 16%	123 78% 16%	118 75% 16%	119 75% 16%	108 64% 16%	110 64% 16%
		19980025	1,338	1,008 100% 21%	709 97% 13%	744 99% 19%	749 99% 19%	753 99% 19%	771 100% 19%	771 100% 19%	766 99% 19%	766 99% 19%	749 99% 19%	753 99% 19%
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	1 3% 1%	1 3% 1%	1 3% 1%	1 3% 1%	2 4% 4%	2 4% 4%	1 3% 3%	1 3% 3%	1 3% 1%	1 3% 1%
		19960036	15	15 100% 97%	0 3% 0%	0 3% 0%	0 3% 0%	0 3% 0%	1 4% 3%	1 4% 3%	1 4% 3%	1 4% 3%	0 3% 0%	0 3% 0%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 49. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 94% 28%	4 93% 27%	4 94% 28%	4 93% 27%	4 94% 28%	4 93% 27%	4 94% 28%	4 93% 27%	4 93% 27%	4 93% 27%
		19600053	108	59 94% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%
		19650249	800	471 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%
		20030029	100	54 93% 24%	36 64% 16%	41 76% 18%	39 69% 16%	42 79% 18%	42 76% 16%	44 81% 18%	40 73% 16%	43 81% 18%	40 72% 18%	43 81% 18%
		19740306	20	11 94% 28%	7 66% 18%	8 78% 19%	8 70% 18%	9 81% 19%	9 78% 18%	9 82% 19%	8 75% 18%	9 82% 19%	8 73% 18%	9 82% 19%
		19641018	160	125 97% 48%	91 94% 30%	94 94% 31%	91 94% 30%	94 94% 31%	91 94% 30%	94 94% 31%	91 94% 30%	94 94% 31%	94 94% 31%	94 94% 31%
		20060043	1,470	716 90% 19%	517 64% 13%	593 76% 16%	555 69% 13%	606 79% 16%	603 76% 13%	628 81% 16%	582 73% 13%	618 81% 16%	575 72% 16%	620 81% 16%
	30302	19650553	149	68 85% 18%	74 90% 22%	73 88% 22%	74 90% 22%	73 88% 22%	74 90% 22%	73 88% 22%	74 90% 22%	73 88% 22%	73 88% 22%	73 88% 22%
		19970006	1,100	645 100% 10%	469 82% 9%	541 91% 9%	504 85% 9%	556 96% 9%	571 91% 9%	581 94% 9%	548 90% 9%	575 96% 9%	509 87% 9%	568 96% 9%
		19320051	631	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	7 100% 4%	4 78% 1%	6 90% 1%	5 85% 1%	6 94% 1%	6 93% 3%	6 96% 3%	6 90% 3%	6 96% 3%	5 85% 1%	6 96% 3%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	15,983 63% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,994 68% 97%	15,993 68% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	123 82% 13%	106 66% 16%	116 75% 15%	113 70% 16%	119 78% 15%	123 78% 16%	123 79% 15%	119 75% 16%	121 79% 15%	112 70% 15%	121 79% 15%
		19980025	1,338	1,008 100% 21%	757 100% 19%	799 100% 19%	759 100% 19%	799 100% 19%	771 100% 19%	807 100% 19%	771 100% 19%	807 100% 19%	783 100% 19%	805 100% 19%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	2 4% 3%	8 21% 4%	2 4% 3%	8 21% 4%	2 4% 4%	8 21% 4%	2 4% 3%	8 21% 4%	7 21% 3%	8 21% 4%
		19960036	15	15 100% 97%	1 4% 3%	1 21% 3%	1 4% 3%	1 21% 3%	1 4% 3%	1 21% 3%	1 4% 3%	1 21% 3%	1 21% 3%	1 21% 3%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 50. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits										
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds								
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600		
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49		
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available											
Upstream of Tom Steed Reservoir	30301	19550353	8	4 97% 25%	4 99% 28%	4 99% 28%	4 99% 28%	4 99% 28%	4 99% 28%	4 99% 28%	4 99% 28%	4 99% 28%	4 99% 28%	4 99% 28%	
		19600053	108	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	
		19650249	800	471 100% 1%	425 100% 1%	425 100% 1%	425 100% 1%	425 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	425 100% 1%	425 100% 1%	
		20030029	100	54 99% 24%	26 54% 6%	31 57% 13%	37 64% 16%	37 64% 16%	42 79% 16%	42 79% 16%	40 76% 16%	40 76% 16%	37 64% 16%	37 64% 16%	
		19740306	20	11 99% 28%	5 57% 6%	6 63% 13%	7 70% 18%	8 72% 18%	9 84% 18%	9 84% 18%	8 79% 18%	8 79% 18%	7 70% 18%	8 72% 18%	
		19641018	160	125 97% 48%	91 99% 30%	91 99% 30%	91 99% 30%	91 99% 30%	91 99% 30%	91 99% 30%	91 99% 30%	91 99% 30%	91 99% 30%	91 99% 30%	
		20060043	1,470	716 97% 19%	380 54% 6%	450 57% 13%	529 64% 13%	535 64% 13%	603 79% 13%	603 79% 13%	578 76% 13%	582 76% 13%	529 64% 13%	535 64% 13%	
	30302	19650553	149	68 93% 18%	74 97% 22%	74 97% 22%	74 97% 22%	74 97% 22%	74 97% 22%	74 97% 22%	74 97% 22%	74 97% 22%	74 97% 22%	74 97% 22%	
		19970006	1,100	645 100% 10%	260 93% 1%	344 93% 4%	471 93% 9%	477 93% 9%	571 96% 9%	571 96% 9%	544 96% 9%	546 97% 9%	471 94% 9%	477 94% 9%	
		19320051	631	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
	30303	19820113	10	7 100% 4%	2 55% 0%	3 64% 0%	4 79% 1%	4 79% 1%	6 91% 3%	6 91% 3%	5 87% 3%	5 90% 3%	4 82% 1%	4 82% 1%	
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
Tom Steed Reservoir		19670671	16,100[a]	15,983 99% 97%	15,995 99% 97%	15,994 99% 97%	15,995 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,995 99% 97%	15,994 99% 97%	
Downstream of Bretch Diversion Dam	30302	19970010	297	123 85% 13%	77 57% 6%	92 61% 13%	108 69% 16%	110 70% 16%	123 84% 16%	123 84% 16%	118 79% 16%	119 79% 16%	108 69% 16%	110 70% 16%	
		19980025	1,338	1,008 100% 21%	709 99% 13%	744 99% 19%	749 99% 19%	753 99% 19%	771 100% 19%	771 100% 19%	766 99% 19%	766 99% 19%	749 99% 19%	753 99% 19%	
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	1 3% 1%	1 3% 1%	1 3% 1%	1 3% 1%	2 4% 4%	2 4% 4%	1 3% 3%	1 3% 3%	1 3% 1%	1 3% 1%	
		19960036	15	15 100% 97%	0 3% 0%	0 3% 0%	0 3% 0%	0 3% 0%	1 4% 3%	1 4% 3%	1 4% 3%	1 4% 3%	0 3% 0%	0 3% 0%	
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	

Table 50. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 97% 25%	4 99% 28%	4 99% 27%	4 99% 28%	4 99% 27%	4 99% 28%	4 99% 27%	4 99% 28%	4 99% 27%	4 99% 27%	4 99% 27%
		19600053	108	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%	59 99% 25%
		19650249	800	471 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%	427 100% 1%
		20030029	100	54 99% 24%	36 72% 16%	41 84% 18%	39 73% 16%	42 85% 18%	42 79% 16%	44 85% 18%	40 79% 16%	43 85% 18%	40 78% 18%	43 85% 18%
		19740306	20	11 99% 28%	7 75% 18%	8 88% 19%	8 79% 18%	9 90% 19%	9 84% 18%	9 90% 19%	8 82% 18%	9 90% 19%	8 84% 18%	9 90% 19%
		19641018	160	125 97% 48%	91 99% 30%	94 99% 31%	91 99% 30%	94 99% 31%	91 99% 30%	94 99% 31%	91 99% 30%	94 99% 31%	94 99% 31%	94 99% 31%
		20060043	1,470	716 97% 19%	517 72% 13%	593 84% 16%	555 73% 13%	606 85% 16%	603 79% 13%	628 85% 16%	582 79% 13%	618 85% 16%	575 78% 16%	620 85% 16%
	30302	19650553	149	68 93% 18%	74 97% 22%	73 97% 22%	74 97% 22%	73 97% 22%	74 97% 22%	73 97% 22%	74 97% 22%	73 97% 22%	73 97% 22%	73 97% 22%
		19970006	1,100	645 100% 10%	469 96% 9%	541 97% 9%	504 97% 9%	556 97% 9%	571 96% 9%	581 97% 9%	548 97% 9%	575 97% 9%	509 97% 9%	568 97% 9%
		19320051	631	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%
		New Permits on Elk Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
	30303	19820113	10	7 100% 4%	4 84% 1%	6 93% 1%	5 90% 1%	6 96% 1%	6 93% 3%	6 96% 3%	6 91% 3%	6 96% 3%	5 91% 1%	6 96% 3%
		New Permits on Otter Creek	-	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Tom Steed Reservoir		19670671	16,100[a]	15,983 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,994 99% 97%	15,993 99% 97%
Downstream of Bretch Diversion Dam	30302	19970010	297	123 85% 13%	106 75% 16%	116 87% 15%	113 78% 16%	119 88% 15%	123 84% 16%	123 88% 15%	119 82% 16%	121 88% 15%	112 81% 15%	121 88% 15%
		19980025	1,338	1,008 100% 21%	757 100% 19%	799 100% 19%	759 100% 19%	799 100% 19%	771 100% 19%	807 100% 19%	771 100% 19%	807 100% 19%	783 100% 19%	805 100% 19%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	2 4% 3%	8 25% 4%	2 4% 3%	8 25% 4%	2 4% 4%	8 25% 4%	2 4% 3%	8 25% 4%	7 21% 3%	8 25% 4%
		19960036	15	15 100% 97%	1 4% 3%	1 25% 3%	1 4% 3%	1 25% 3%	1 4% 3%	1 25% 3%	1 4% 3%	1 25% 3%	1 21% 3%	1 25% 3%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing Existing Stream Permits (2,700 acre-ft/yr) and New Stream Permits (Full: 33,500 acre-ft/yr)

Table 51. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment any month.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 94% 28%	4 94% 27%	4 94% 25%	4 94% 25%	4 93% 25%	4 93% 25%	4 94% 25%	4 94% 25%	4 94% 25%	4 94% 25%
		19600053	108	59 94% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%
		19650249	800	471 100% 1%	430 100% 1%	436 100% 1%	448 100% 1%	449 100% 1%	462 100% 1%	462 100% 1%	457 100% 1%	457 100% 1%	448 100% 1%	449 100% 1%
		20030029	100	54 93% 24%	27 54% 6%	35 57% 16%	42 70% 22%	43 70% 22%	49 82% 24%	49 82% 24%	47 79% 22%	47 79% 22%	42 70% 22%	43 70% 22%
		19740306	20	11 94% 28%	5 54% 6%	7 57% 18%	9 70% 25%	9 70% 27%	10 82% 28%	10 82% 28%	10 79% 27%	10 79% 27%	9 70% 25%	9 70% 27%
		19641018	160	125 97% 48%	94 94% 31%	99 94% 34%	107 94% 37%	109 94% 40%	116 96% 42%	116 96% 42%	112 94% 40%	113 94% 42%	107 94% 37%	109 94% 40%
		20060043	1,470	716 90% 19%	376 52% 6%	484 55% 15%	573 66% 19%	583 66% 19%	658 81% 19%	658 81% 19%	631 76% 19%	631 76% 19%	573 66% 19%	583 66% 19%
	30302	19650553	149	68 85% 18%	73 90% 22%	70 90% 18%	70 90% 18%	70 90% 18%	69 87% 18%	69 87% 18%	69 90% 18%	69 90% 18%	70 90% 18%	70 90% 18%
		19970006	1,100	645 100% 10%	252 66% 1%	332 67% 3%	489 81% 7%	495 81% 9%	601 94% 10%	601 94% 10%	571 90% 9%	571 90% 9%	490 82% 7%	496 82% 9%
		19320051	631	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	411 100% 16%	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	1,816 64% 0%	2,287 67% 1%	3,214 81% 1%	3,265 81% 1%	3,852 94% 1%	3,852 94% 1%	3,692 90% 1%	3,692 90% 1%	3,240 82% 1%	3,278 82% 1%
	30303	19820113	10	7 100% 4%	0 52% 0%	1 61% 0%	5 79% 1%	5 79% 1%	7 91% 3%	7 91% 3%	6 87% 3%	6 90% 3%	5 82% 1%	5 82% 1%
		New Permits on Otter Creek	25,100	8,488 100% 0%	3,168 52% 0%	3,576 61% 0%	5,585 79% 0%	5,625 79% 0%	7,288 91% 0%	7,288 91% 0%	6,794 87% 0%	6,802 90% 0%	5,645 82% 0%	5,751 82% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 28% 90%	15,994 68% 97%	15,986 65% 97%	15,942 61% 96%	15,942 61% 96%	15,816 57% 93%	15,816 57% 93%	15,857 57% 93%	15,857 57% 93%	15,942 61% 96%	15,942 61% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	67 52% 6%	73 52% 7%	85 60% 7%	85 60% 7%	93 70% 7%	93 70% 7%	90 67% 7%	90 67% 7%	85 60% 7%	85 60% 7%
		19980025	1,338	994 100% 16%	722 97% 13%	778 99% 16%	854 99% 16%	867 99% 16%	941 100% 16%	941 100% 16%	909 99% 16%	914 99% 16%	859 99% 16%	871 99% 16%
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	9 46% 0%	18 55% 13%	28 70% 46%	29 70% 51%	39 87% 81%	39 87% 81%	34 79% 67%	35 81% 67%	28 72% 49%	30 72% 52%
		19960036	15	15 100% 97%	2 52% 0%	4 61% 4%	8 79% 28%	9 79% 31%	12 91% 72%	12 91% 72%	11 87% 58%	11 90% 58%	9 82% 28%	9 82% 31%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 51. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%
		19600053	108	59 94% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%
		19650249	800	471 100% 1%	446 100% 1%	454 100% 1%	452 100% 1%	456 100% 1%	462 100% 1%	463 100% 1%	458 100% 1%	459 100% 1%	453 100% 1%	457 100% 1%
		20030029	100	54 93% 24%	41 69% 22%	45 78% 22%	44 73% 22%	46 79% 22%	49 84% 24%	50 85% 24%	47 81% 22%	48 84% 22%	44 73% 22%	48 84% 22%
		19740306	20	11 94% 28%	9 69% 27%	9 78% 27%	9 73% 27%	10 79% 27%	10 84% 28%	11 85% 28%	10 81% 27%	10 84% 27%	9 73% 27%	10 84% 27%
		19641018	160	125 97% 48%	108 94% 40%	115 96% 40%	112 94% 42%	115 96% 42%	116 96% 42%	116 96% 42%	113 94% 42%	115 96% 42%	112 94% 42%	115 96% 42%
		20060043	1,470	716 90% 19%	560 67% 19%	608 76% 19%	603 70% 19%	632 78% 19%	663 82% 19%	671 84% 19%	640 78% 19%	653 81% 19%	603 70% 19%	646 82% 19%
	30302	19650553	149	68 85% 18%	70 88% 18%	70 88% 18%	69 88% 18%	69 88% 18%	69 87% 18%	69 87% 18%	69 88% 18%	69 88% 18%	69 88% 18%	69 87% 18%
		19970006	1,100	645 100% 10%	467 81% 9%	538 88% 9%	516 84% 9%	559 90% 9%	602 94% 10%	604 96% 10%	574 90% 9%	587 91% 9%	518 85% 9%	569 91% 9%
		19320051	631	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	3,084 81% 1%	3,487 88% 1%	3,387 84% 1%	3,620 90% 1%	3,865 94% 1%	3,866 96% 1%	3,697 90% 1%	3,762 91% 1%	3,399 85% 1%	3,688 91% 1%
	30303	19820113	10	7 100% 4%	3 76% 0%	4 85% 1%	6 84% 1%	6 88% 1%	7 91% 3%	7 94% 3%	7 90% 3%	7 90% 3%	6 85% 1%	7 91% 1%
		New Permits on Otter Creek	25,100	8,488 100% 0%	5,165 78% 0%	6,195 87% 0%	6,100 84% 0%	6,705 88% 0%	7,328 91% 0%	7,351 94% 0%	6,889 90% 0%	7,125 90% 0%	6,193 85% 0%	6,822 91% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 28% 90%	15,976 60% 97%	15,946 57% 96%	15,919 57% 94%	15,892 57% 94%	15,816 57% 93%	15,816 57% 93%	15,857 57% 93%	15,855 57% 93%	15,918 57% 94%	15,883 57% 94%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	82 60% 7%	87 66% 7%	87 63% 7%	90 69% 7%	95 72% 7%	95 72% 7%	90 67% 7%	91 69% 7%	87 63% 7%	91 70% 7%
		19980025	1,338	994 100% 16%	863 100% 16%	916 100% 16%	896 100% 16%	924 100% 16%	941 100% 16%	947 100% 16%	919 100% 16%	937 100% 16%	896 100% 16%	931 100% 16%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	29 70% 52%	35 84% 67%	33 78% 64%	37 85% 73%	39 87% 82%	40 90% 84%	36 82% 72%	38 88% 76%	33 78% 64%	38 88% 75%
		19960036	15	15 100% 97%	8 78% 30%	11 87% 49%	10 84% 42%	11 88% 52%	12 91% 72%	13 94% 72%	11 90% 60%	12 90% 63%	10 85% 42%	12 91% 52%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 52. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI Thresholds								
			Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 94% 28%	4 94% 27%	4 94% 25%	4 94% 25%	4 93% 25%	4 93% 25%	4 94% 25%	4 94% 25%	4 94% 25%	4 94% 25%
		19600053	108	59 94% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%
		19650249	800	471 100% 1%	430 100% 1%	436 100% 1%	448 100% 1%	449 100% 1%	462 100% 1%	462 100% 1%	457 100% 1%	457 100% 1%	448 100% 1%	449 100% 1%
		20030029	100	54 93% 24%	27 54% 6%	35 57% 16%	42 70% 22%	43 70% 22%	49 82% 24%	49 82% 24%	47 79% 22%	47 79% 22%	42 70% 22%	43 70% 22%
		19740306	20	11 94% 28%	5 54% 6%	7 57% 18%	9 70% 25%	9 70% 27%	10 82% 28%	10 82% 28%	10 79% 27%	10 79% 27%	9 70% 25%	9 70% 27%
		19641018	160	125 97% 48%	94 94% 31%	99 94% 34%	107 94% 37%	109 94% 40%	116 96% 42%	116 96% 42%	112 94% 40%	113 94% 42%	107 94% 37%	109 94% 40%
		20060043	1,470	716 90% 19%	376 52% 6%	484 55% 15%	573 66% 19%	583 66% 19%	658 81% 19%	658 81% 19%	631 76% 19%	631 76% 19%	573 66% 19%	583 66% 19%
	30302	19650553	149	68 85% 18%	73 90% 22%	70 90% 18%	70 90% 18%	70 90% 18%	69 87% 18%	69 87% 18%	69 90% 18%	69 90% 18%	70 90% 18%	70 90% 18%
		19970006	1,100	645 100% 10%	252 66% 1%	332 67% 3%	489 81% 7%	495 81% 9%	601 94% 10%	601 94% 10%	571 90% 9%	571 90% 9%	490 82% 7%	496 82% 9%
		19320051	631	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	411 100% 16%	411 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%	412 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	1,816 64% 0%	2,287 67% 1%	3,214 81% 1%	3,265 81% 1%	3,852 94% 1%	3,852 94% 1%	3,692 90% 1%	3,692 90% 1%	3,240 82% 1%	3,278 82% 1%
	30303	19820113	10	7 100% 4%	0 52% 0%	1 61% 0%	5 79% 1%	5 79% 1%	7 91% 3%	7 91% 3%	6 87% 3%	6 90% 3%	5 82% 1%	5 82% 1%
		New Permits on Otter Creek	25,100	8,488 100% 0%	3,168 52% 0%	3,576 61% 0%	5,585 79% 0%	5,625 79% 0%	7,288 91% 0%	7,288 91% 0%	6,794 87% 0%	6,802 90% 0%	5,645 82% 0%	5,751 82% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 95% 90%	15,994 99% 97%	15,986 99% 97%	15,942 98% 96%	15,942 98% 96%	15,816 97% 93%	15,816 97% 93%	15,857 98% 93%	15,857 98% 93%	15,942 98% 96%	15,942 98% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	67 52% 6%	73 52% 7%	85 60% 7%	85 60% 7%	93 70% 7%	93 70% 7%	90 67% 7%	90 67% 7%	85 60% 7%	85 60% 7%
		19980025	1,338	994 100% 16%	722 97% 13%	778 99% 16%	854 99% 16%	867 99% 16%	941 100% 16%	941 100% 16%	909 99% 16%	914 99% 16%	859 99% 16%	871 99% 16%
	30304	20060062	320	317 100% 96%	318 100% 99%	318 100% 99%	318 100% 99%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 97%	317 100% 97%	318 100% 99%	318 100% 99%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	9 46% 0%	18 55% 13%	28 70% 46%	29 70% 51%	39 87% 81%	39 87% 81%	34 79% 67%	35 81% 67%	28 72% 49%	30 72% 52%
		19960036	15	15 100% 97%	2 52% 0%	4 61% 4%	8 79% 28%	9 79% 31%	12 91% 72%	12 91% 72%	11 87% 58%	11 90% 58%	9 82% 28%	9 82% 31%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 52. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
			Inflow Threshold	-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%	4 93% 25%
		19600053	108	59 94% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%	59 93% 25%
		19650249	800	471 100% 1%	446 100% 1%	454 100% 1%	452 100% 1%	456 100% 1%	462 100% 1%	463 100% 1%	458 100% 1%	459 100% 1%	453 100% 1%	457 100% 1%
		20030029	100	54 93% 24%	41 69% 22%	45 78% 22%	44 73% 22%	46 79% 22%	49 84% 24%	50 85% 24%	47 81% 22%	48 84% 22%	44 73% 22%	48 84% 22%
		19740306	20	11 94% 28%	9 69% 27%	9 78% 27%	9 73% 27%	10 79% 27%	10 84% 28%	11 85% 28%	10 81% 27%	10 84% 27%	9 73% 27%	10 84% 27%
		19641018	160	125 97% 48%	108 94% 40%	115 96% 40%	112 94% 42%	115 96% 42%	116 96% 42%	116 96% 42%	113 94% 42%	115 96% 42%	112 94% 42%	115 96% 42%
		20060043	1,470	716 90% 19%	560 67% 19%	608 76% 19%	603 70% 19%	632 78% 19%	663 82% 19%	671 84% 19%	640 78% 19%	653 81% 19%	603 70% 19%	646 82% 19%
	30302	19650553	149	68 85% 18%	70 88% 18%	70 88% 18%	69 88% 18%	69 88% 18%	69 87% 18%	69 87% 18%	69 88% 18%	69 88% 18%	69 88% 18%	69 87% 18%
		19970006	1,100	645 100% 10%	467 81% 9%	538 88% 9%	516 84% 9%	559 90% 9%	602 94% 10%	604 96% 10%	574 90% 9%	587 91% 9%	518 85% 9%	569 91% 9%
		19320051	631	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	3,084 81% 1%	3,487 88% 1%	3,387 84% 1%	3,620 90% 1%	3,865 94% 1%	3,866 96% 1%	3,697 90% 1%	3,762 91% 1%	3,399 85% 1%	3,688 91% 1%
	30303	19820113	10	7 100% 4%	3 76% 0%	4 85% 1%	6 84% 1%	6 88% 1%	7 91% 3%	7 94% 3%	7 90% 3%	7 90% 3%	6 85% 1%	7 91% 1%
		New Permits on Otter Creek	25,100	8,488 100% 0%	5,165 78% 0%	6,195 87% 0%	6,100 84% 0%	6,705 88% 0%	7,328 91% 0%	7,351 94% 0%	6,889 90% 0%	7,125 90% 0%	6,193 85% 0%	6,822 91% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 95% 90%	15,976 99% 97%	15,946 98% 96%	15,919 98% 94%	15,892 98% 94%	15,816 97% 93%	15,816 97% 93%	15,857 98% 93%	15,855 98% 93%	15,918 98% 94%	15,883 98% 94%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	82 60% 7%	87 66% 7%	87 63% 7%	90 69% 7%	95 72% 7%	95 72% 7%	90 67% 7%	91 69% 7%	87 63% 7%	91 70% 7%
		19980025	1,338	994 100% 16%	863 100% 16%	916 100% 16%	896 100% 16%	924 100% 16%	941 100% 16%	947 100% 16%	919 100% 16%	937 100% 16%	896 100% 16%	931 100% 16%
	30304	20060062	320	317 100% 96%	318 100% 99%	317 100% 97%	318 100% 99%	317 100% 97%	317 100% 97%	317 100% 96%	317 100% 97%	317 100% 96%	318 100% 99%	317 100% 97%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	29 70% 52%	35 84% 67%	33 78% 64%	37 85% 73%	39 87% 82%	40 90% 84%	36 82% 72%	38 88% 76%	33 78% 64%	38 88% 75%
		19960036	15	15 100% 97%	8 78% 30%	11 87% 49%	10 84% 42%	11 88% 52%	12 91% 72%	13 94% 72%	11 90% 60%	12 90% 63%	10 85% 42%	12 91% 52%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Impacts From Curtailing 33,500 acre-ft/yr of New Stream Permits

Table 53. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment any month.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI Thresholds								
			Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600		
			PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49		
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%
		19600053	108	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%
		19650249	800	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%
		20030029	100	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%
		19740306	20	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%
		19641018	160	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%
		20060043	1,470	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%
	30302	19650553	149	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%
		19970006	1,100	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%
		19320051	631	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	1,013 45% 0%	1,772 55% 1%	3,006 78% 1%	3,098 78% 1%	3,803 91% 1%	3,816 91% 1%	3,598 87% 1%	3,618 87% 1%	3,032 79% 1%	3,119 79% 1%
	30303	19820113	10	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%
		New Permits on Otter Creek	25,100	8,488 100% 0%	1,580 52% 0%	2,667 61% 0%	5,181 79% 0%	5,364 79% 0%	7,248 91% 0%	7,288 91% 0%	6,639 87% 0%	6,706 90% 0%	5,269 82% 0%	5,473 82% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 28% 90%	15,983 63% 97%	15,976 61% 97%	15,923 56% 96%	15,923 56% 96%	15,805 53% 93%	15,805 53% 93%	15,840 53% 93%	15,840 53% 93%	15,923 56% 96%	15,923 56% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	116 82% 12%	109 82% 7%	105 79% 7%	103 79% 7%	100 78% 7%	100 78% 7%	100 78% 7%	100 78% 7%	105 79% 7%	103 79% 7%
		19980025	1,338	994 100% 16%	1,006 100% 19%	999 100% 18%	999 100% 18%	999 100% 18%	994 100% 16%	994 100% 16%	994 100% 16%	994 100% 16%	999 100% 18%	999 100% 18%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 53. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
		Inflow Threshold		-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
		PDSI Threshold		-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
		Reservoir Storage Threshold		-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%
		19600053	108	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%
		19650249	800	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%
		20030029	100	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%
		19740306	20	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%
		19641018	160	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%
		20060043	1,470	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%
	30302	19650553	149	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%
		19970006	1,100	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%
		19320051	631	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	2,868 75% 1%	3,313 84% 1%	3,302 81% 1%	3,516 87% 1%	3,830 91% 1%	3,830 93% 1%	3,656 87% 1%	3,721 88% 1%	3,327 84% 1%	3,583 90% 1%
	30303	19820113	10	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%
		New Permits on Otter Creek	25,100	8,488 100% 0%	4,942 78% 0%	6,048 87% 0%	6,020 84% 0%	6,579 88% 0%	7,328 91% 0%	7,351 94% 0%	6,889 90% 0%	7,125 90% 0%	6,113 85% 0%	6,696 91% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 28% 90%	15,965 56% 97%	15,936 53% 96%	15,897 53% 94%	15,873 53% 94%	15,805 53% 93%	15,805 53% 93%	15,840 53% 93%	15,839 53% 93%	15,896 53% 94%	15,866 53% 94%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	107 81% 7%	103 81% 7%	103 79% 7%	103 79% 7%	100 78% 7%	100 78% 7%	100 78% 7%	100 78% 7%	103 79% 7%	102 79% 7%
		19980025	1,338	994 100% 16%	999 100% 18%	998 100% 18%	999 100% 18%	999 100% 18%	994 100% 16%	994 100% 16%	994 100% 16%	994 100% 16%	999 100% 18%	995 100% 16%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 54. Average annual permit availability, frequency that a portion of permit water is available, and frequency that the full permitted volume is available of existing regular and new stream water permits in the Tom Steed Reservoir hydrologic basin under a range of ground- and stream-water development scenarios when initiating curtailment in September only.

				Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone	Reservoir Storage Combined with Inflow-PDSI Thresholds								
			Inflow Threshold	-	-	≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
			PDSI Threshold	-	-	≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
			Reservoir Storage Threshold	-	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%	< 100%	≤ 90%
Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%
		19600053	108	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%
		19650249	800	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%
		20030029	100	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%
		19740306	20	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%
		19641018	160	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%
		20060043	1,470	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%
	30302	19650553	149	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%
		19970006	1,100	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%
		19320051	631	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	1,013 45% 0%	1,772 55% 1%	3,006 78% 1%	3,098 78% 1%	3,803 91% 1%	3,816 91% 1%	3,598 87% 1%	3,618 87% 1%	3,032 79% 1%	3,119 79% 1%
	30303	19820113	10	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%
		New Permits on Otter Creek	25,100	8,488 100% 0%	1,580 52% 0%	2,667 61% 0%	5,181 79% 0%	5,364 79% 0%	7,248 91% 0%	7,288 91% 0%	6,639 87% 0%	6,706 90% 0%	5,269 82% 0%	5,473 82% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 95% 90%	15,983 99% 97%	15,976 99% 97%	15,923 98% 96%	15,923 98% 96%	15,805 97% 93%	15,805 97% 93%	15,840 98% 93%	15,840 98% 93%	15,923 98% 96%	15,923 98% 96%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	116 82% 12%	109 82% 7%	105 79% 7%	103 79% 7%	100 78% 7%	100 78% 7%	100 78% 7%	100 78% 7%	105 79% 7%	103 79% 7%
		19980025	1,338	994 100% 16%	1,006 100% 19%	999 100% 18%	999 100% 18%	999 100% 18%	994 100% 16%	994 100% 16%	994 100% 16%	994 100% 16%	999 100% 18%	999 100% 18%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%

Table 54. Continued…

Location	HUC	Permit Number	Permitted Volume (acre-ft/yr)	Status Quo (No Curtailment)	Curtailing Existing SW Permits									
					Reservoir Storage Alone		Reservoir Storage Combined with Inflow-PDSI Thresholds							
		Inflow Threshold		-	-		≤ 58,200		≤ 72,200		≤ 39,700		≤ 28,600	
		PDSI Threshold		-	-		≤ -0.12		≤ -1.66		≤ -0.78		≤ -0.49	
		Reservoir Storage Threshold		-	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%	≤ 70%	≤ 50%
				Average Annual Availability (acre-ft/yr) Percent of Years with a Portion of Permit Water Available Percent of Years with Full Permit Water Available										
Upstream of Tom Steed Reservoir	30301	19550353	8	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%	4 90% 25%
		19600053	108	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%	59 94% 25%
		19650249	800	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%	471 100% 1%
		20030029	100	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%	54 93% 24%
		19740306	20	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%	11 94% 28%
		19641018	160	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%	125 97% 48%
		20060043	1,470	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%	716 90% 19%
	30302	19650553	149	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%	68 85% 18%
		19970006	1,100	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%	645 100% 10%
		19320051	631	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%	411 100% 16%
		New Permits on Elk Creek	8,400	4,096 100% 1%	2,868 75% 1%	3,313 84% 1%	3,302 81% 1%	3,516 87% 1%	3,830 91% 1%	3,830 93% 1%	3,656 87% 1%	3,721 88% 1%	3,327 84% 1%	3,583 90% 1%
	30303	19820113	10	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%	7 100% 4%
		New Permits on Otter Creek	25,100	8,488 100% 0%	4,942 78% 0%	6,048 87% 0%	6,020 84% 0%	6,579 88% 0%	7,328 91% 0%	7,351 94% 0%	6,889 90% 0%	7,125 90% 0%	6,113 85% 0%	6,696 91% 0%
Tom Steed Reservoir		19670671	16,100[a]	15,579 95% 90%	15,965 99% 97%	15,936 98% 96%	15,897 98% 94%	15,873 98% 94%	15,805 97% 93%	15,805 97% 93%	15,840 98% 93%	15,839 98% 93%	15,896 98% 94%	15,866 98% 94%
Downstream of Bretch Diversion Dam	30302	19970010	297	97 75% 7%	107 81% 7%	103 81% 7%	103 79% 7%	103 79% 7%	100 78% 7%	100 78% 7%	100 78% 7%	100 78% 7%	103 79% 7%	102 79% 7%
		19980025	1,338	994 100% 16%	999 100% 18%	998 100% 18%	999 100% 18%	999 100% 18%	994 100% 16%	994 100% 16%	994 100% 16%	994 100% 16%	999 100% 18%	995 100% 16%
	30304	20060062	320	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%	317 100% 96%
Downstream of Tom Steed Reservoir	30303	20090008	46	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%	46 100% 100%
		19960036	15	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%	15 100% 97%
		19520414	77	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%	77 100% 99%