

# Appendix P

## Additional CRSS Modeling Output

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3 This Appendix contains additional supporting CRSS modeling output. Figures in this appendix  
4 consists of hydrologic information that is referenced in the Water Quality, Air Quality,  
5 Biological Resources, Cultural Resources, Electrical Power Resources, and Water Delivery  
6 Sections.

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## Water Quality

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Figure P-1  
 Colorado River Salinity Below Hoover Dam  
 Comparison of Action Alternatives to No Action Alternatives  
 Flow-weighted Annual Average Salinity Concentrations

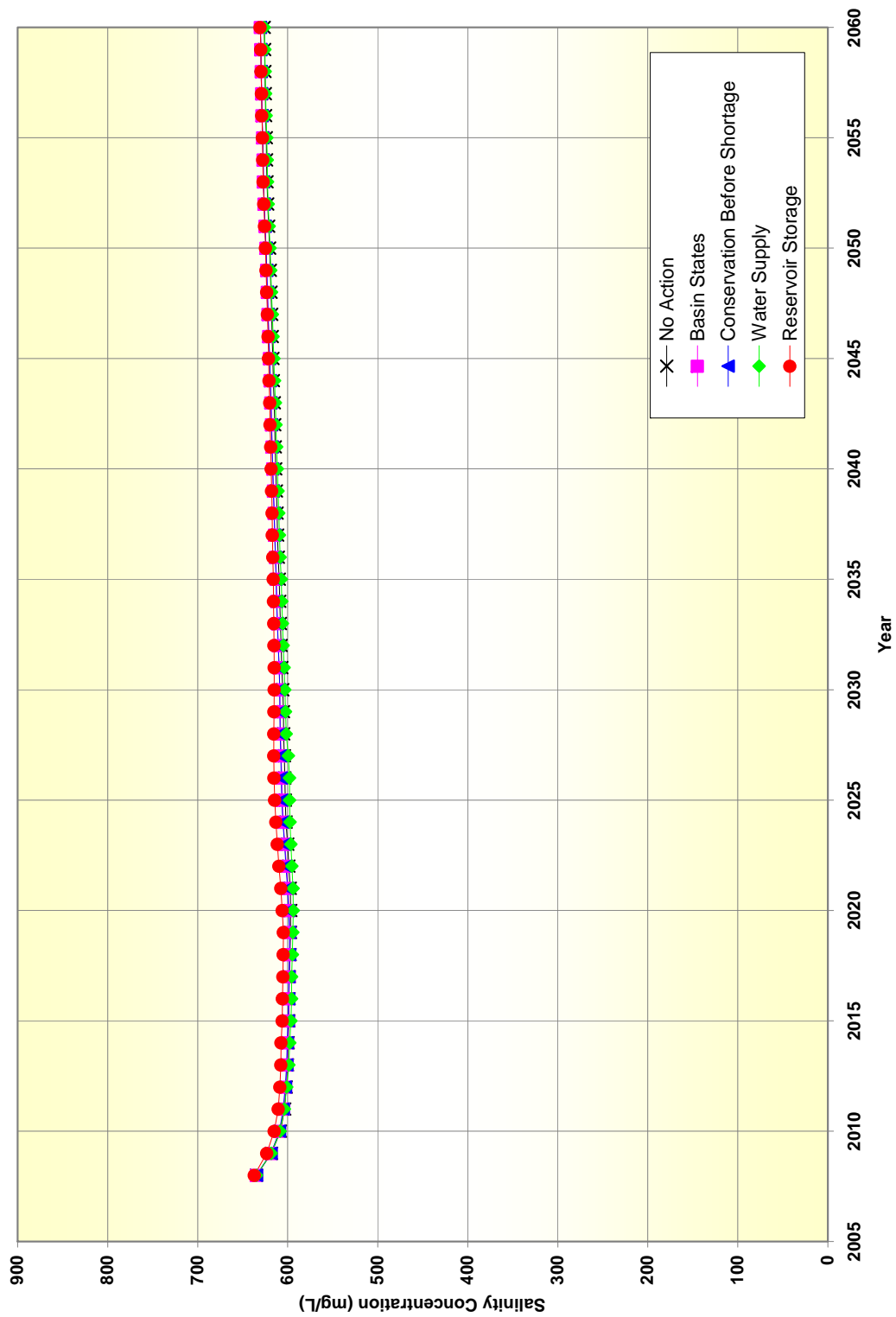


Figure P-2  
Colorado River Salinity Below Parker Dam  
Comparison of Action Alternatives to No Action Alternative  
Flow-weighted Annual Average Salinity Concentrations

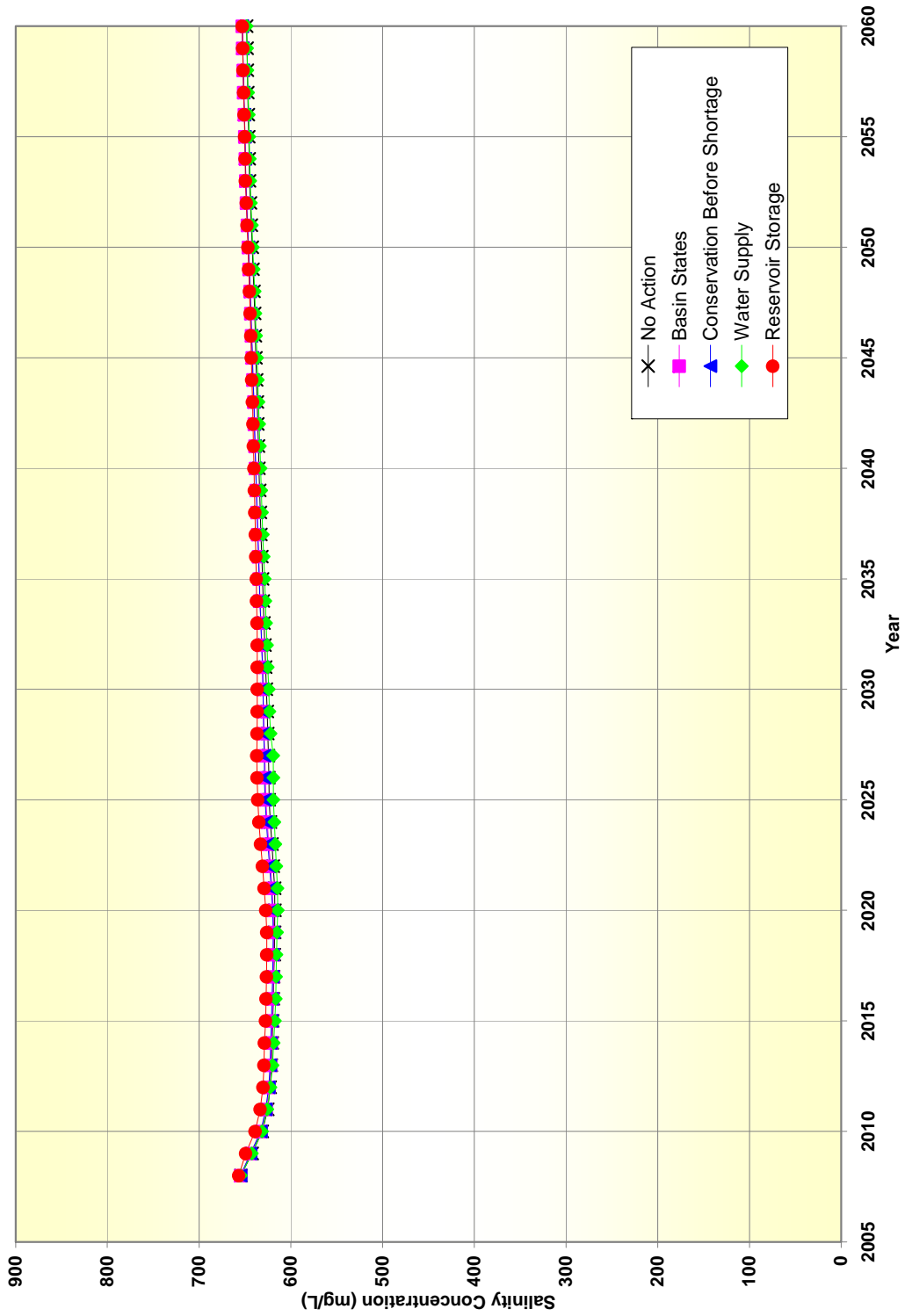


Figure P-3  
Colorado River Salinity Above Imperial Dam  
Comparison of Action Alternatives to No Action Alternative  
Flow-weighted Annual Average Salinity Concentrations

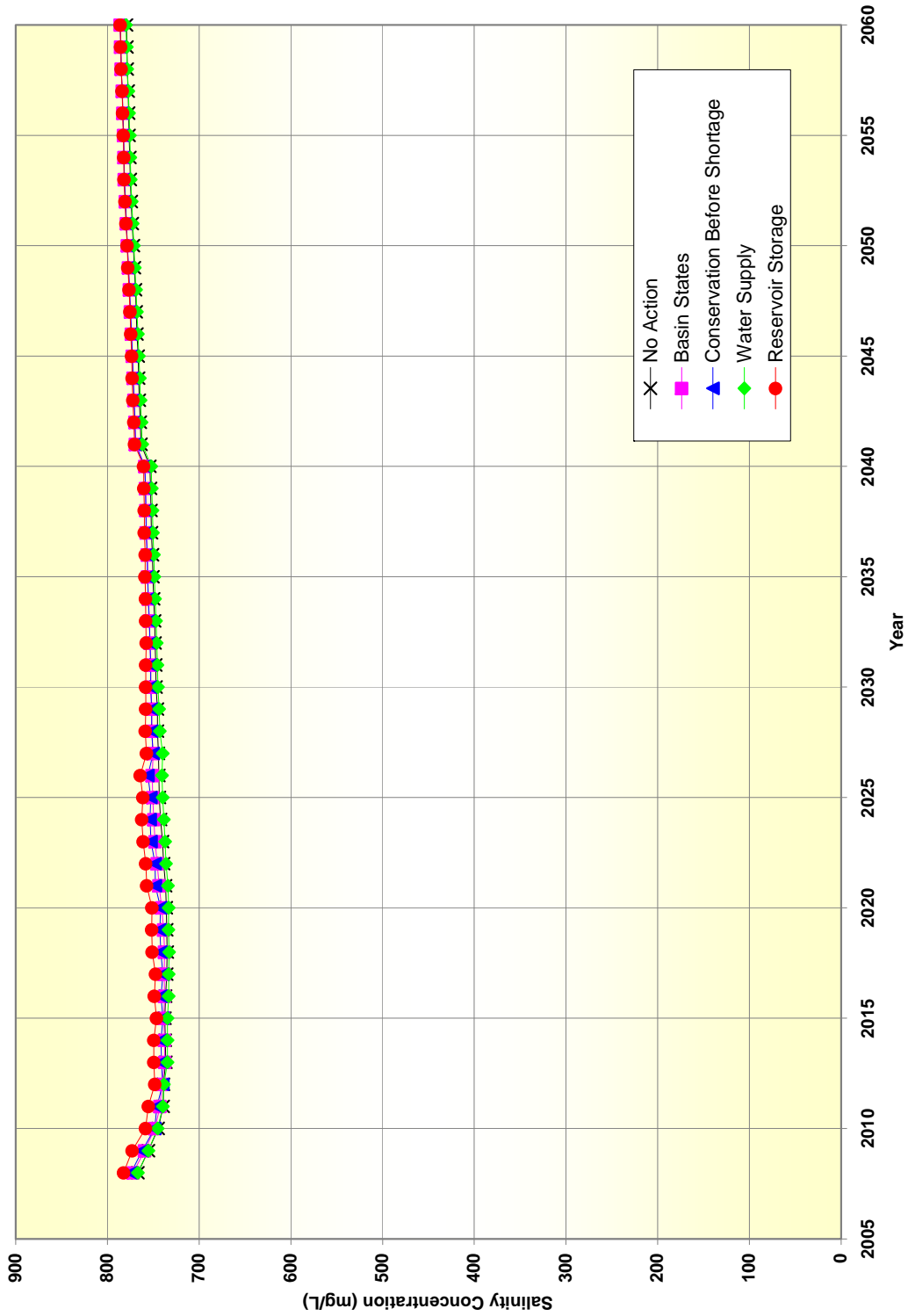


Figure P-4  
 Lake Powell End-of-October Elevations  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

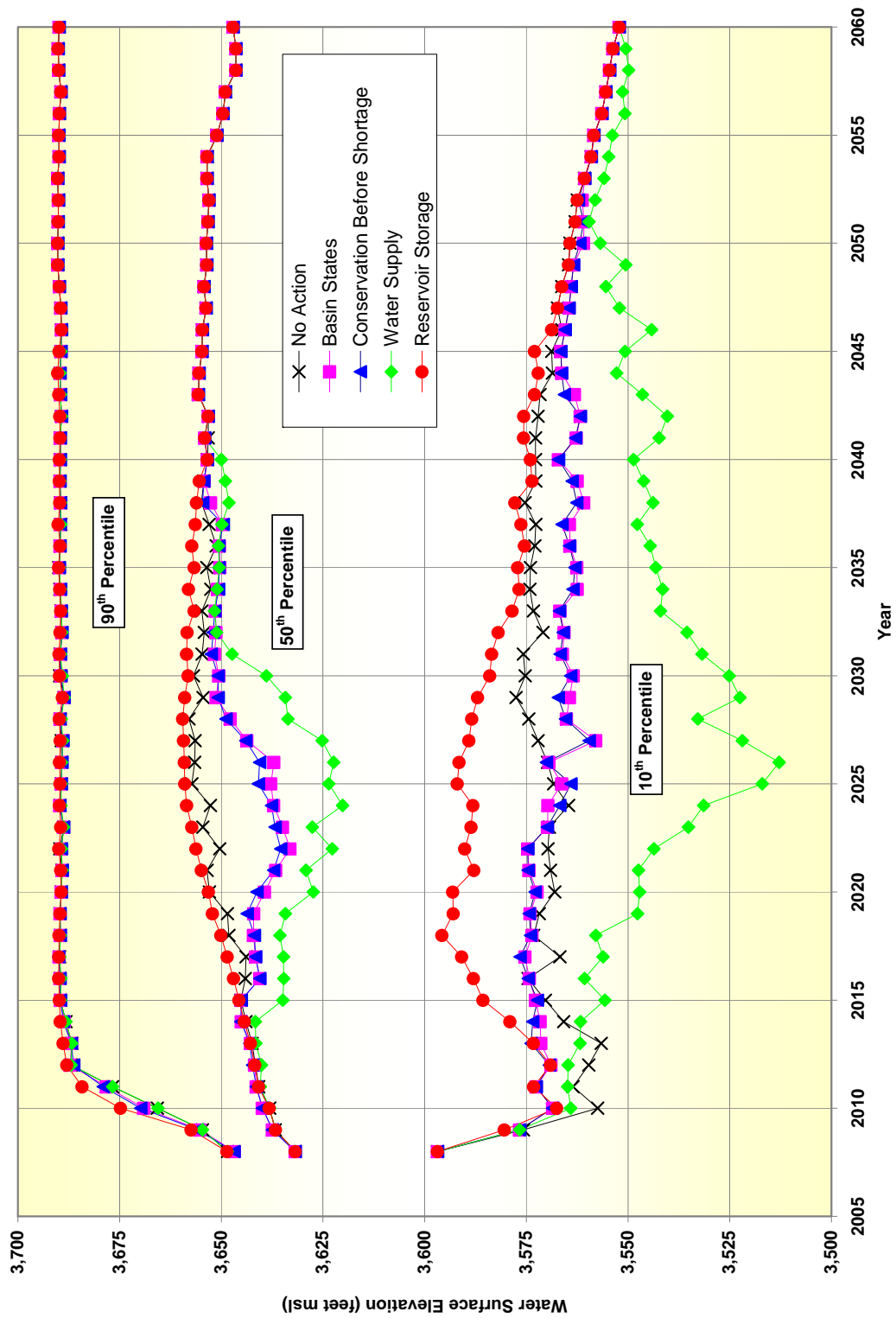


Figure P-5  
 Lake Mead End-of-October Elevations  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

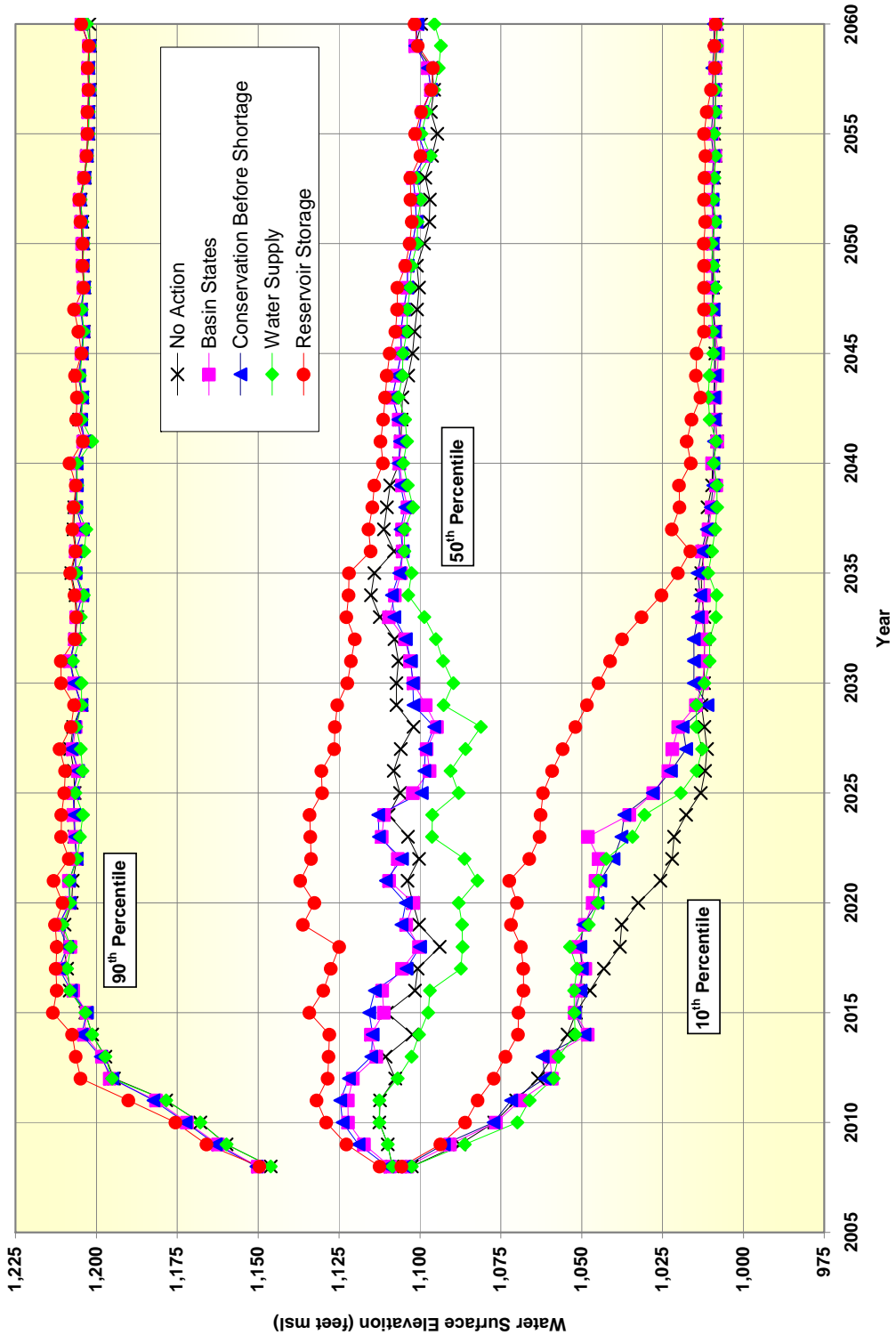
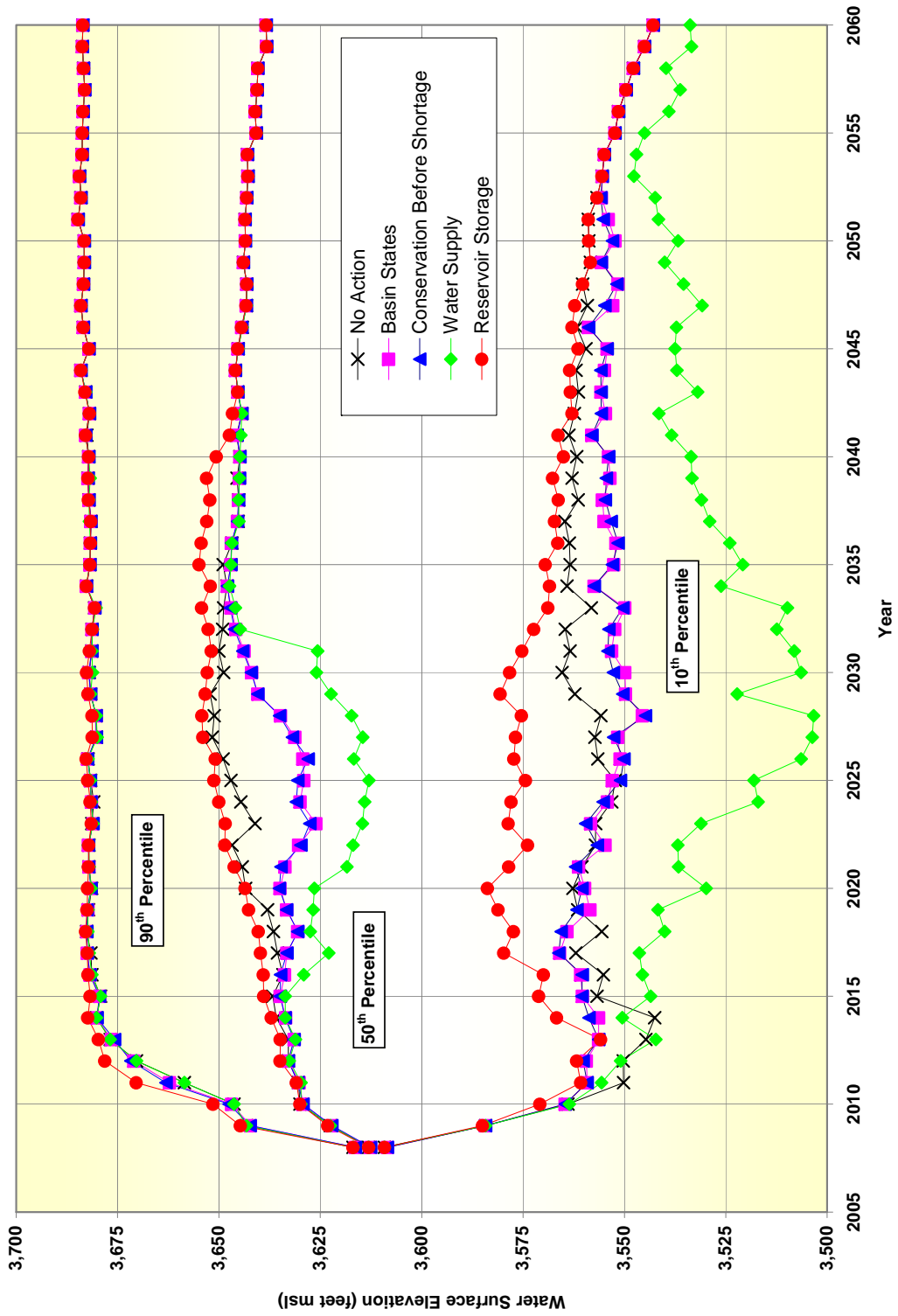


Figure P-6  
Lake Powell End-of-March Elevations  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values



## Air Quality

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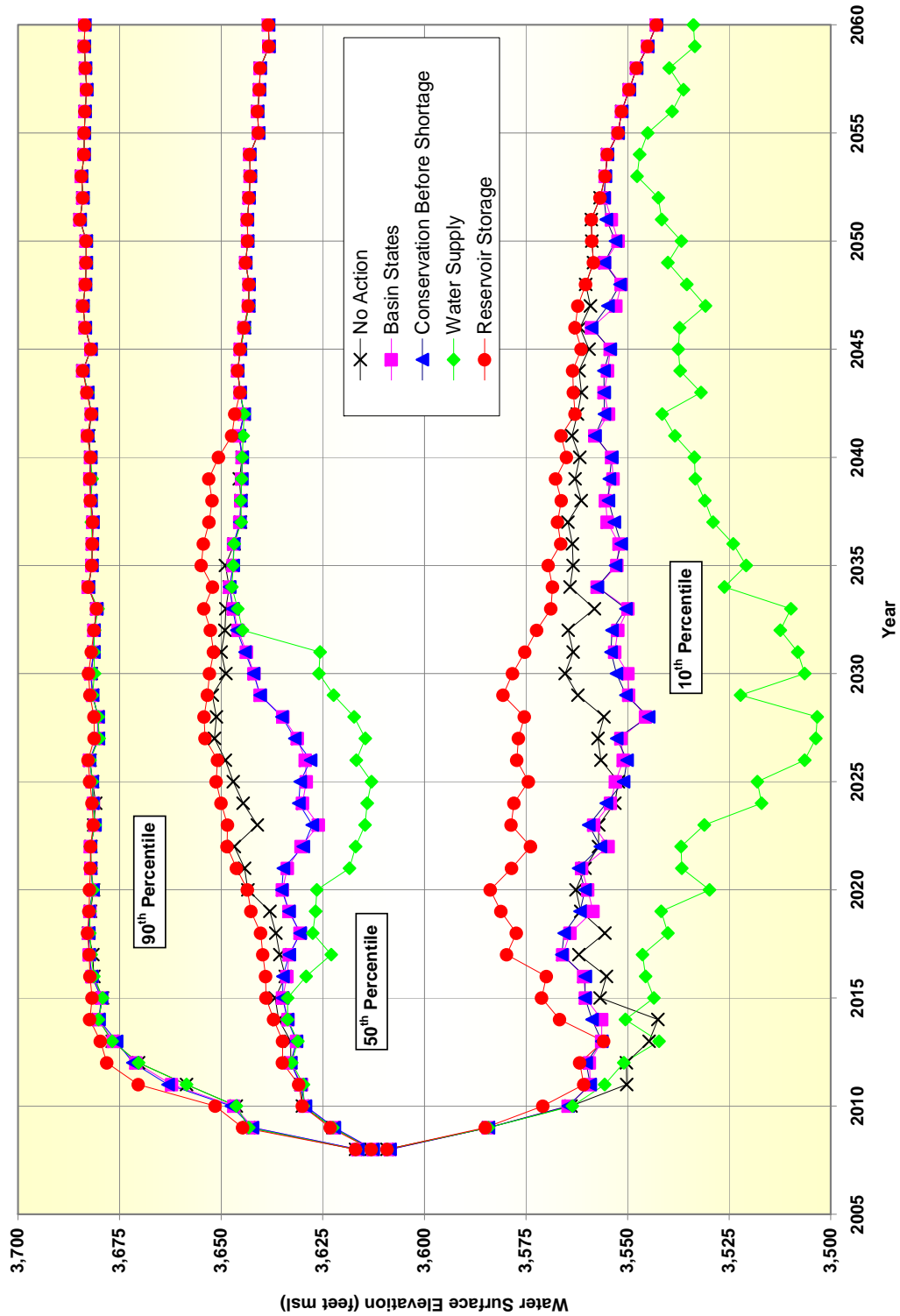
2 This section contains additional CRSS modeling output referenced in the Air Quality Section.

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Figure P-7  
 Lake Powell End-of-March Elevations  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values



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## Biological and Cultural Resources

2 This section contains additional CRSS modeling output referenced in the Biological and Cultural  
3 Resources Section.

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Figure P-8  
 Lake Powell End-of-July Elevations  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

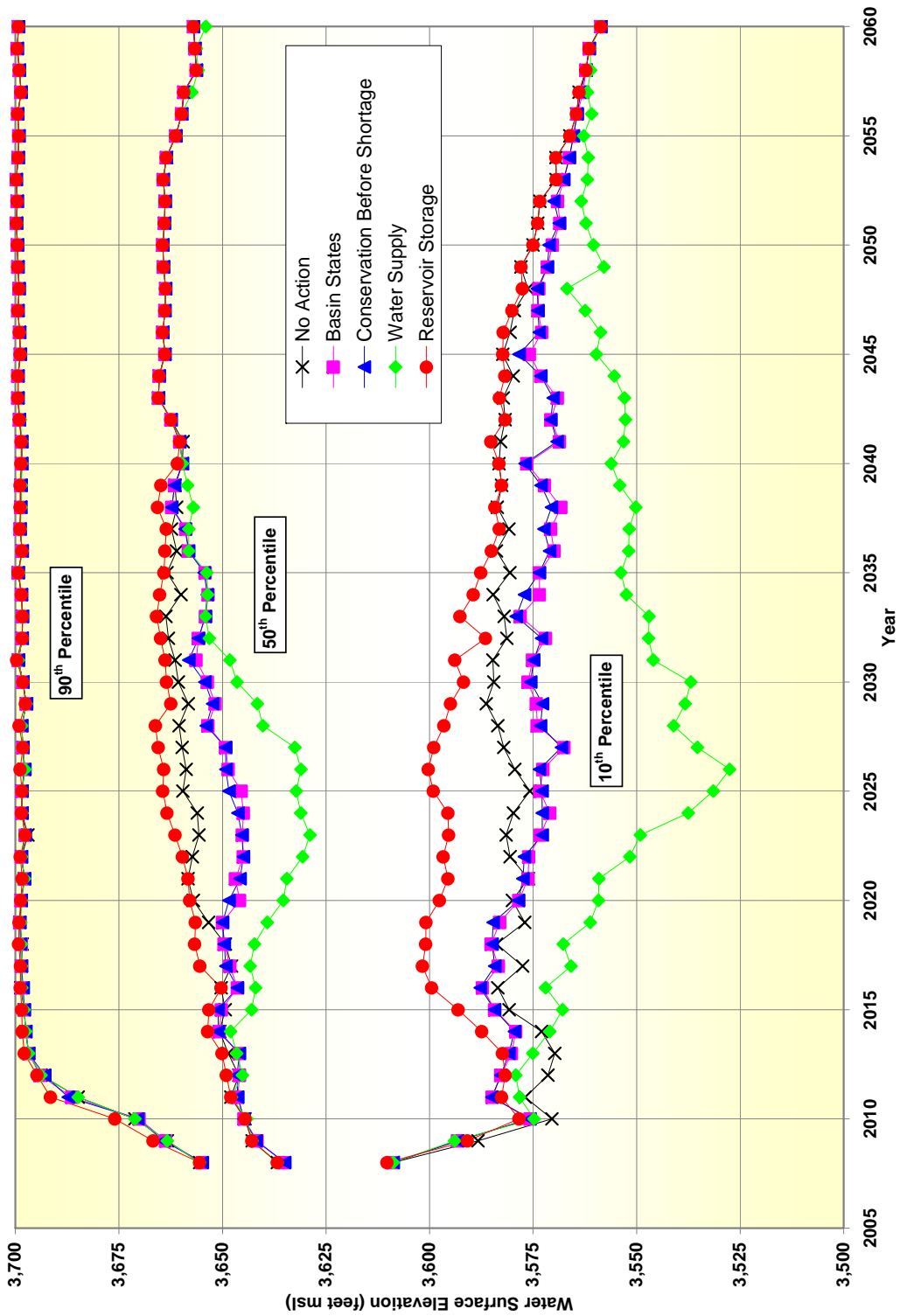


Figure P-9  
Lake Powell End-of-September Elevations  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

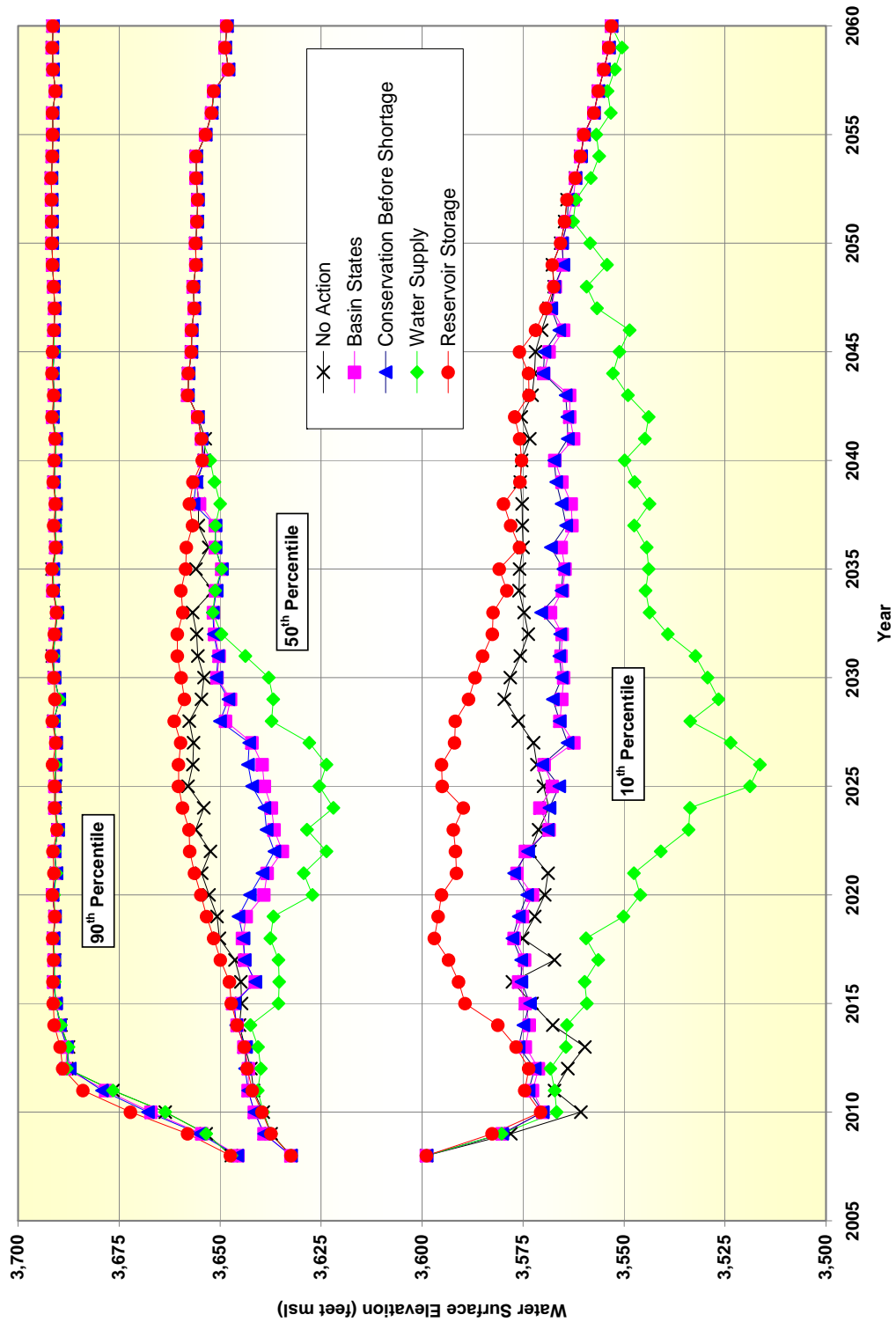


Figure P-10  
Lake Mead End-of-March Elevations  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

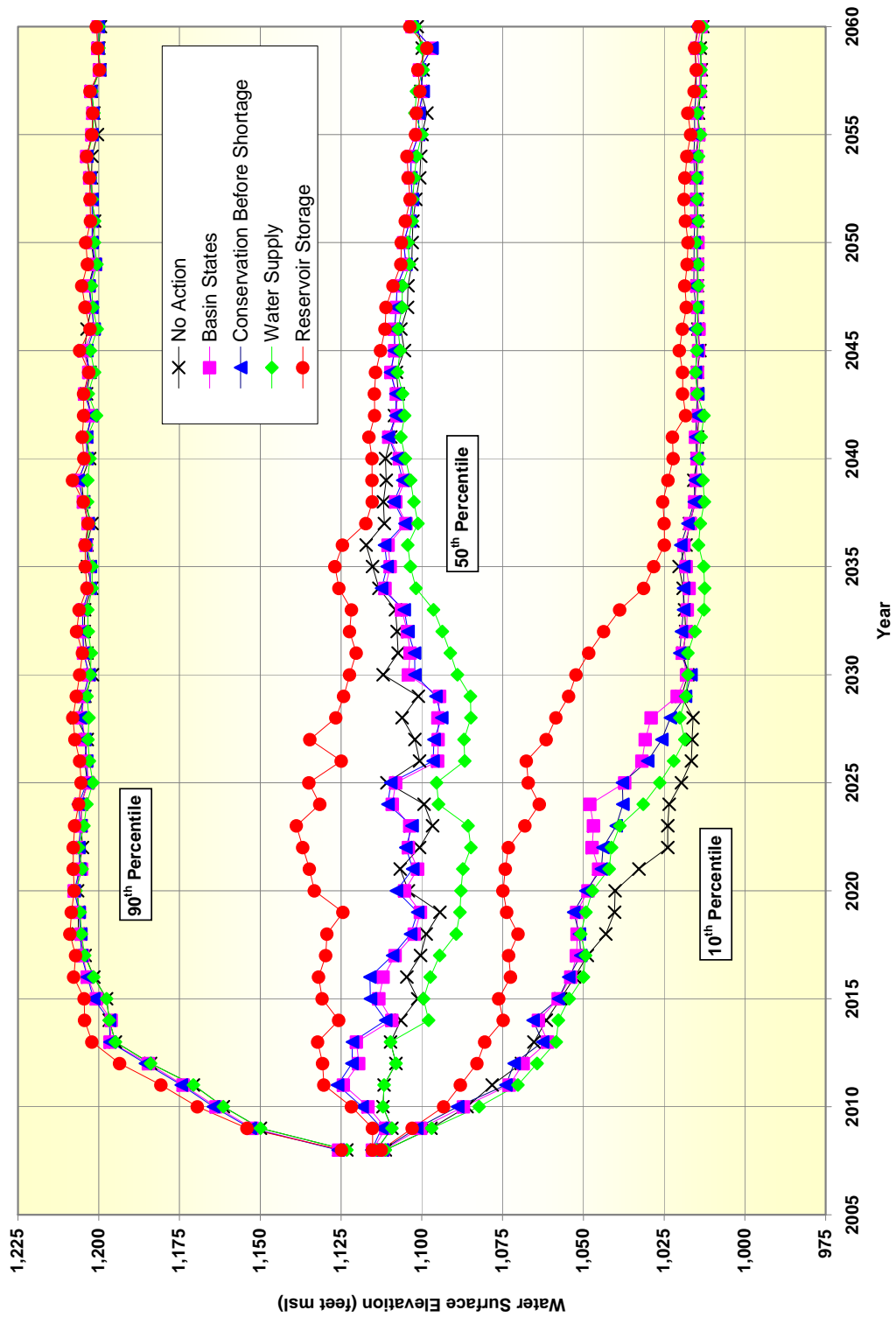


Figure P-11  
Lake Mead End-of-July Elevations  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

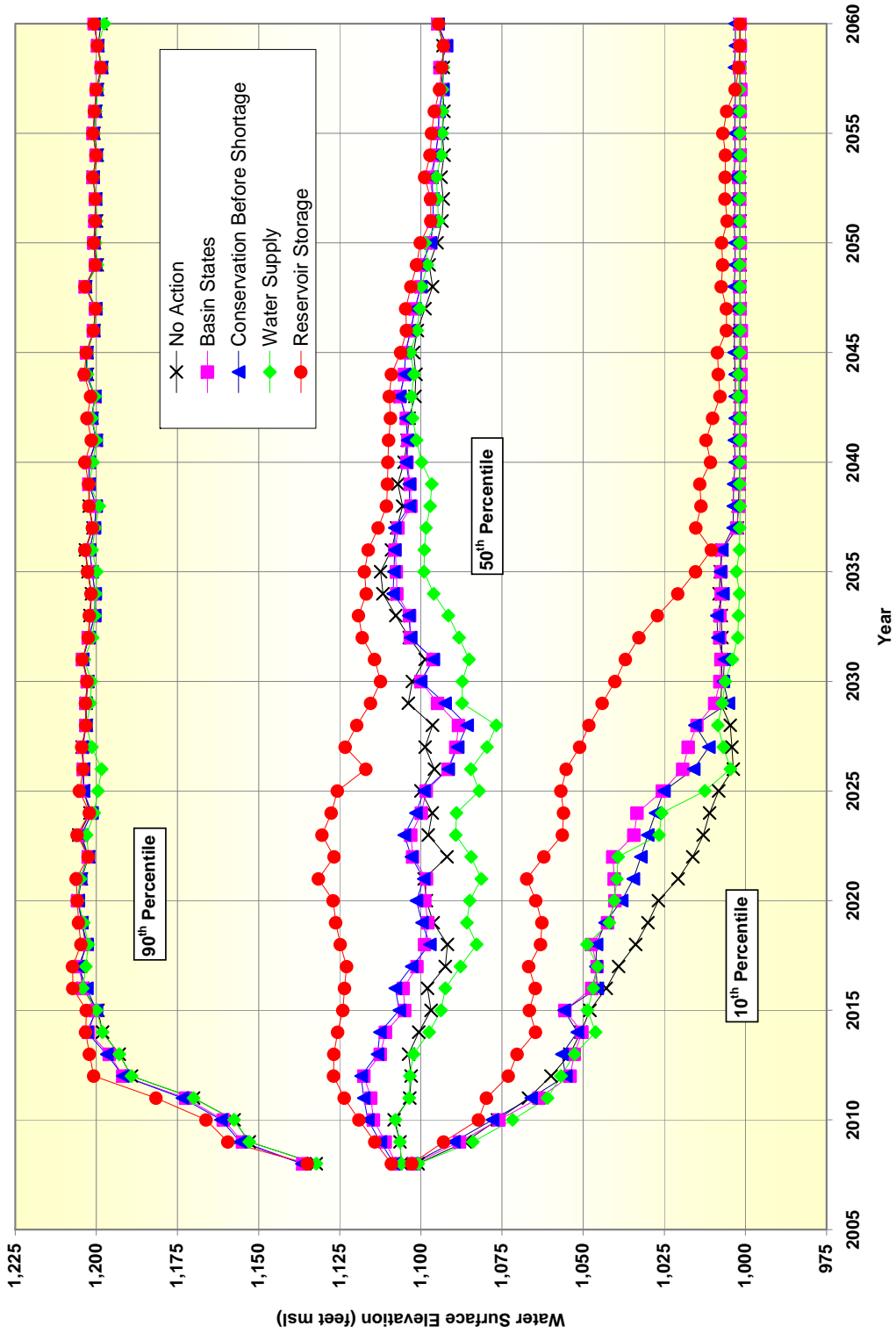




Figure P-12  
Lake Mead End-of-September Elevations  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

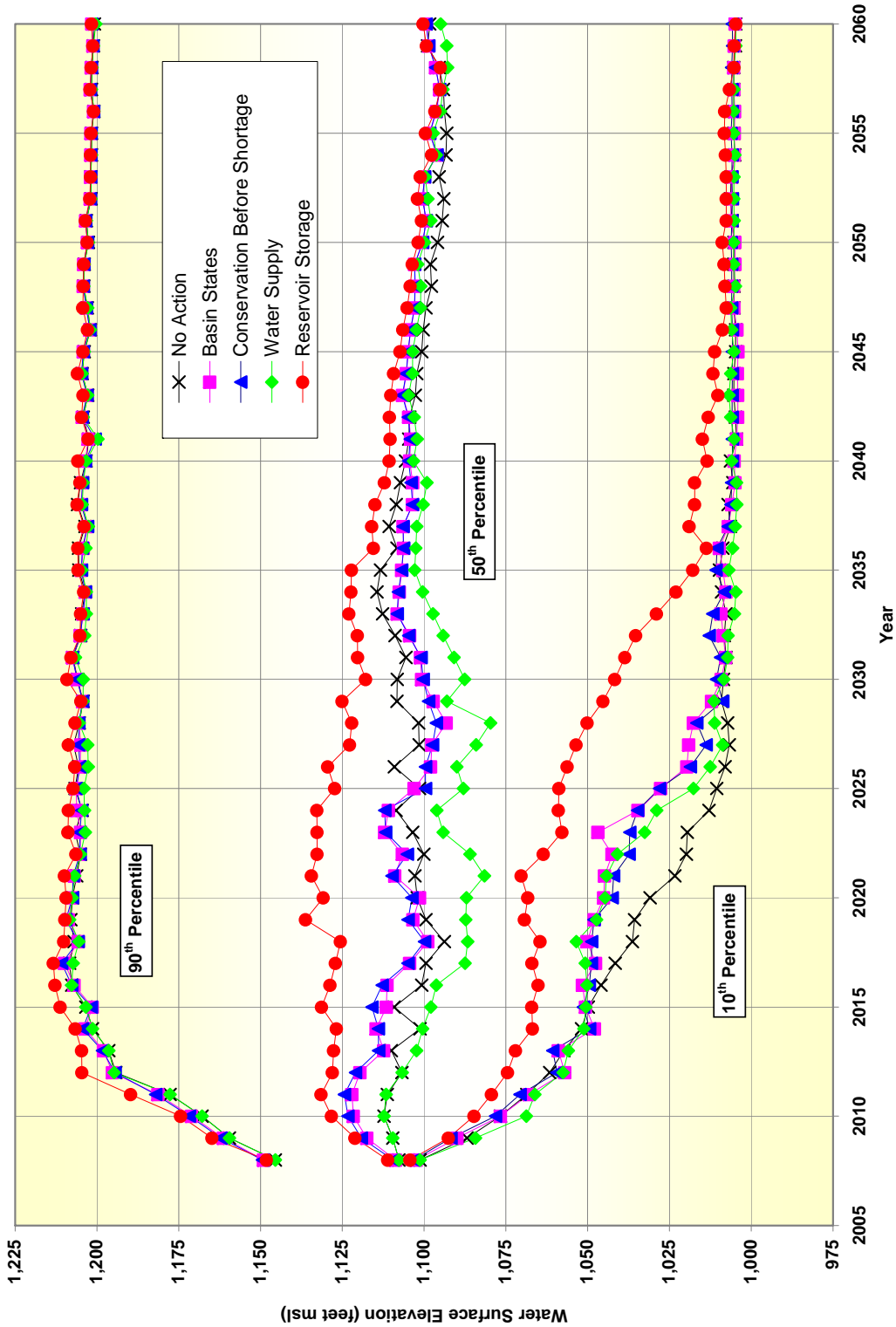


Figure P-13  
Glen Canyon Dam January Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

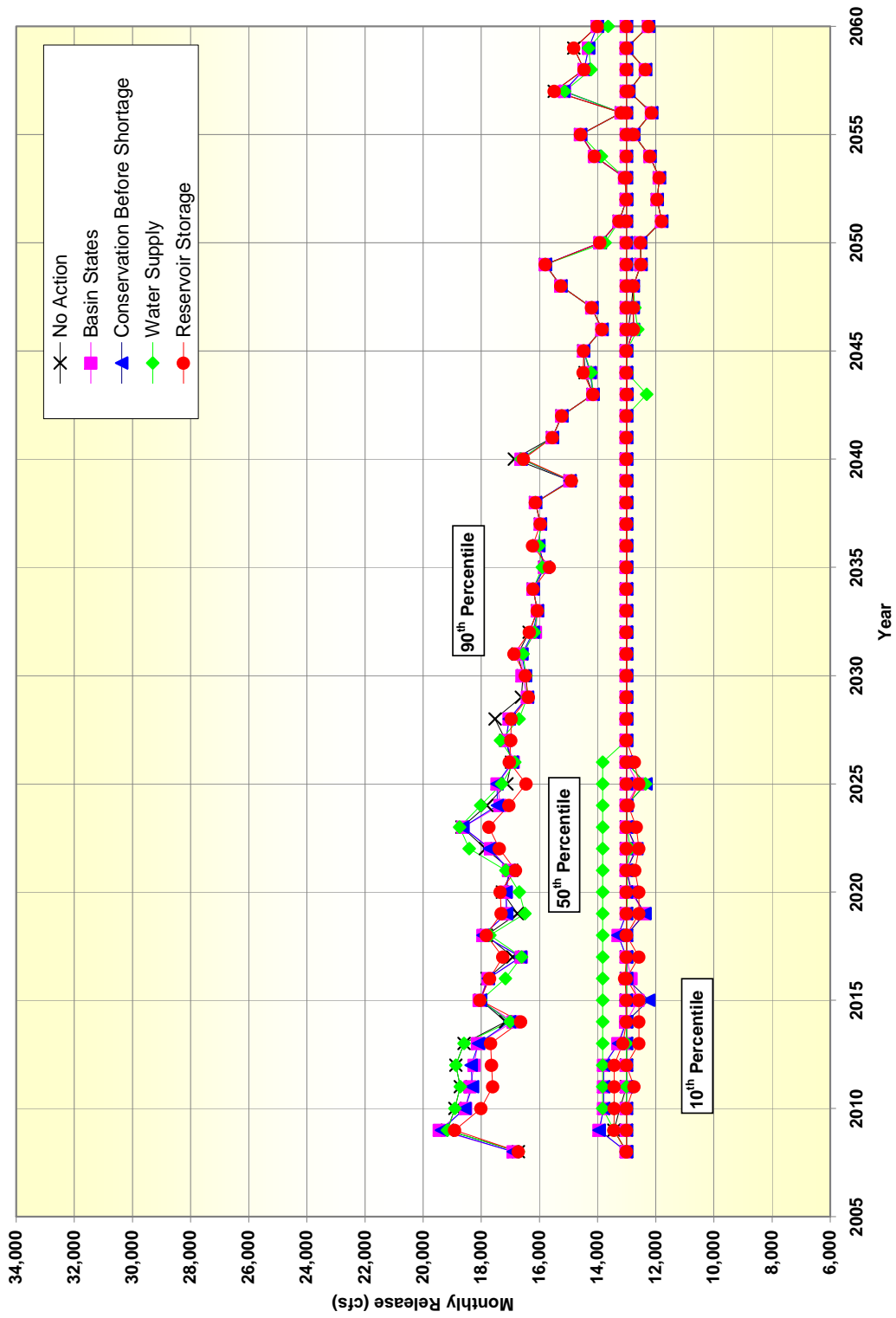


Figure P-14  
 Glen Canyon Dam February Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

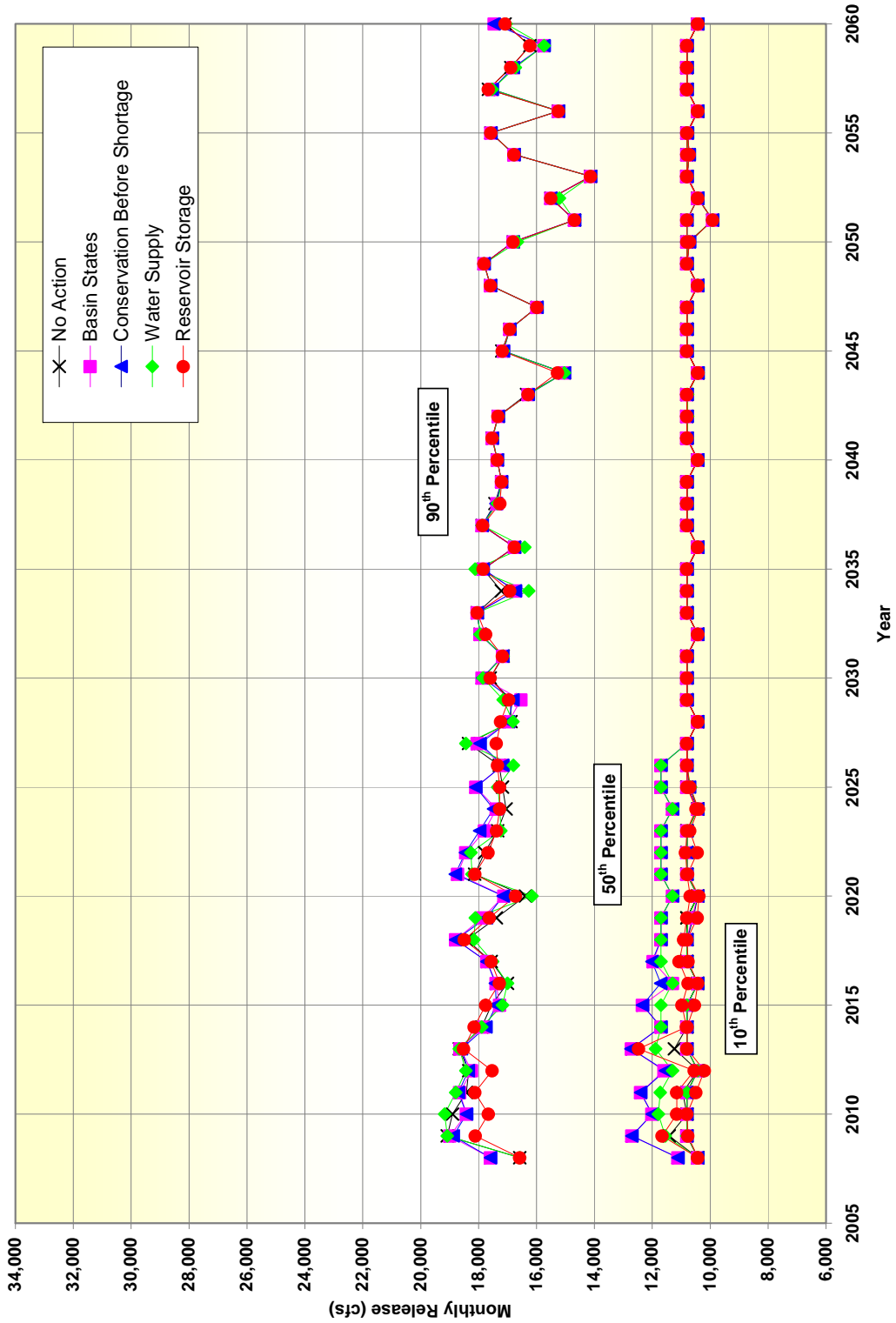


Figure P-15  
Glen Canyon Dam March Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

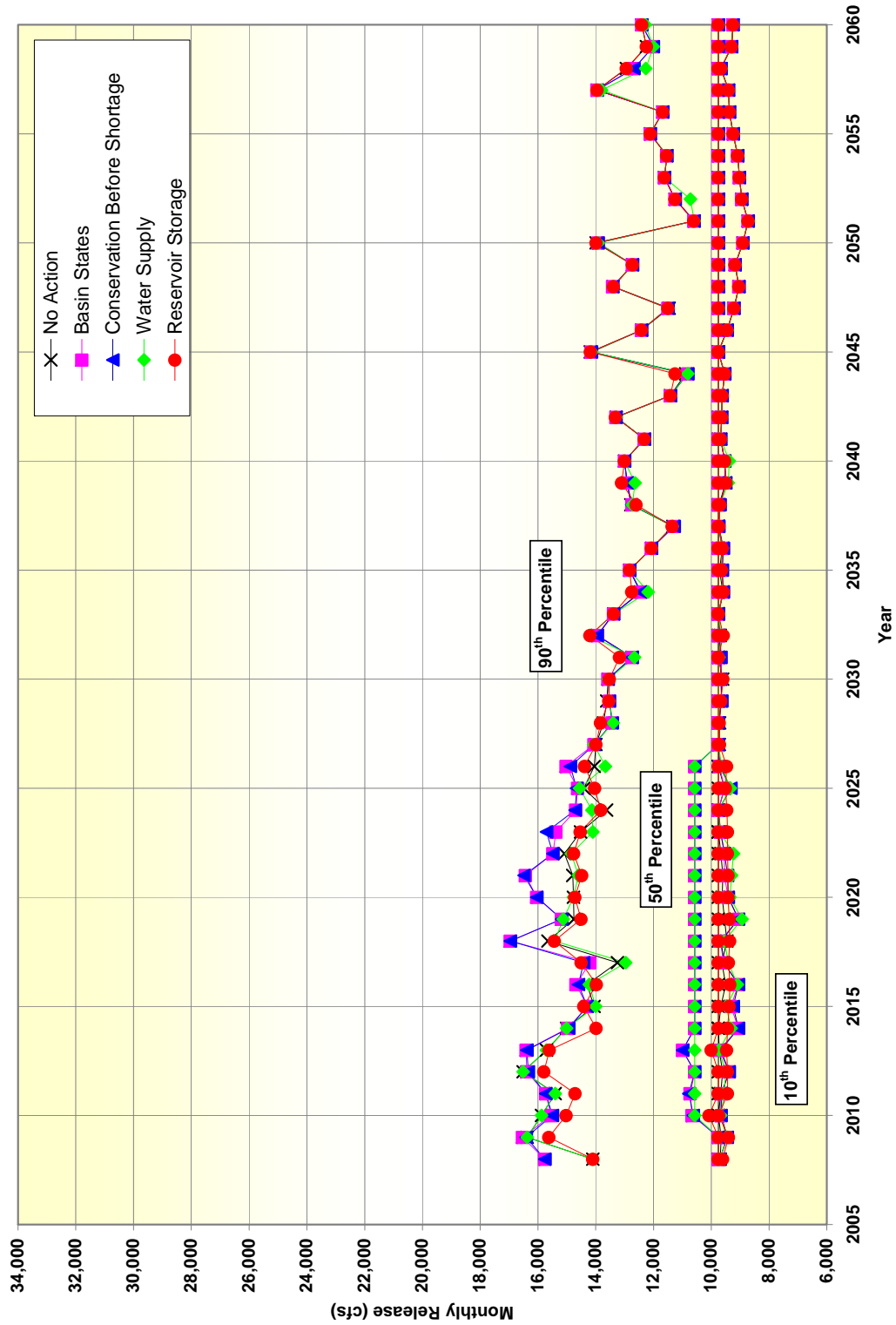


Figure P-16  
 Glen Canyon Dam April Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

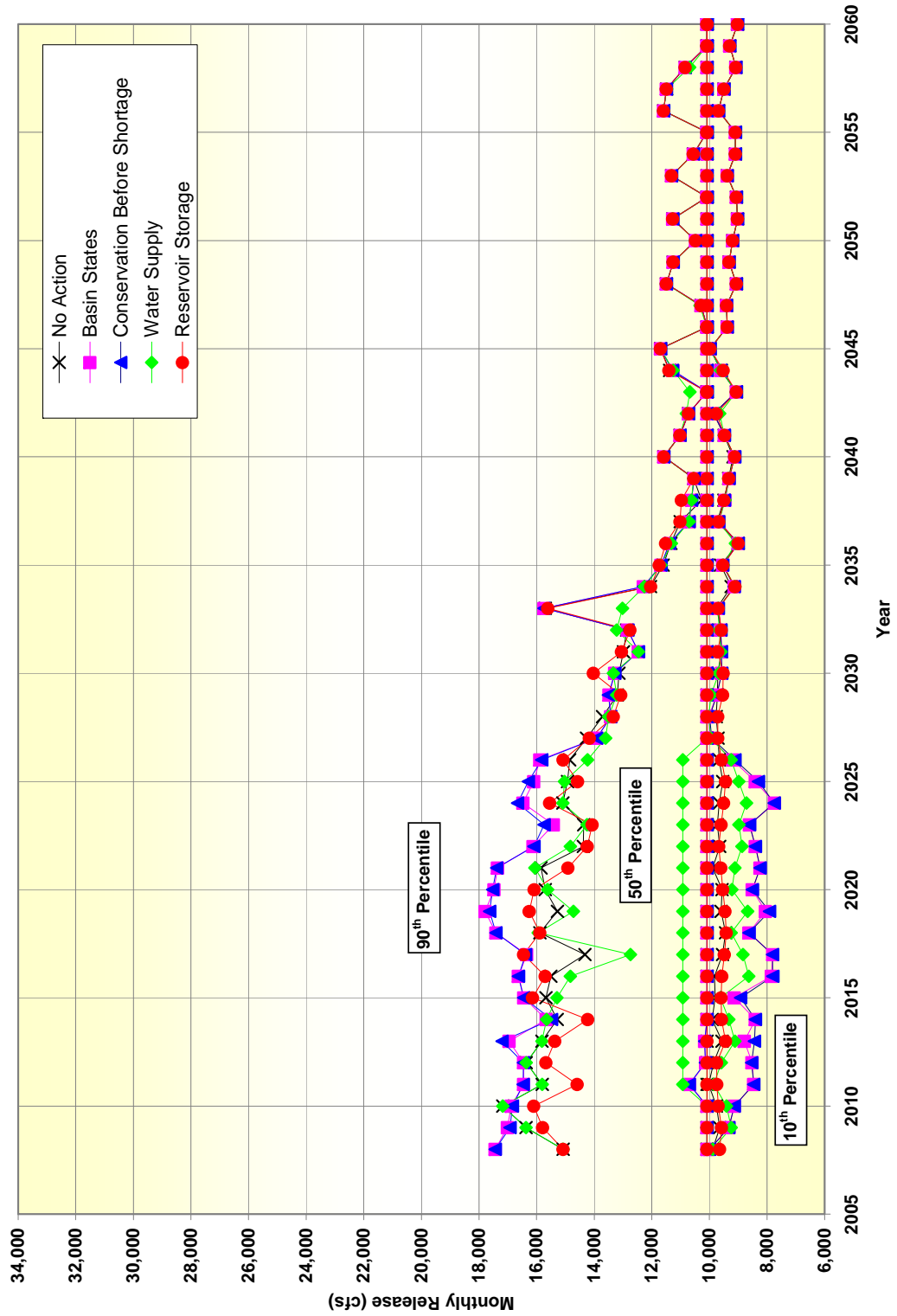


Figure P-17  
Glen Canyon Dam May Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

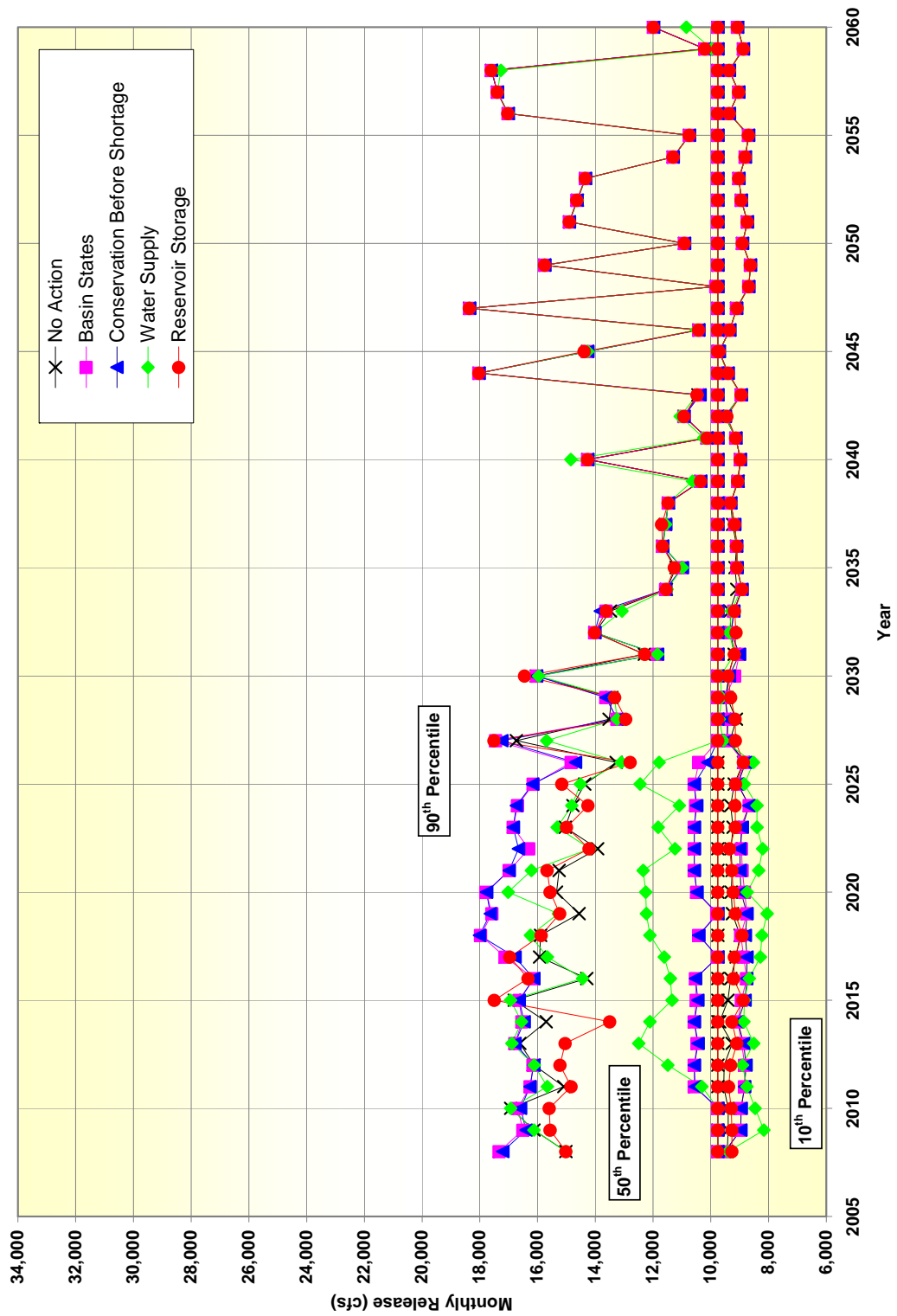


Figure P-18  
 Glen Canyon Dam June Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

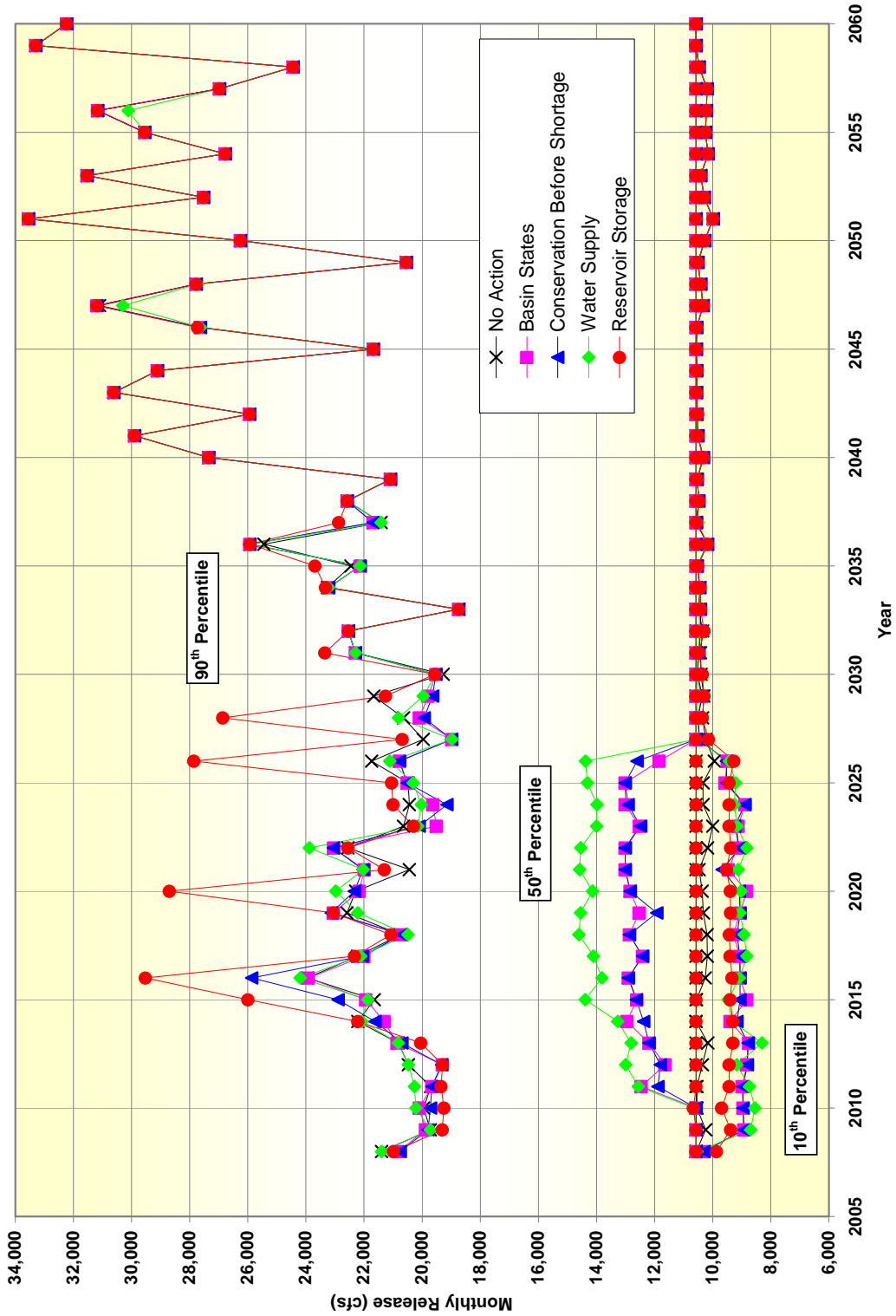


Figure P-19  
 Glen Canyon Dam July Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

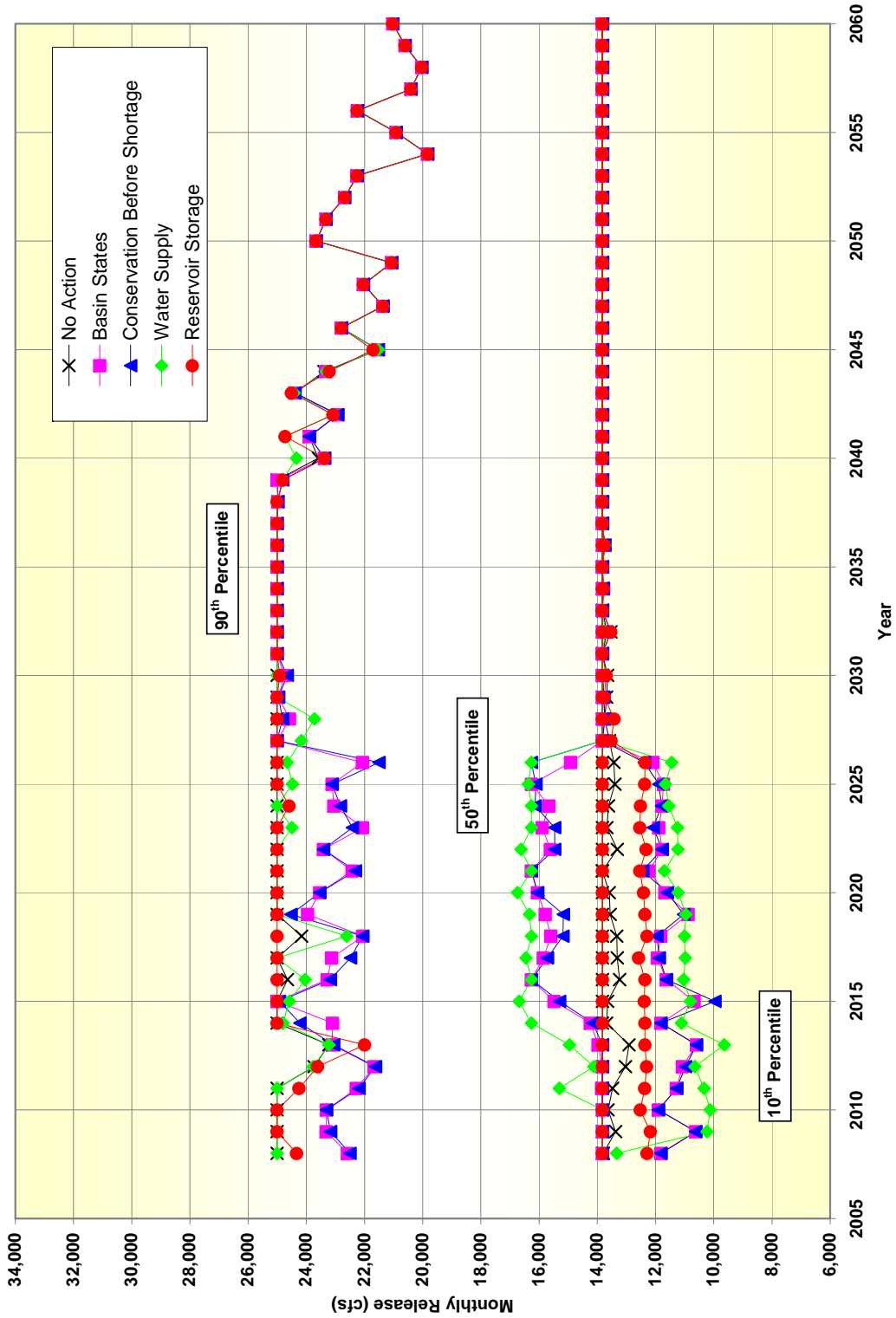




Figure P-20  
 Glen Canyon Dam August Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

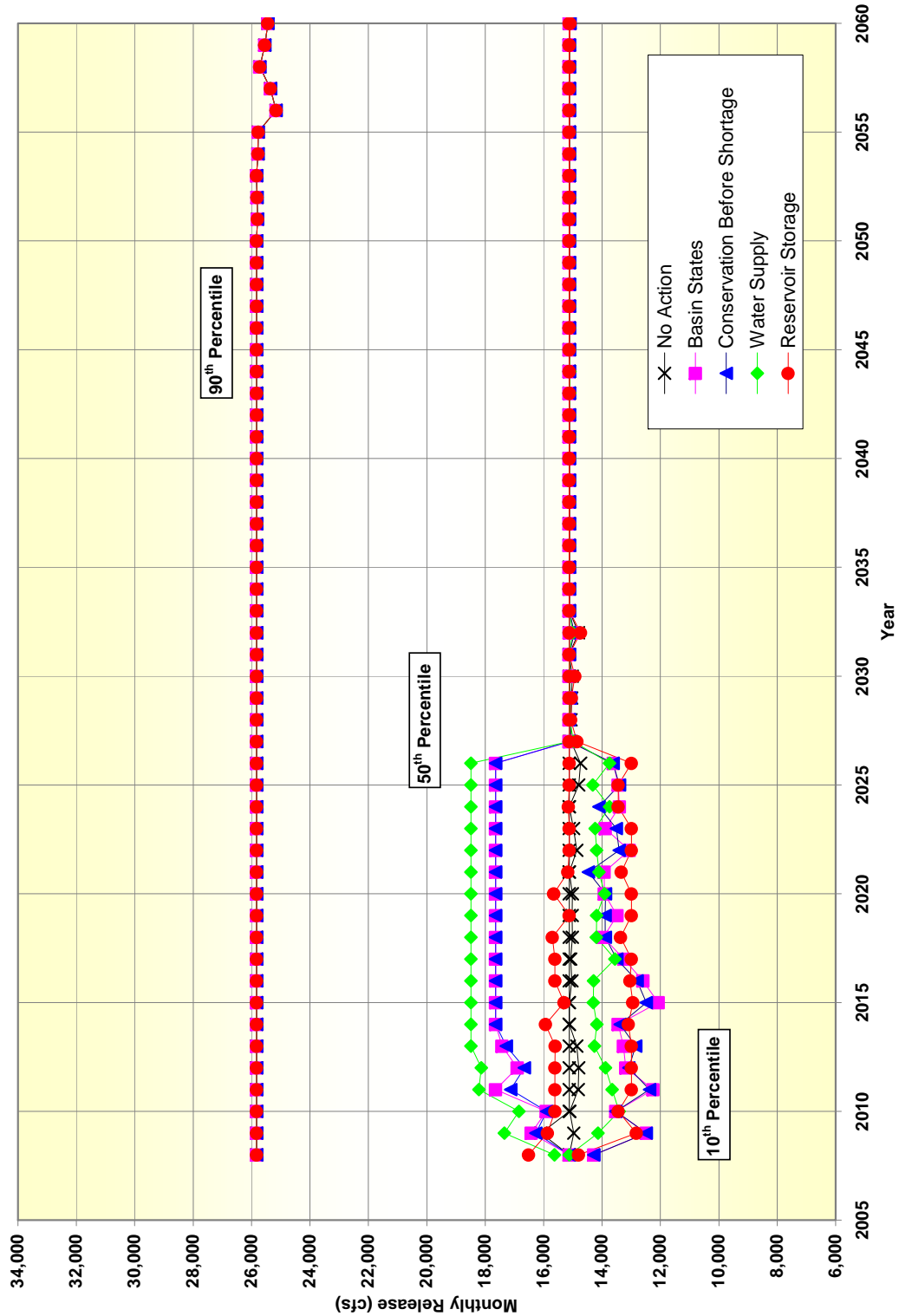


Figure P-21  
Glen Canyon Dam September Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

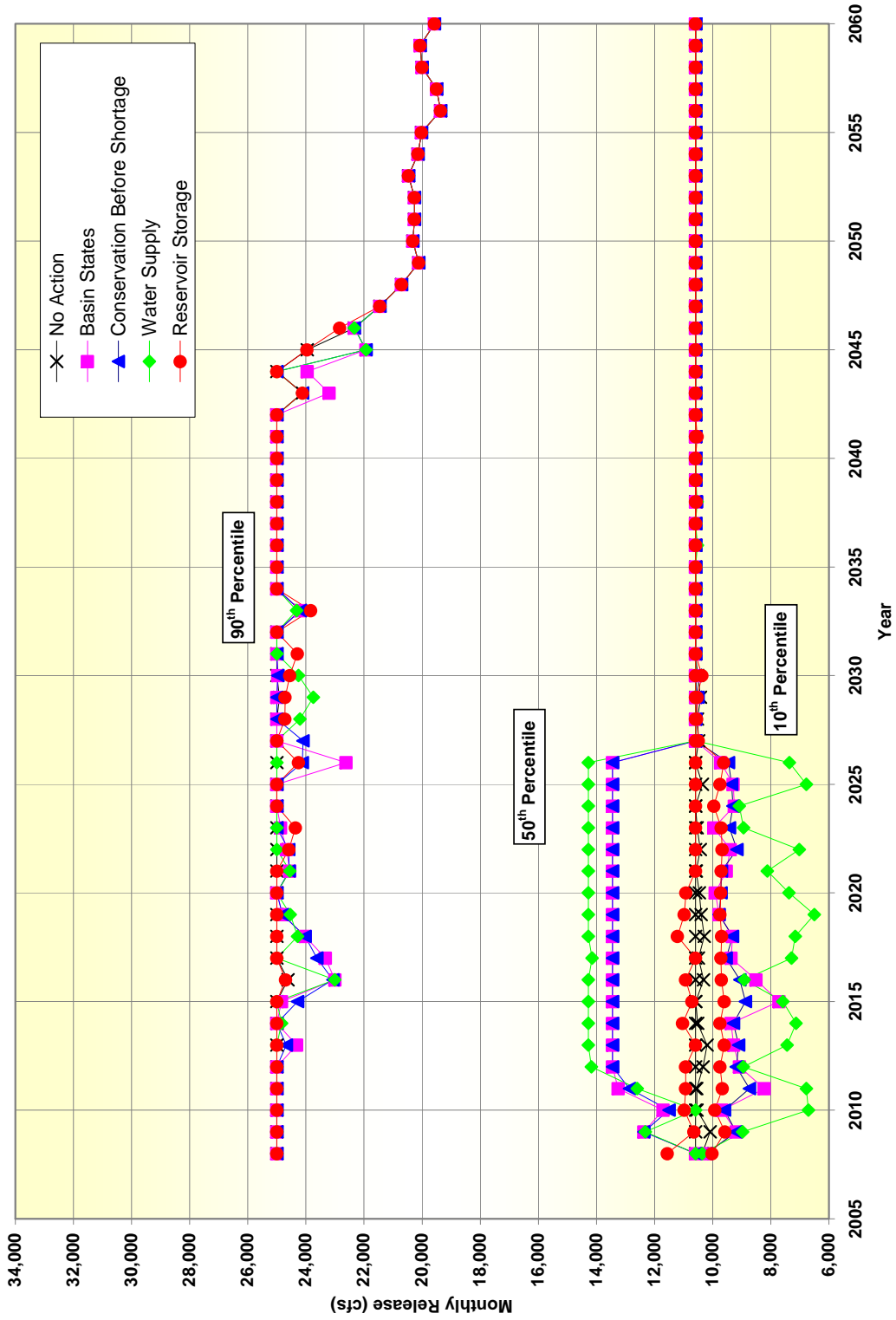


Figure P-22  
 Glen Canyon Dam October Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

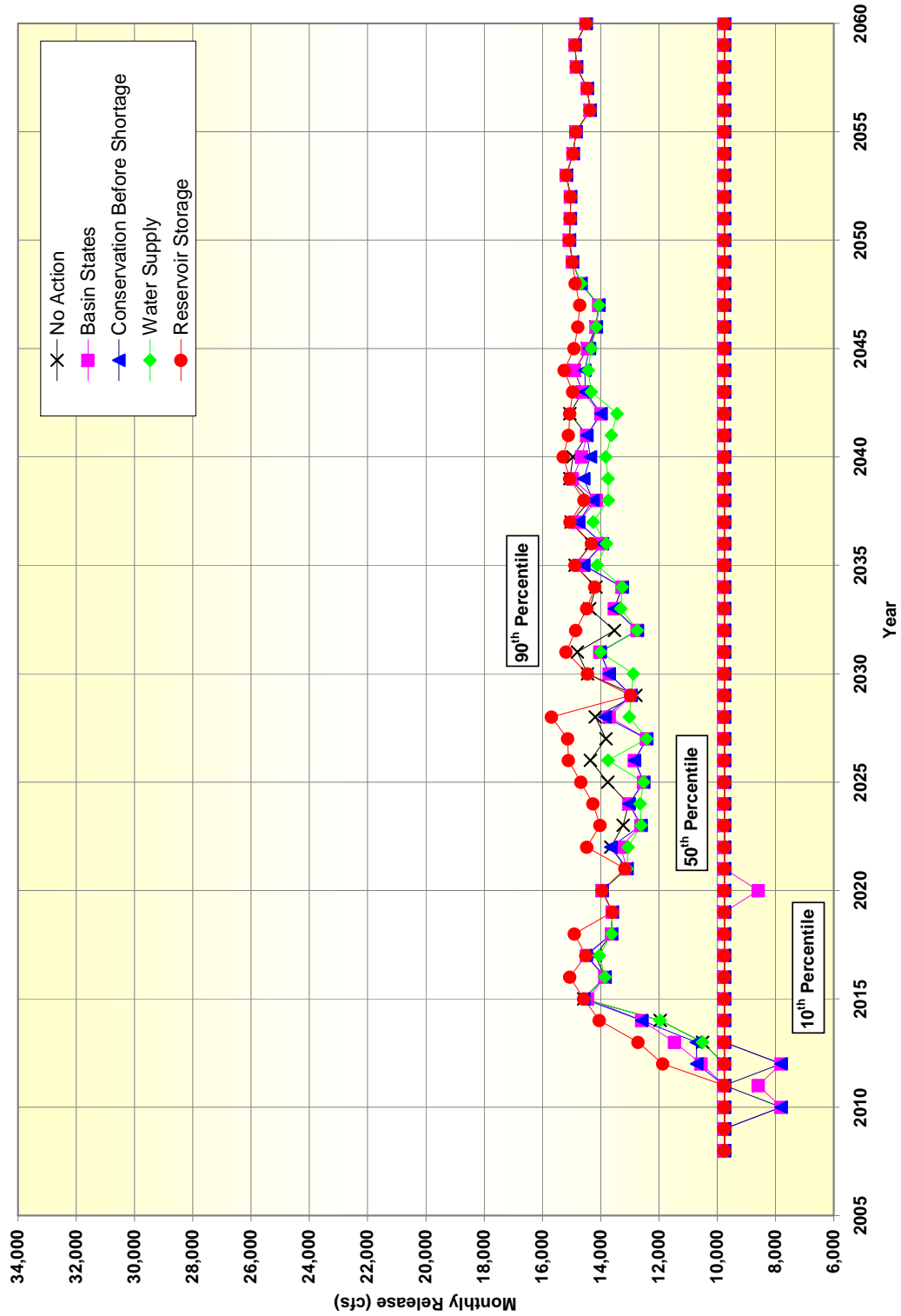


Figure P-23  
Glen Canyon Dam November Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

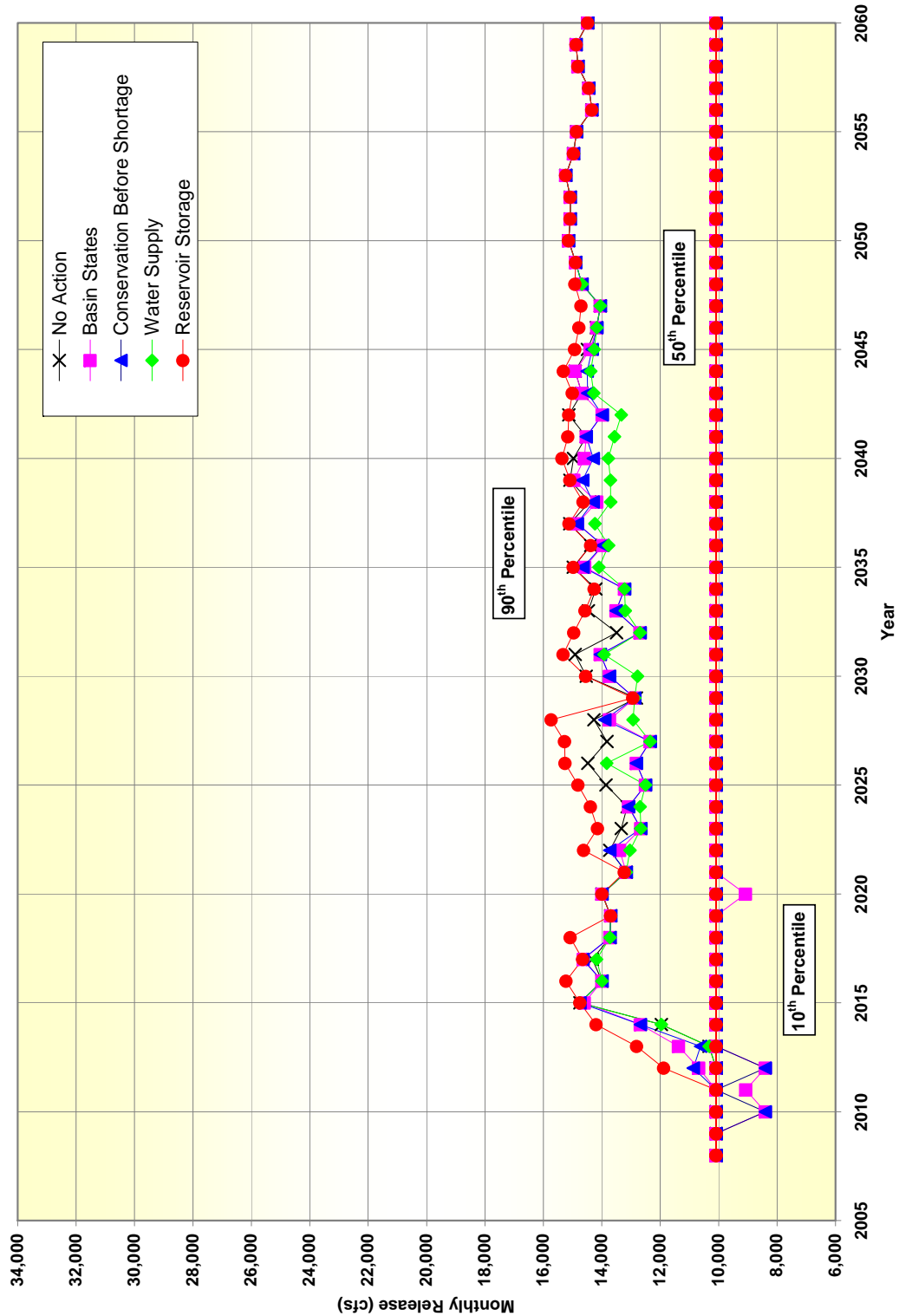


Figure P-24  
 Glen Canyon Dam December Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

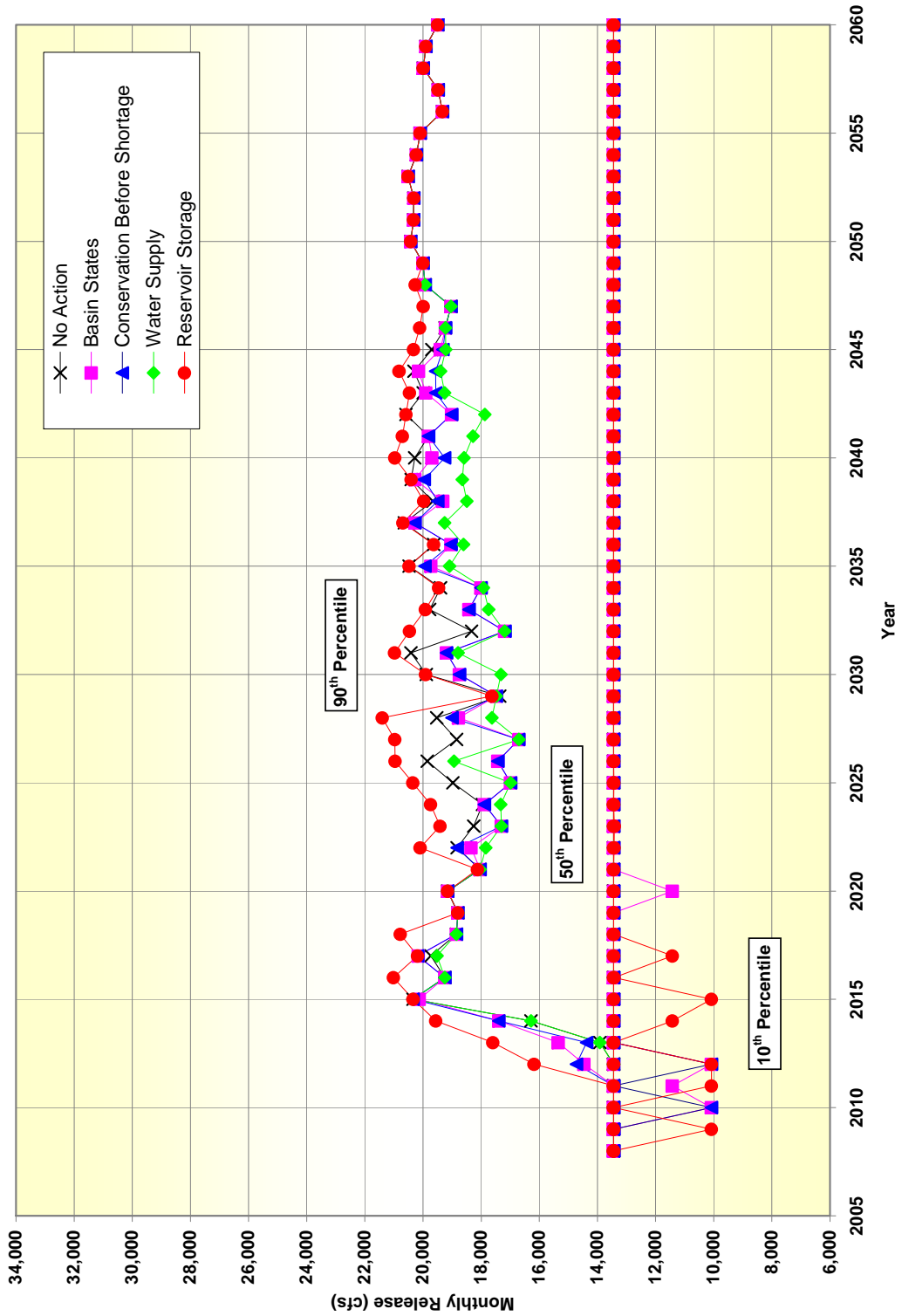


Figure P-25  
Hoover Dam January Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

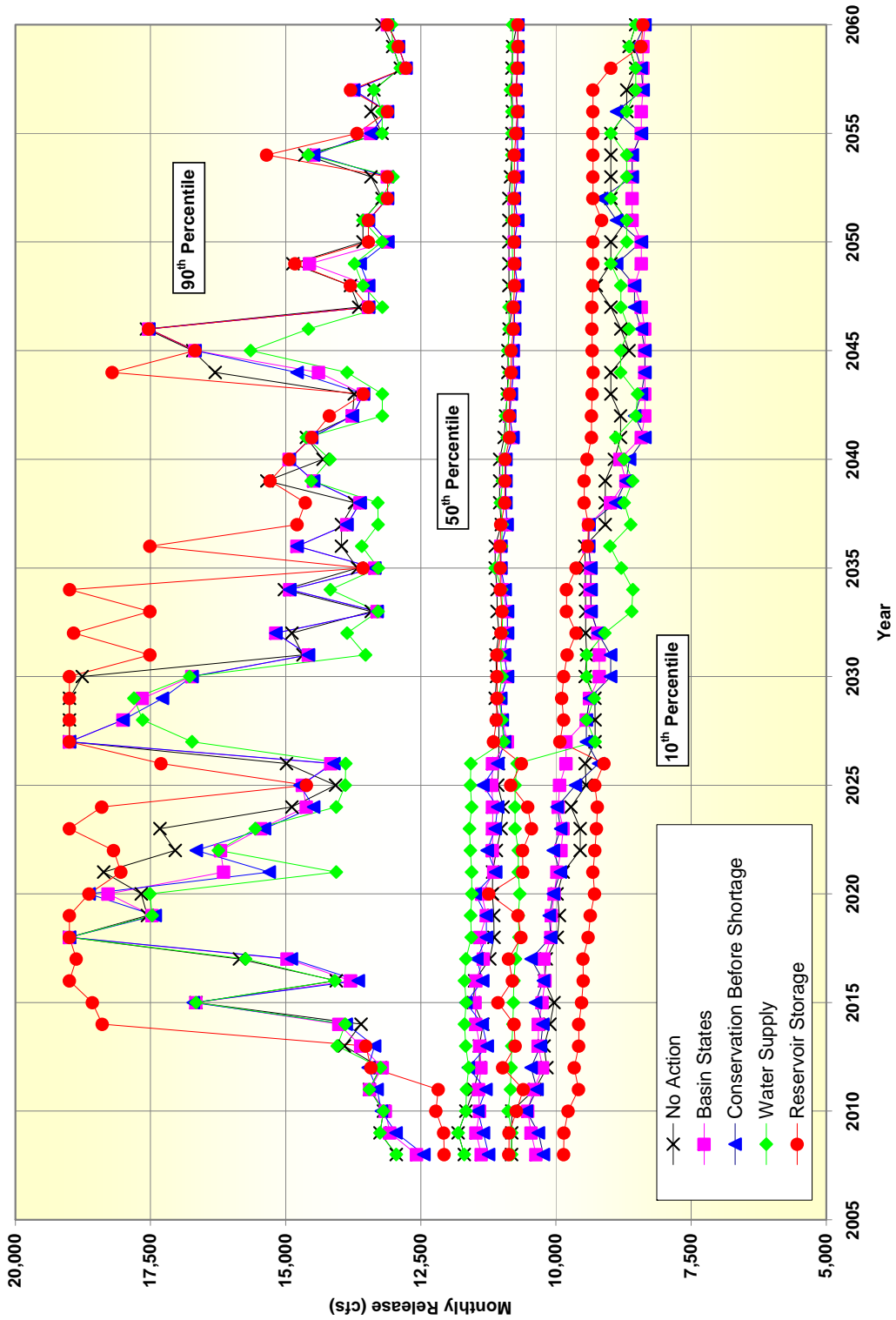


Figure P-26  
Hoover Dam February Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

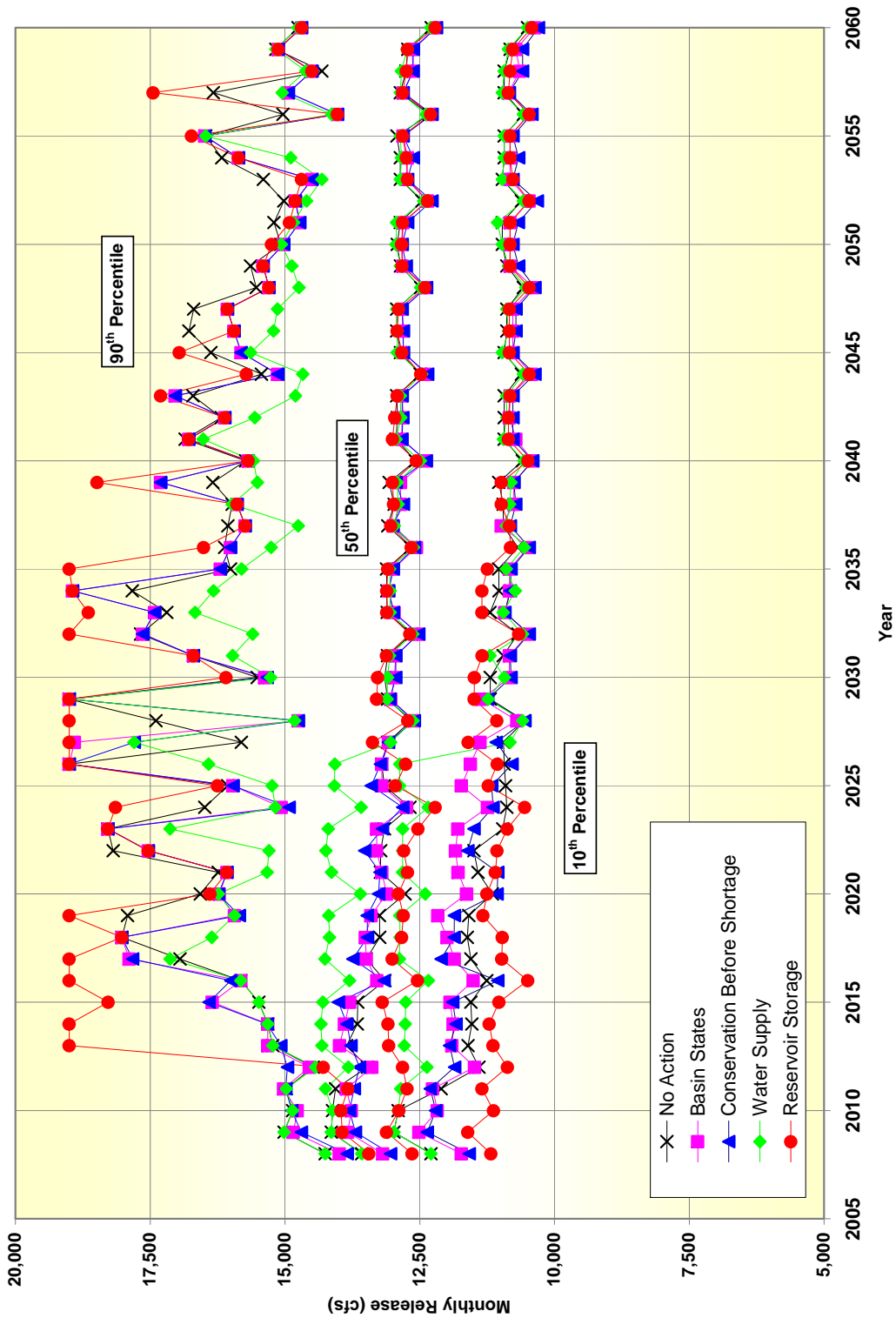


Figure P-27  
Hoover Dam March Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

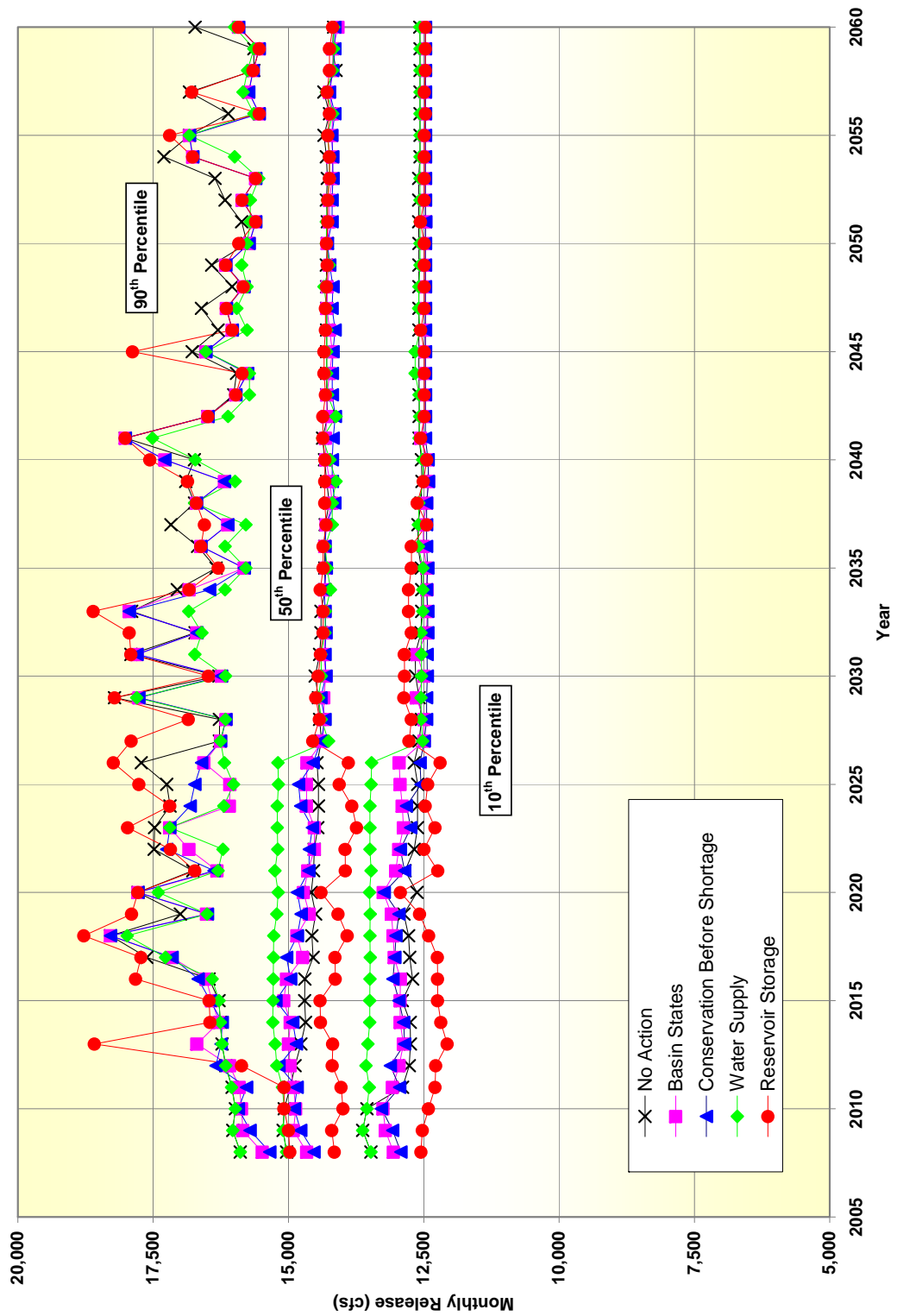




Figure P-28  
Hoover Dam April Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

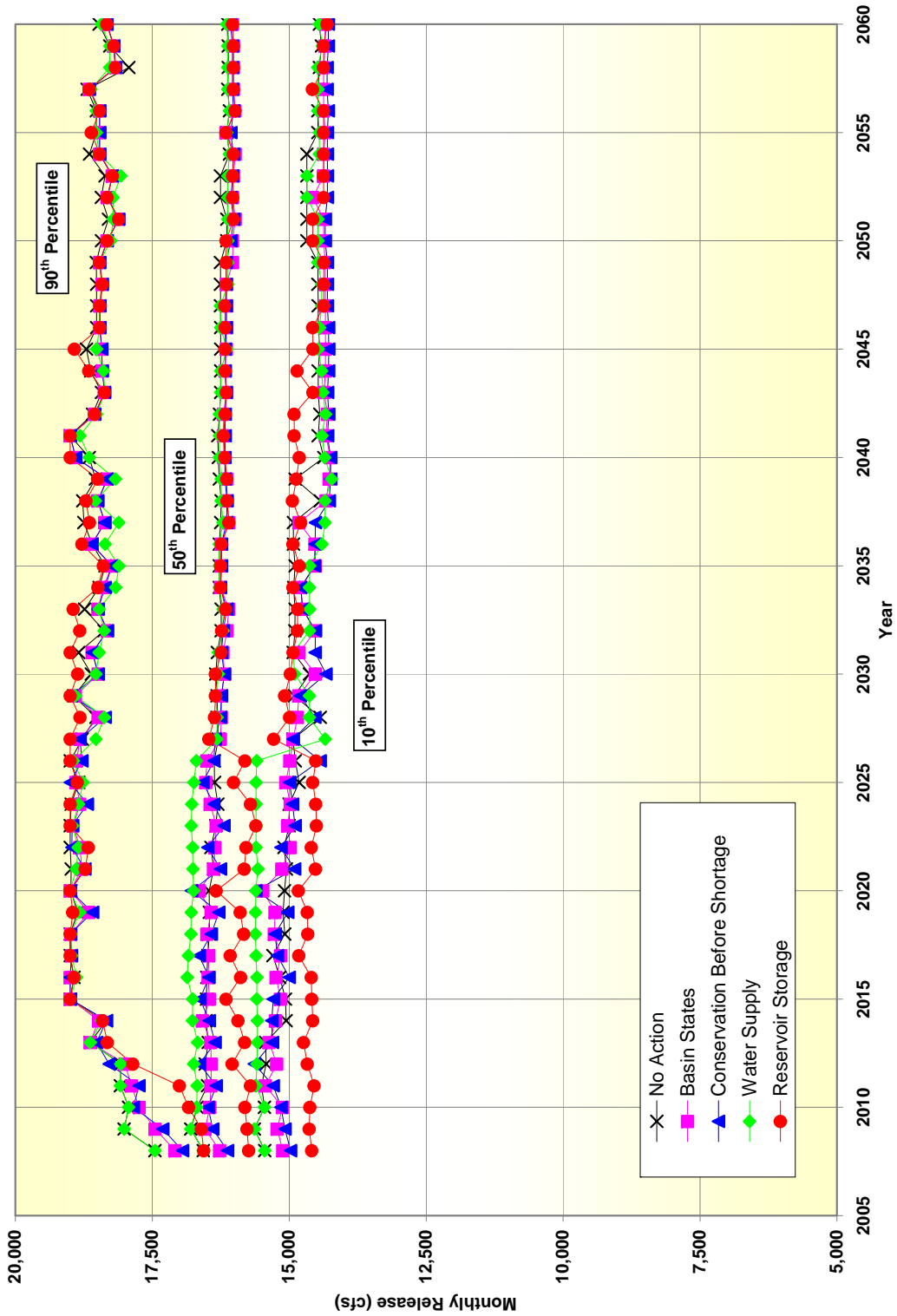


Figure P-29  
Hoover Dam May Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

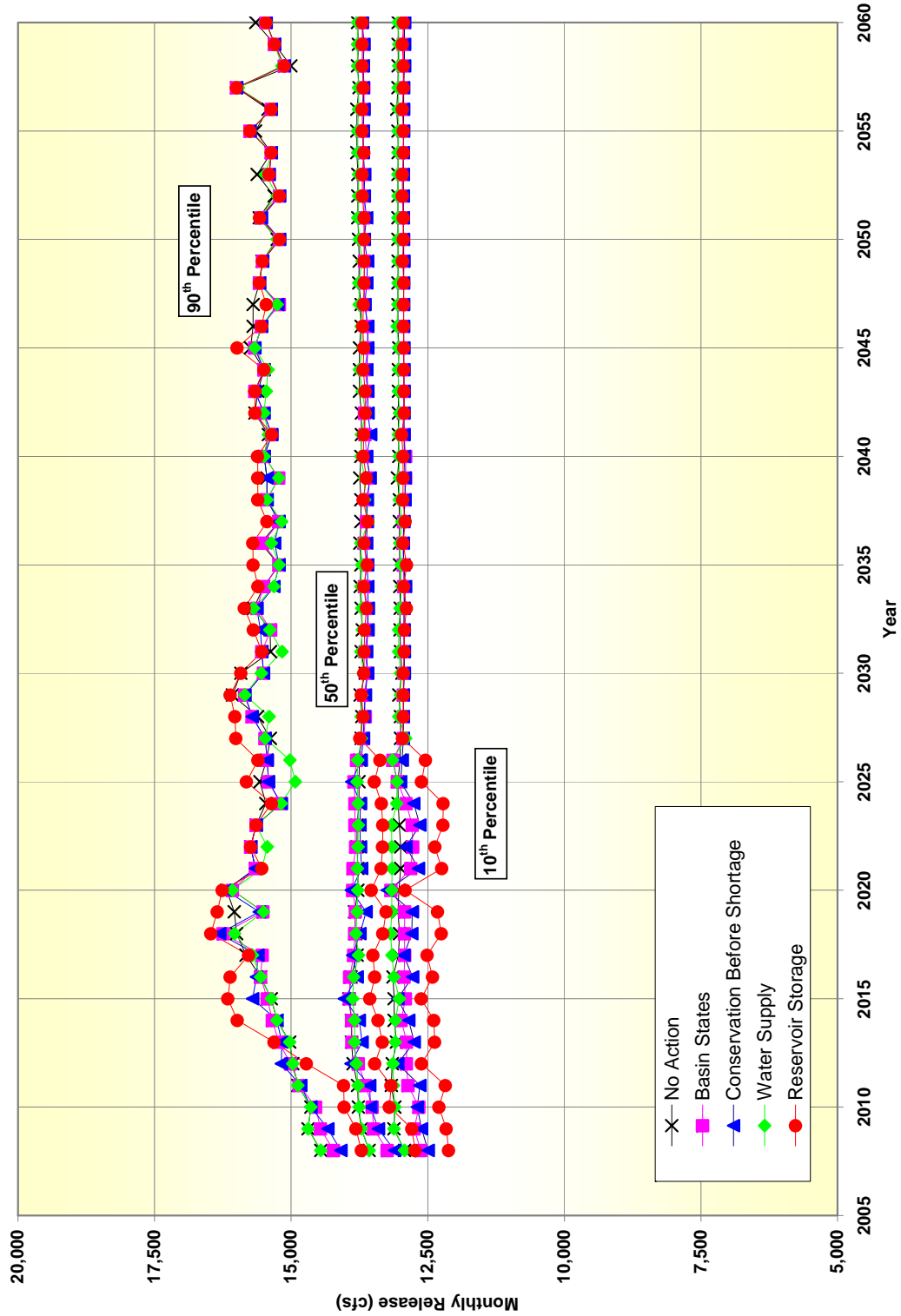


Figure P-30  
Hoover Dam June Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

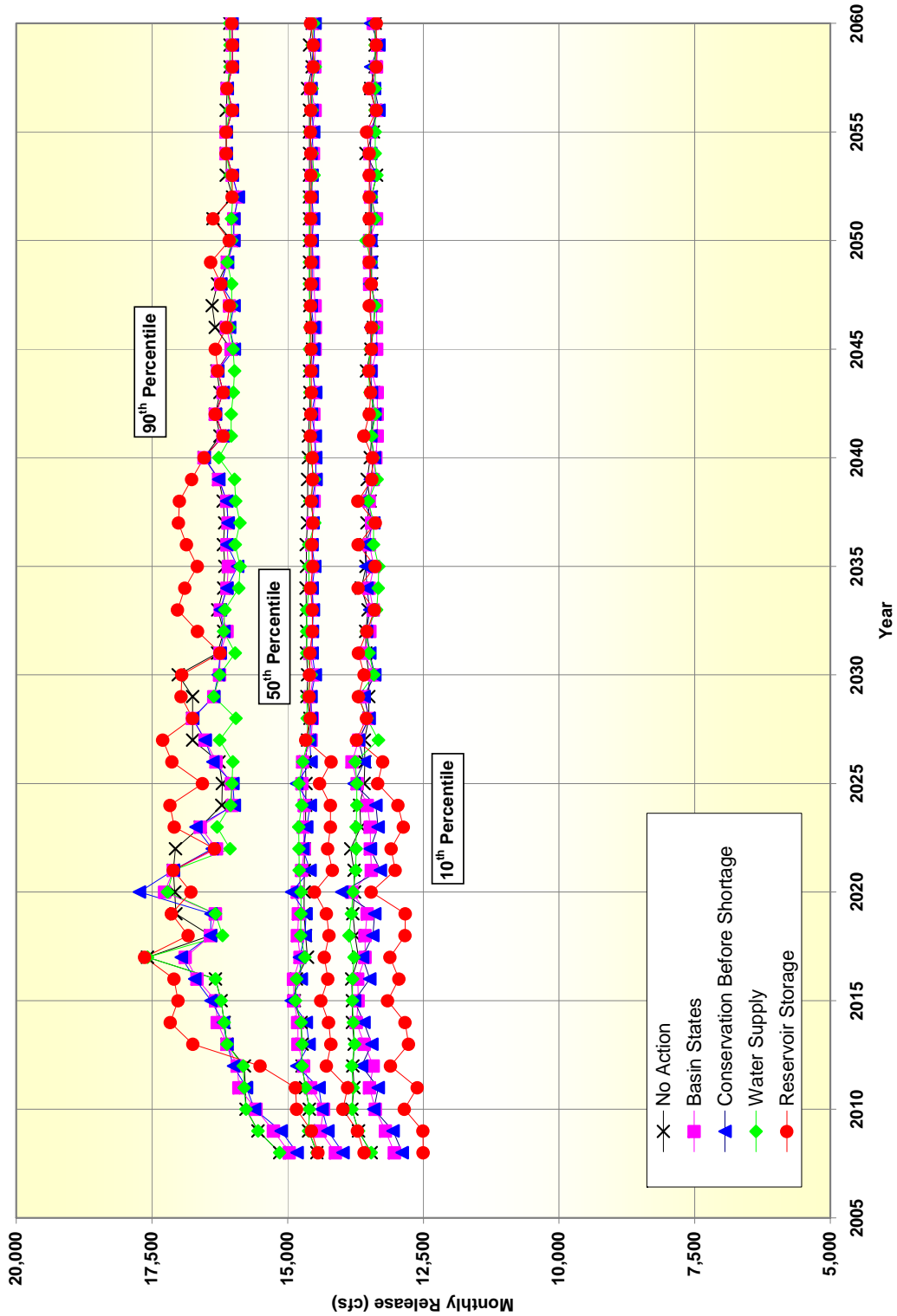


Figure P-31  
Hoover Dam July Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

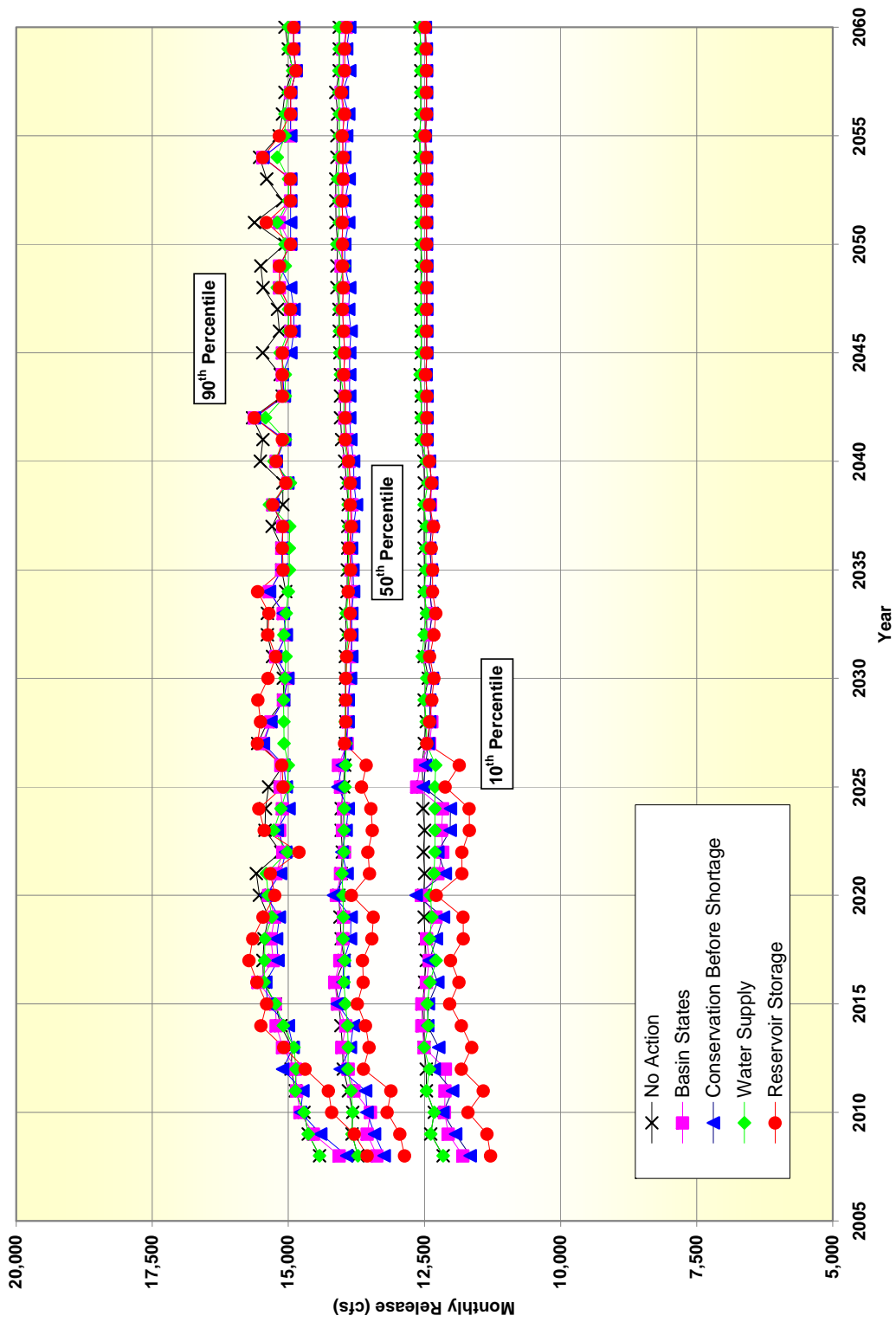


Figure P-32  
 Hoover Dam August Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

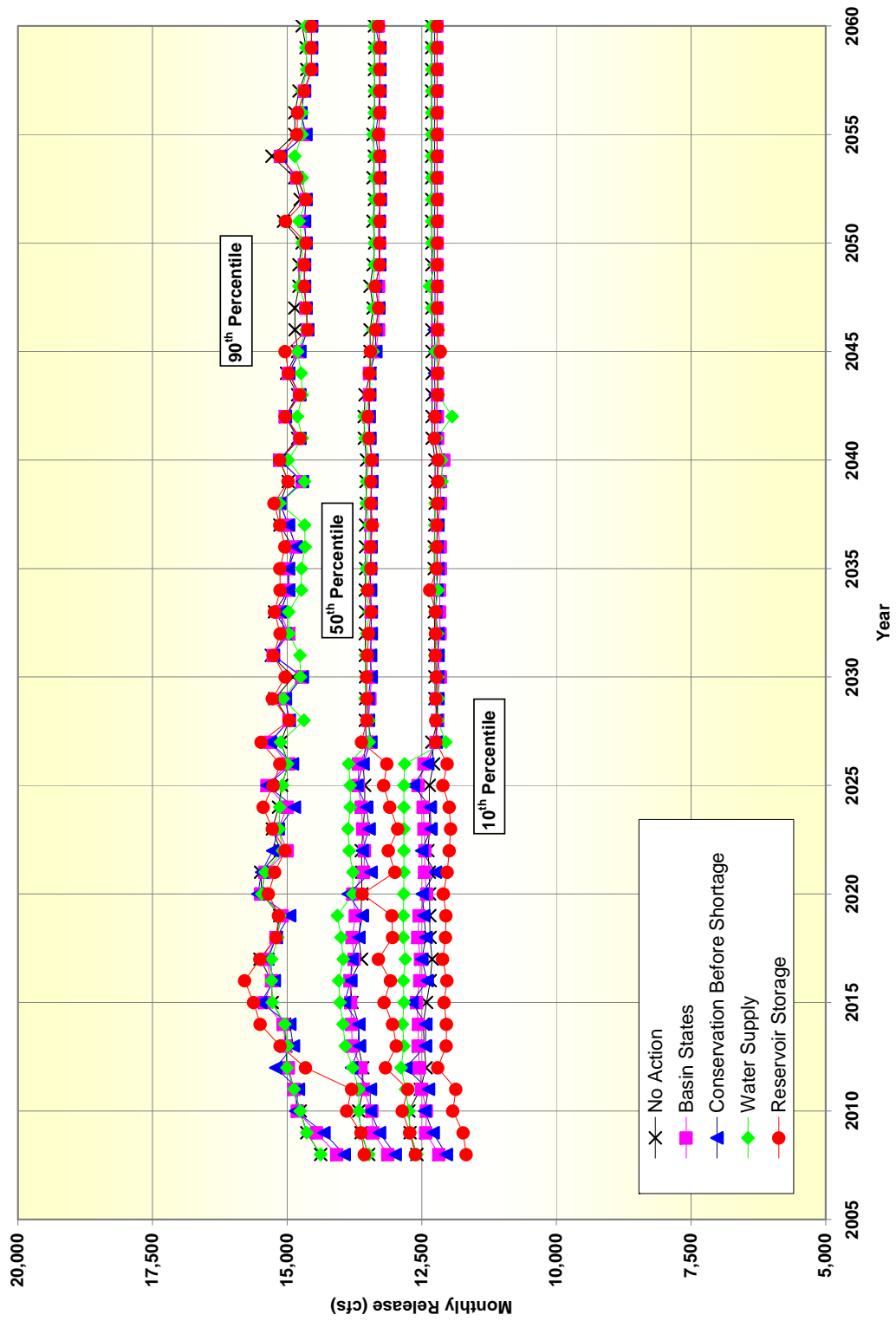


Figure P-33  
 Hoover Dam September Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

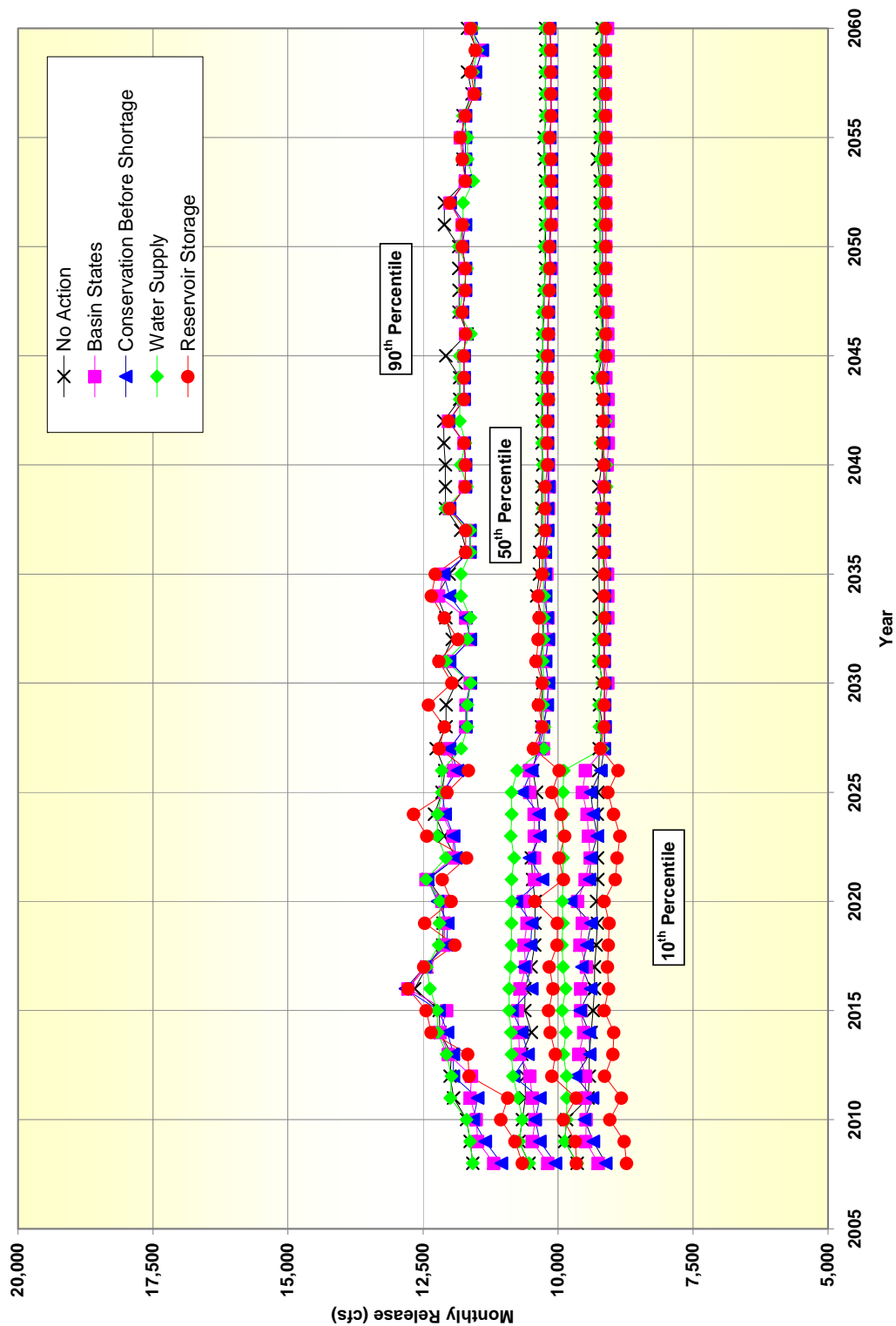


Figure P-34  
 Hoover Dam October Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

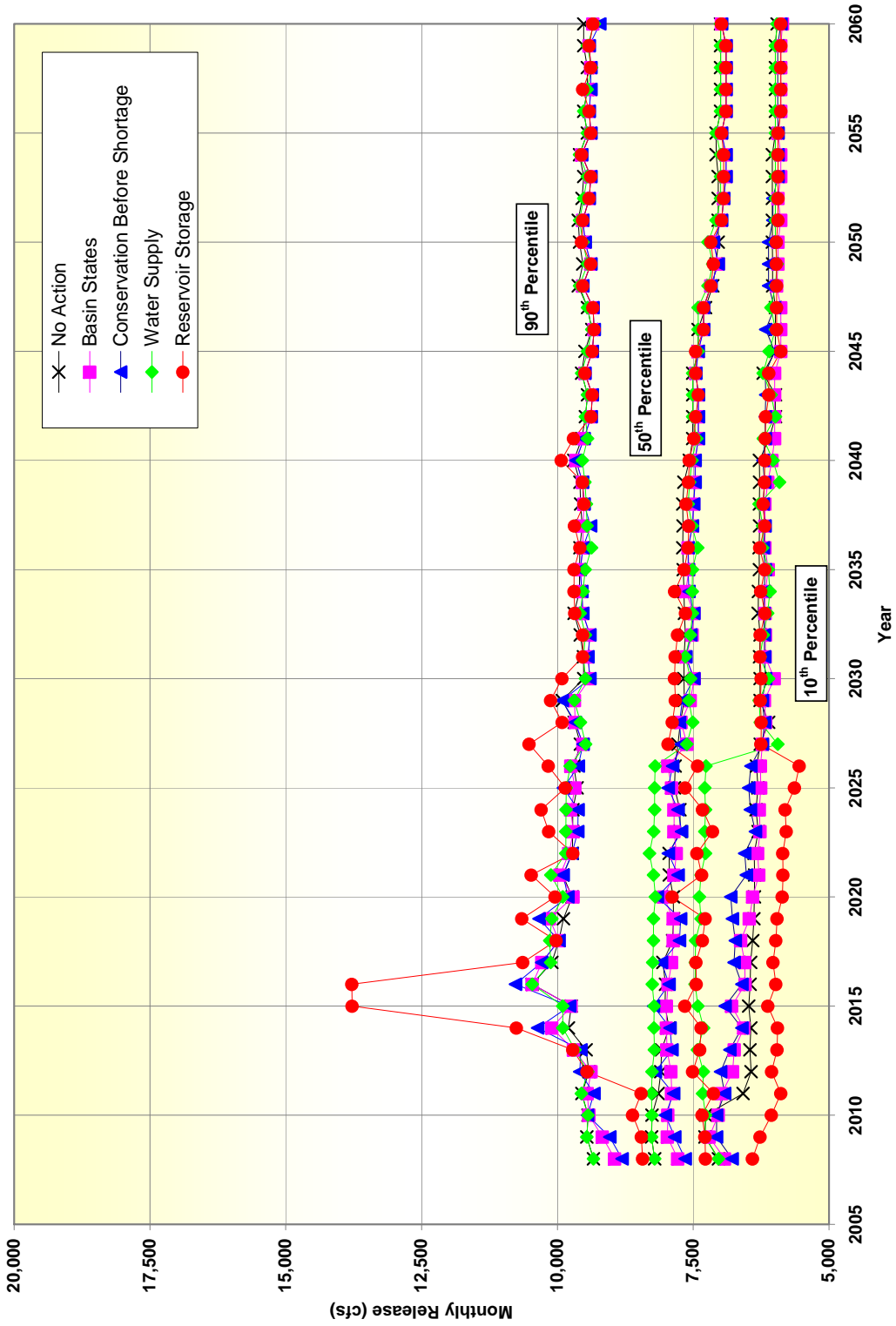


Figure P-35  
 Hoover Dam November Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

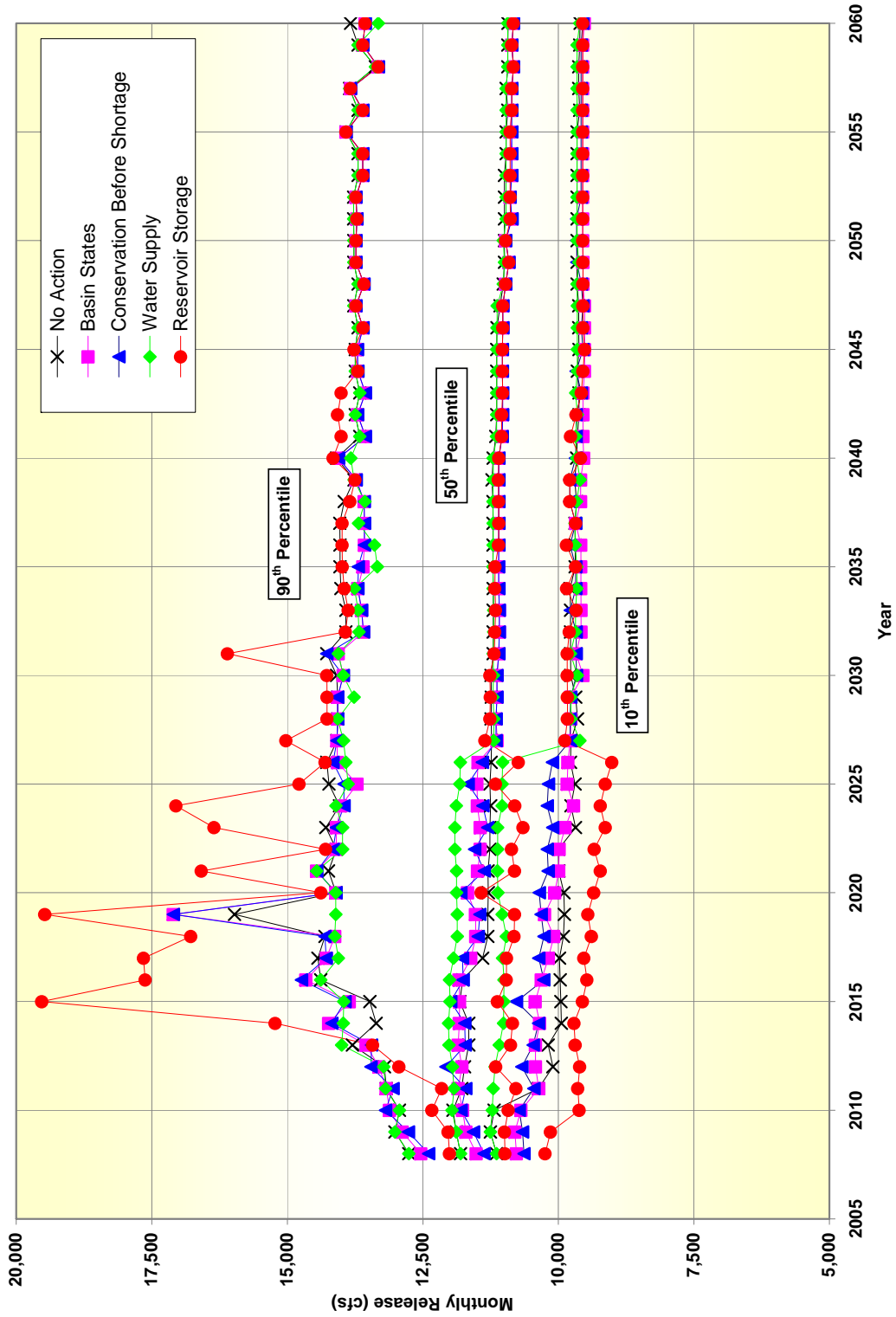




Figure P-36  
 Hoover Dam December Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

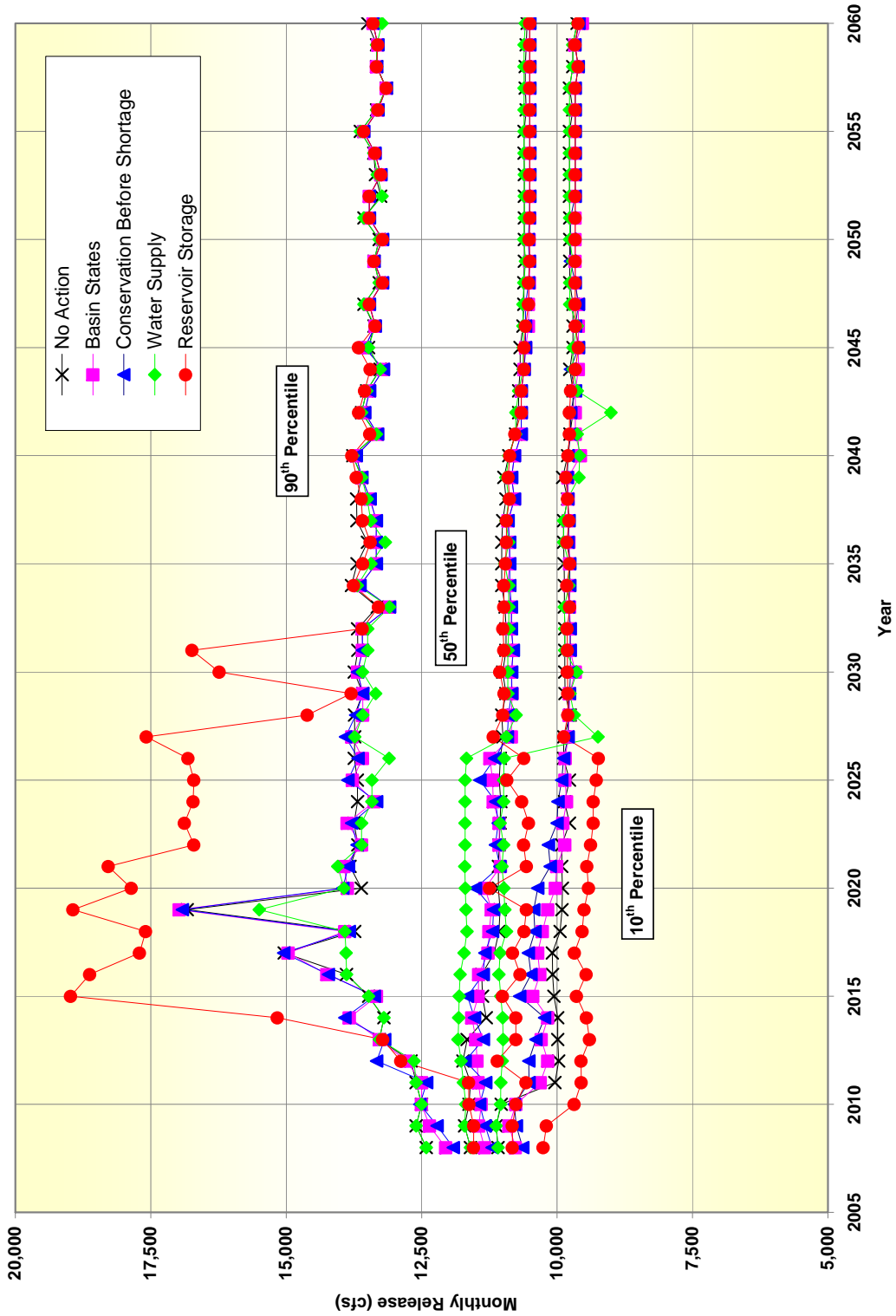


Figure P-37  
Davis Dam January Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

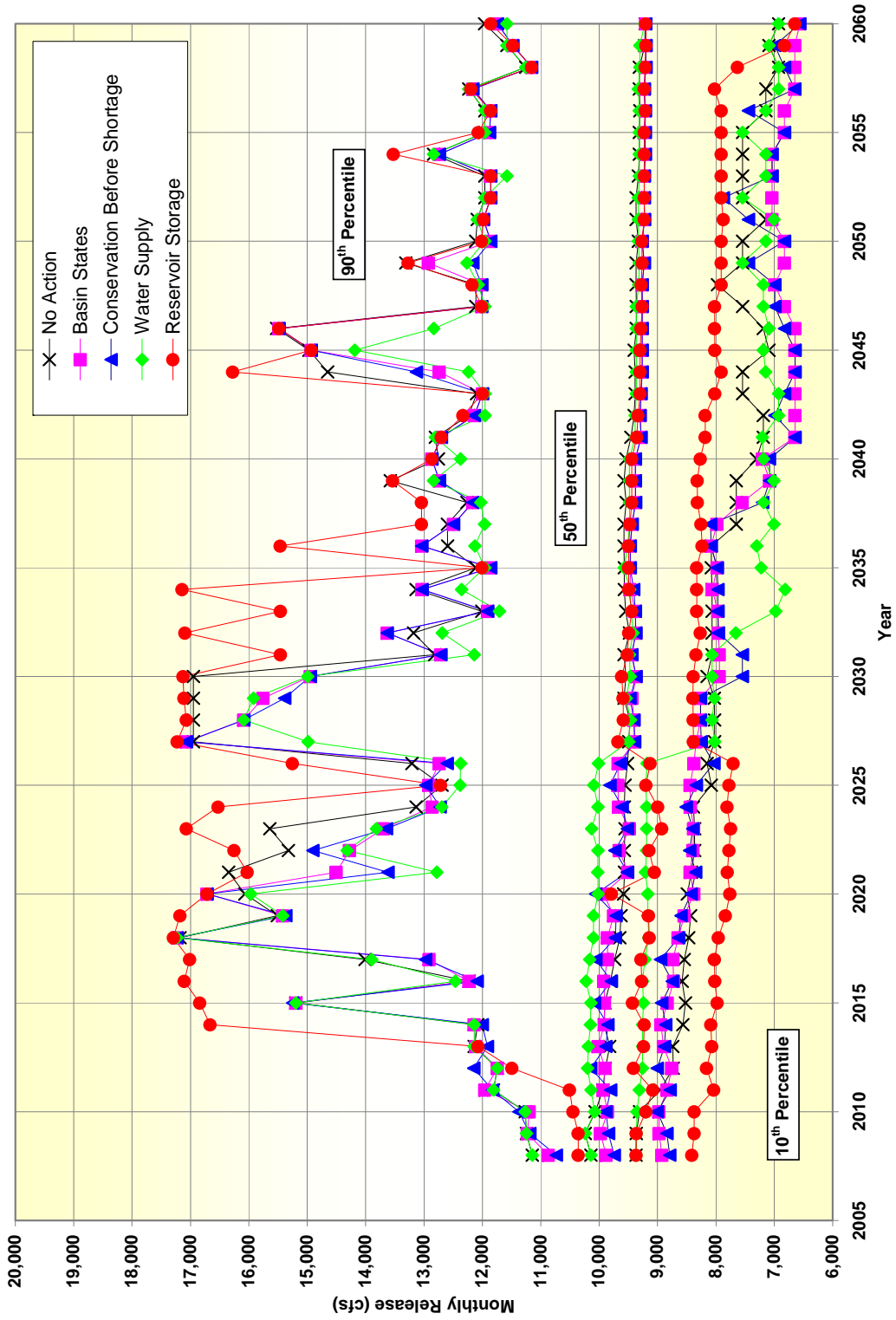


Figure P-38  
 Davis Dam February Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

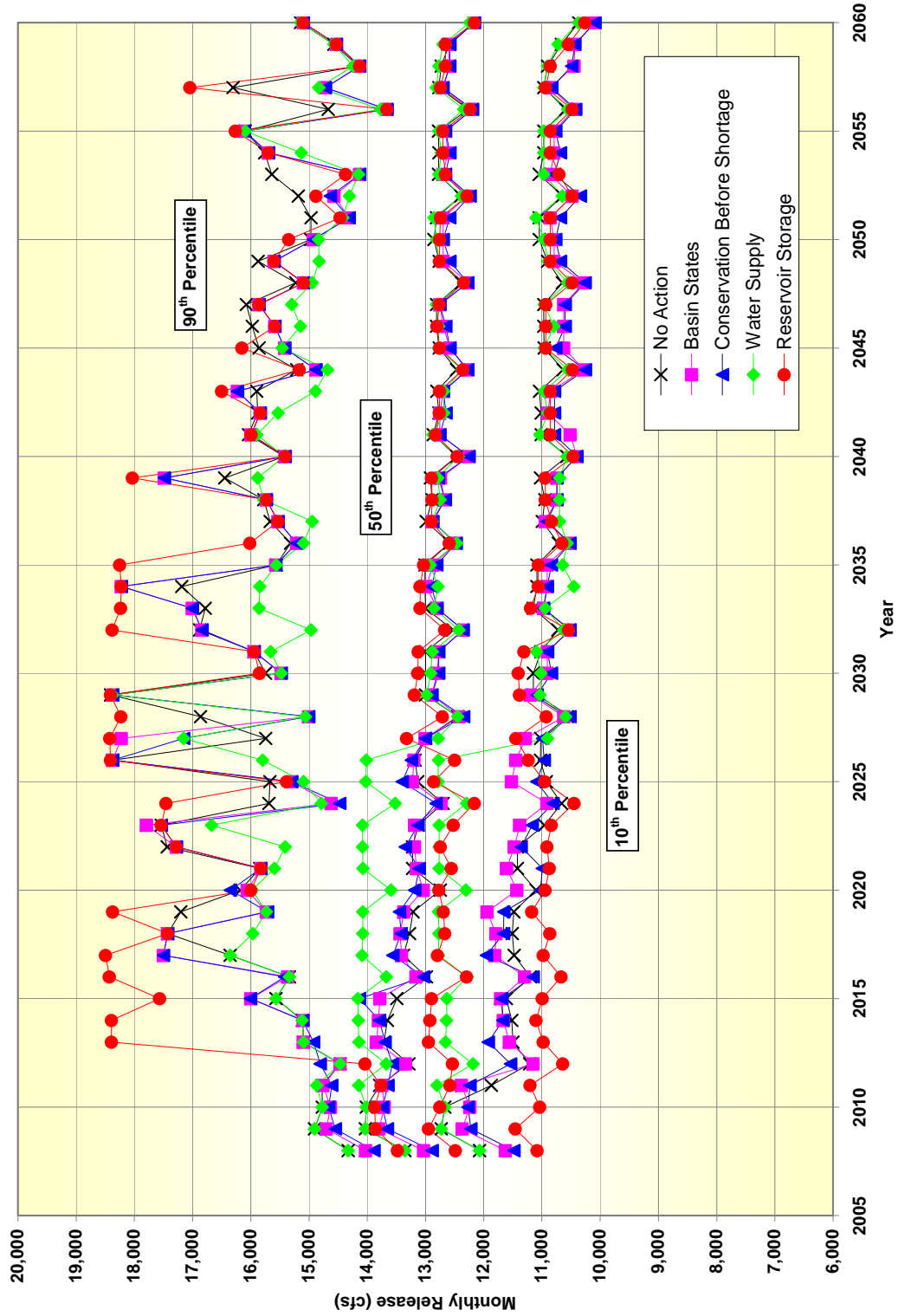


Figure P-39  
 Davis Dam March Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

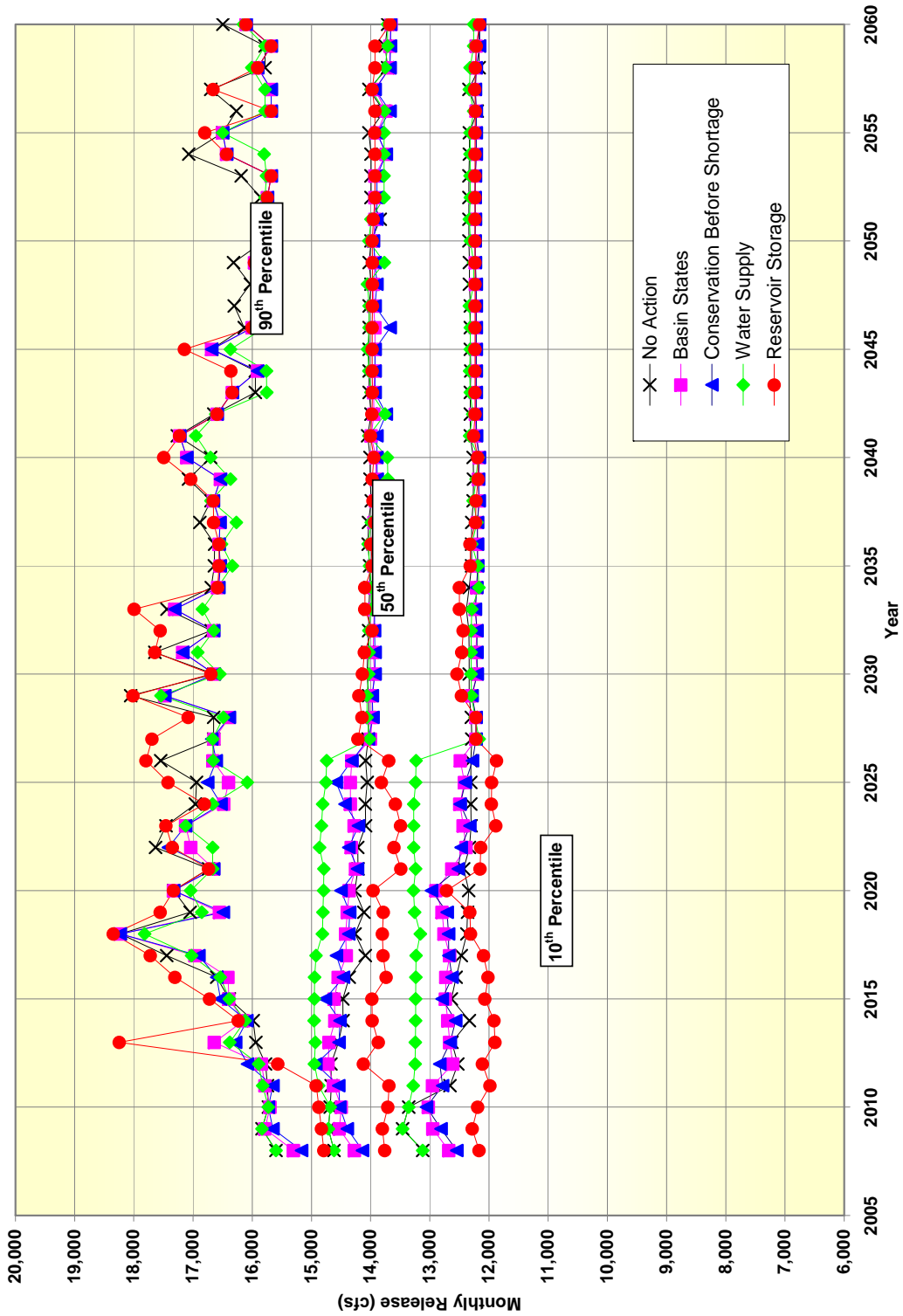


Figure P-40  
 Davis Dam April Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

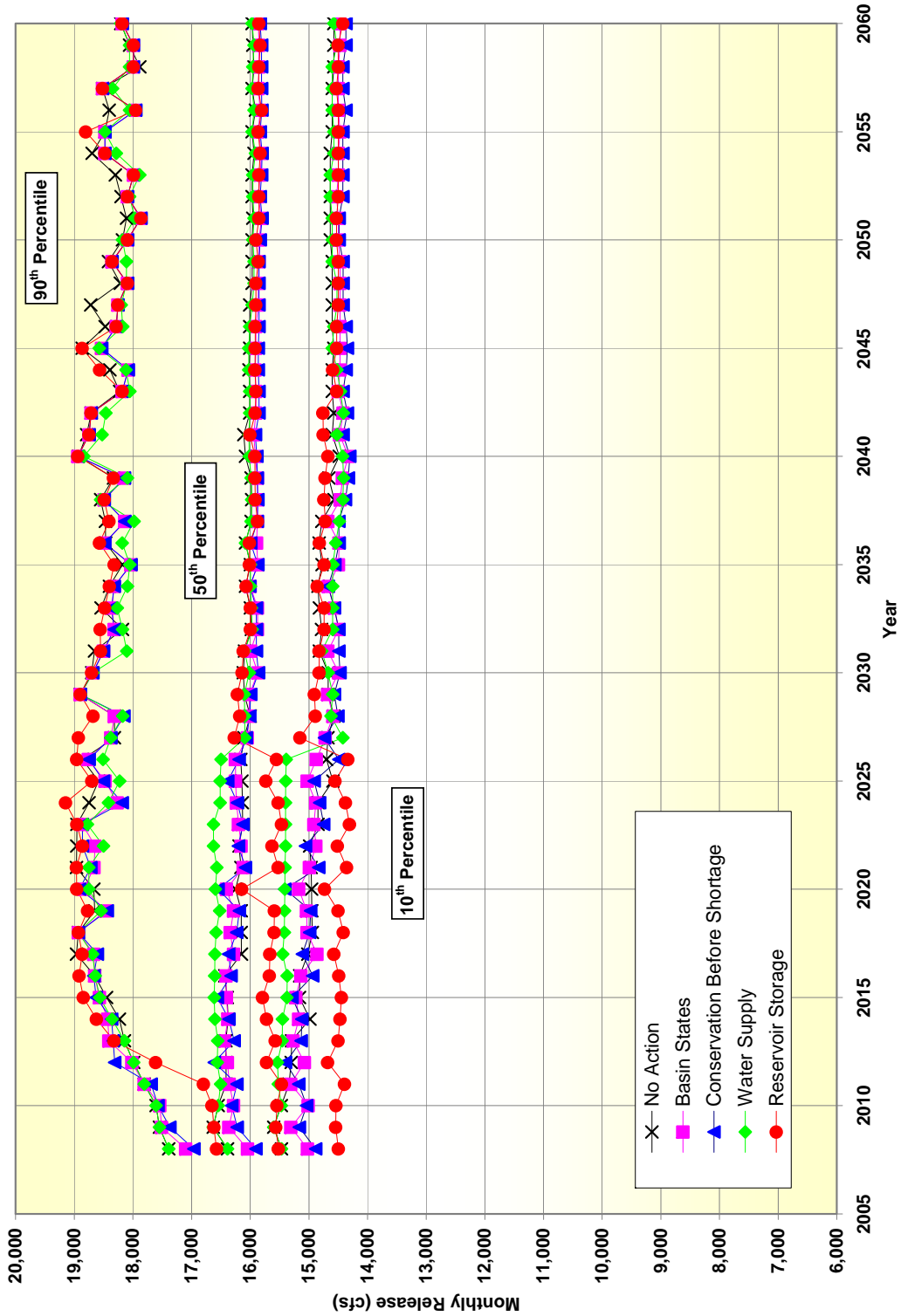


Figure P-41  
Davis Dam May Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

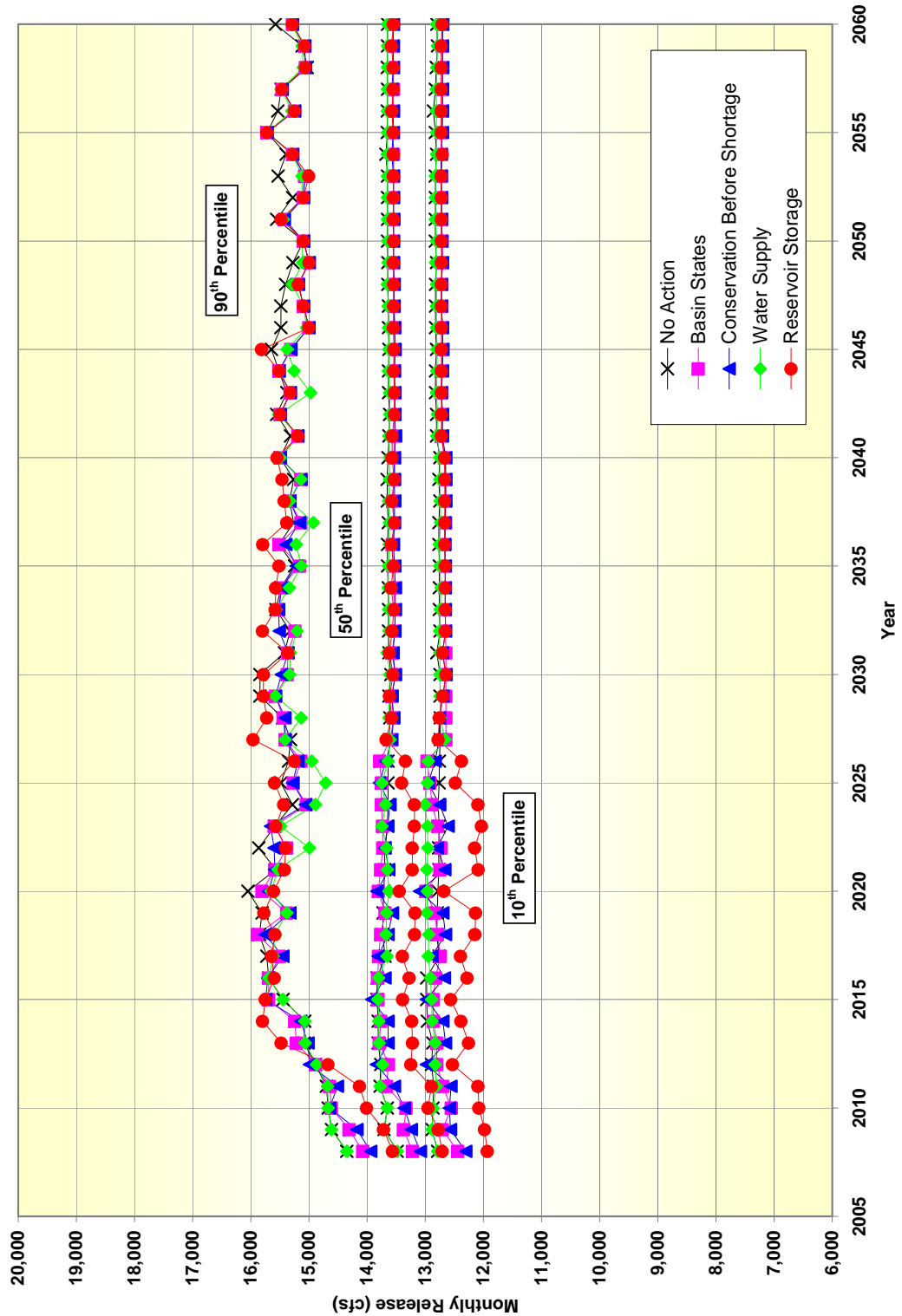


Figure P-42  
 Davis Dam June Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

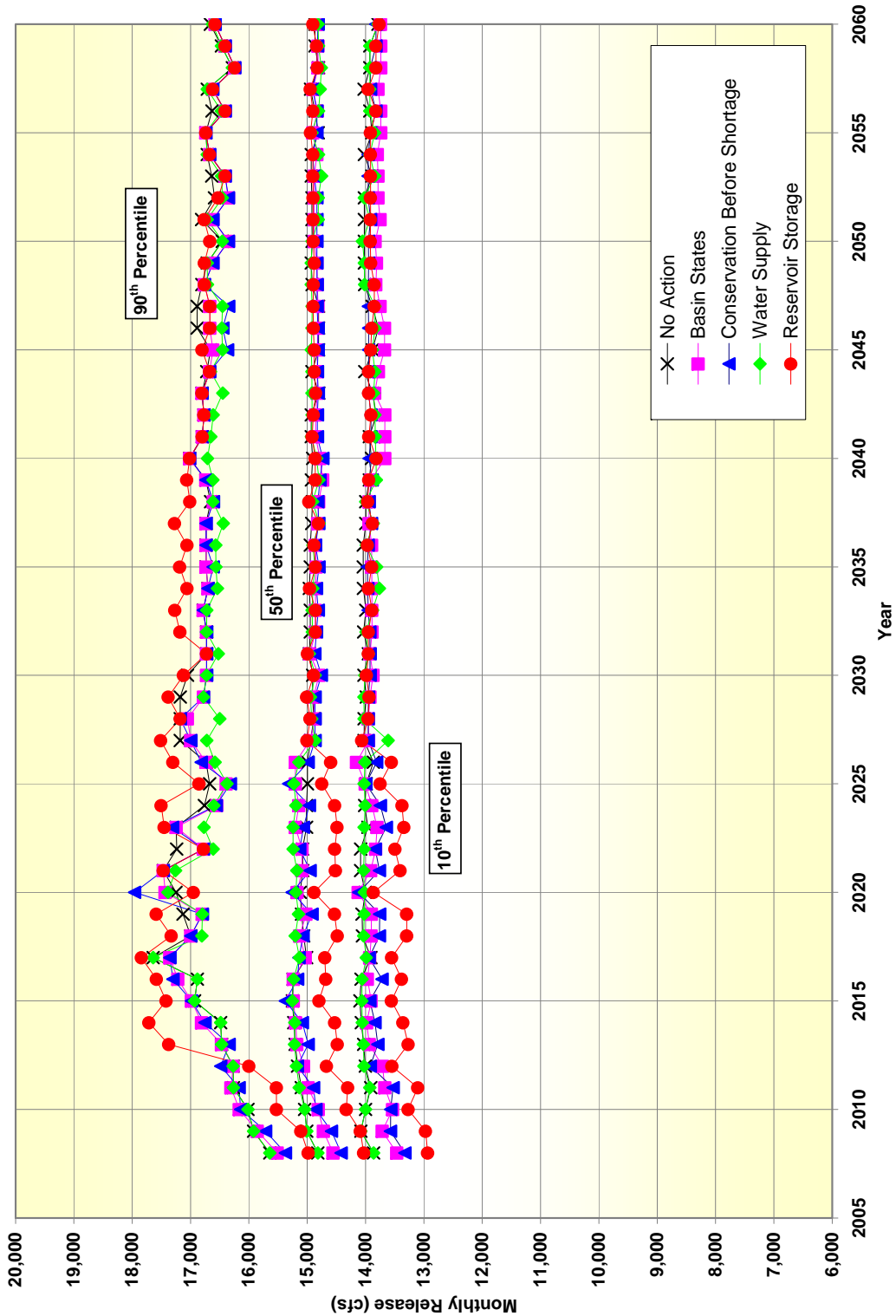


Figure P-43  
Davis Dam July Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

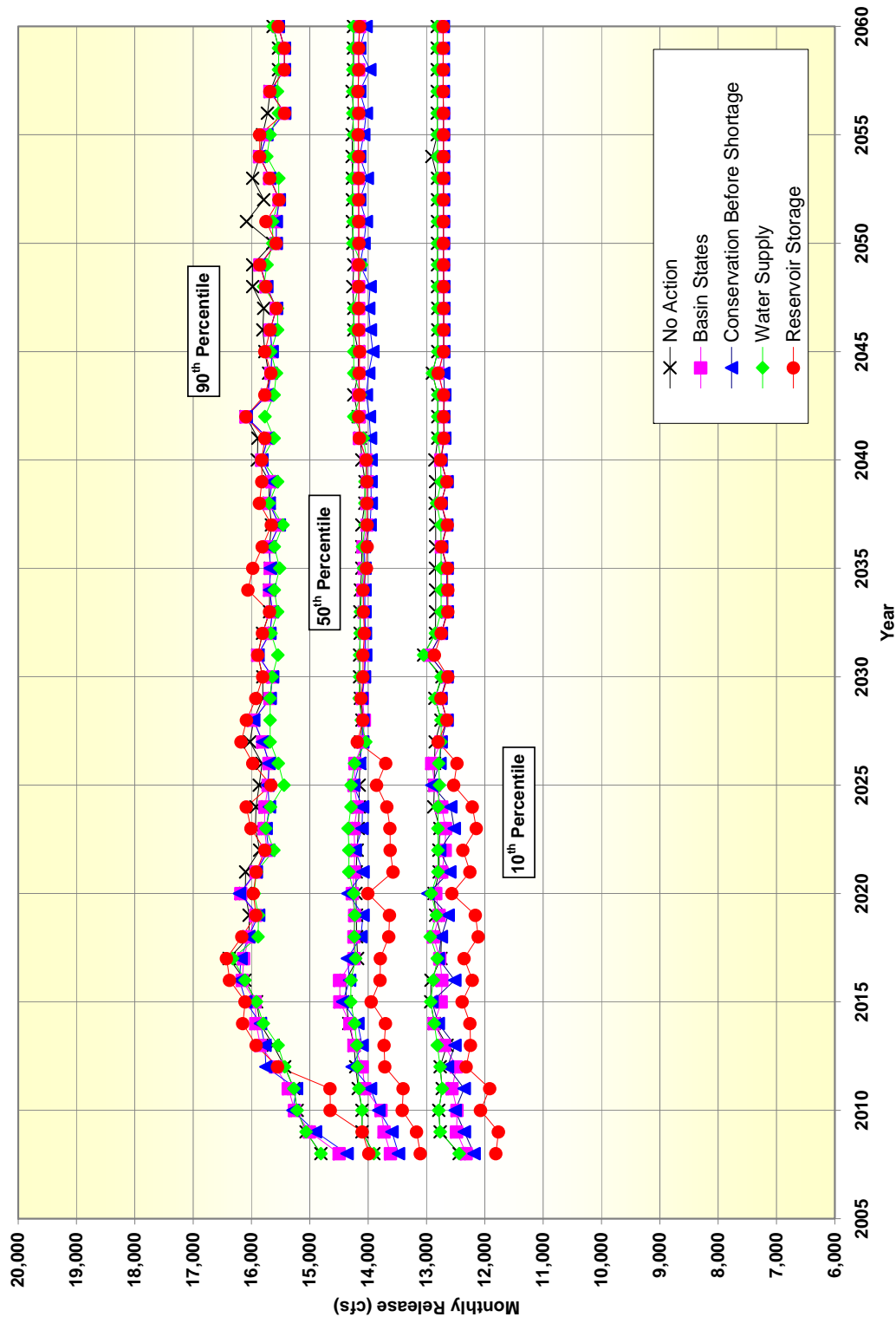




Figure P-44  
 Davis Dam August Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

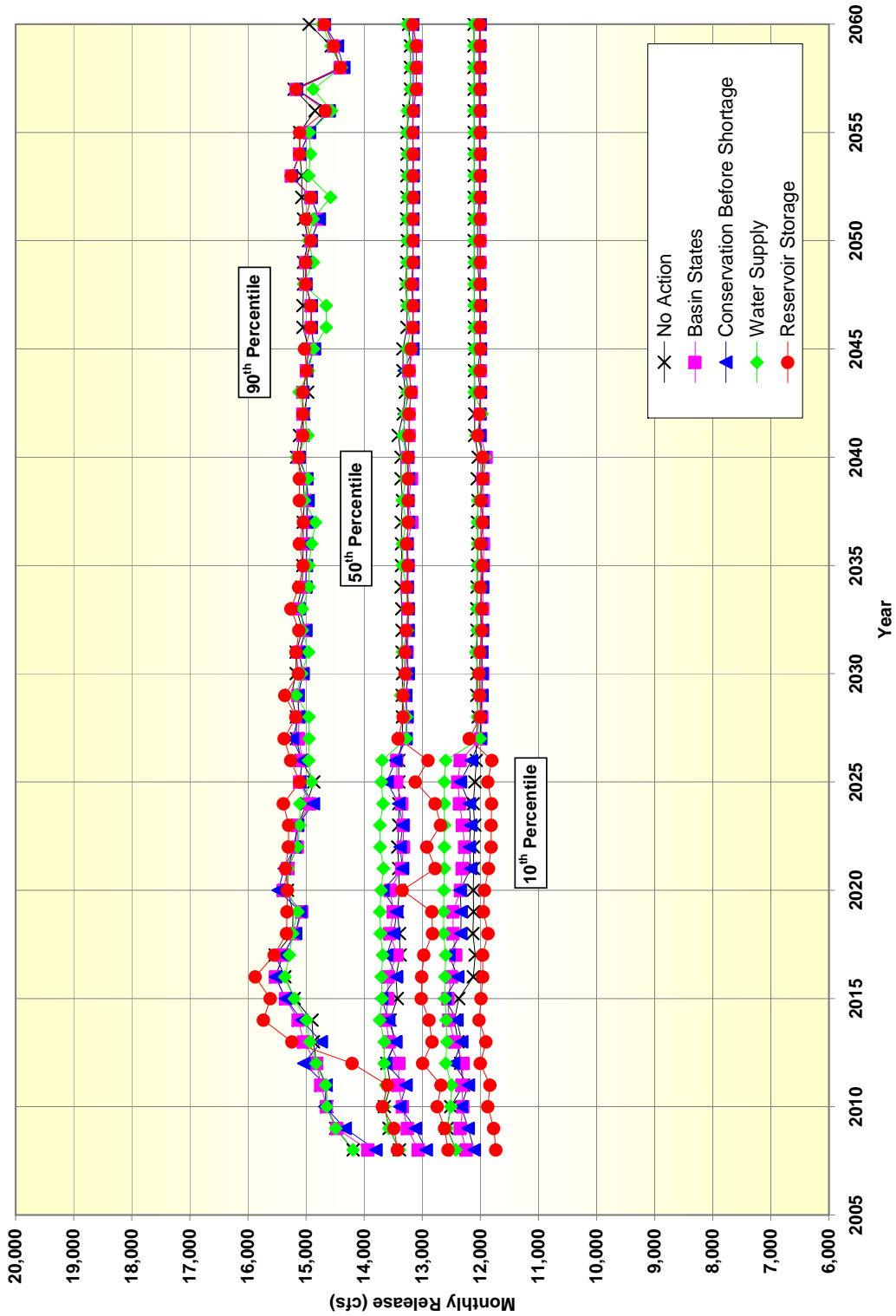


Figure P-45  
 Davis Dam September Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

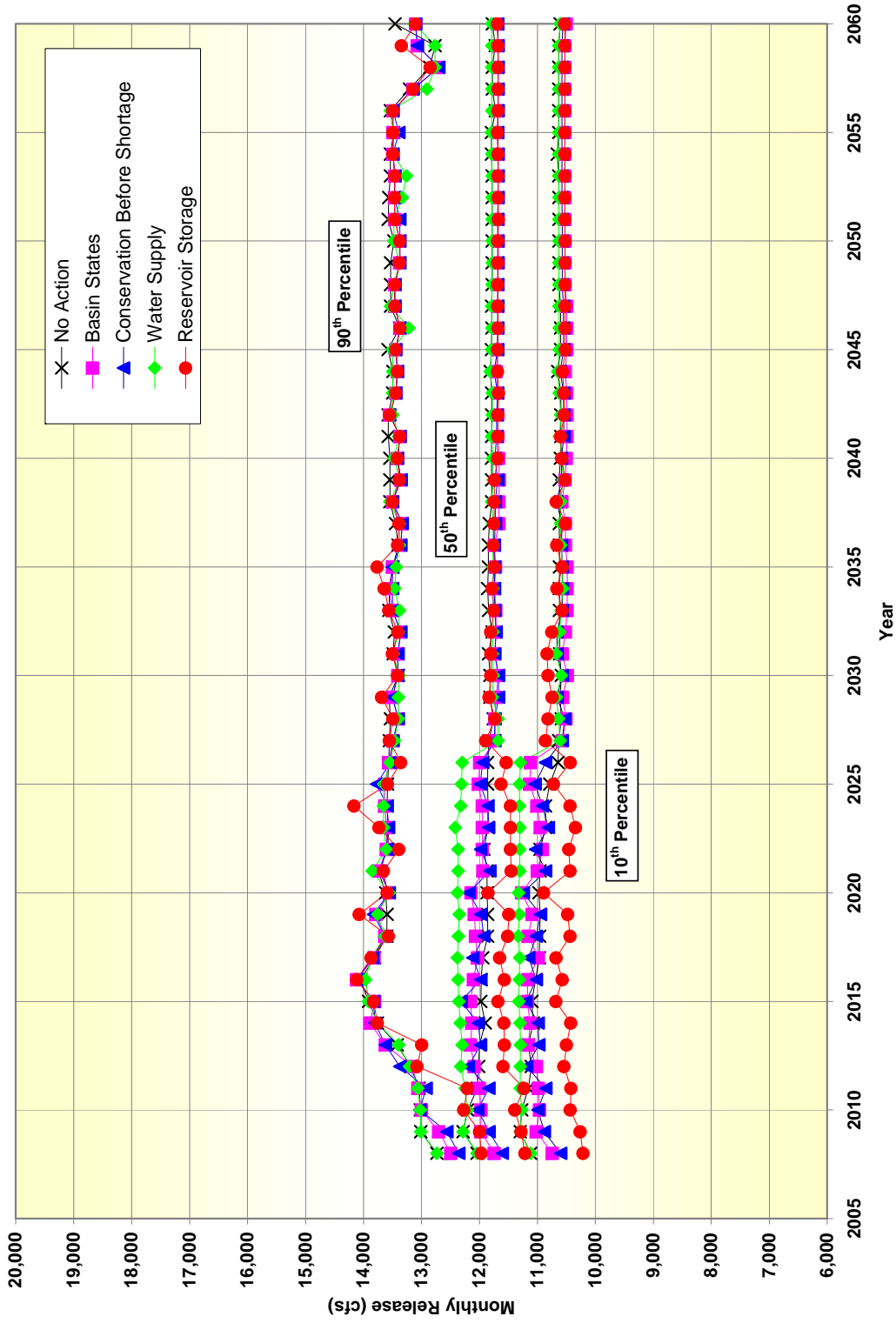


Figure P-46  
 Davis Dam October Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

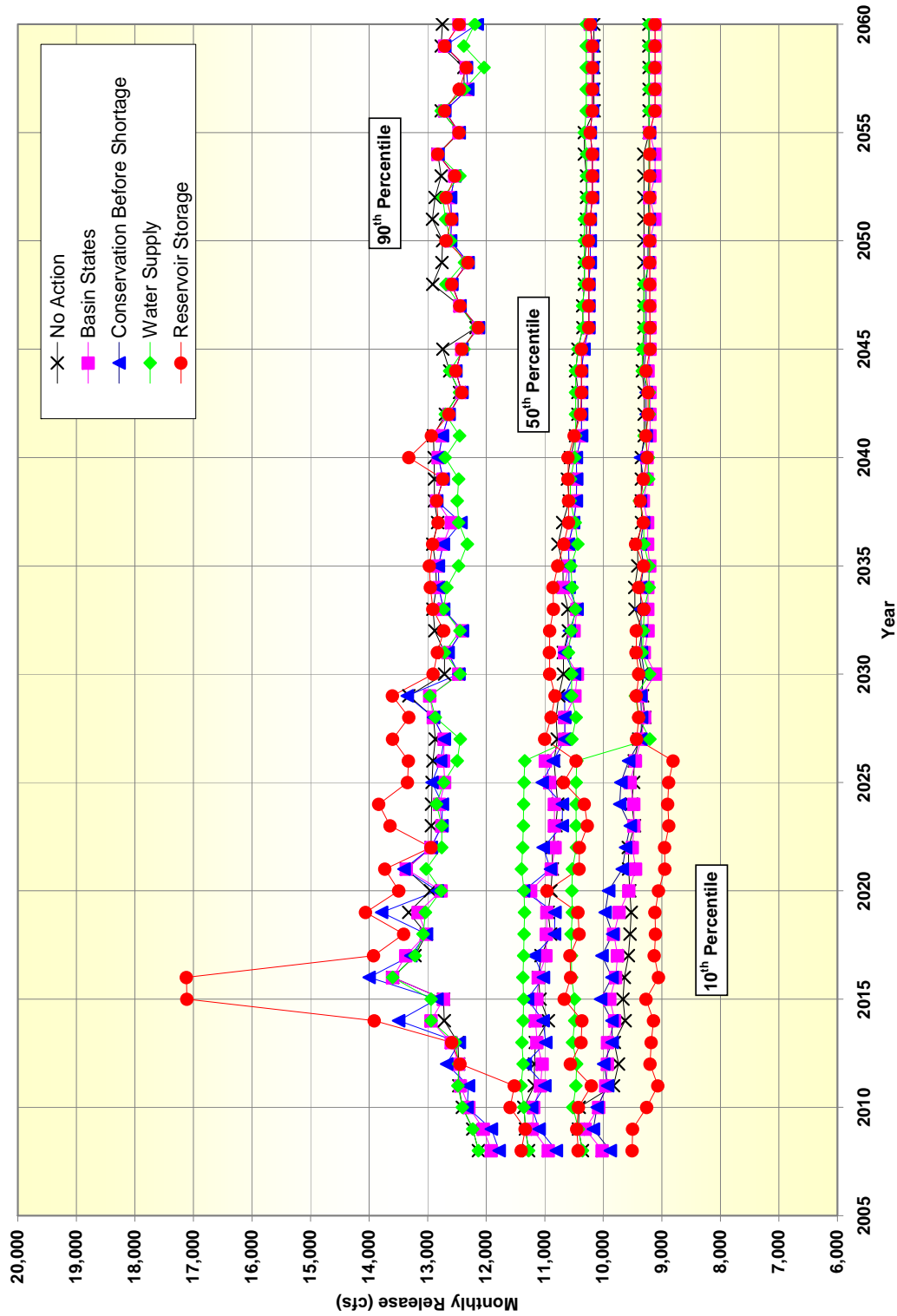


Figure P-47  
Davis Dam November Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

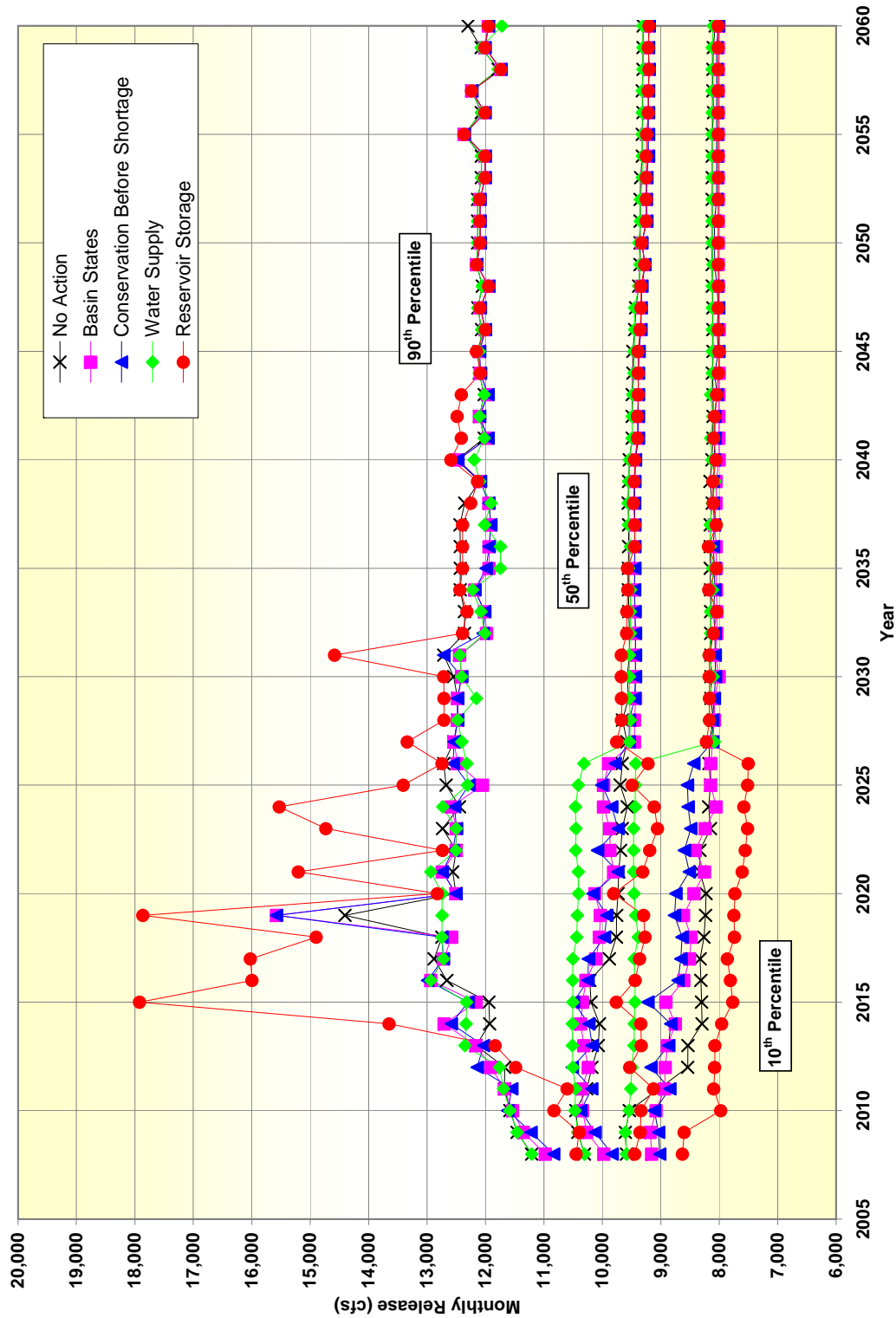


Figure P-48  
 Davis Dam December Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

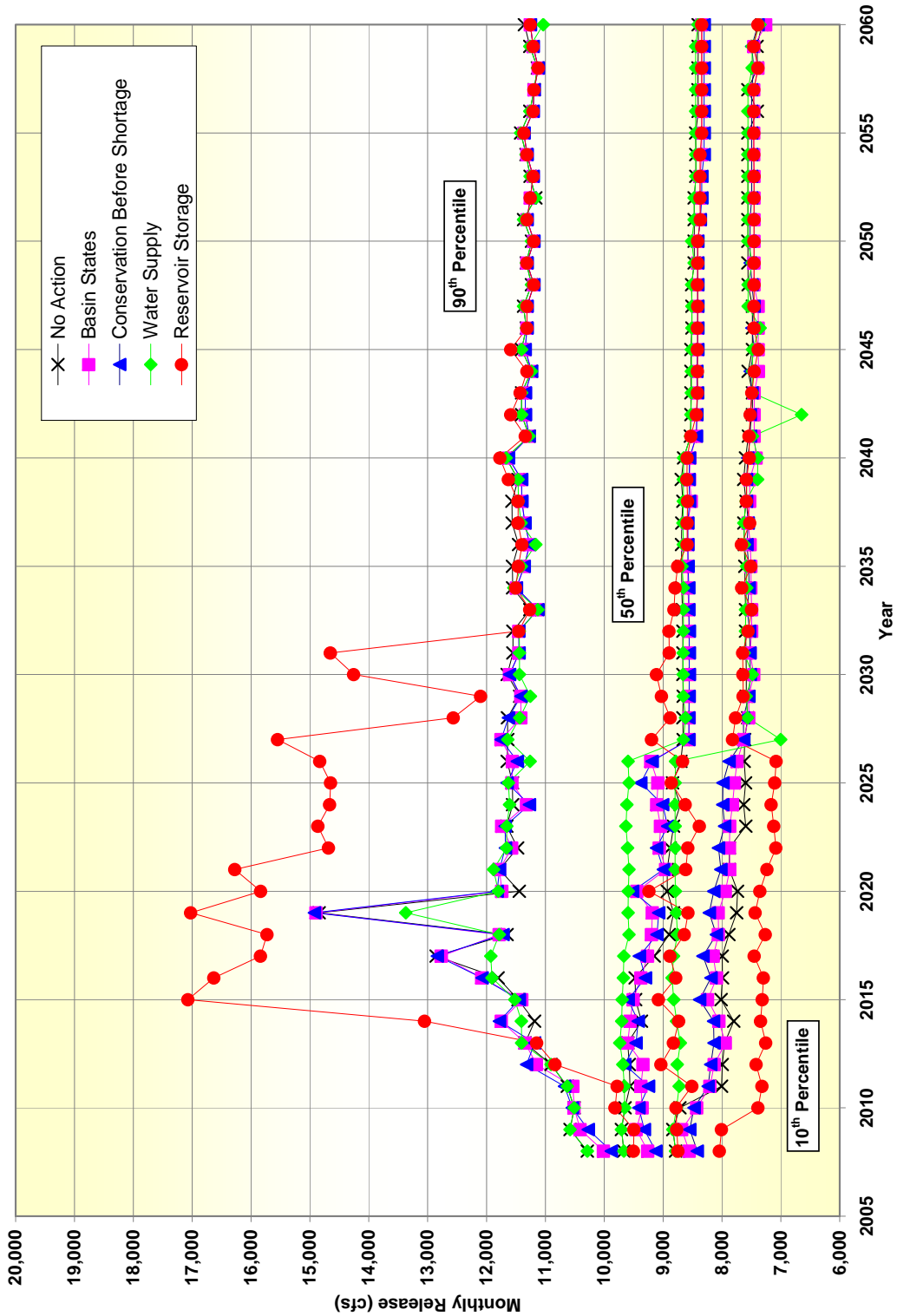


Figure P-49  
Parker Dam January Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

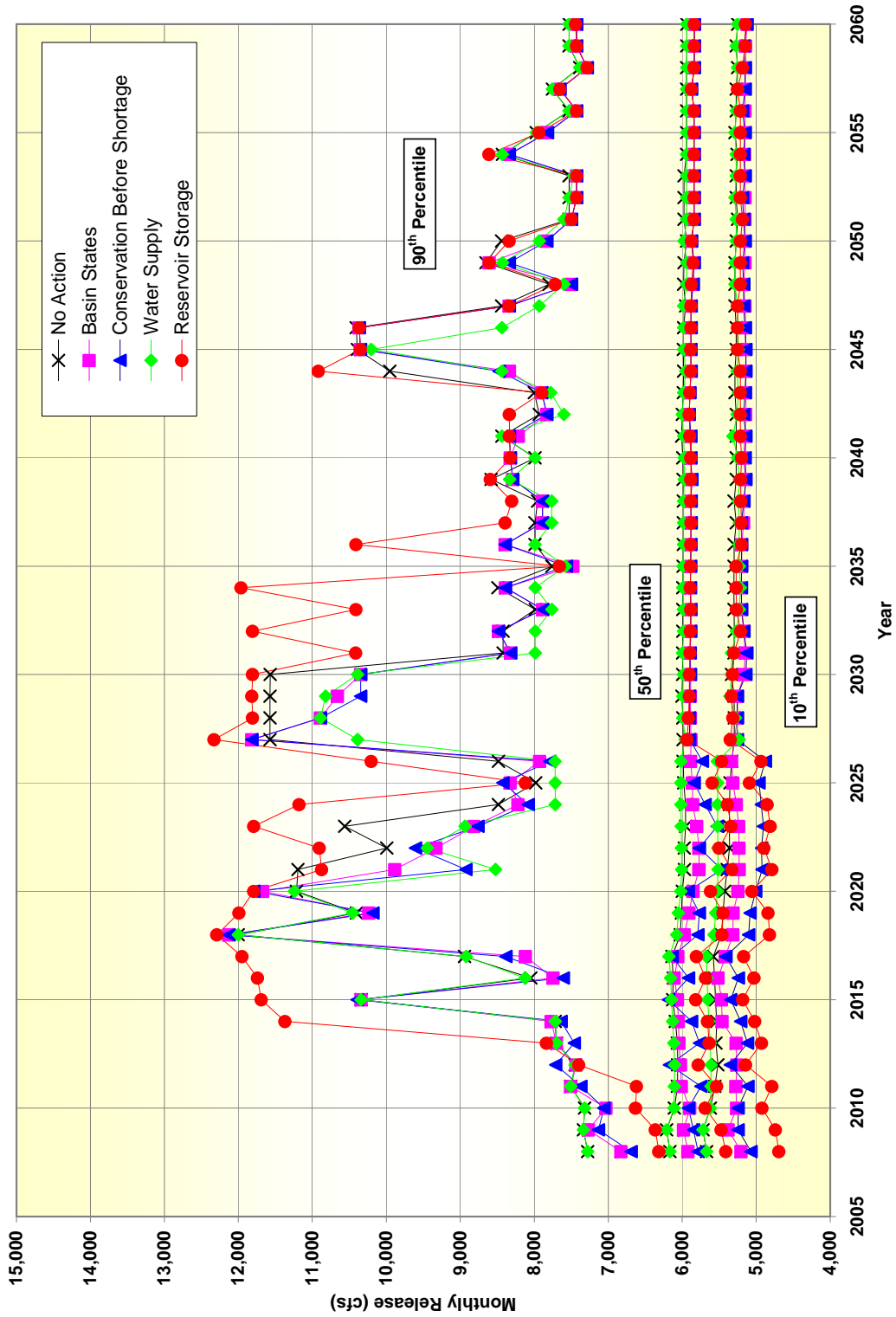


Figure P-50  
 Parker Dam February Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

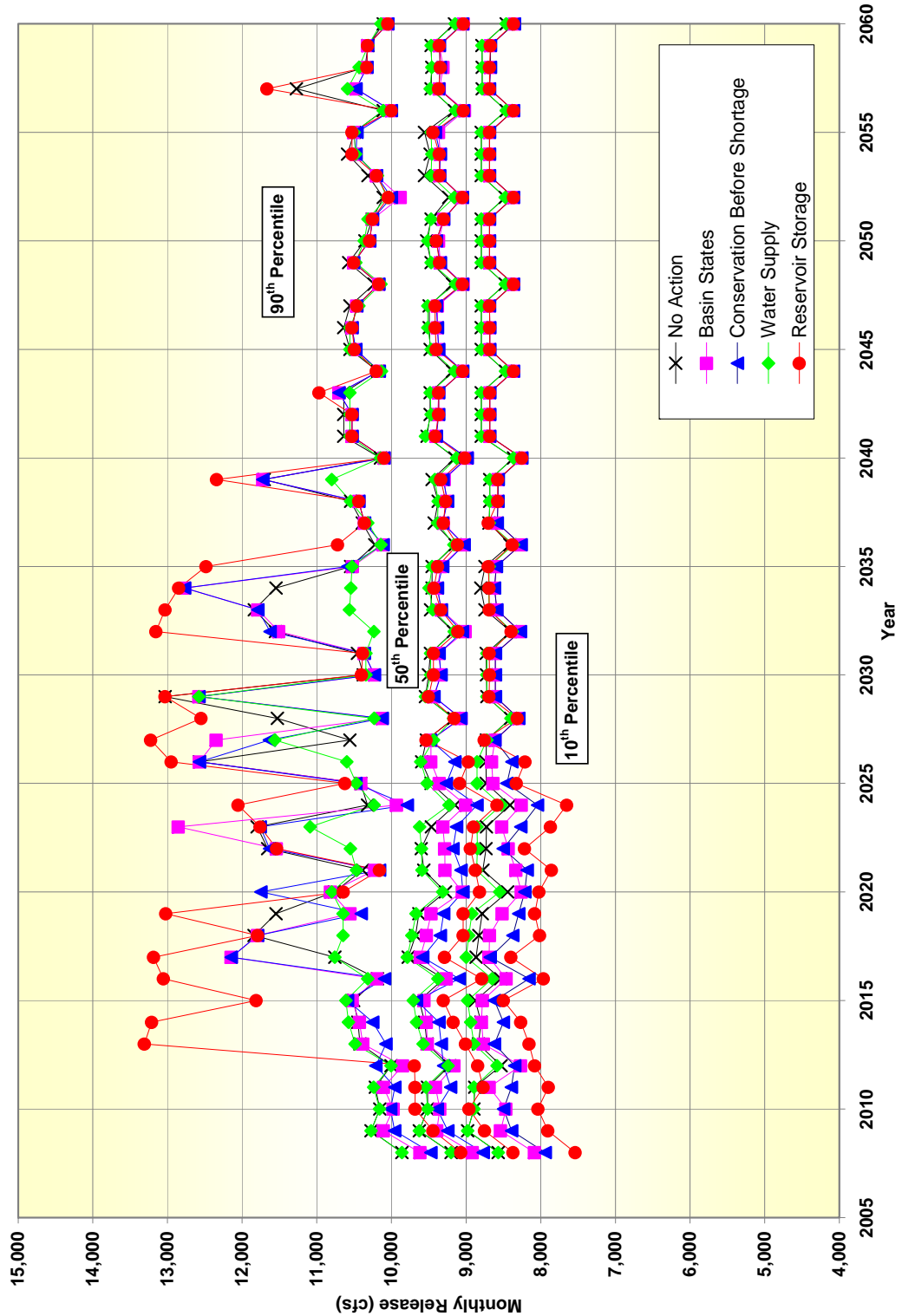


Figure P-51  
Parker Dam March Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

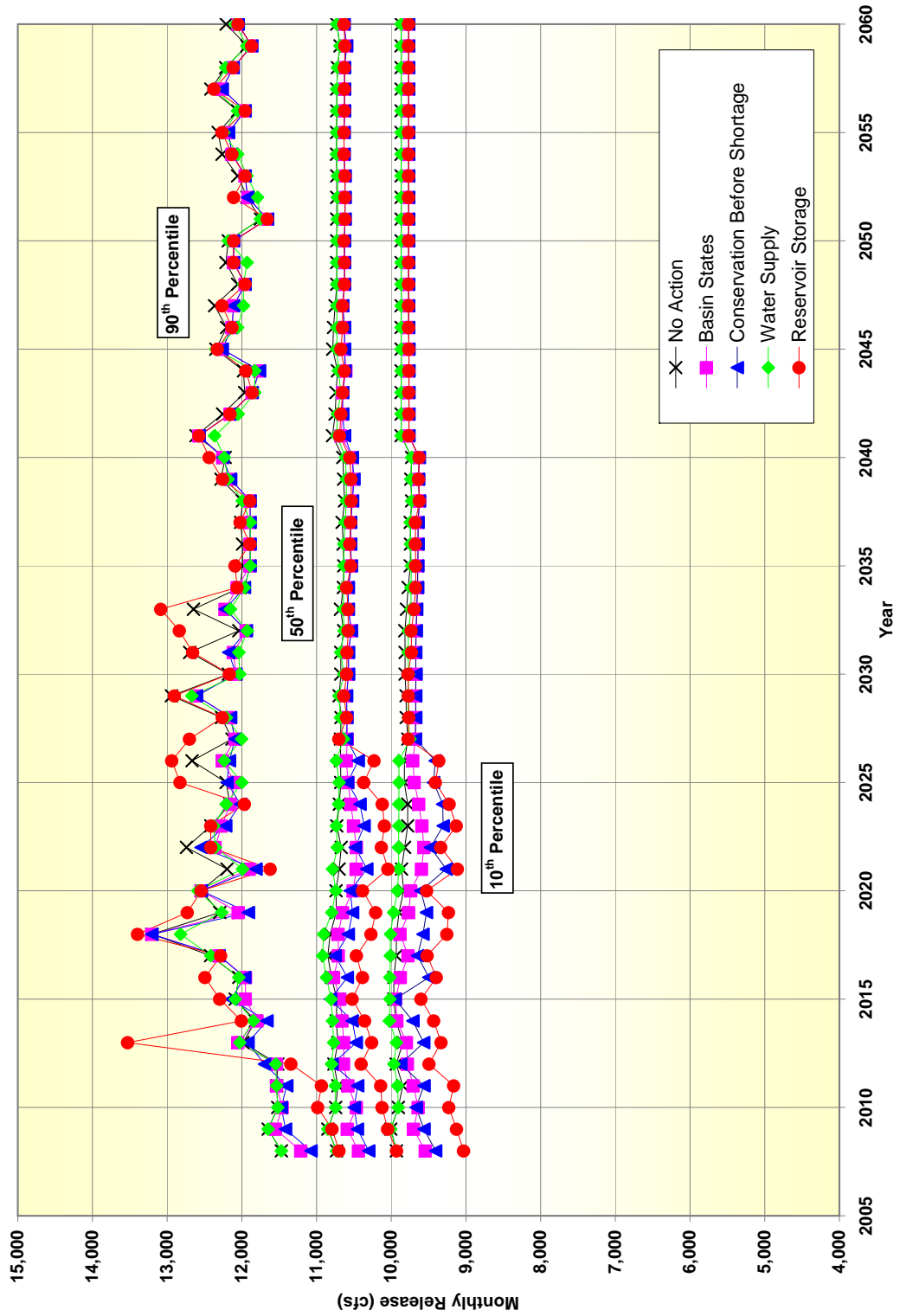




Figure P-52  
 Parker Dam April Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

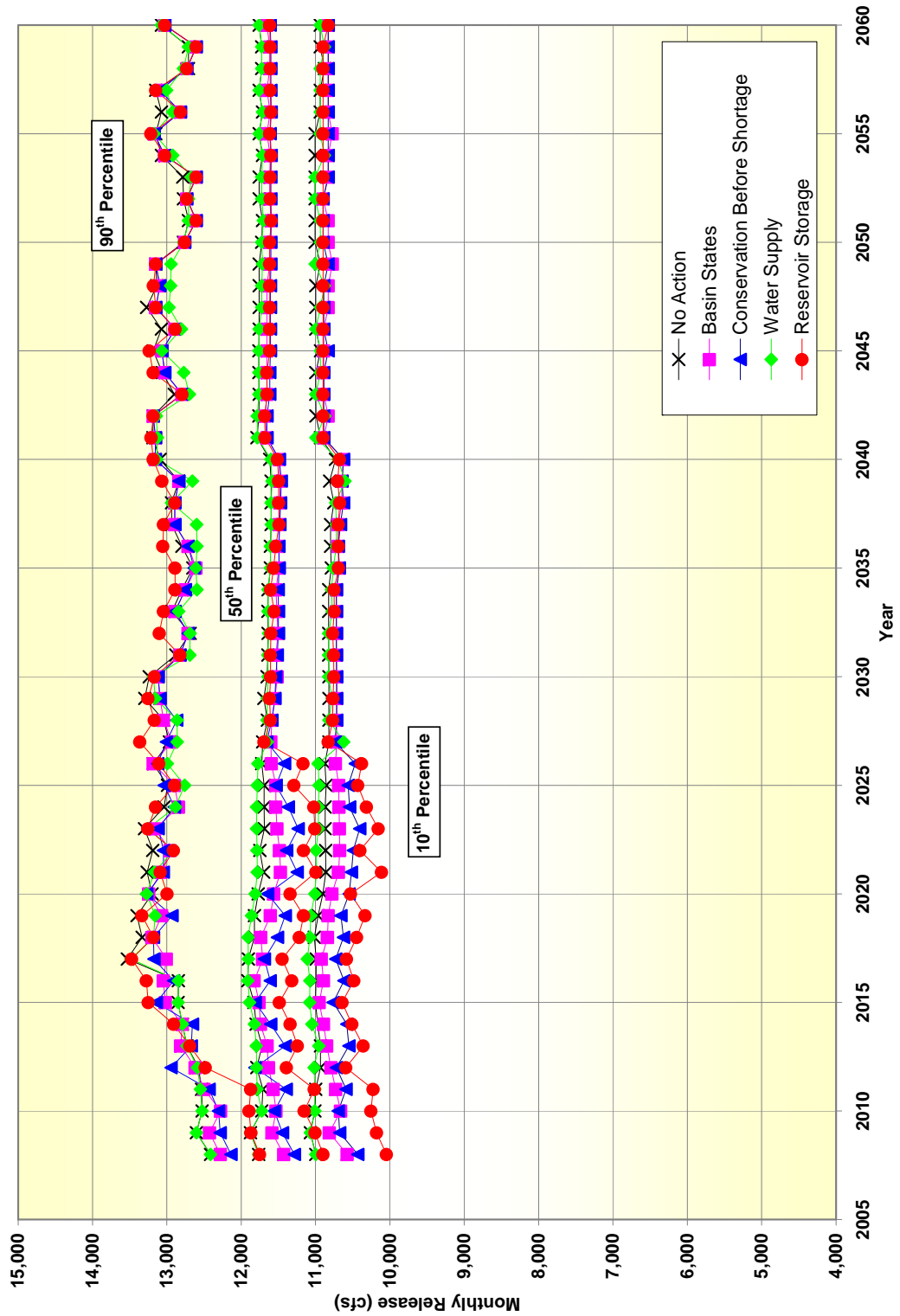


Figure P-53  
Parker Dam May Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

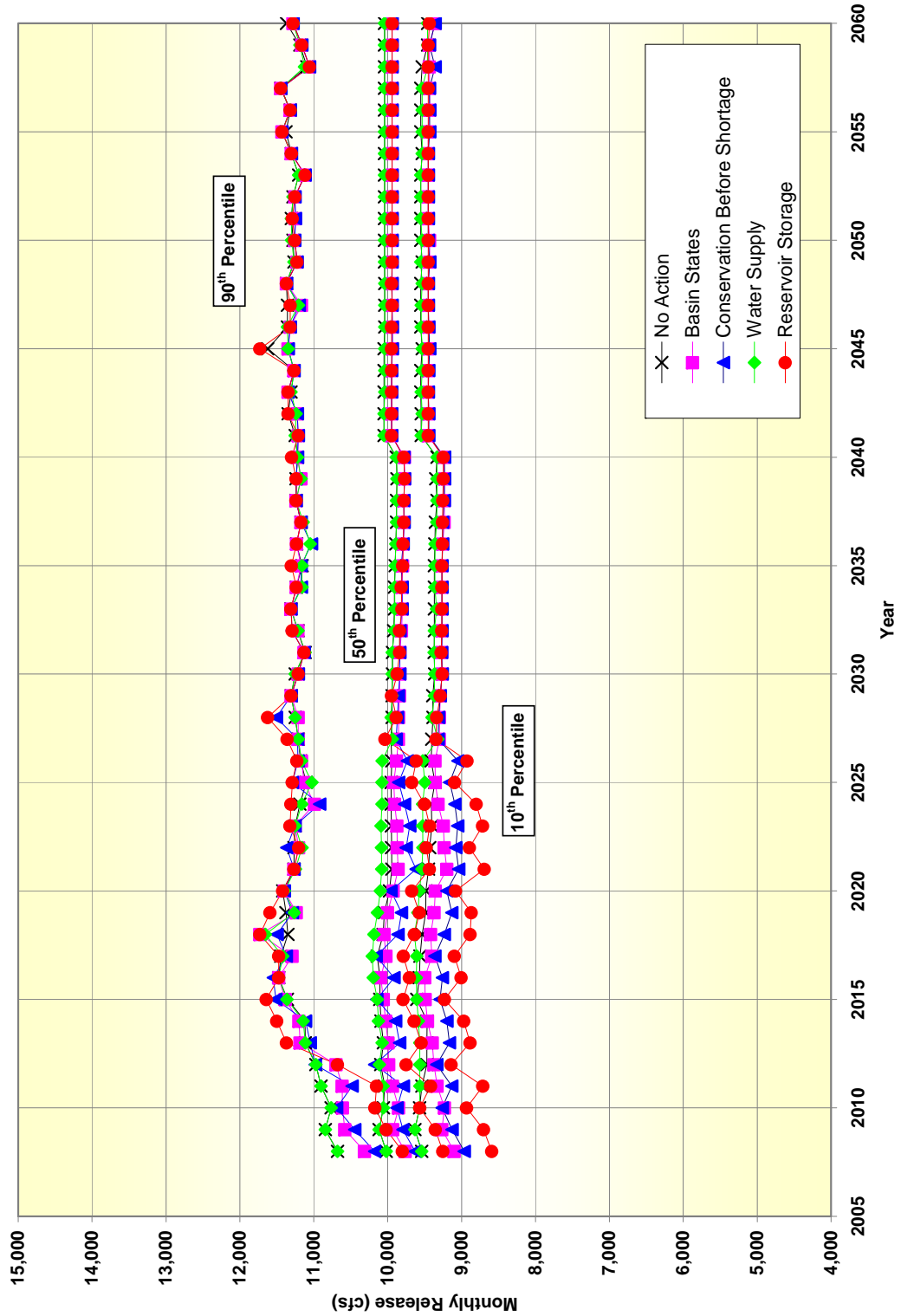


Figure P-54  
 Parker Dam June Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

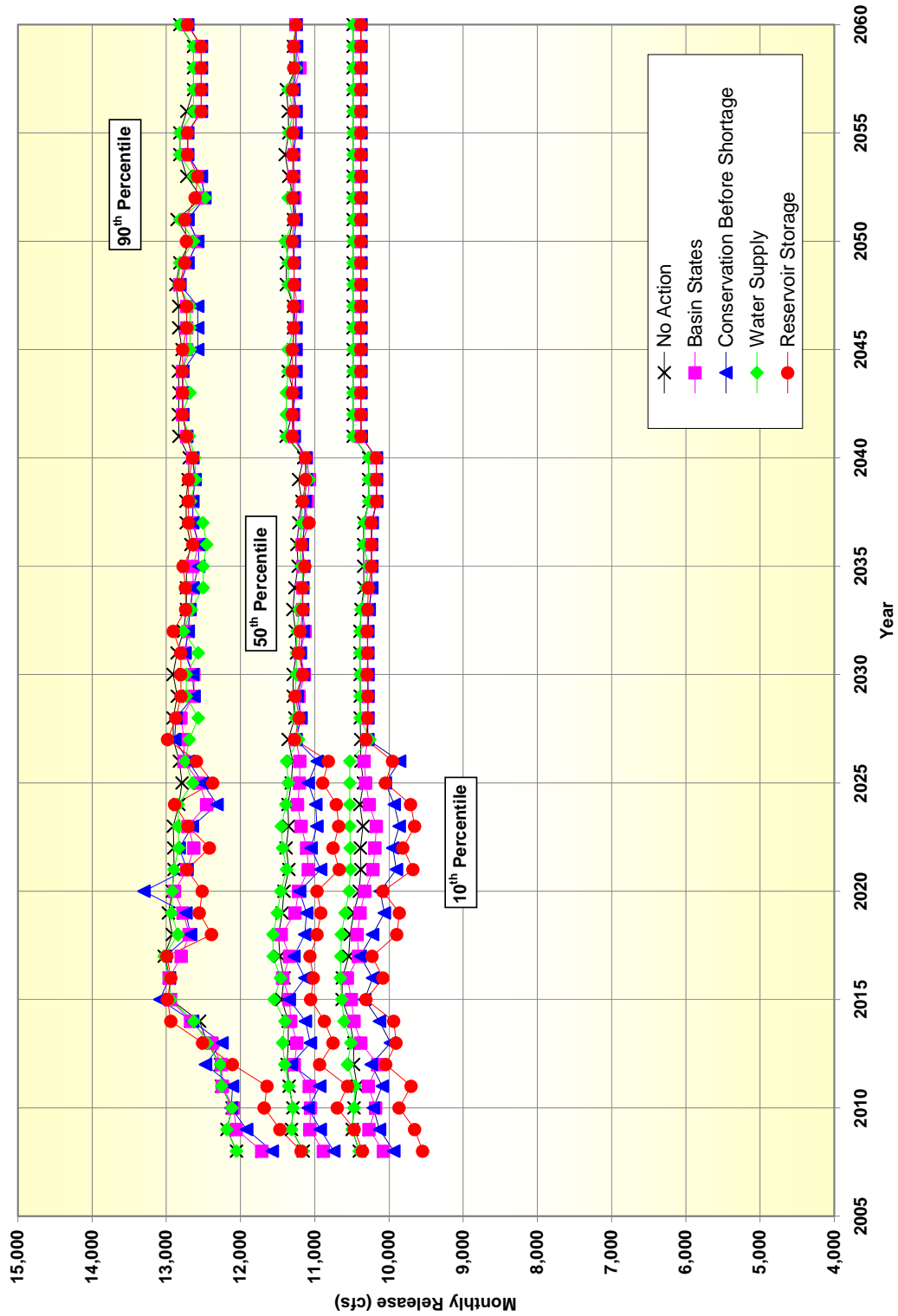


Figure P-55  
Parker Dam July Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

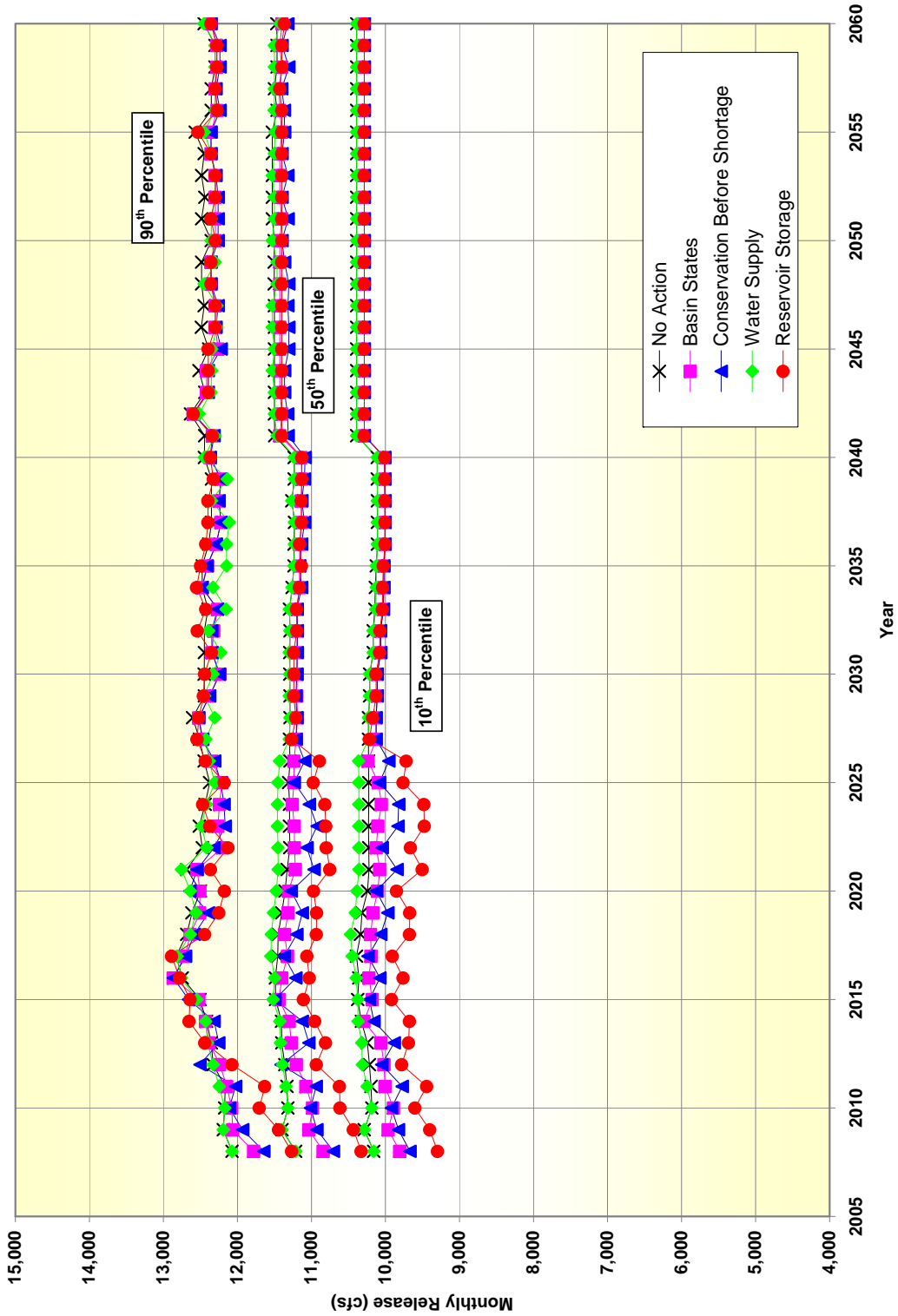


Figure P-56  
 Parker Dam August Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

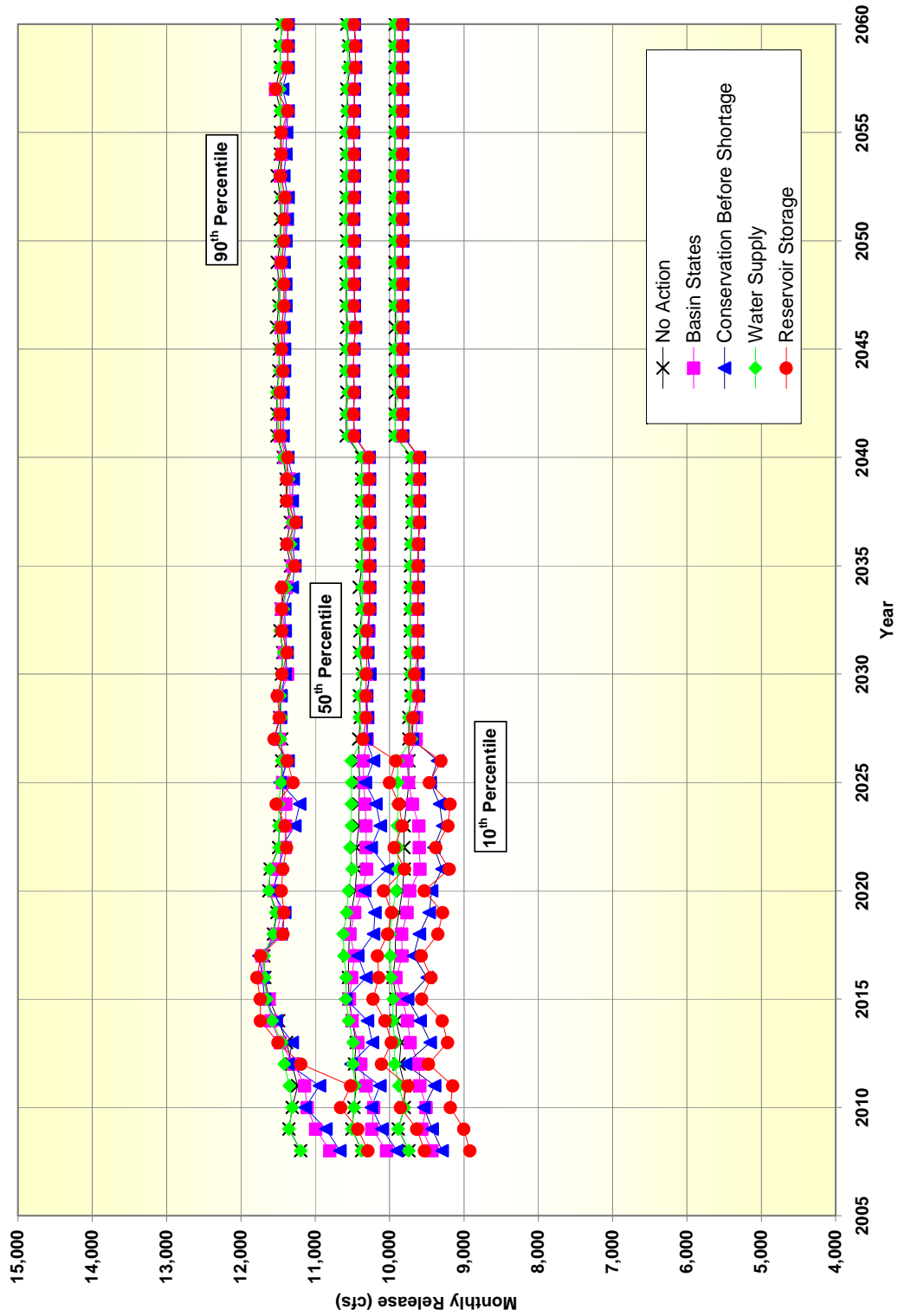


Figure P-57  
Parker Dam September Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

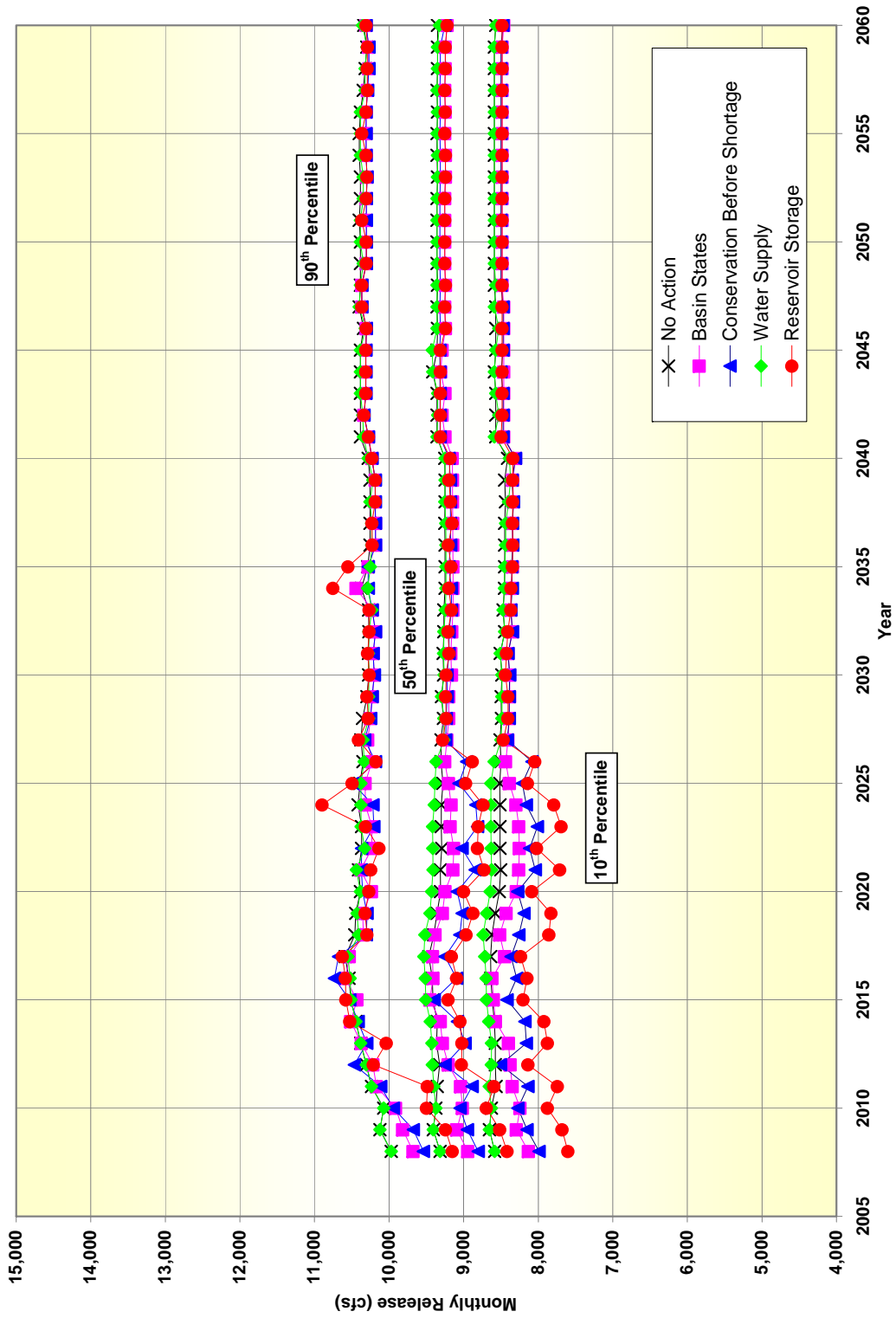


Figure P-58  
 Parker Dam October Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

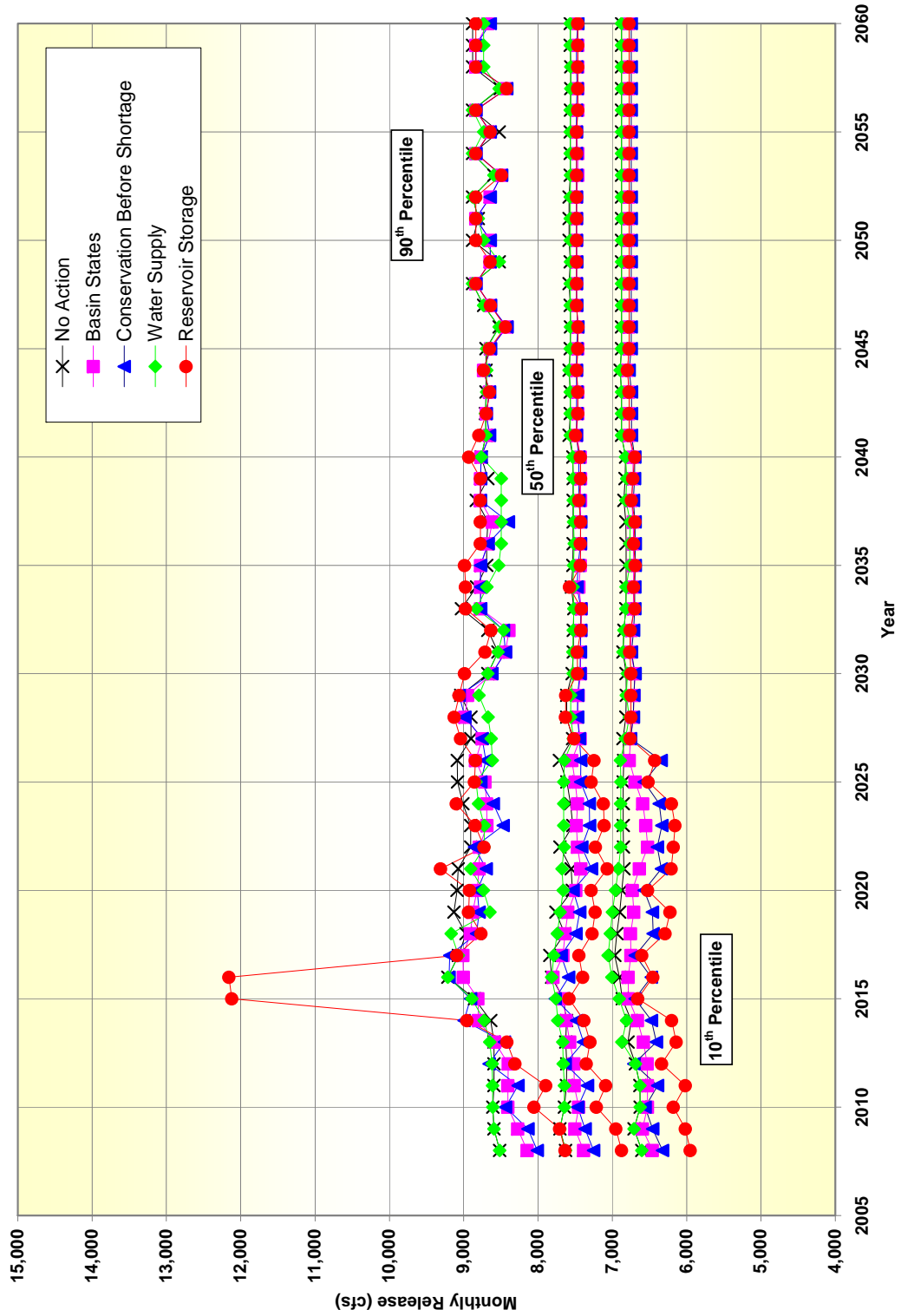


Figure P-59  
Parker Dam November Releases  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

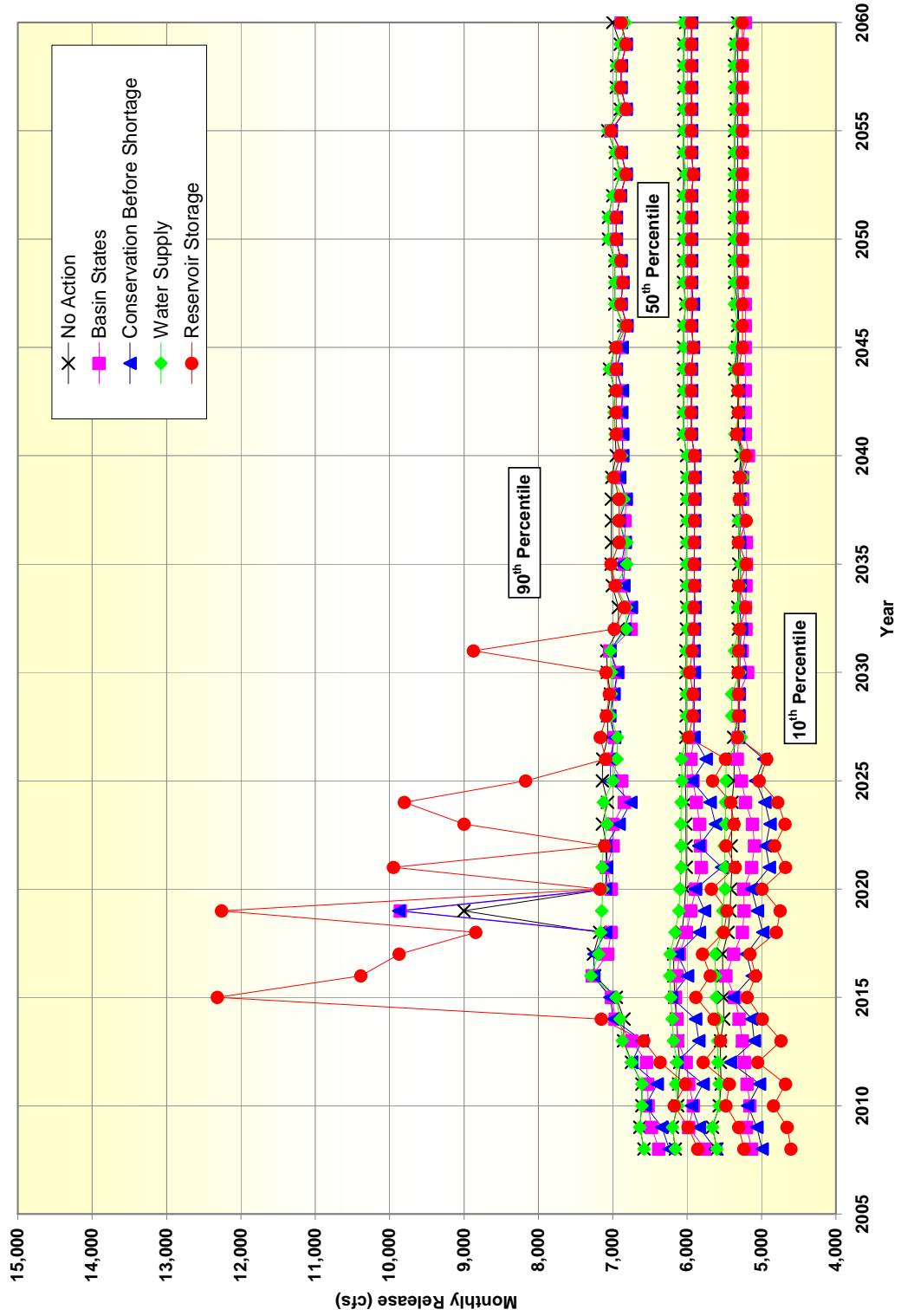




Figure P-60  
 Parker Dam December Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

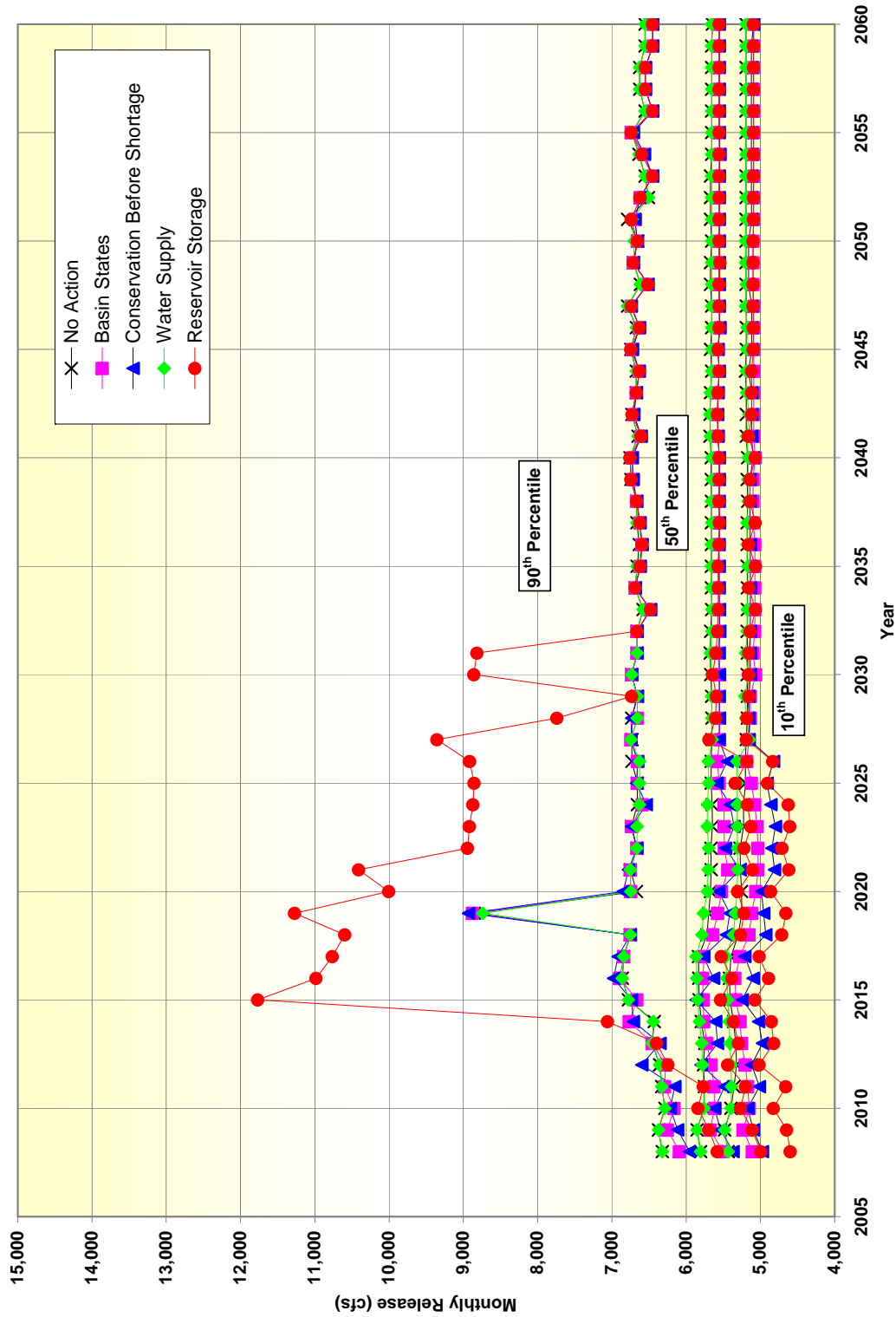


Figure P-61  
 Excess Flows Below Morelos Diversion Dam  
 Comparison of Action Alternatives to No Action Alternative  
 Probability of Occurrence

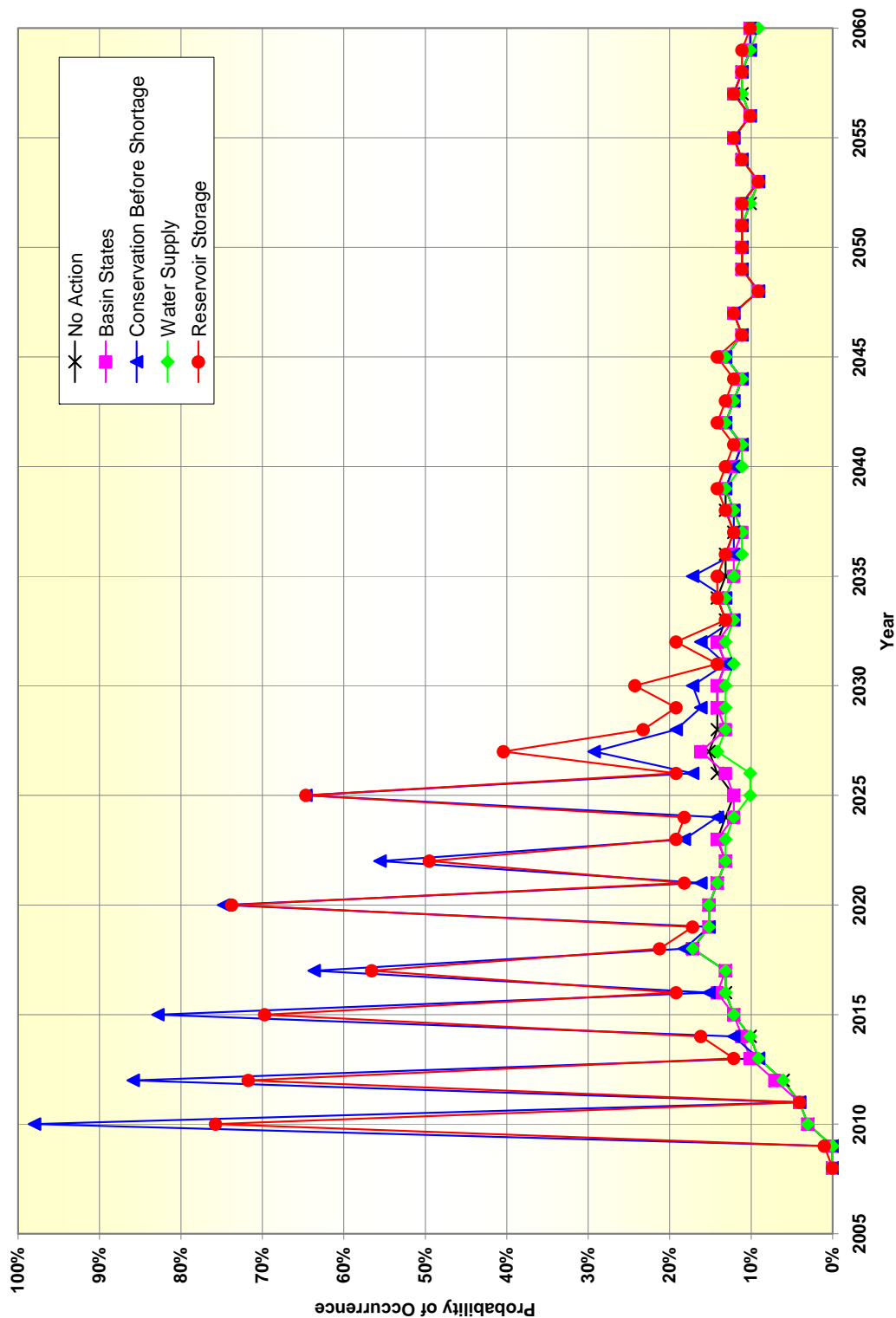


Figure P-62  
 Colorado River at Lees Ferry  
 50<sup>th</sup> Percentile Temperatures  
 Upper and Lower Bound

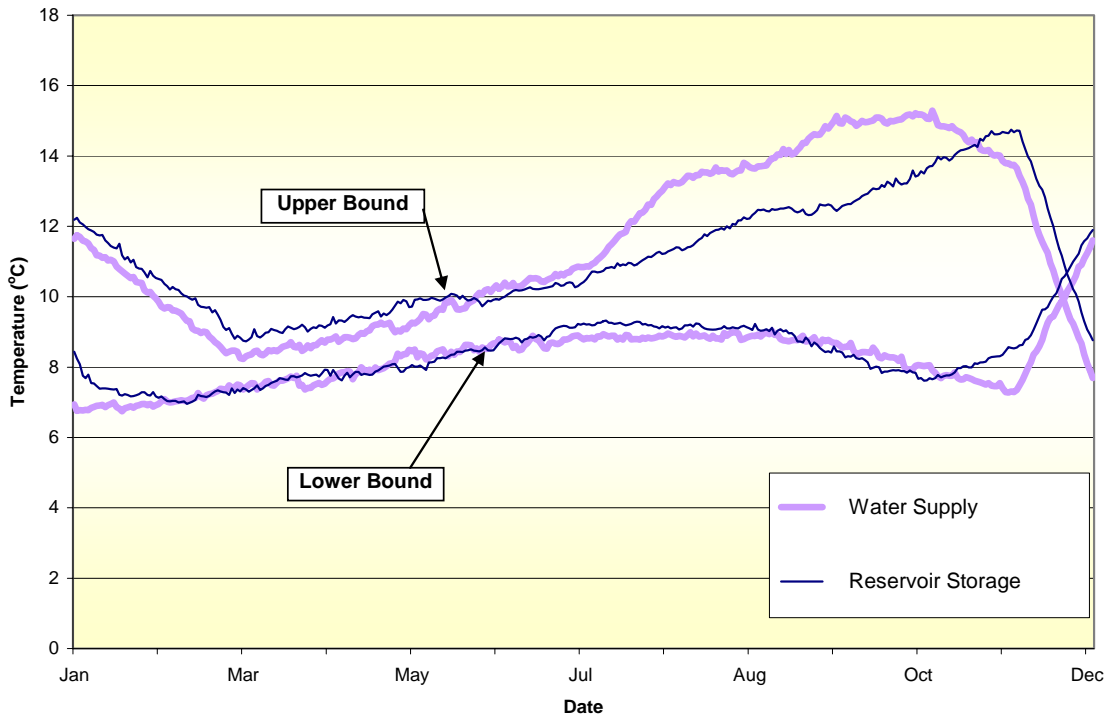
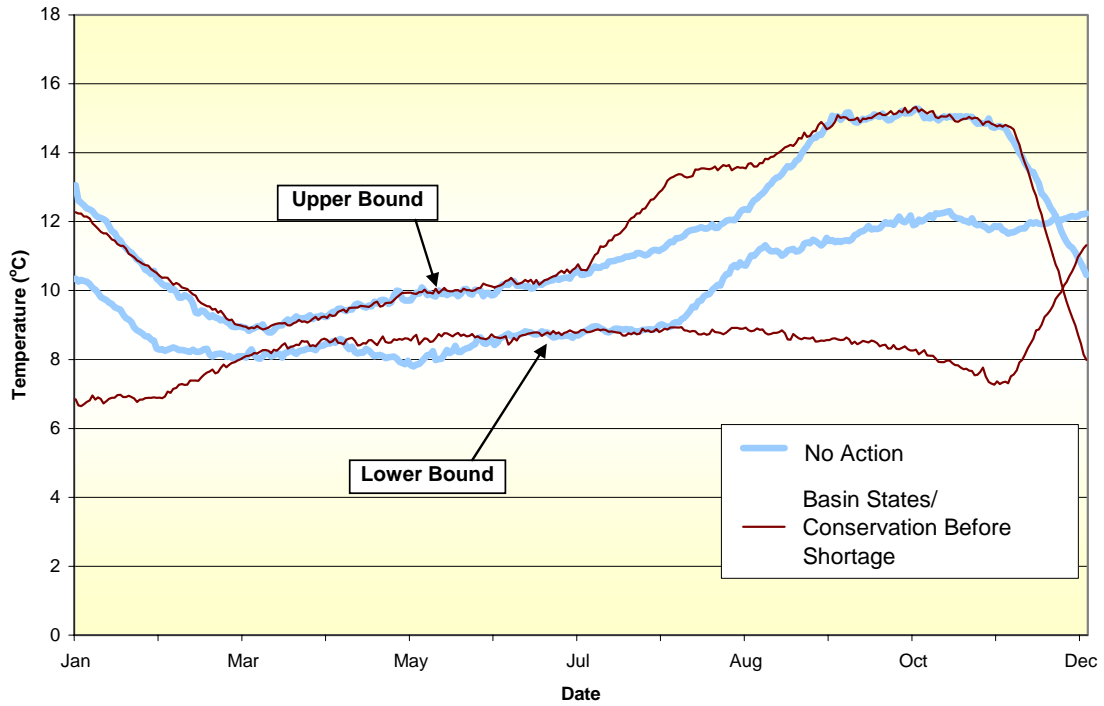


Figure P-63  
Colorado River Below Little Colorado River Confluence  
50<sup>th</sup> Percentile Temperatures  
Upper and Lower Bound

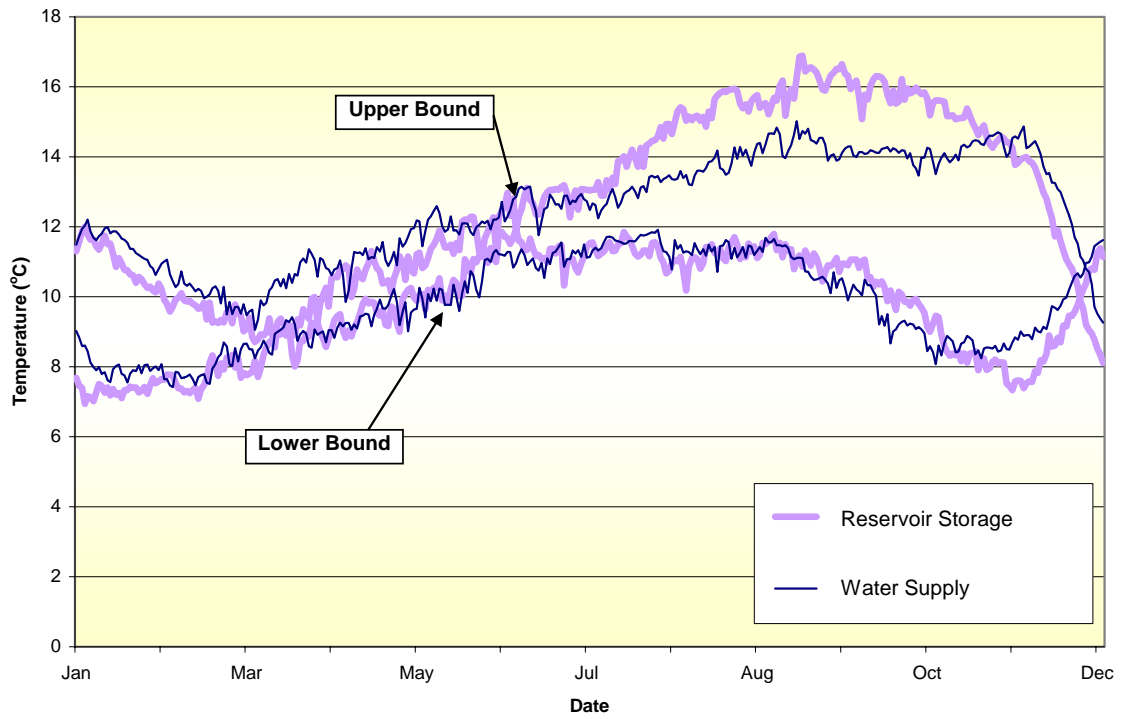
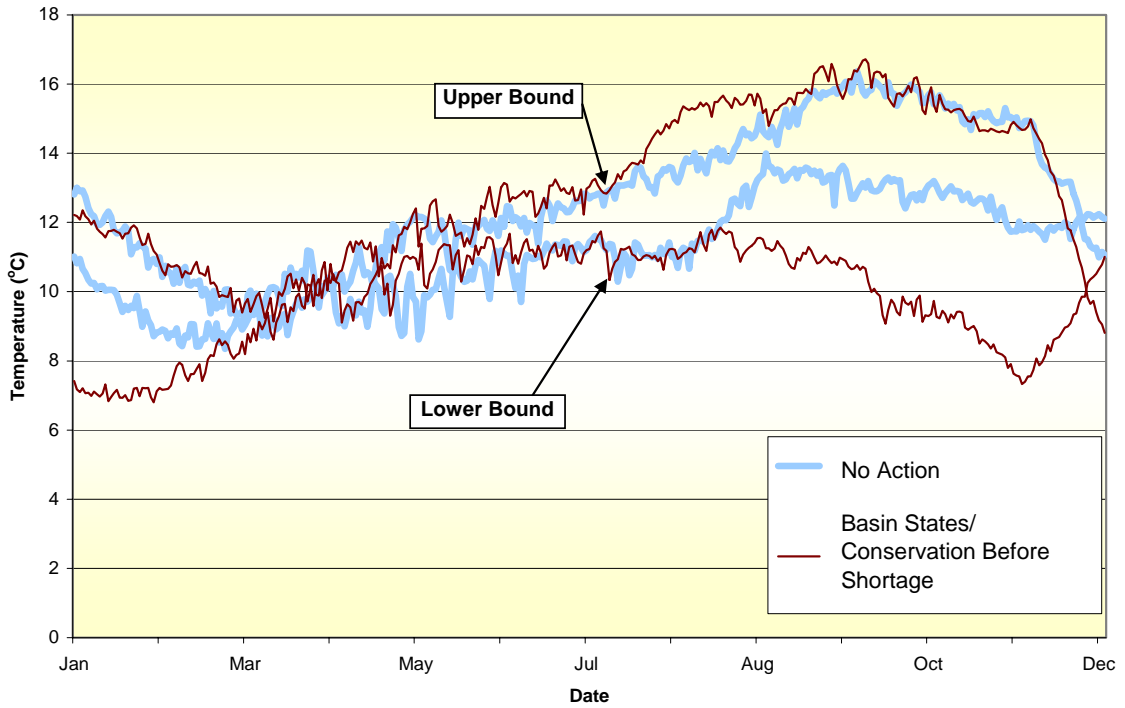


Figure P-64  
 Colorado River Near Diamond Creek  
 50<sup>th</sup> Percentile Temperatures  
 Upper and Lower Bound

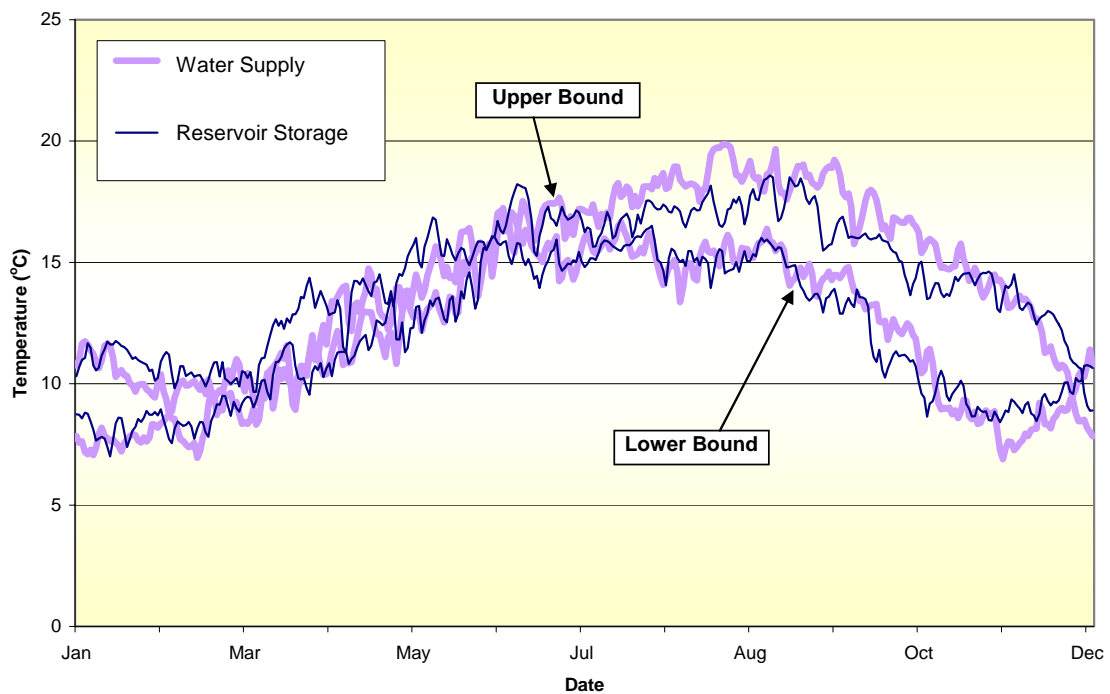
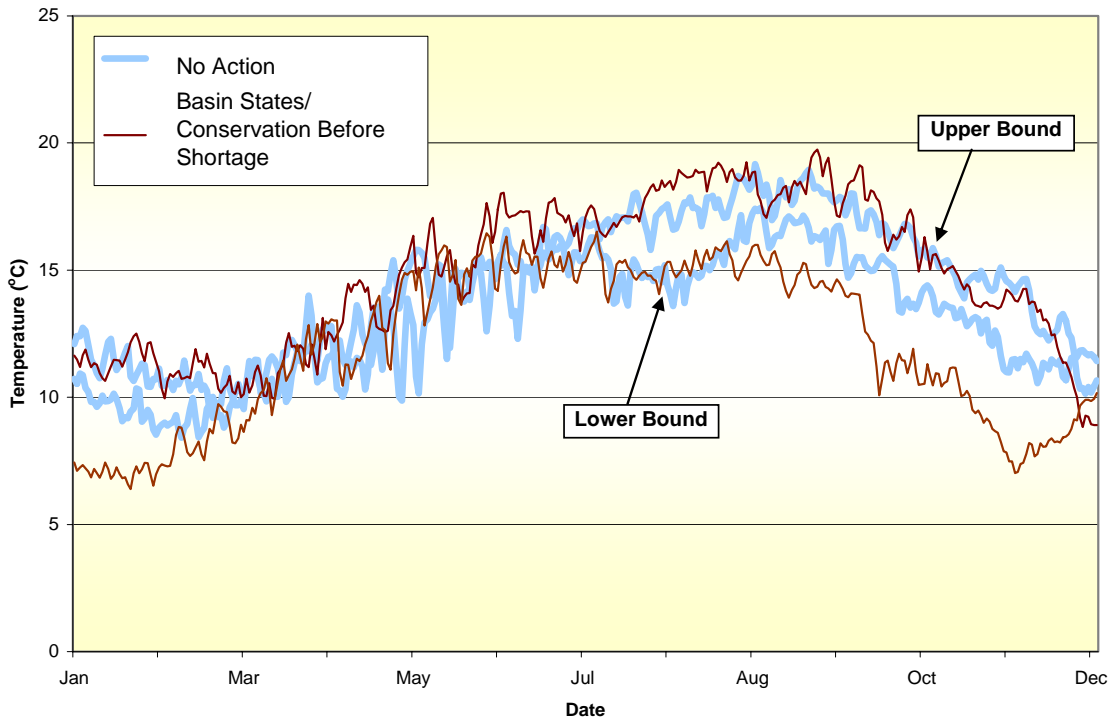


Figure P-65  
 Colorado River at Lees Ferry  
 10<sup>th</sup> Percentile Temperatures  
 Upper and Lower Bound

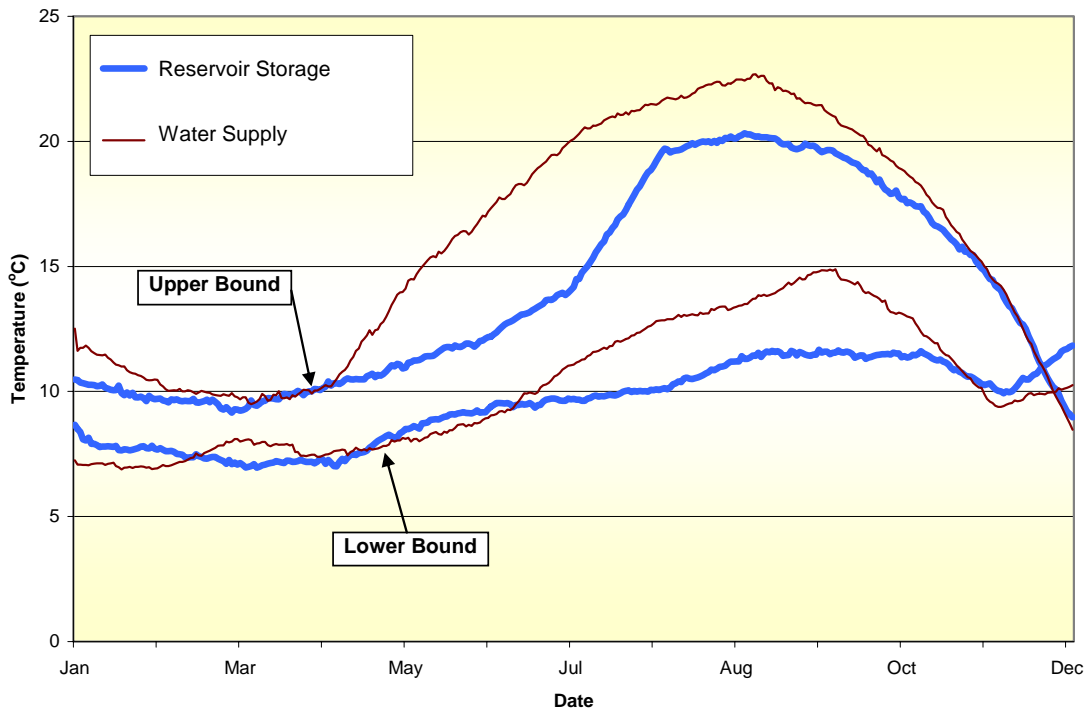
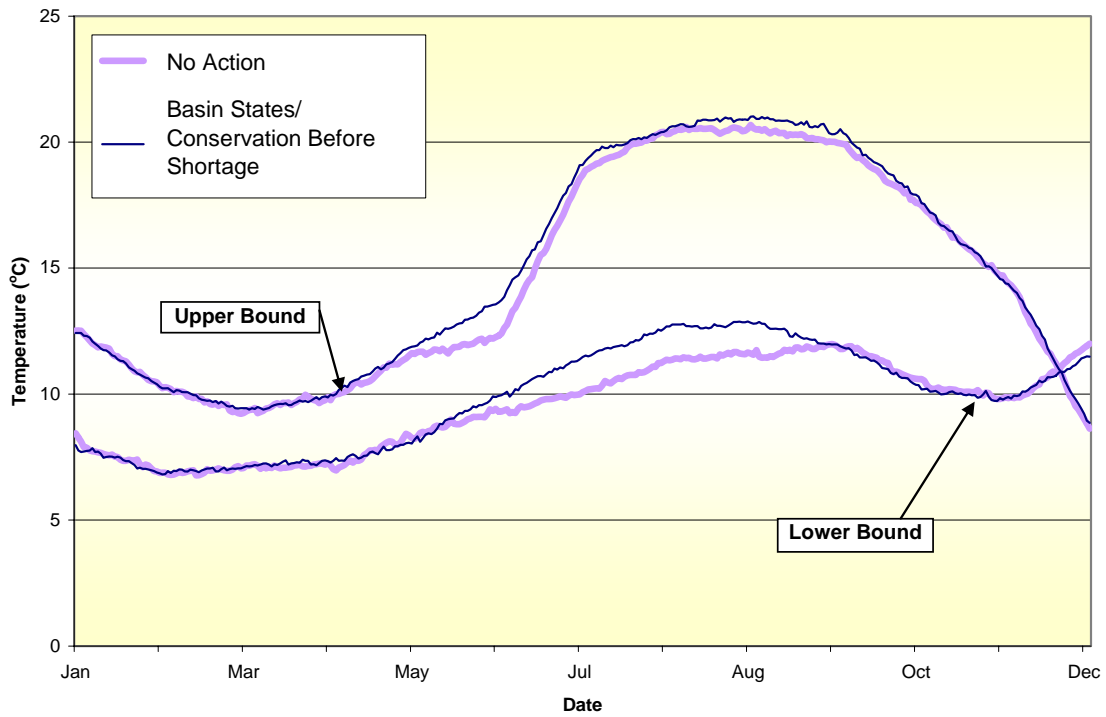


Figure P-66  
 Colorado River Below Little Colorado River Confluence  
 10<sup>th</sup> Percentile Temperatures  
 Upper and Lower Bound

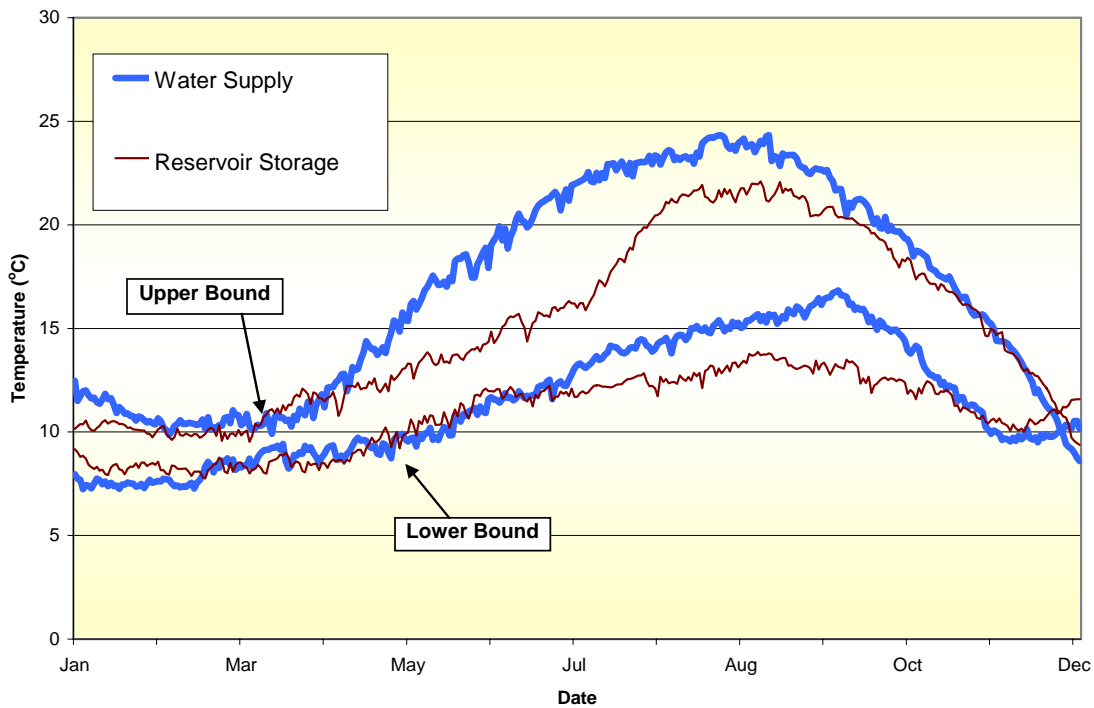
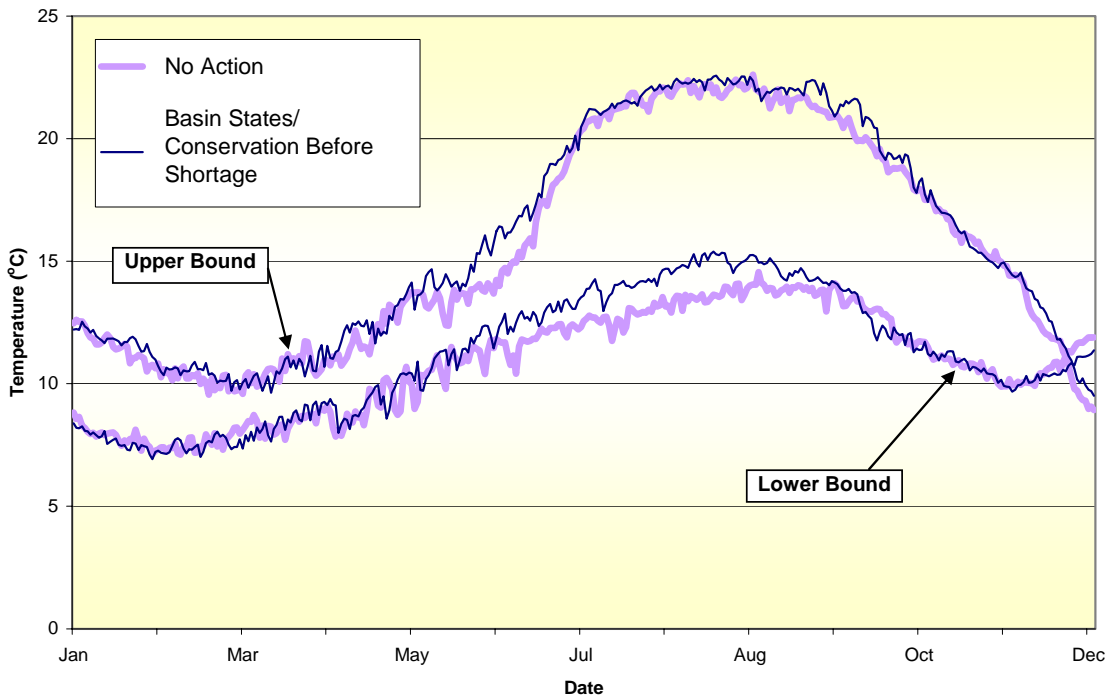


Figure P-67  
Colorado River Near Diamond Creek  
10<sup>th</sup> Percentile Temperatures  
Upper and Lower Bound

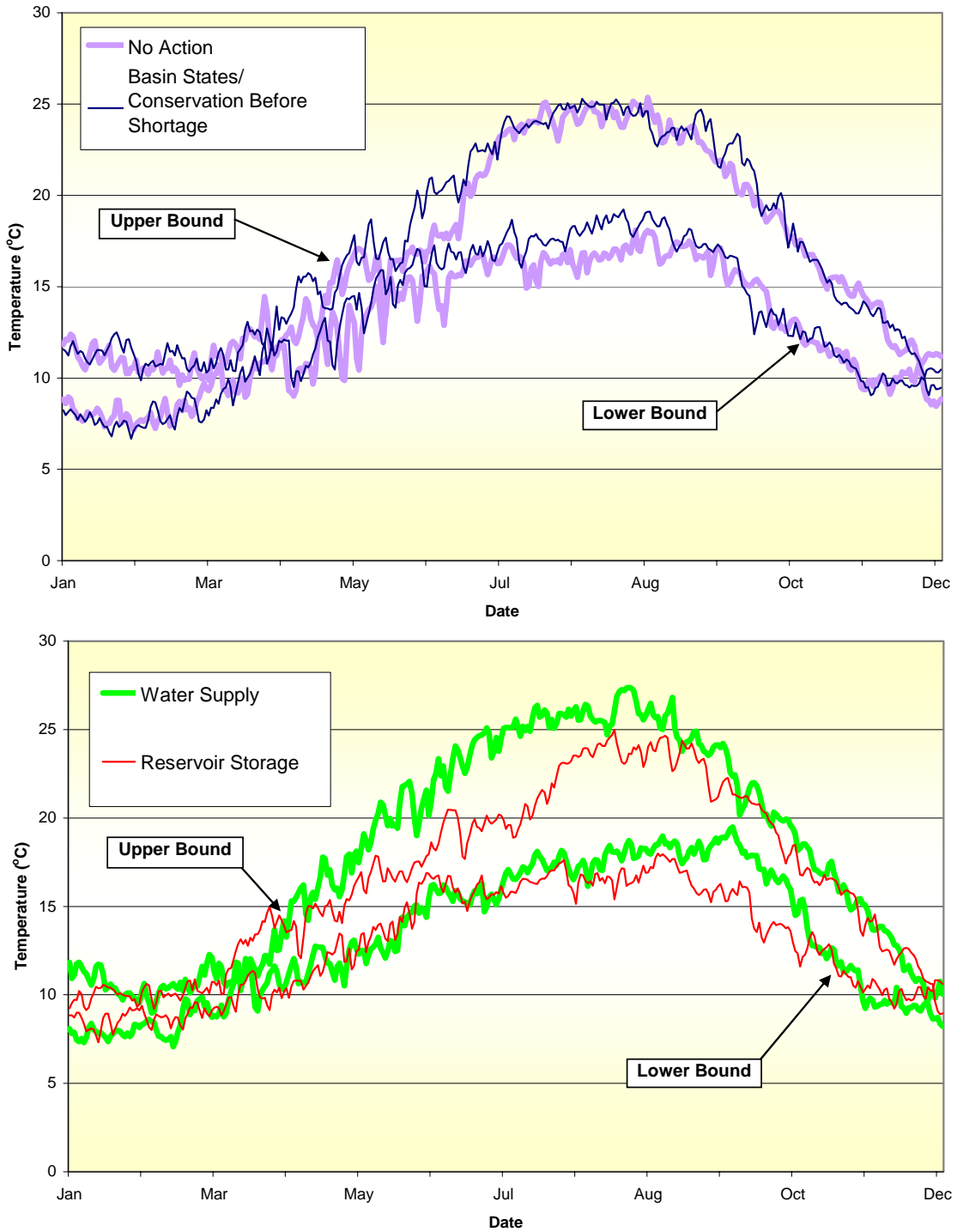




Figure P-68  
Colorado River at Lees Ferry  
Under No Action Alternative  
Min and Max Temperature Bounds

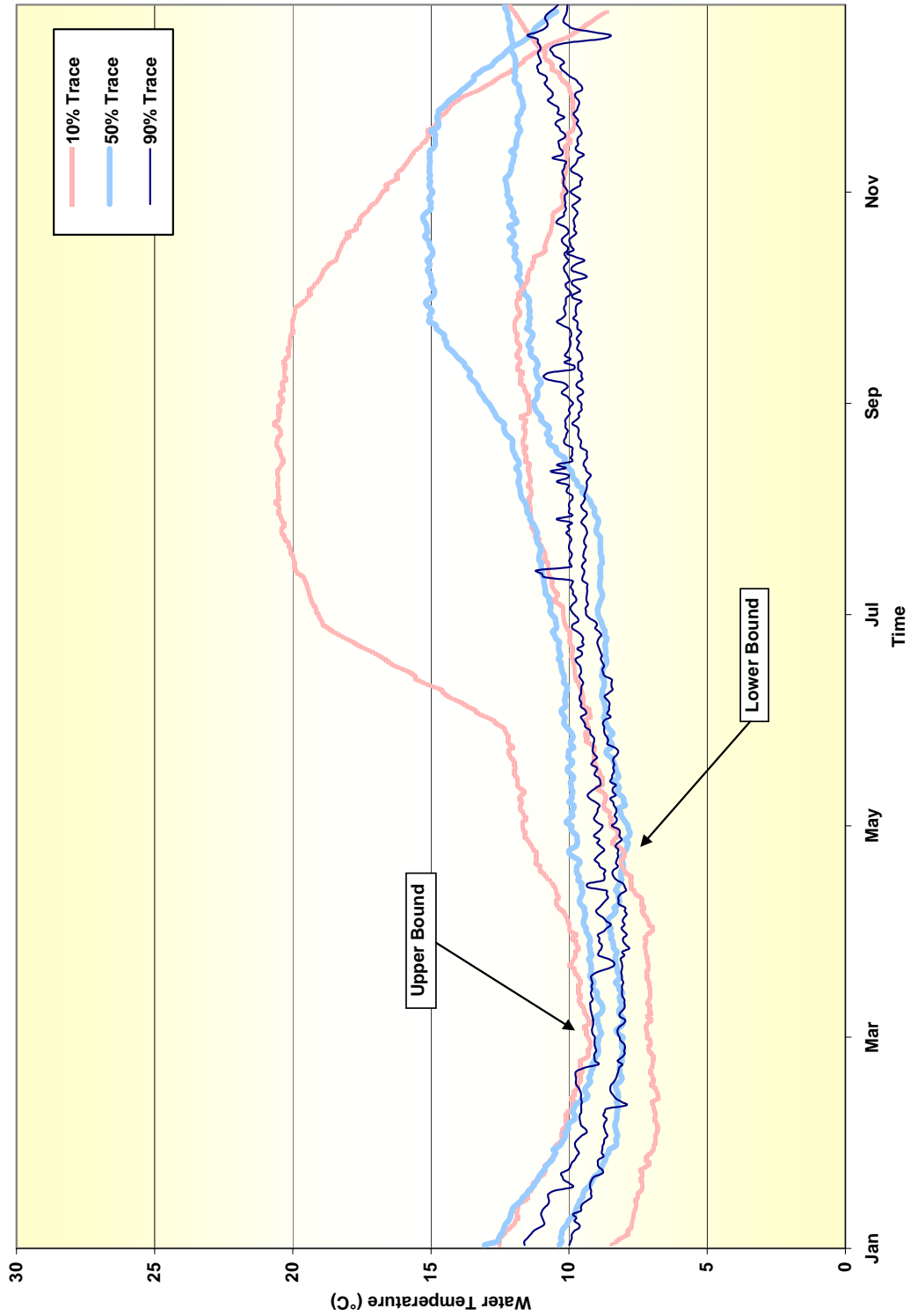


Figure P-69  
Colorado River Below Little Colorado River Confluence  
Under No Action Alternative  
Min and Max Temperature Bounds

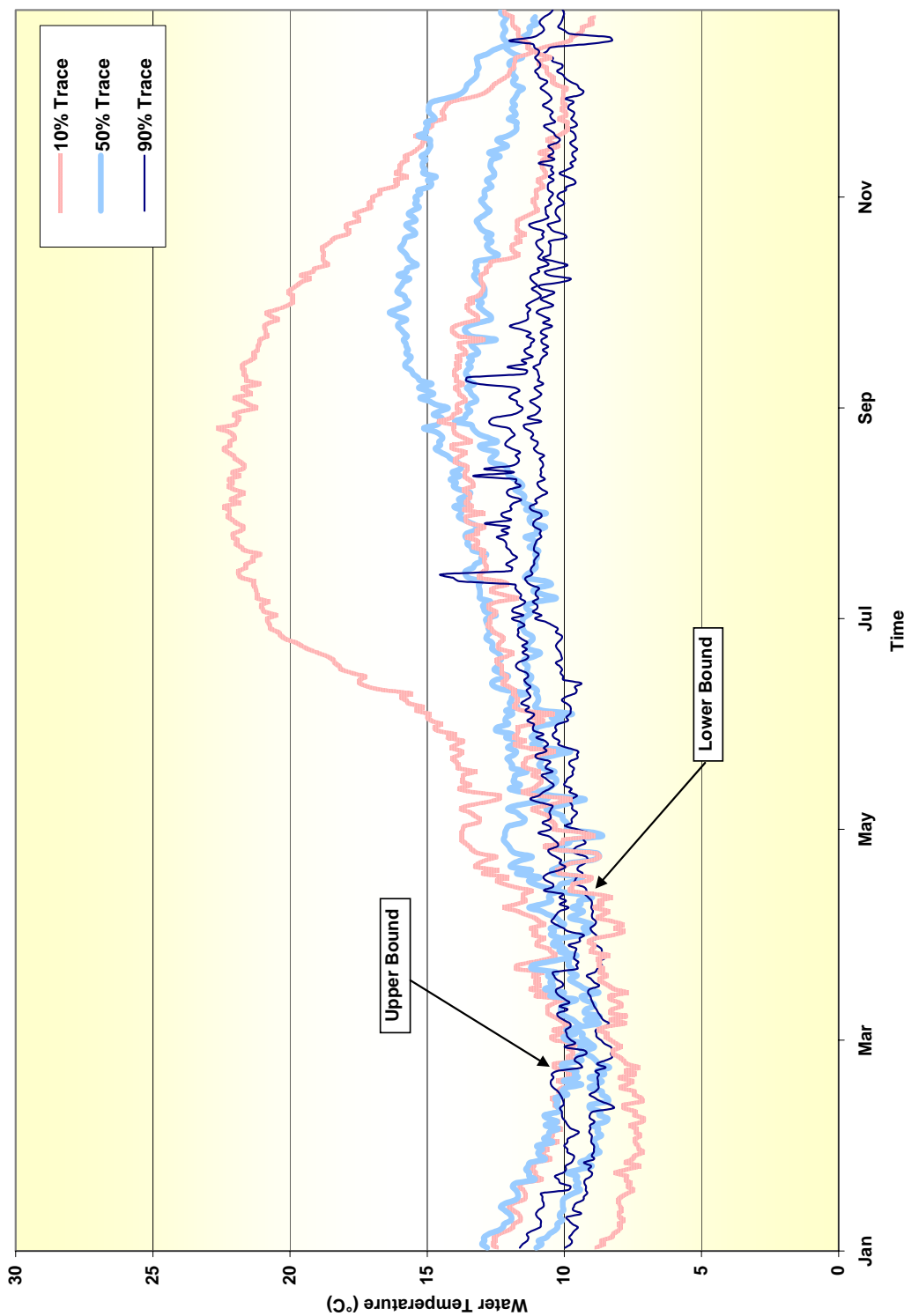


Figure P-70  
Colorado River Near Diamond Creek  
Under No Action Alternative  
Min and Max Temperature Bounds

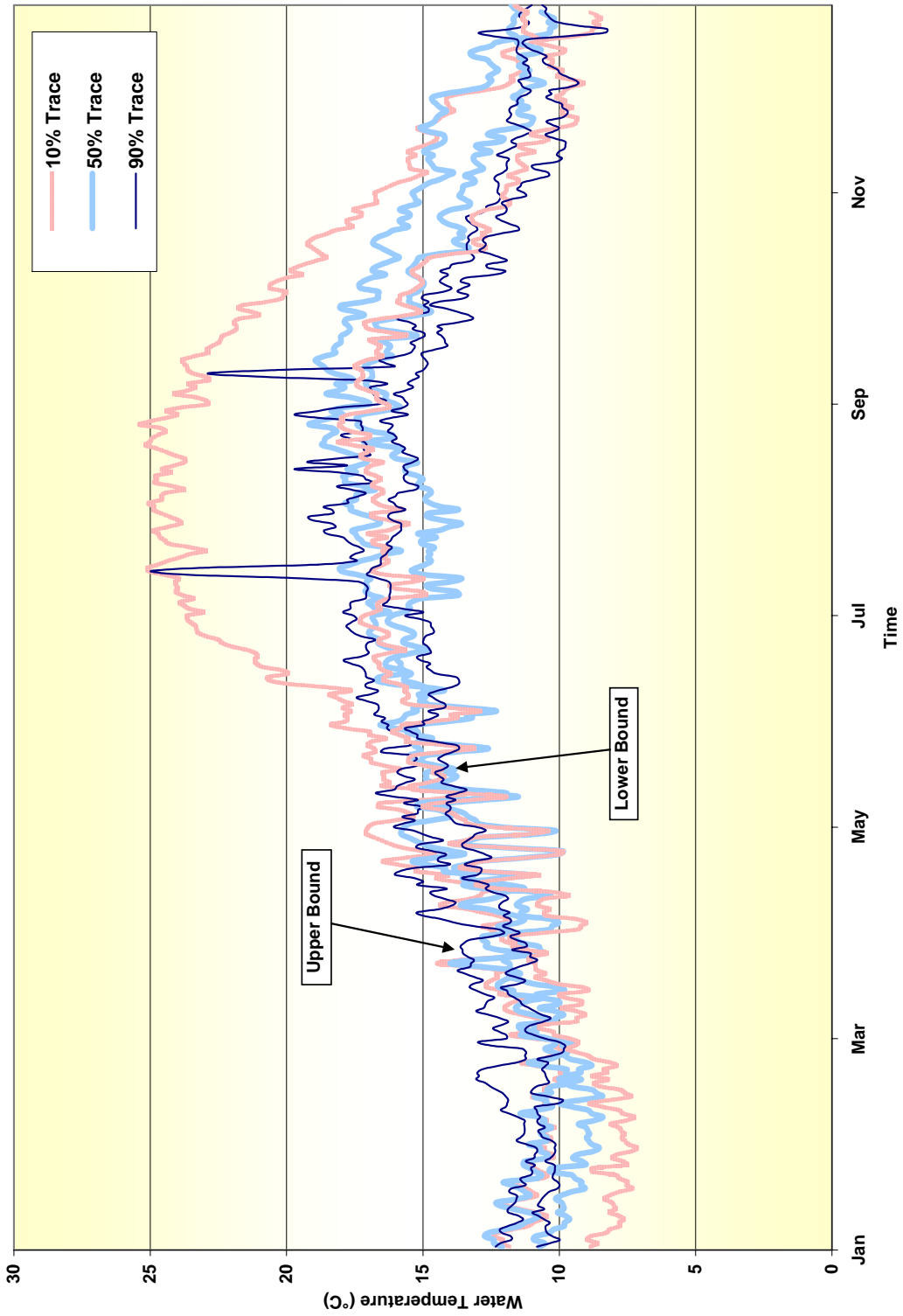


Figure P-71  
Colorado River at Lees Ferry  
Under Basin States and Conservation Before Shortage Alternative  
Min and Max Temperature Bounds

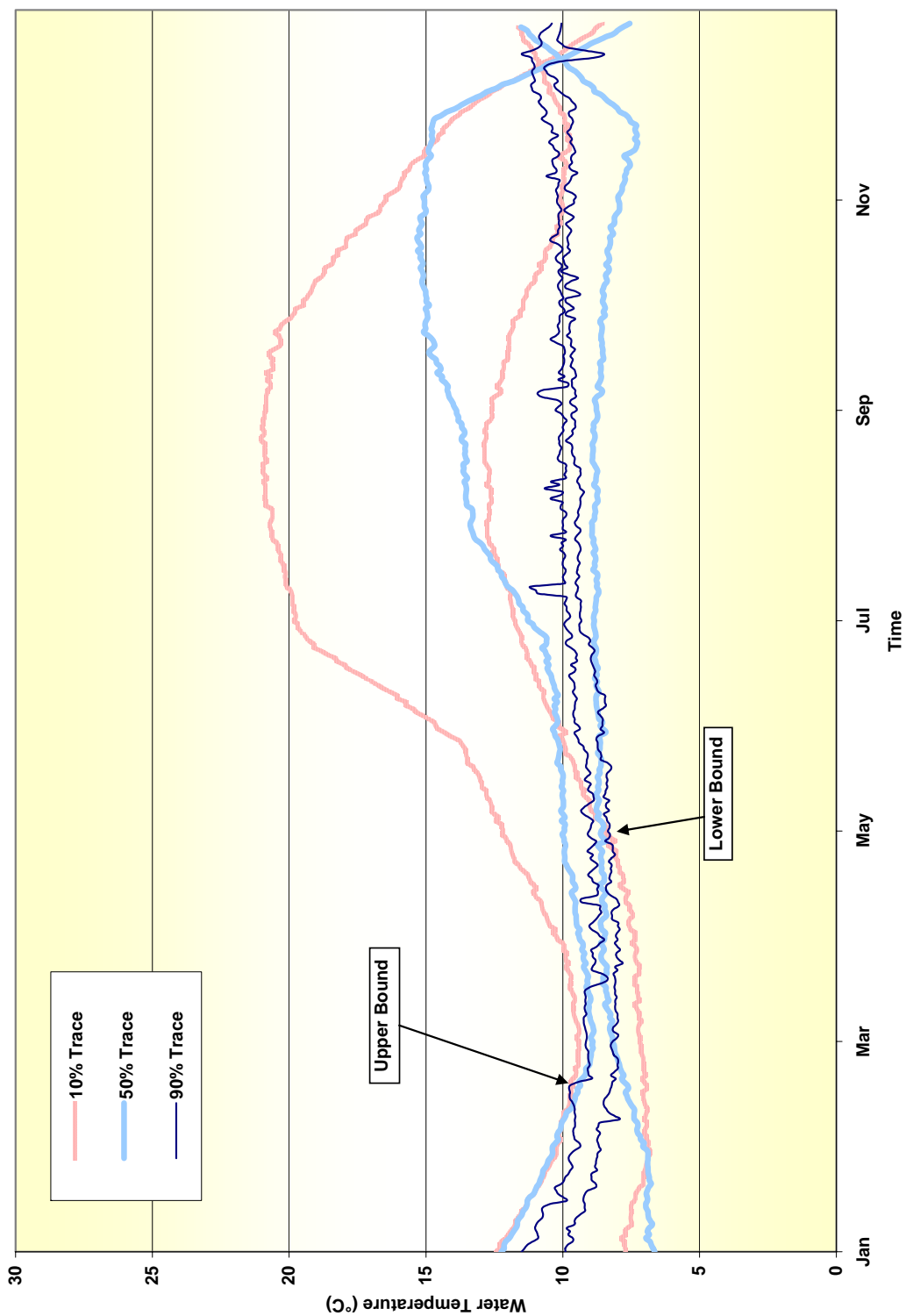


Figure P-72  
Colorado River Below Little Colorado River Confluence  
Under Basin States and Conservation Before Shortage Alternative  
Min and Max Temperature Bounds

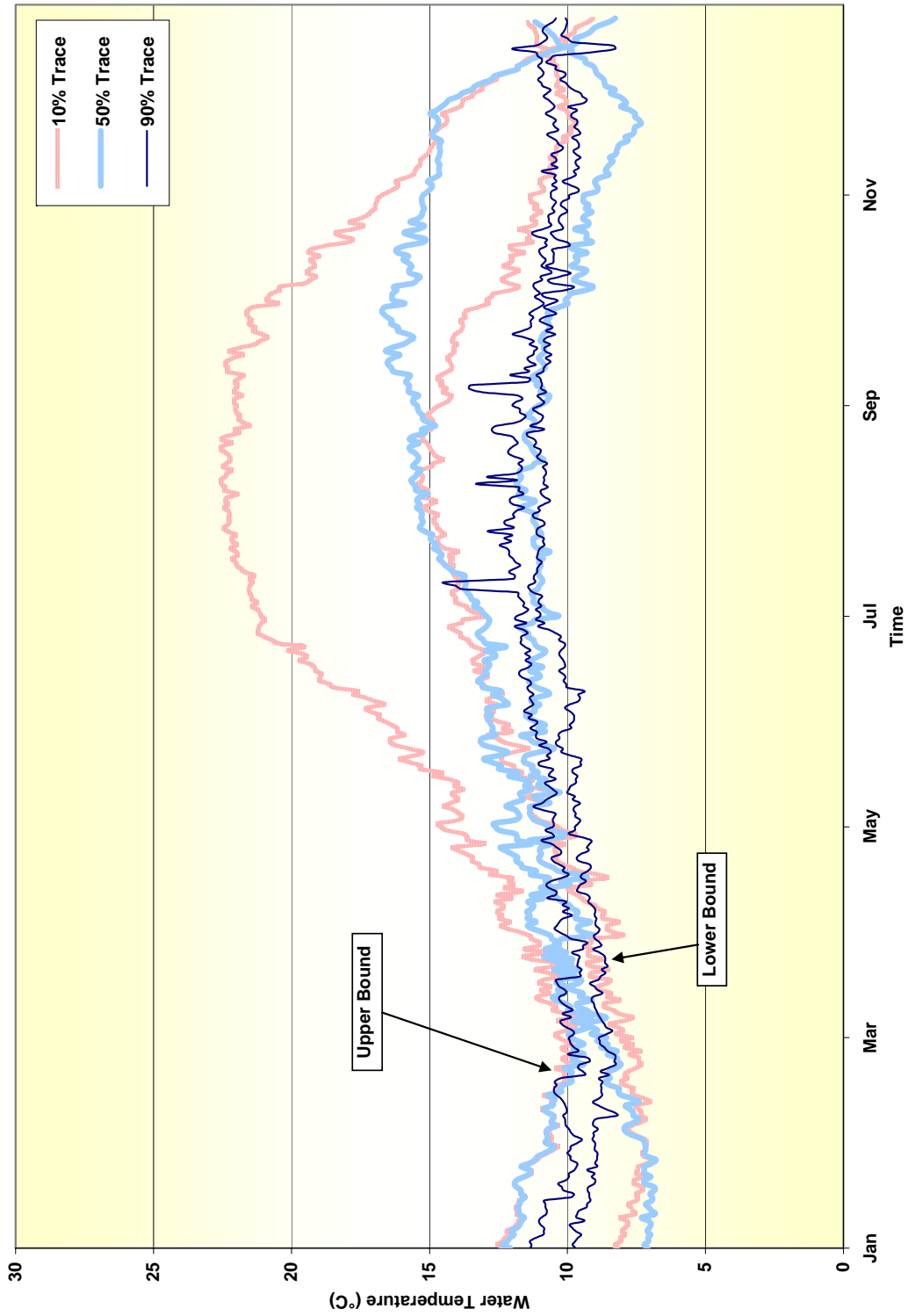


Figure P-73  
Colorado River Near Diamond Creek  
Under Basin States and Conservation Before Shortage Alternative  
Min and Max Temperature Bounds

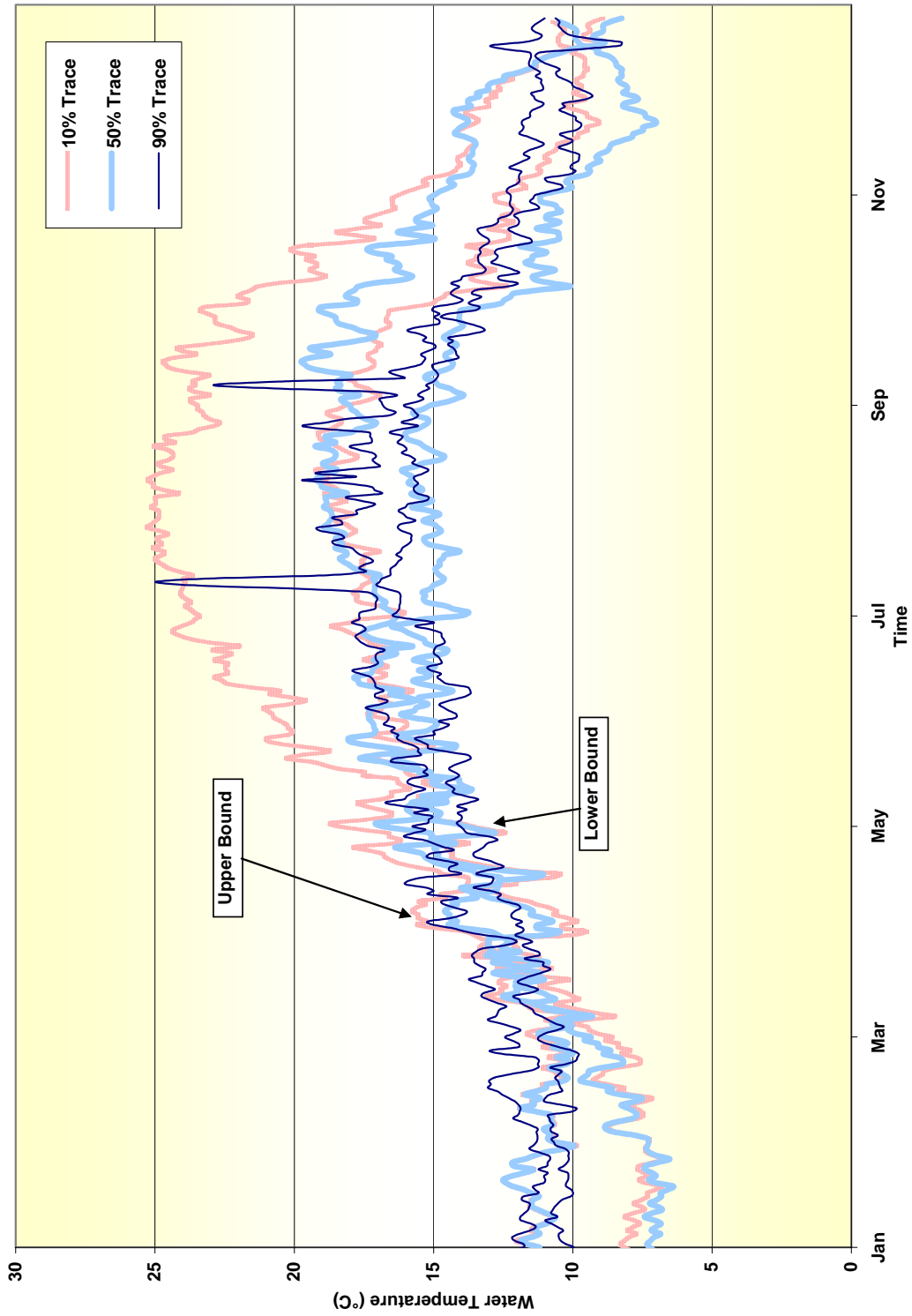


Figure P-74  
Colorado River at Lees Ferry  
Under Water Supply Alternative  
Min and Max Temperature Bounds

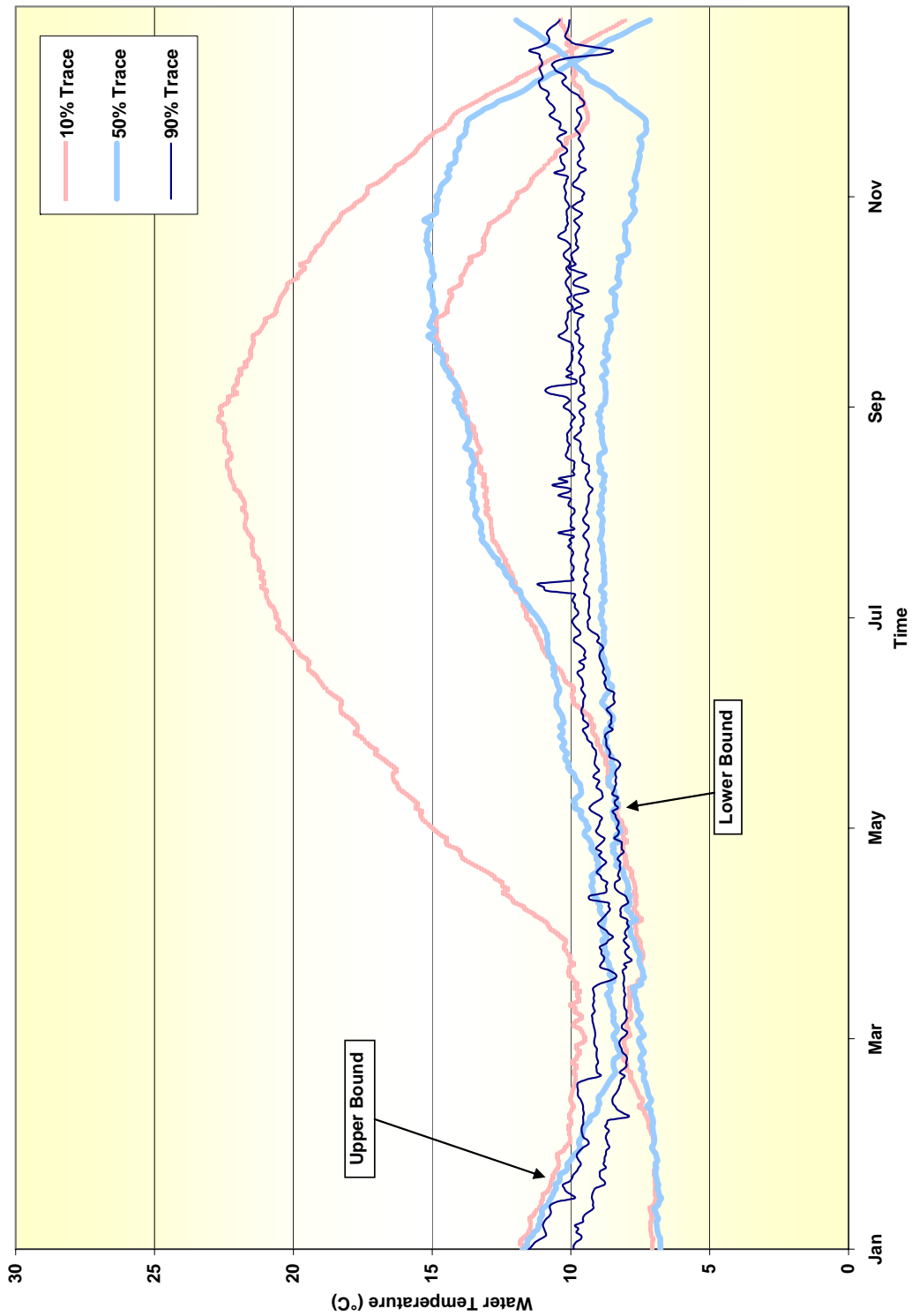


Figure P-75  
Colorado River Below Little Colorado River Confluence  
Under Water Supply Alternative  
Min and Max Temperature Bounds

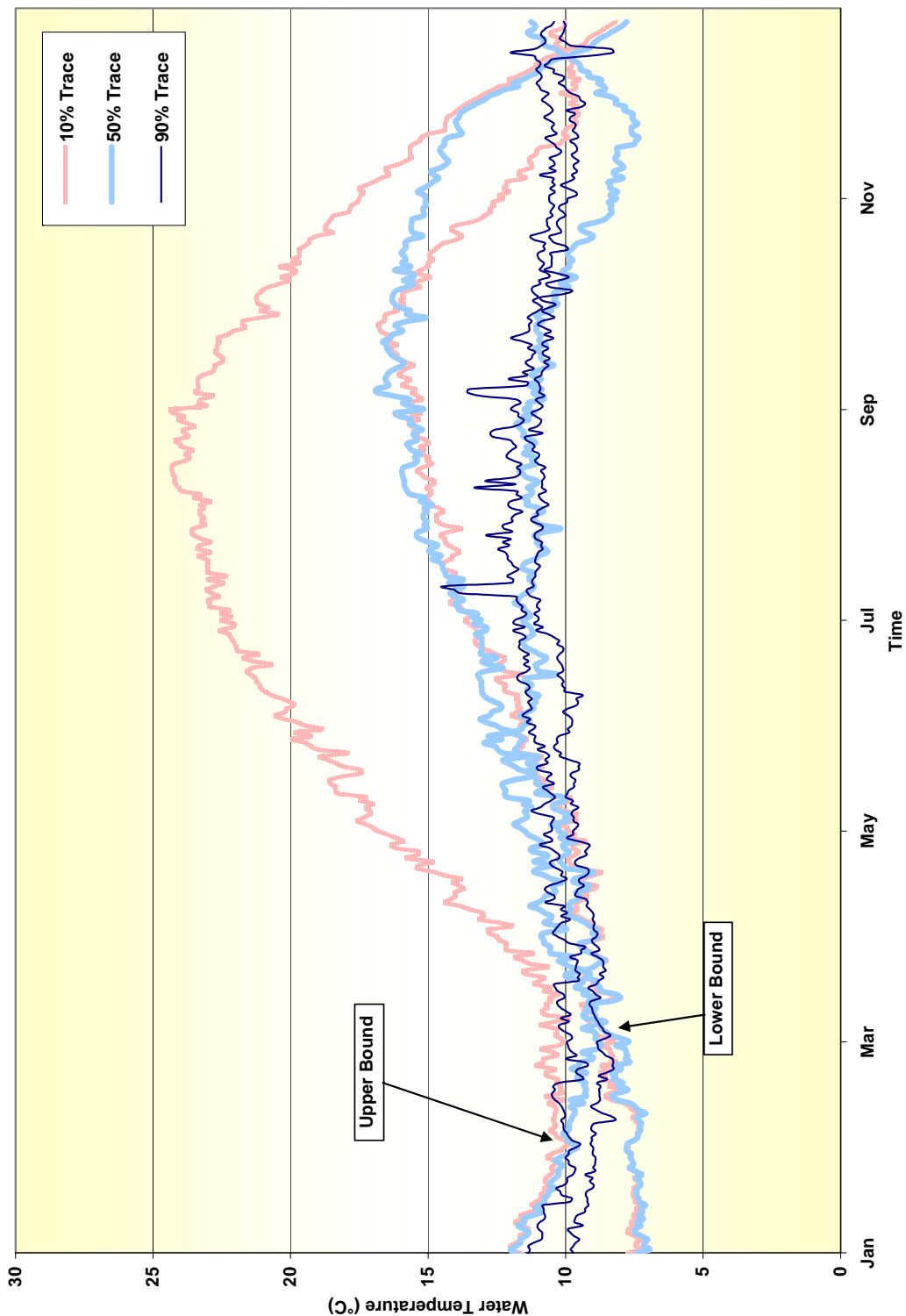




Figure P-76  
Colorado River Near Diamond Creek  
Under Water Supply Alternative  
Min and Max Temperature Bounds

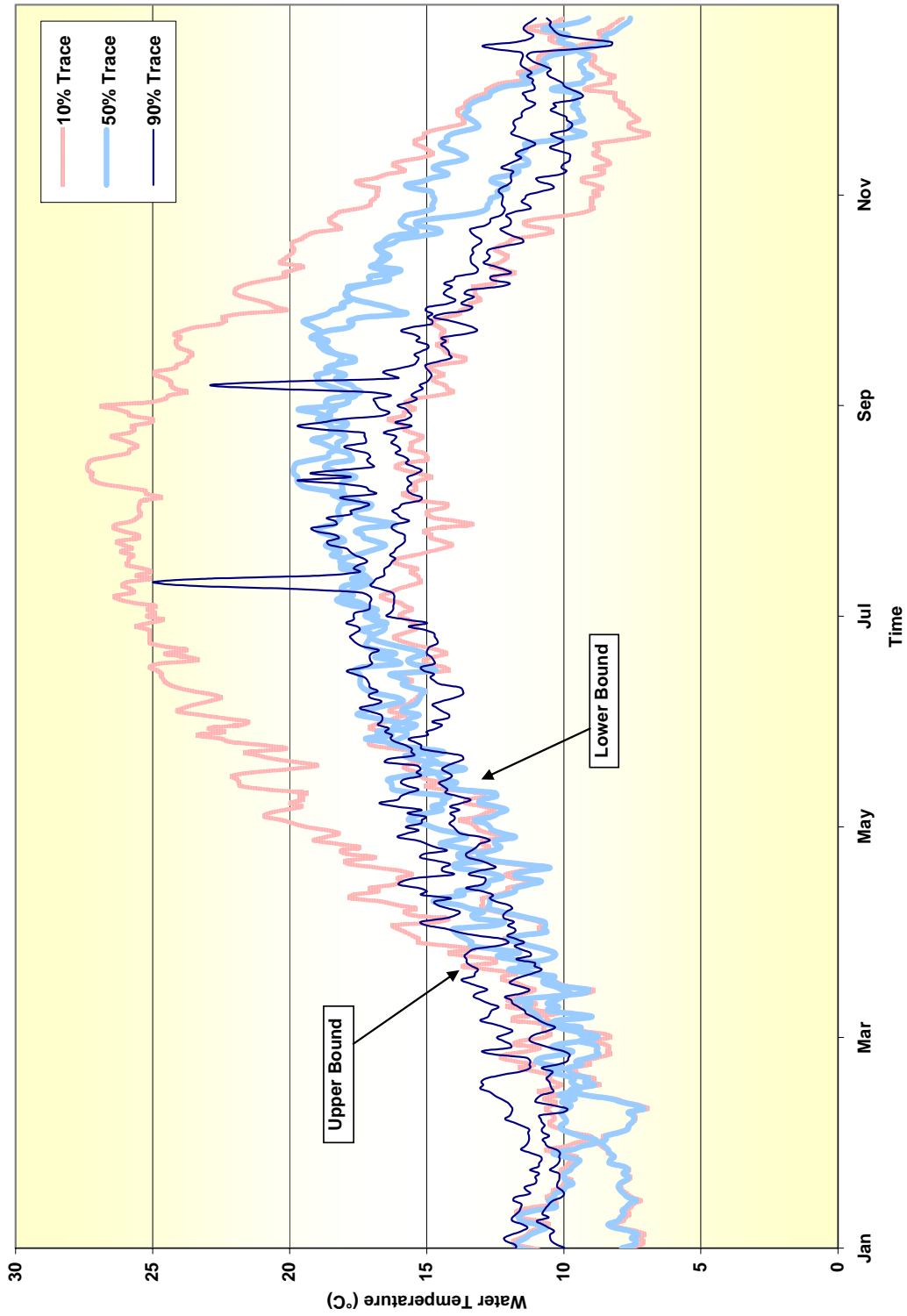


Figure P-77  
Colorado River at Lees Ferry  
Under Reservoir Storage Alternative  
Min and Max Temperature Bounds

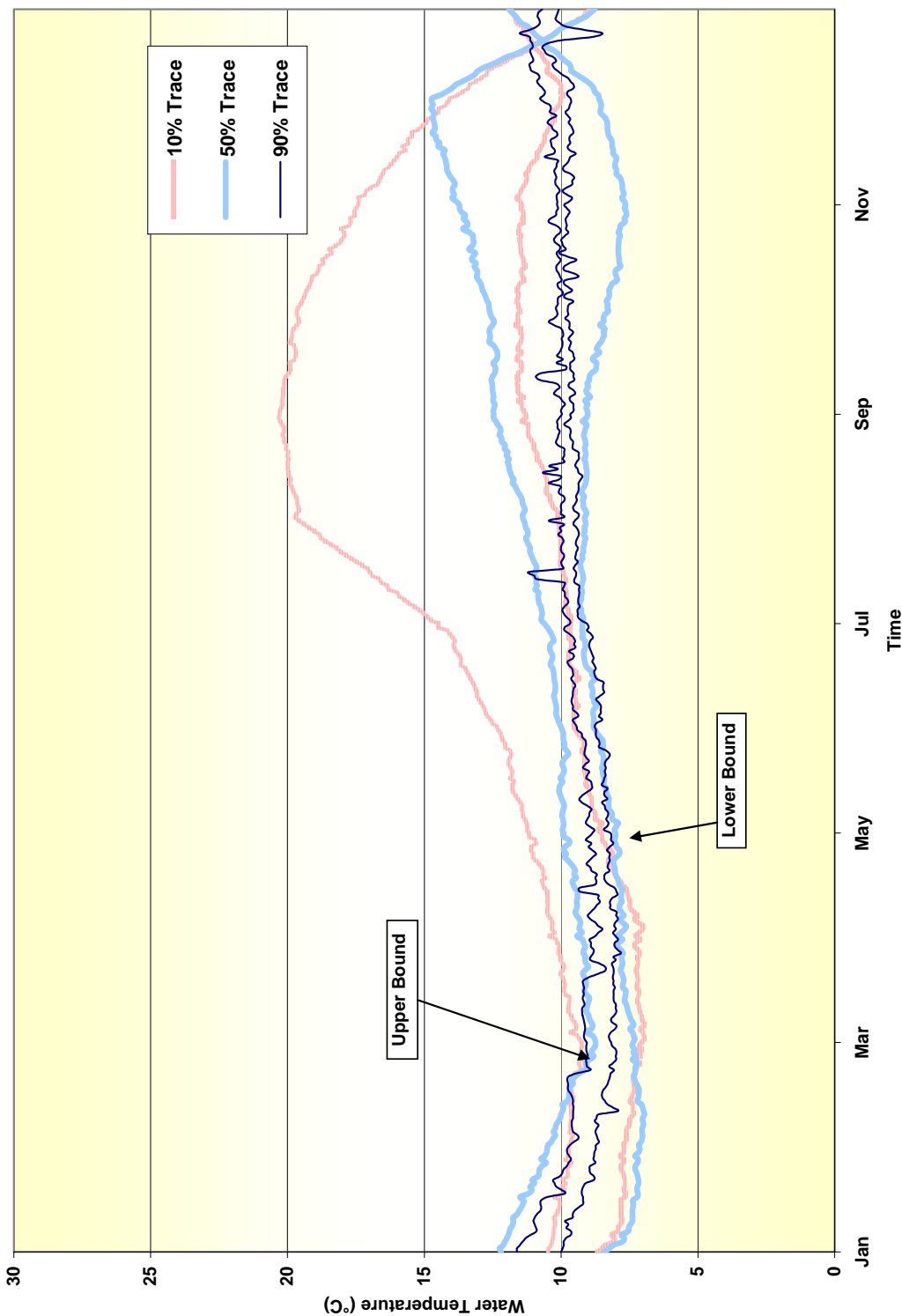


Figure P-78  
Colorado River Below Little Colorado River Confluence  
Under Reservoir Storage Alternative  
Min and Max Temperature Bounds

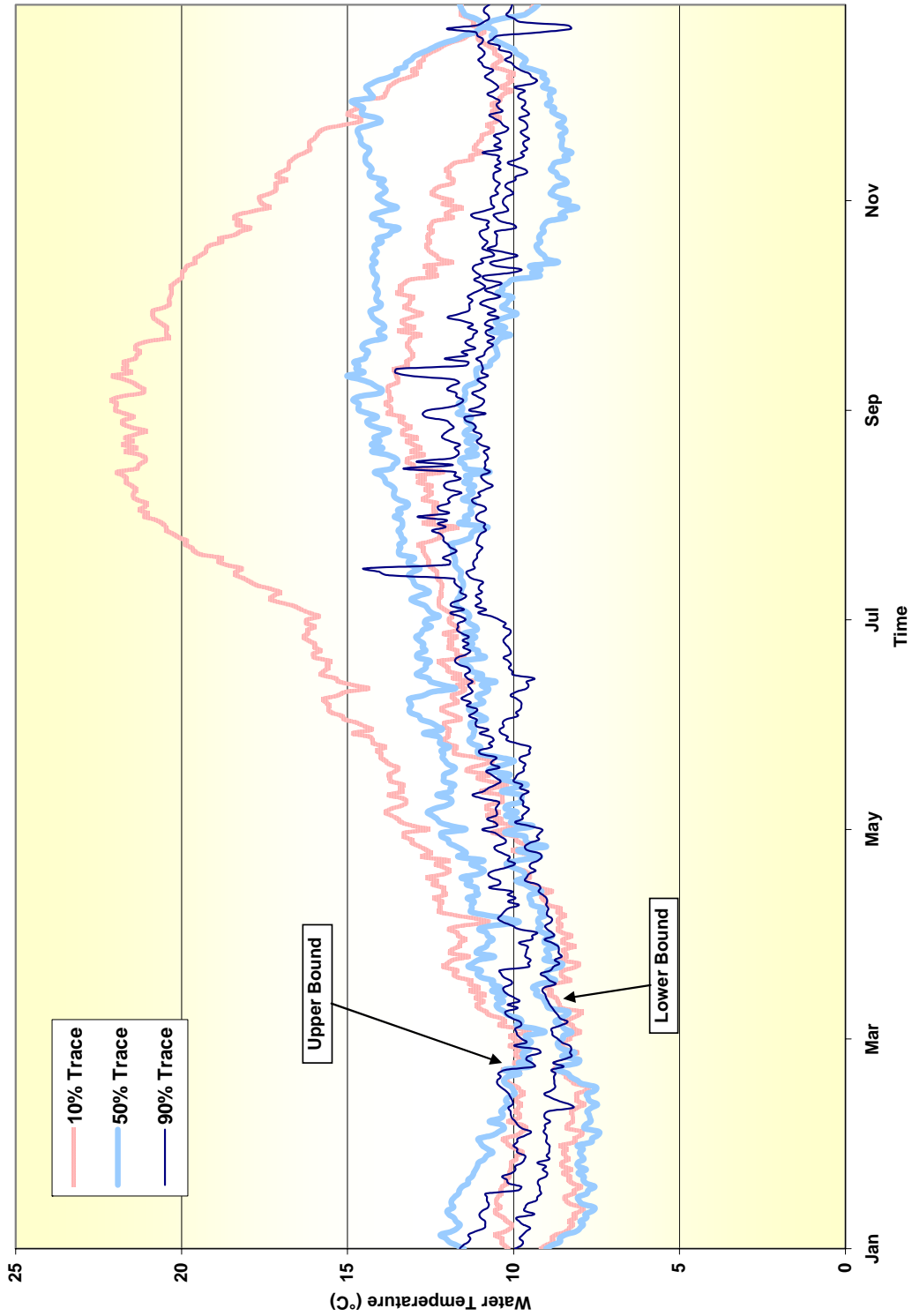


Figure P-79  
Colorado River Near Diamond Creek  
Under Reservoir Storage Alternative  
Min and Max Temperature Bounds

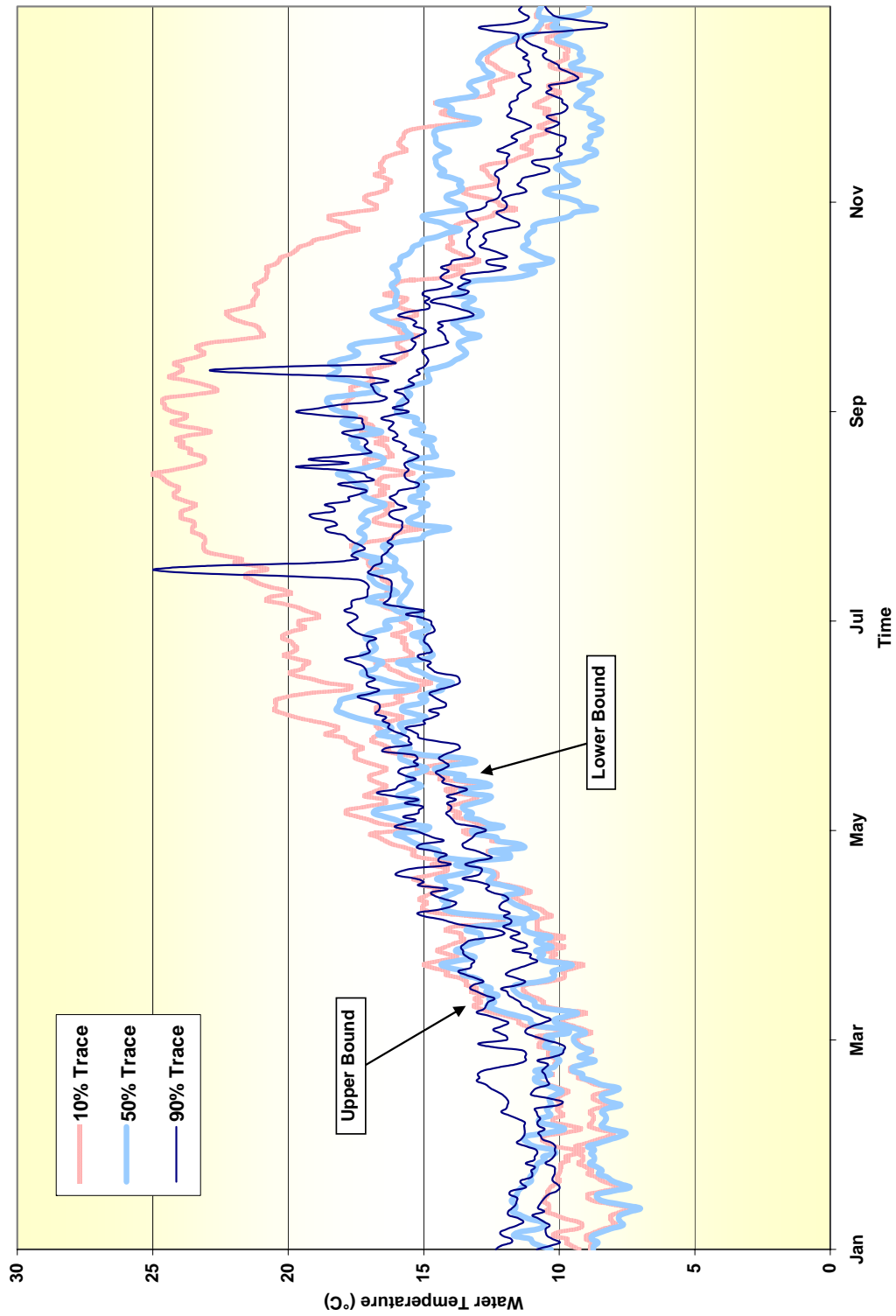


Figure P-80  
 Glen Canyon Dam Release Temperatures  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup> Percentile Upper and Lower Bounds for Release Temperatures

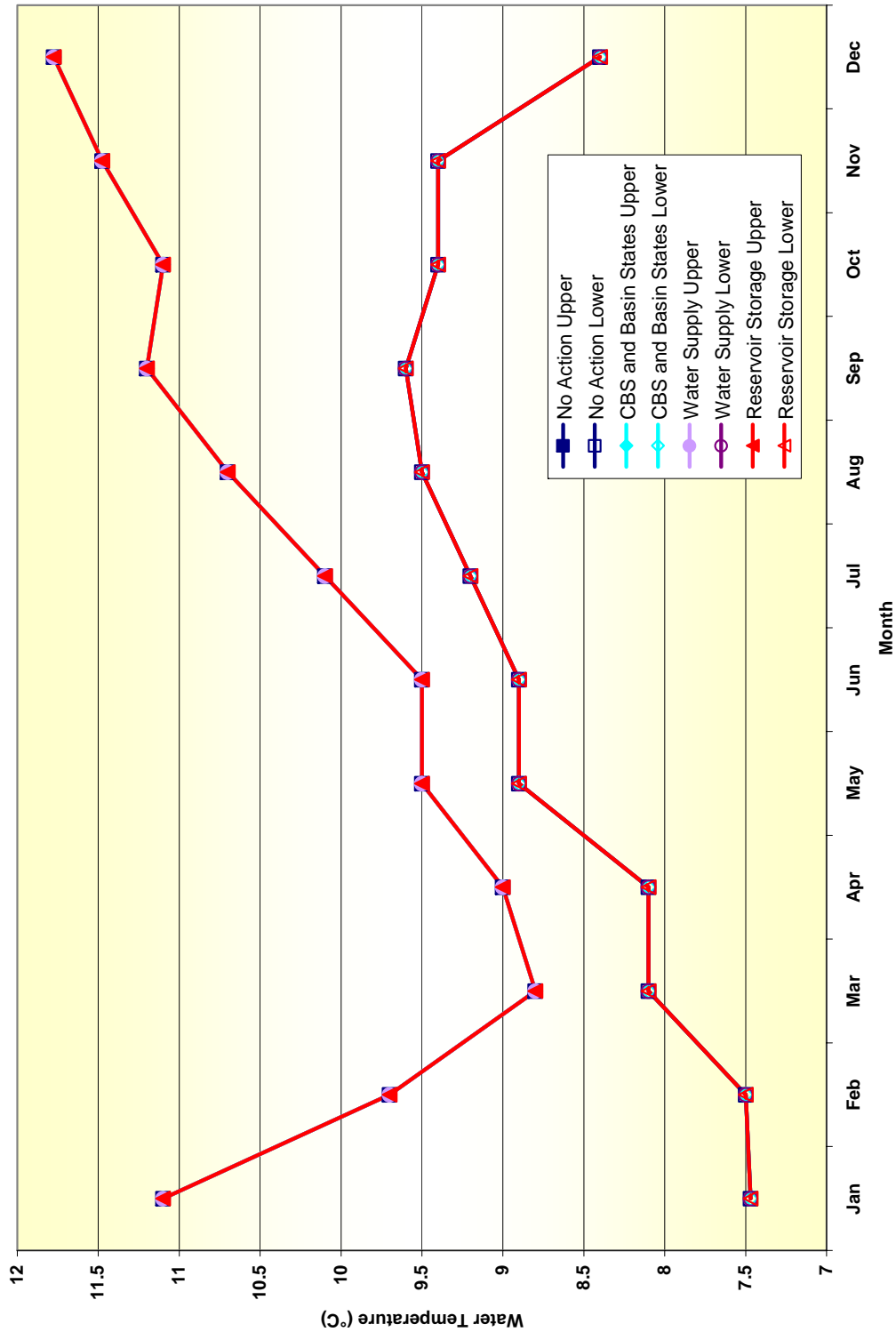


Figure P-81  
 Glen Canyon Dam Release Temperatures  
 Comparison of Action Alternatives to No Action Alternative  
 50<sup>th</sup> Percentile Upper and Lower Bounds for Release Temperatures

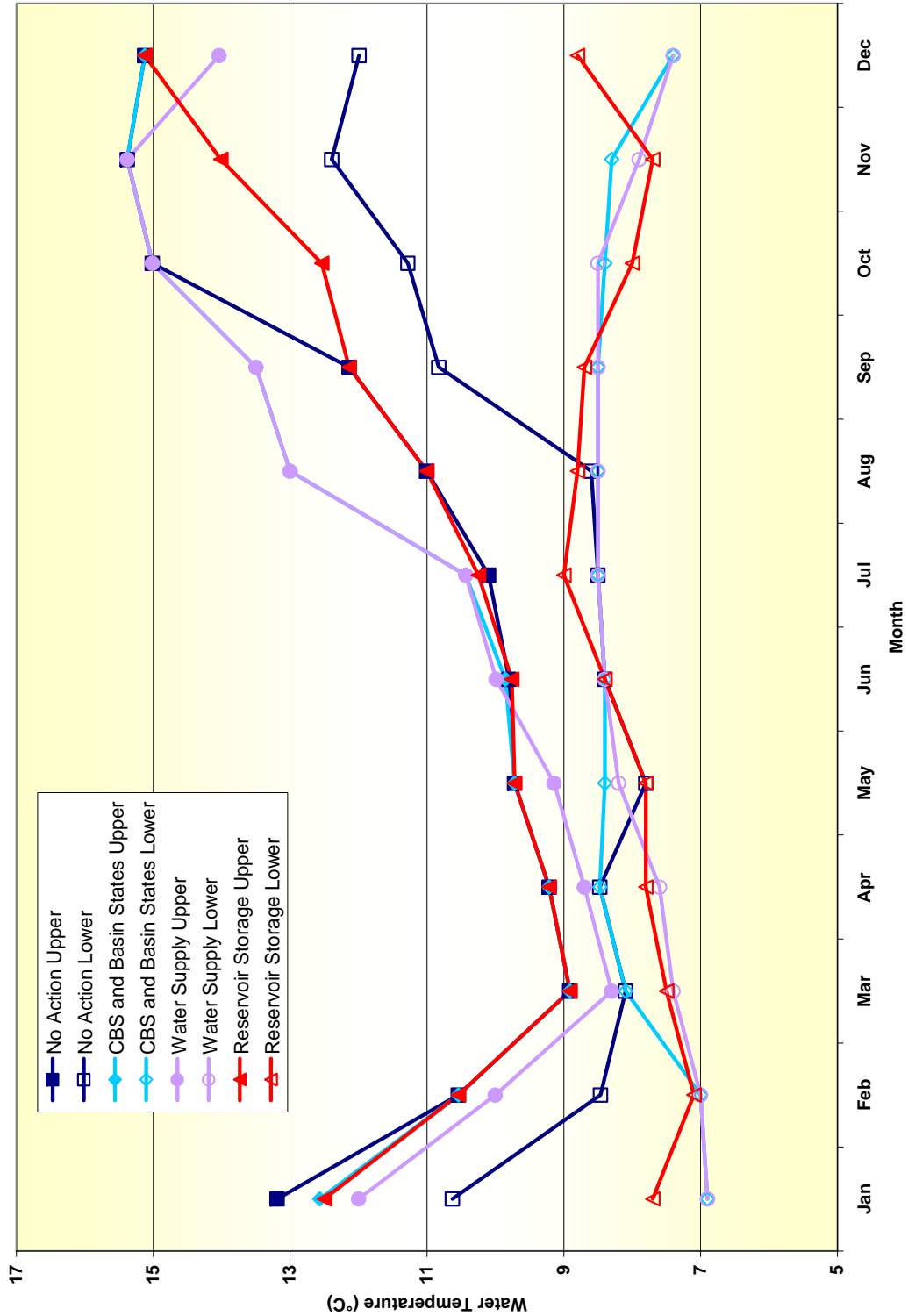


Figure P-82  
 Glen Canyon Dam Release Temperatures  
 Comparison of Action Alternatives to No Action Alternative  
 10<sup>th</sup> Percentile Upper and Lower Bounds for Release Temperatures

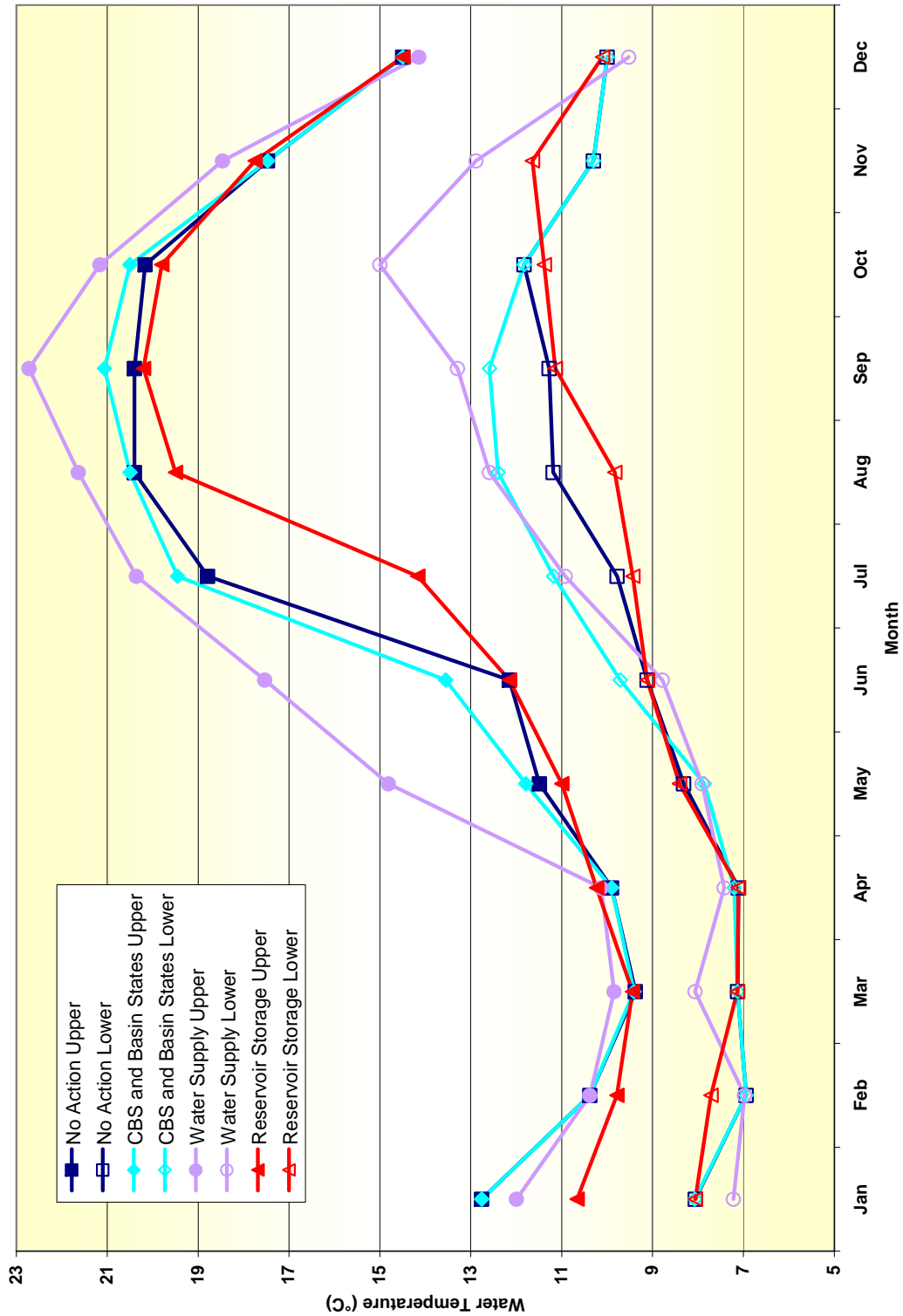


Figure P-83  
 Glen Canyon Dam Release Temperatures  
 No Action Alternative  
 Upper and Lower Bounds for Release Temperatures

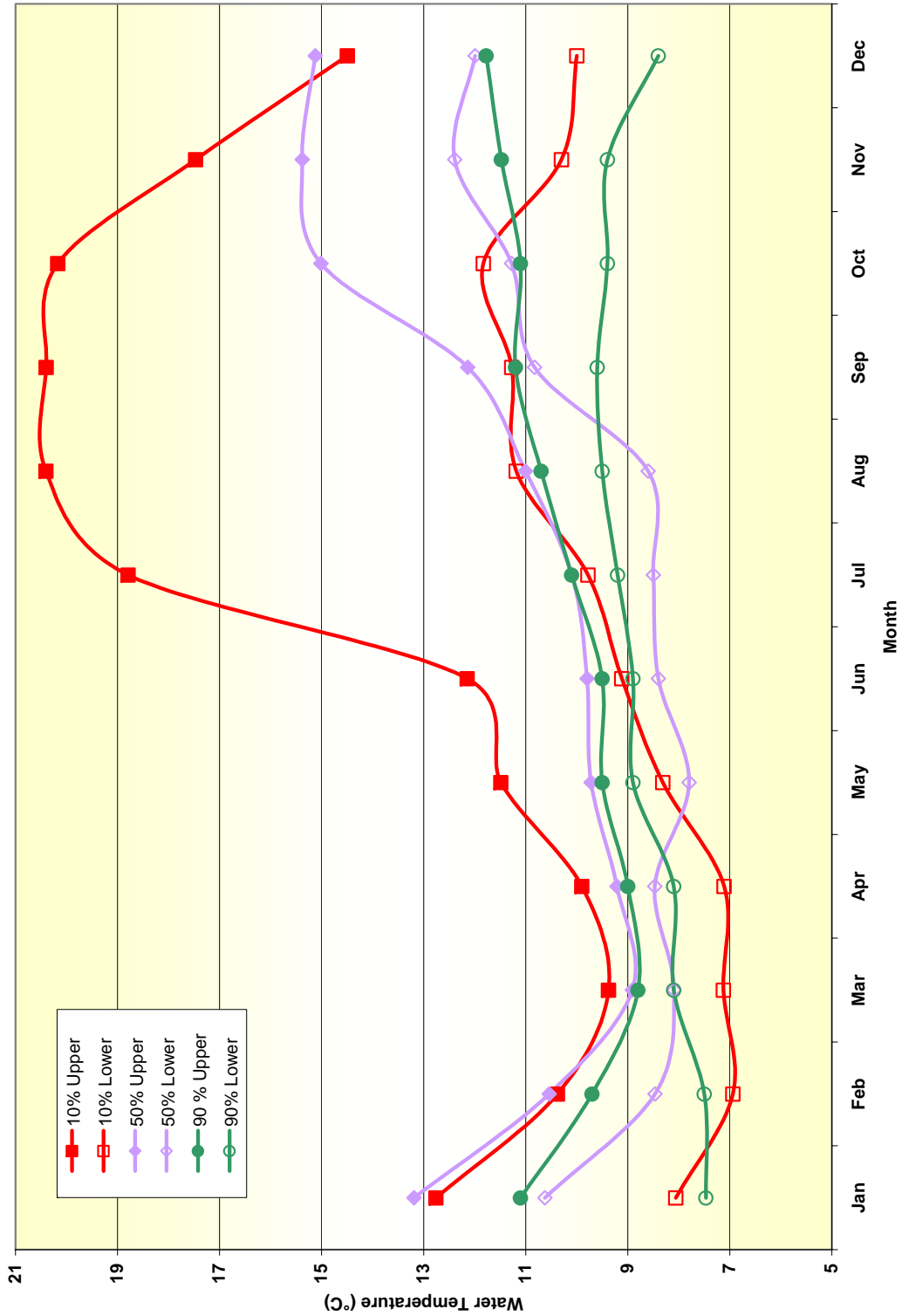




Figure P-84  
 Glen Canyon Dam Release Temperatures  
 Conservation Before Shortage and Basin States Alternative  
 Upper and Lower Bounds for Release Temperatures

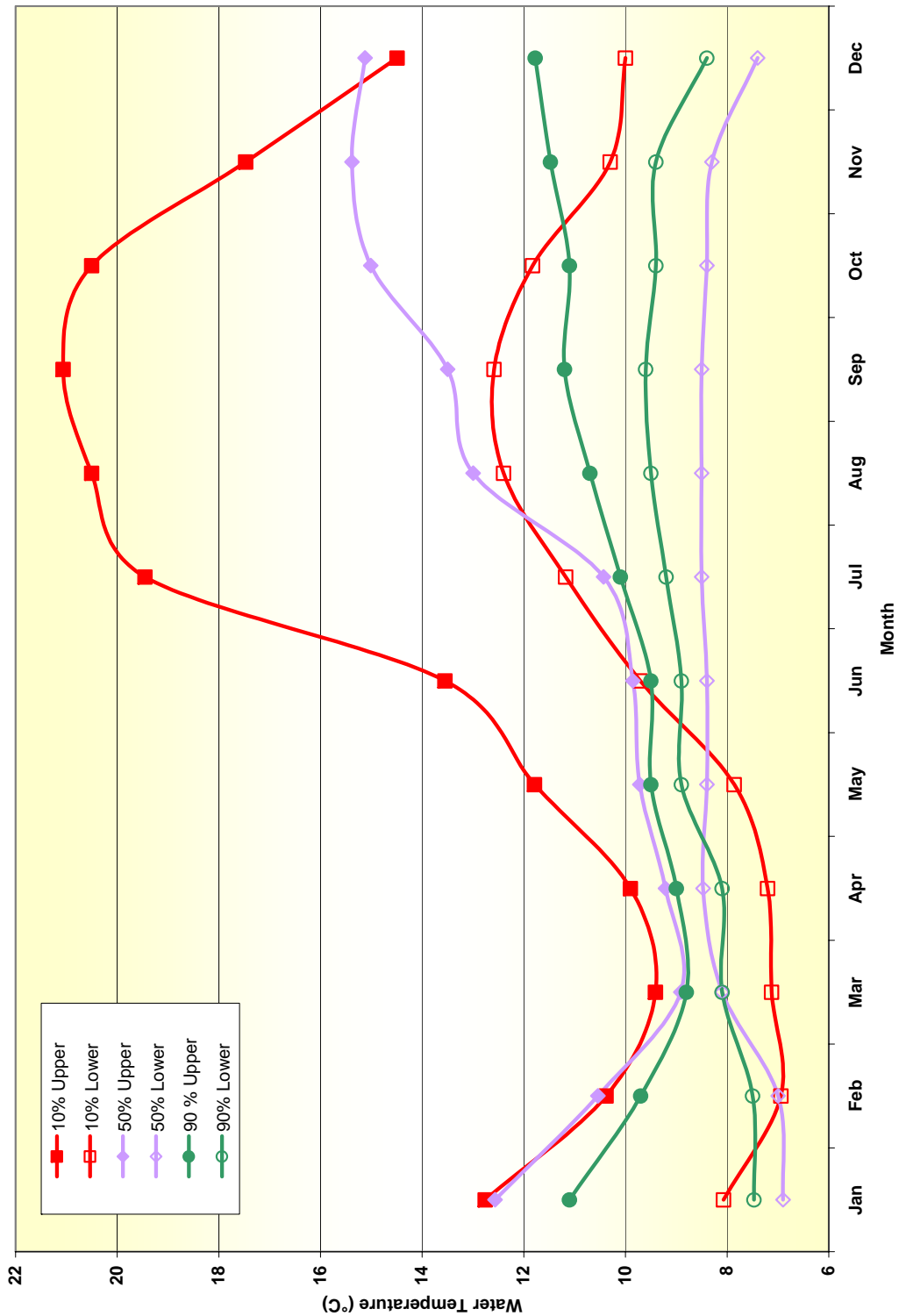


Figure P-85  
 Glen Canyon Dam Release Temperatures  
 Water Supply Alternative  
 Upper and Lower Bounds for Release Temperatures

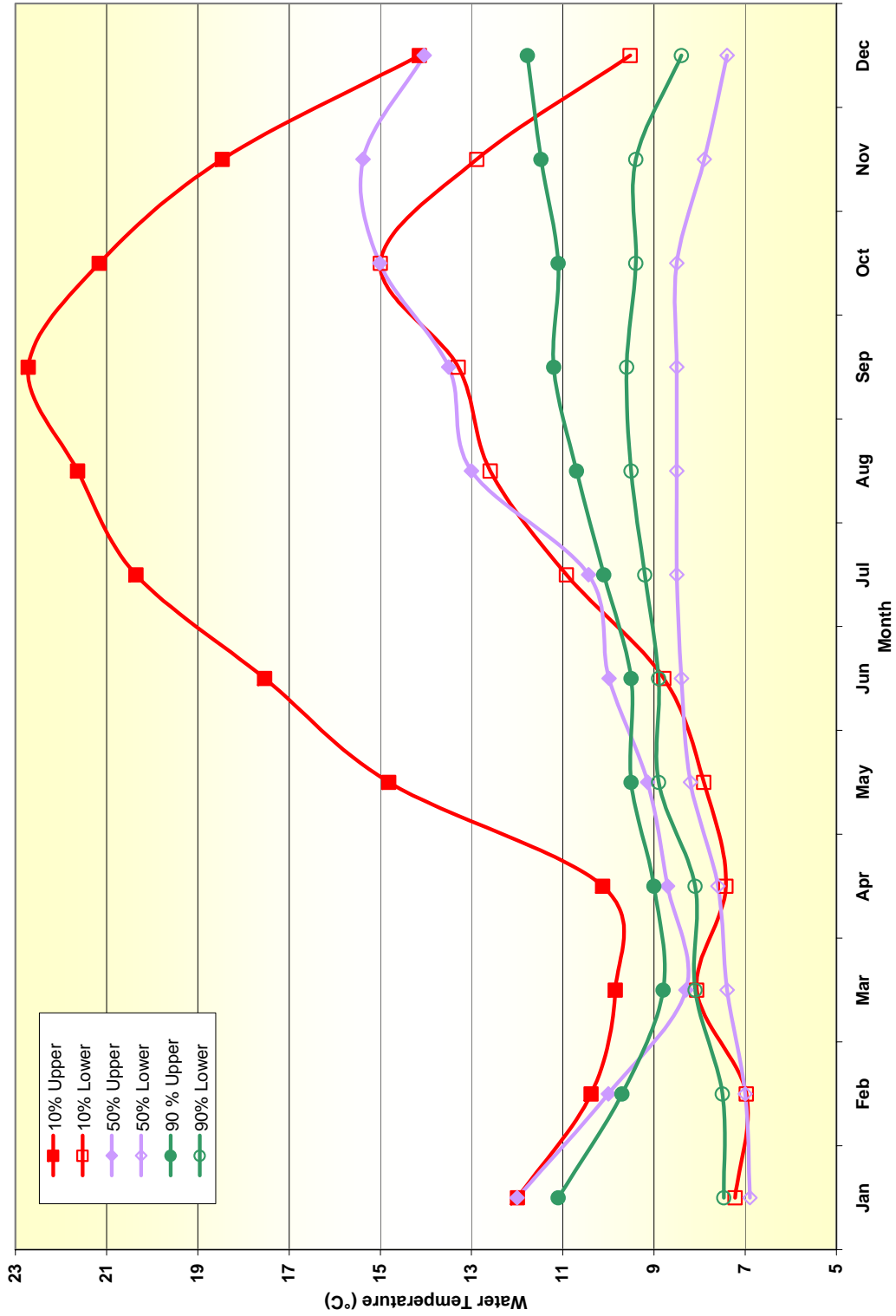


Figure P-86  
 Glen Canyon Dam Release Temperature  
 Reservoir Storage Alternative  
 Upper and Lower Bounds for Release Temperatures

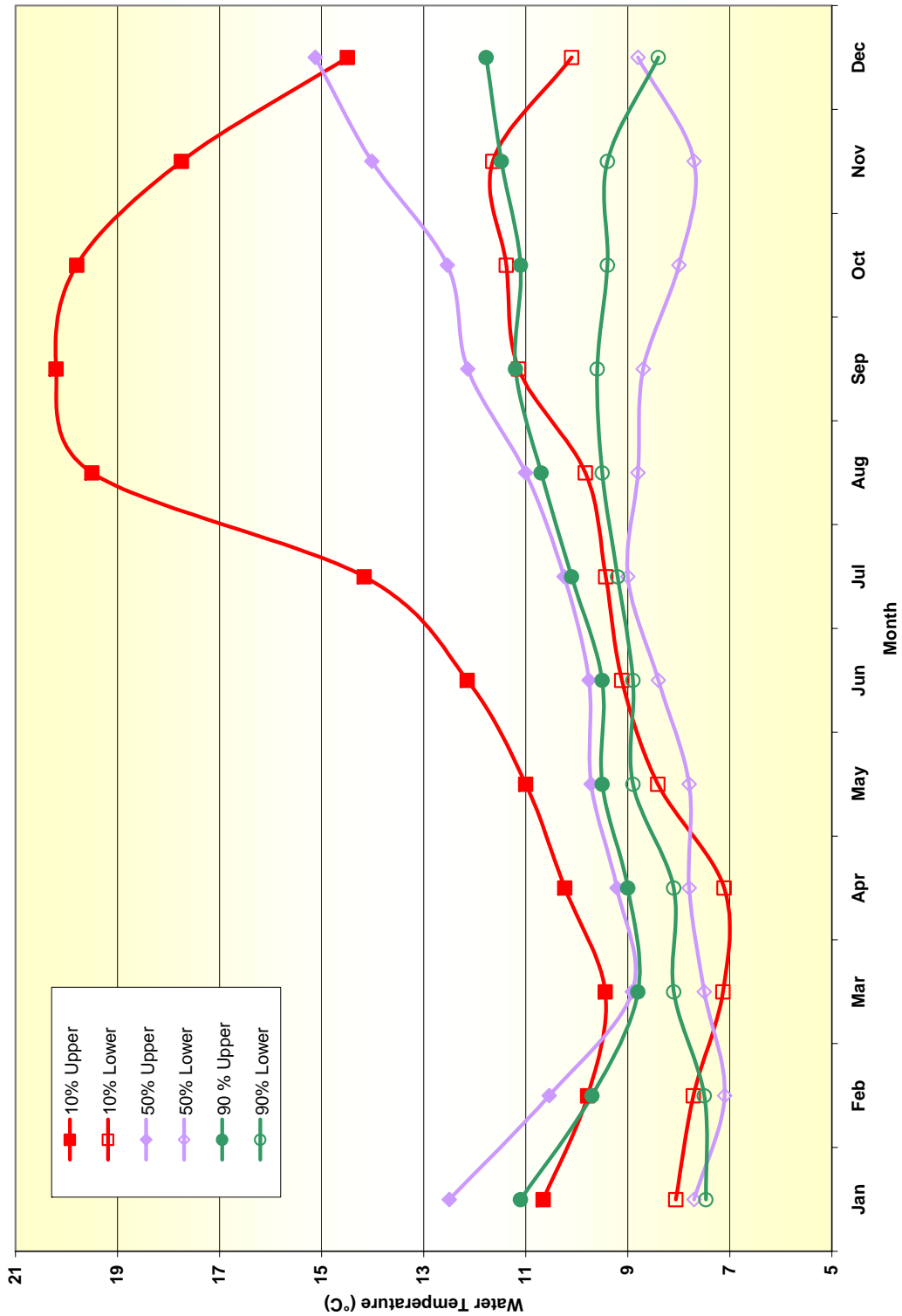


Figure P-87  
 Hoover Dam Release Temperatures  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup> Percentile Upper and Lower Bounds for Release Temperatures

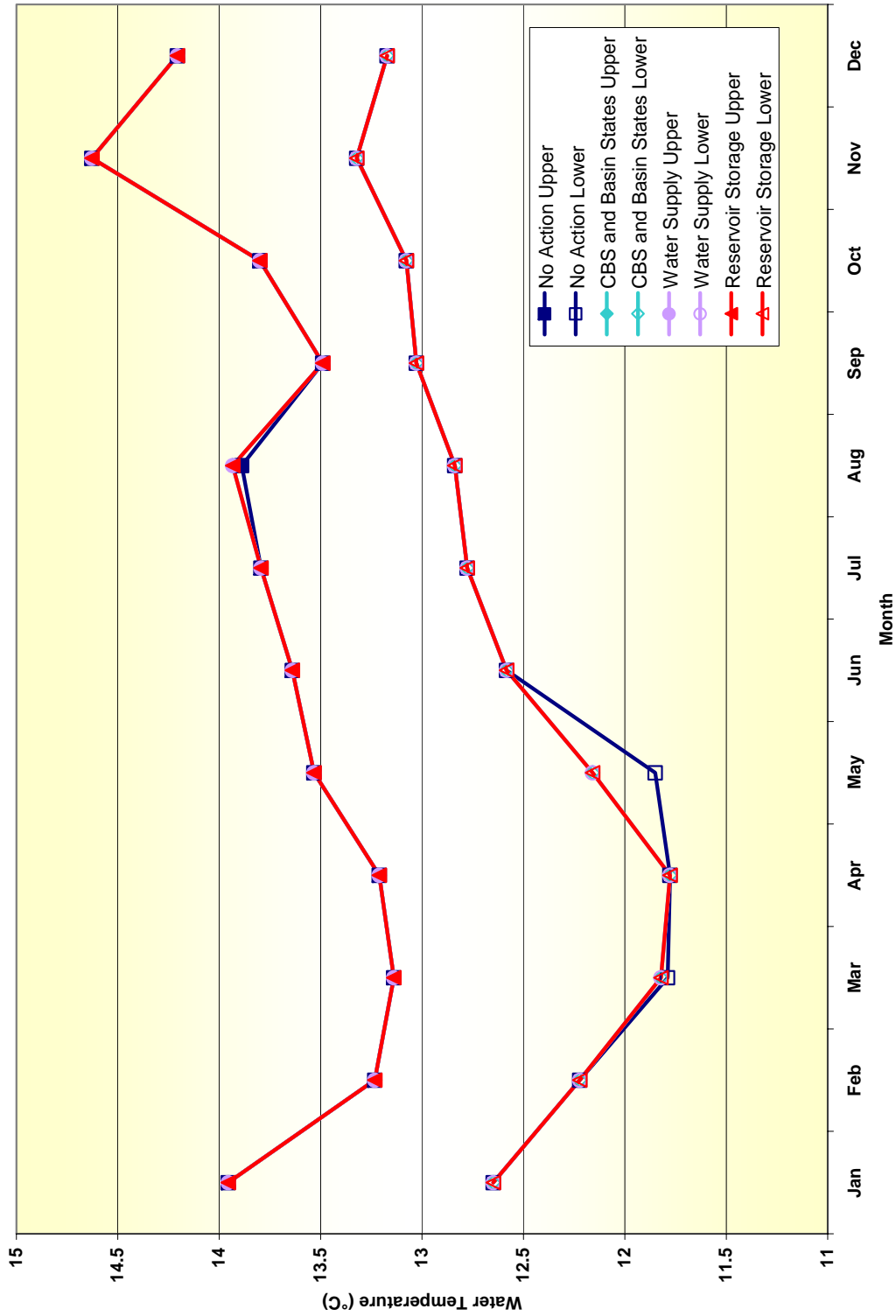


Figure P-88  
Hoover Dam Release Temperatures  
Comparison of Action Alternatives to No Action Alternative  
50<sup>th</sup> Percentile Upper and Lower Bounds for Release Temperatures

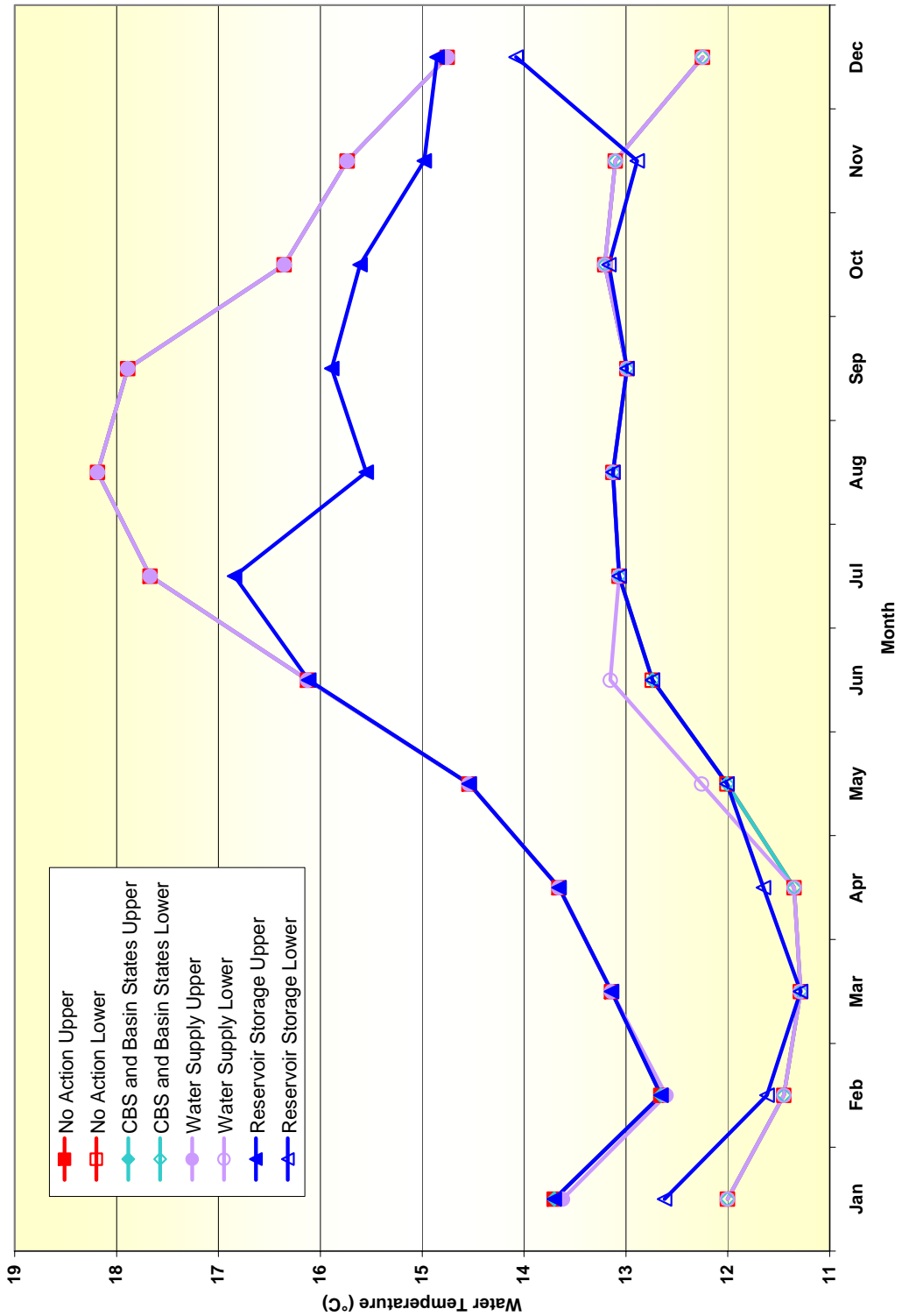


Figure P-89  
 Hoover Dam Release Temperatures  
 Comparison of Action Alternatives to No Action Alternative  
 10<sup>th</sup> Percentile Upper and Lower Bounds for Release Temperatures

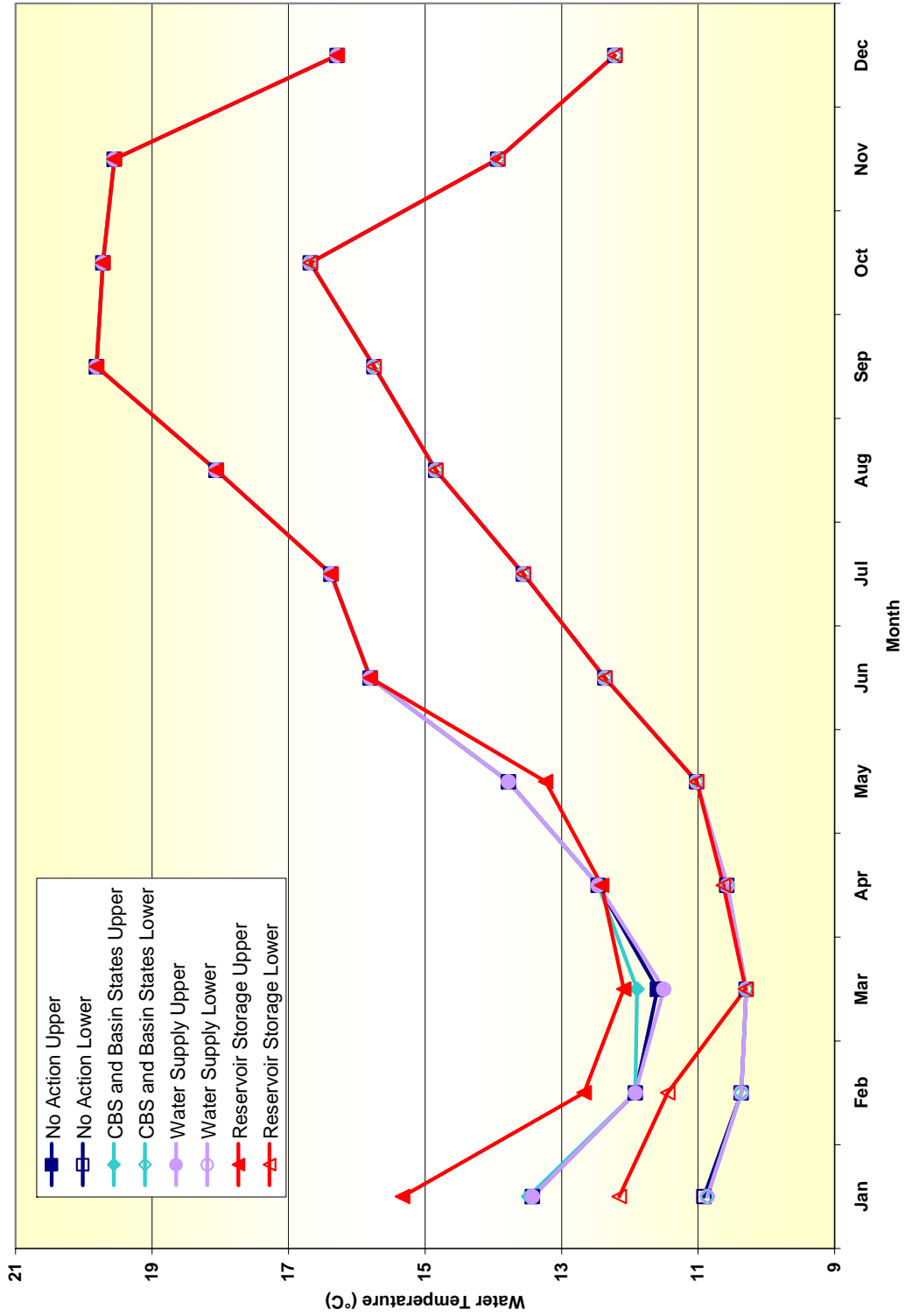


Figure P-90  
Hoover Dam Release Temperatures  
No Action Alternative  
Upper and Lower Bounds for Release Temperatures

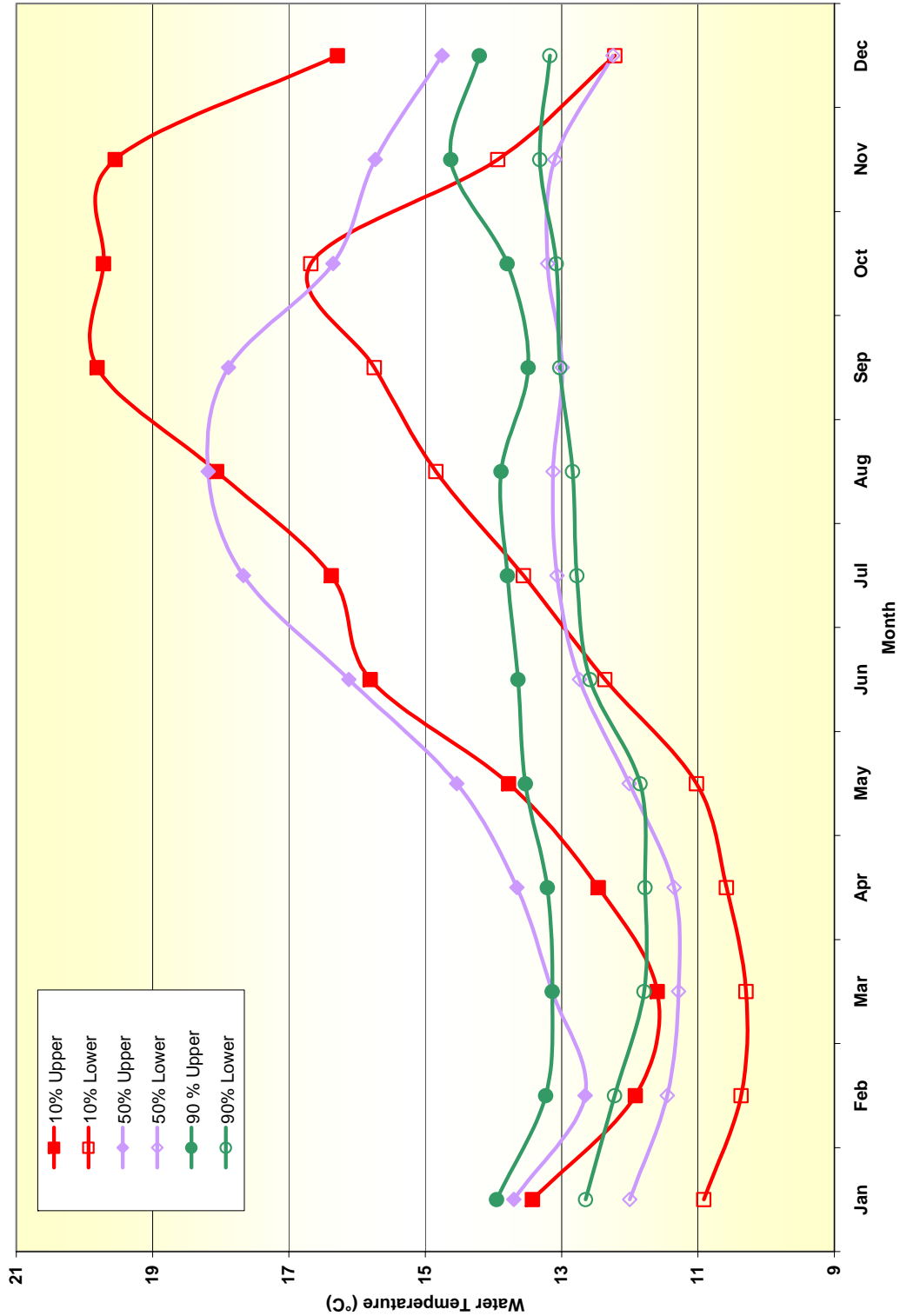


Figure P-91  
 Hoover Dam Release Temperatures  
 Conservation Before Shortage and Basin States Alternative  
 Upper and Lower Bounds for Release Temperatures

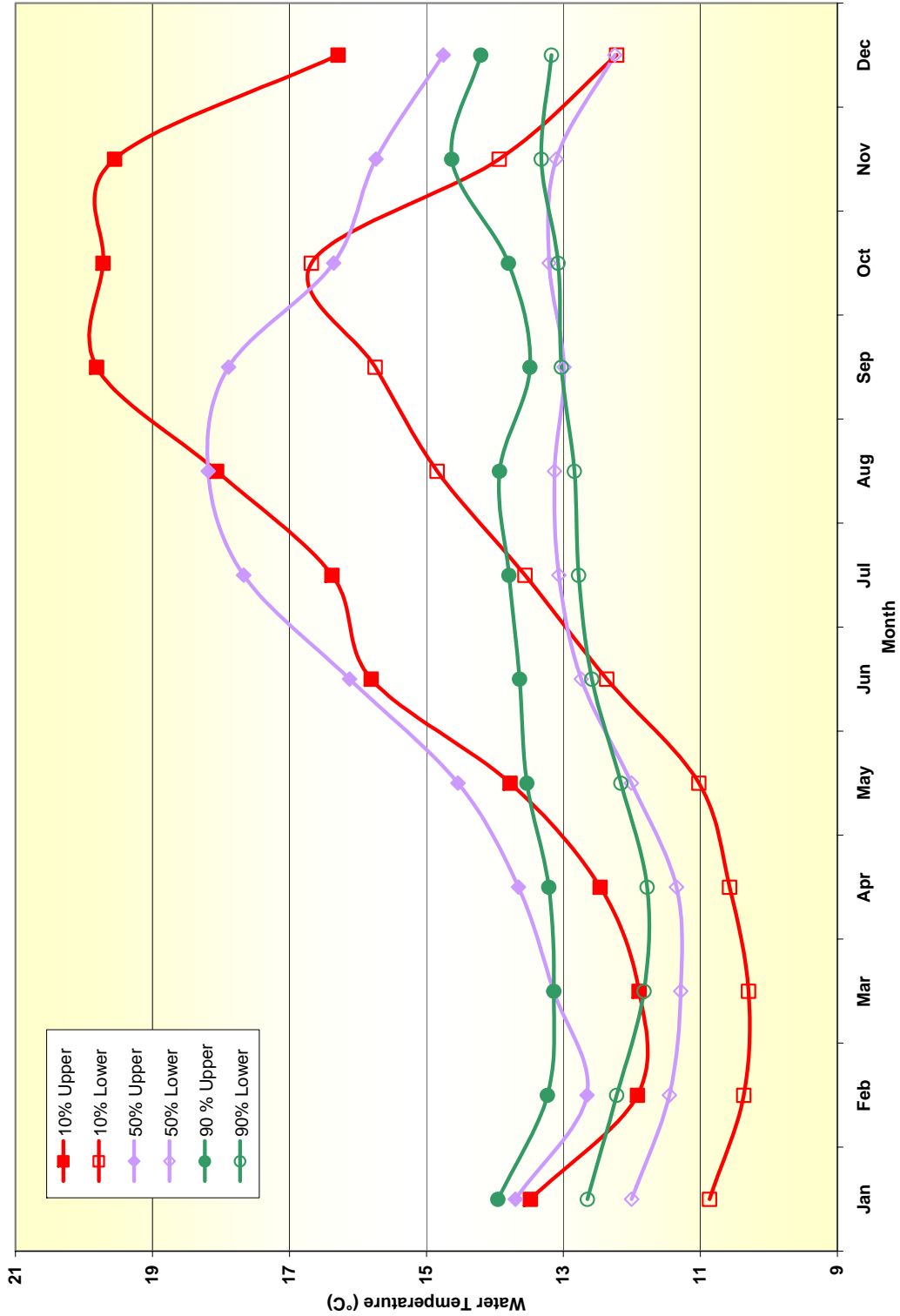




Figure P-92  
Hoover Dam Release Temperatures  
Water Supply Alternative  
Upper and Lower Bounds for Release Temperatures

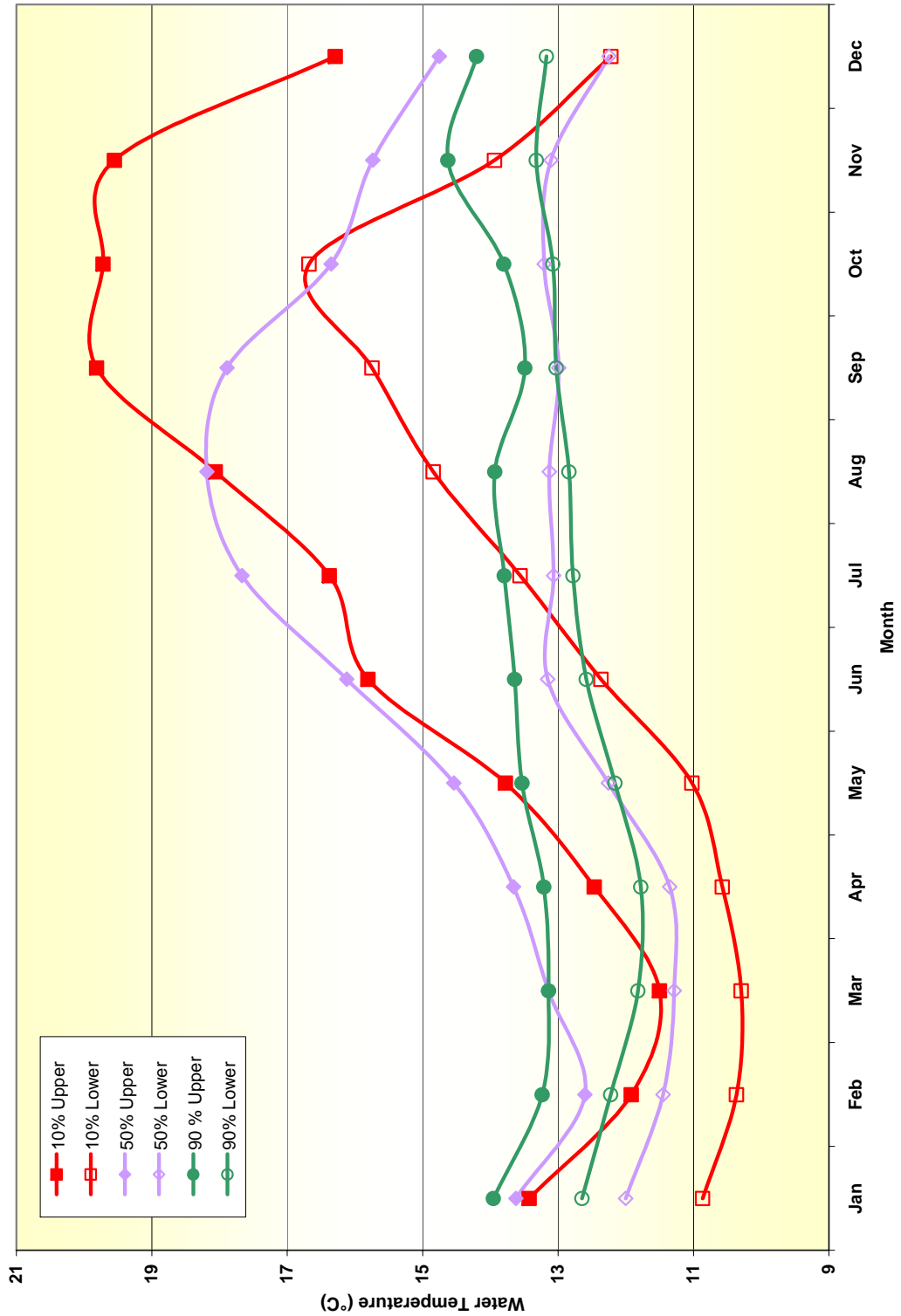
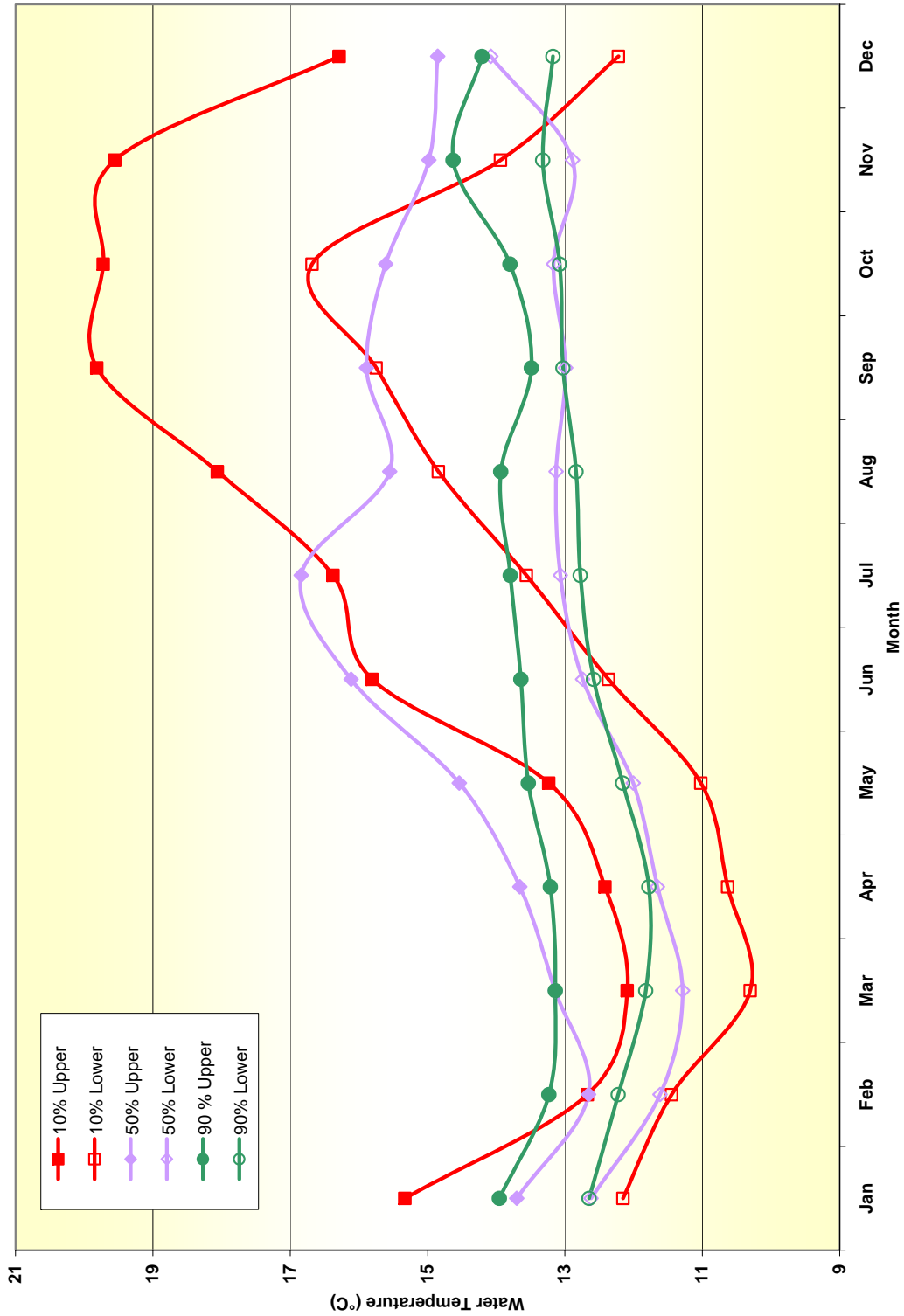


Figure P-93  
Hoover Dam Release Temperatures  
Reservoir Storage Alternative  
Upper and Lower Bounds for Release Temperatures



1

## Electrical Power Resources

2 This section contains additional CRSS modeling output referenced in the Electrical Power  
3 Resources Section.

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Figure P-94  
 Glen Canyon Powerplant Annual Energy Production  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

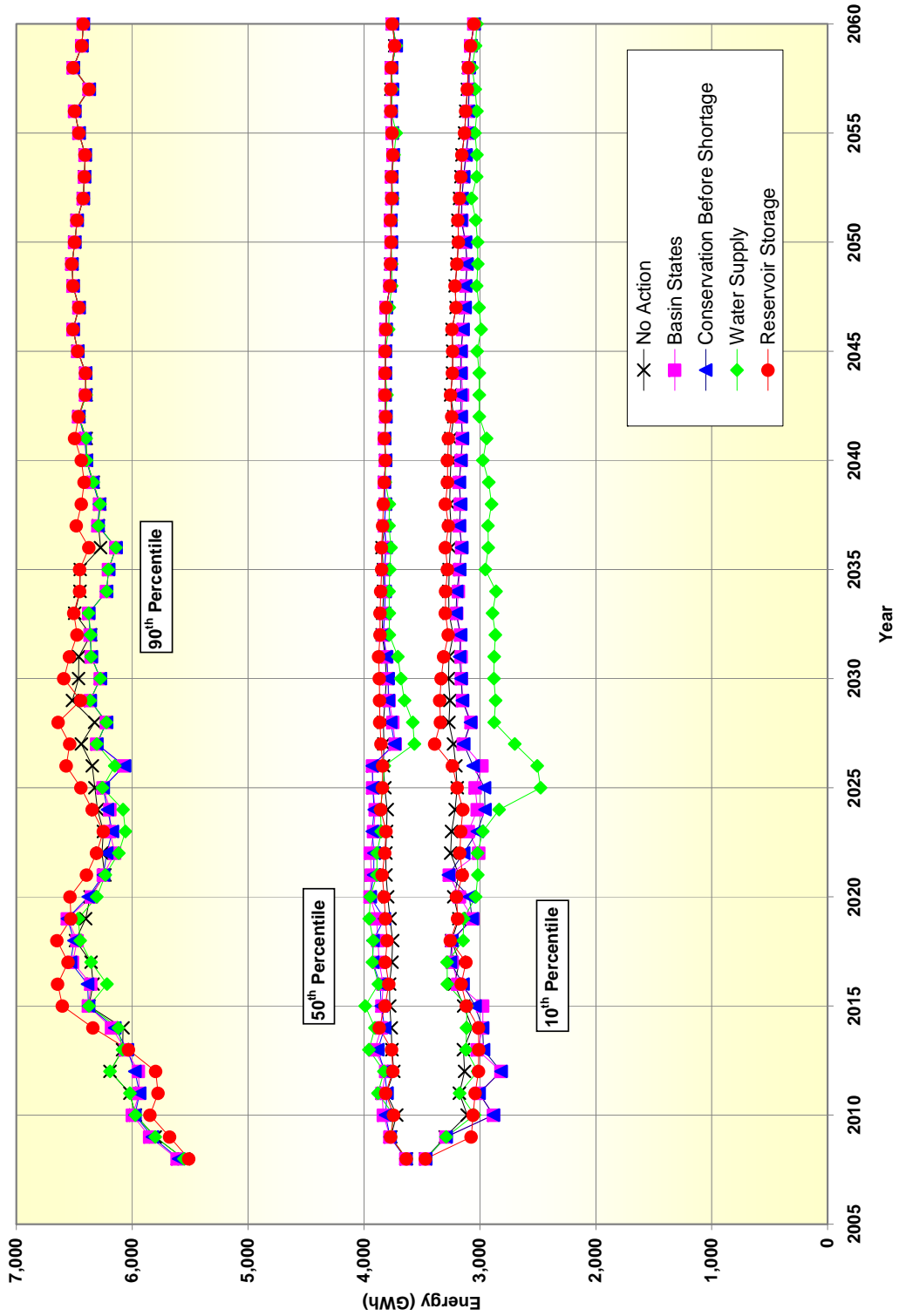


Figure P-95  
Hoover Powerplant Annual Energy Production  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

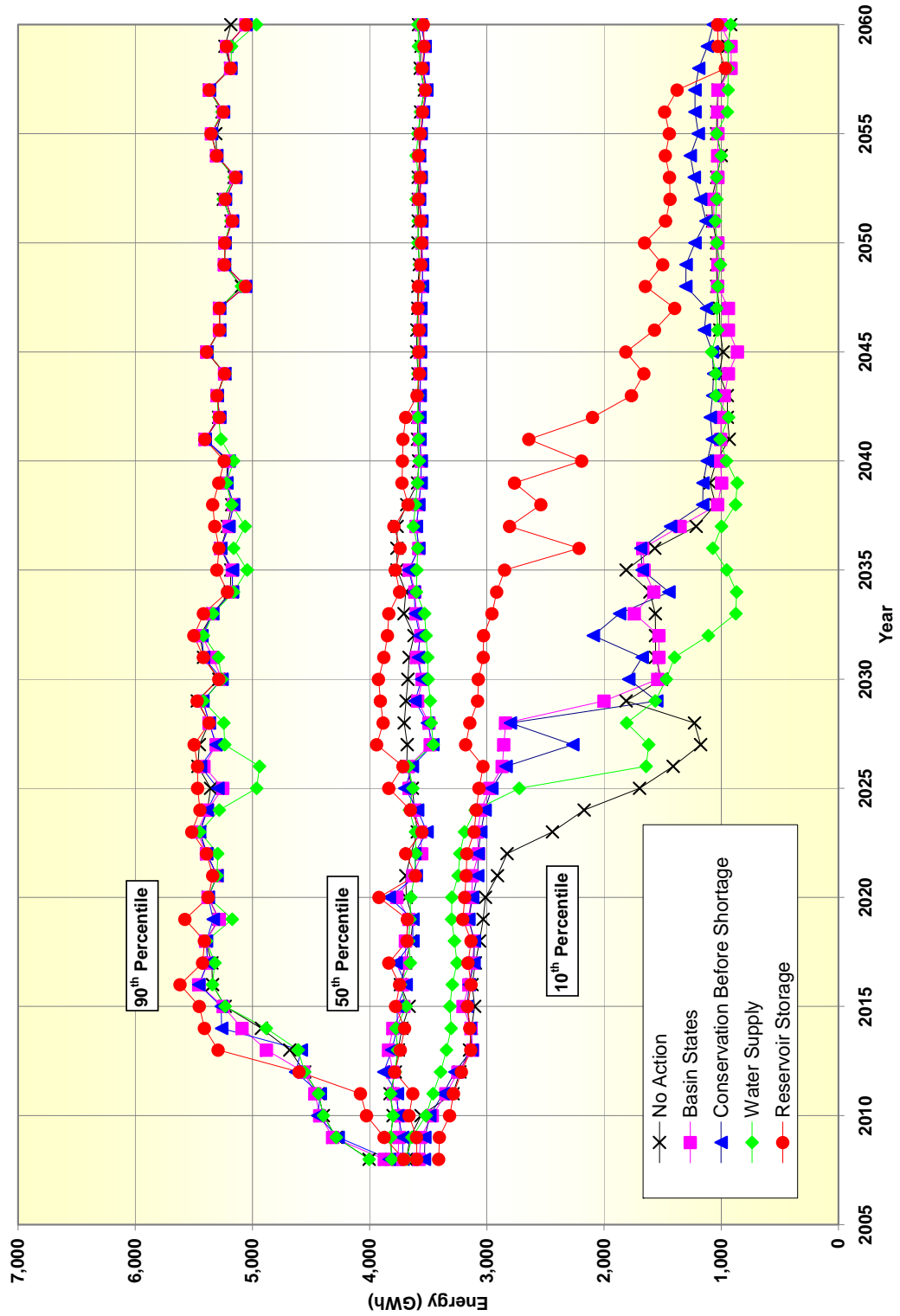


Figure P-96  
 Davis Powerplant Annual Energy Production  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

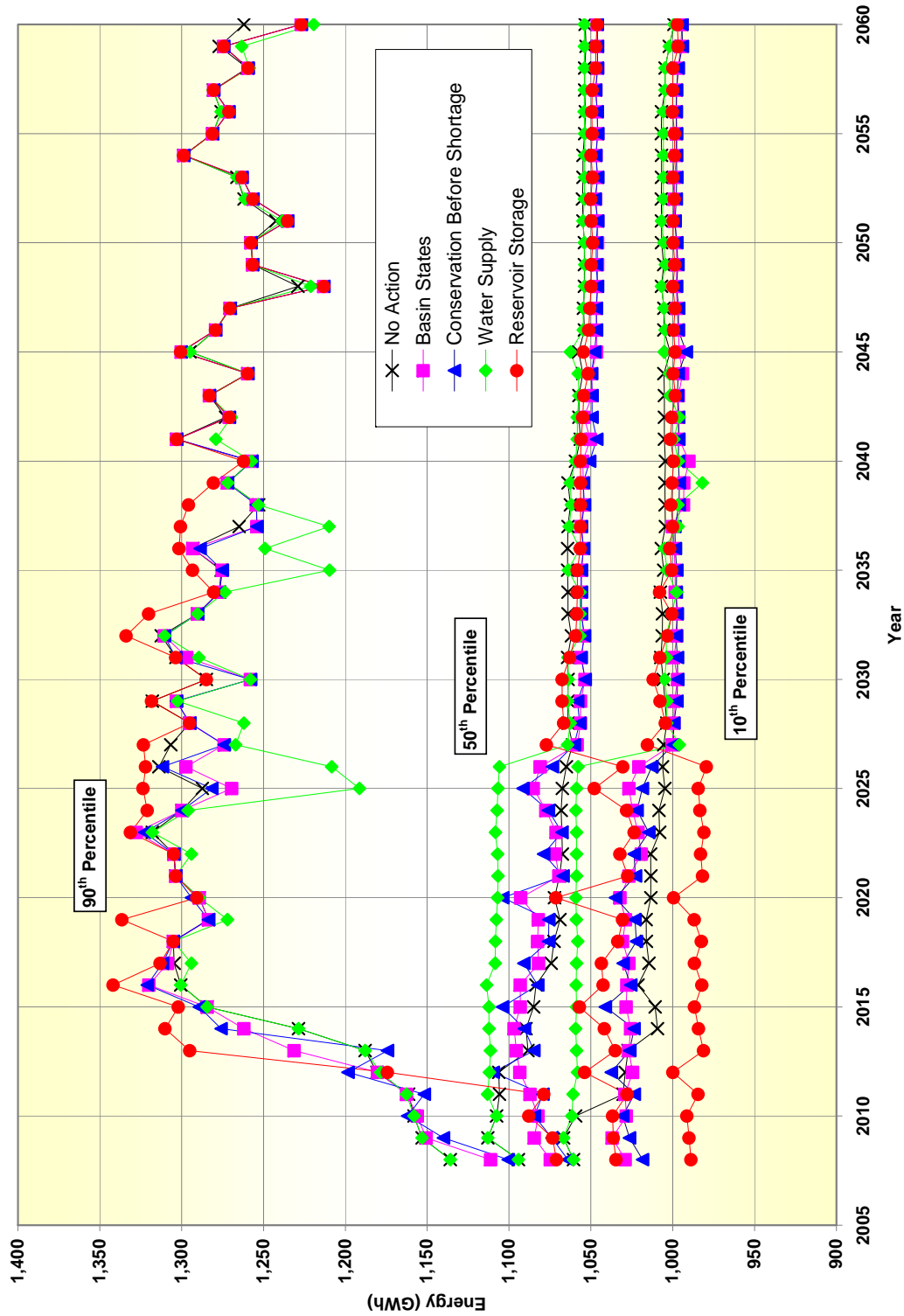


Figure P-97  
Parker Powerplant Annual Energy Production  
Comparison of Action Alternatives to No Action Alternative  
90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

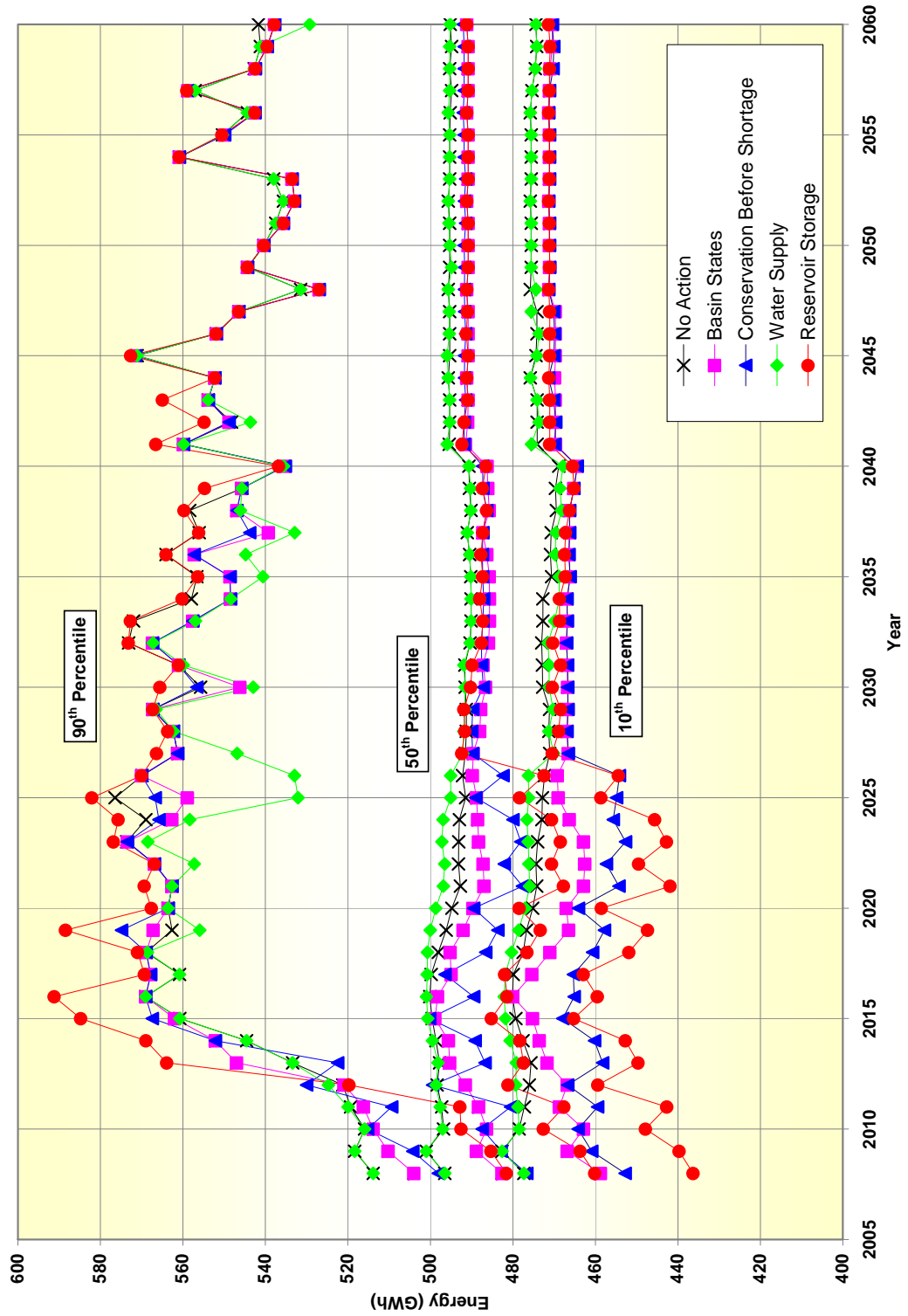




Figure P-98  
 Lake Powell End-of-July Water Elevations  
 Comparison of Action Alternatives to No Action Alternative  
 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

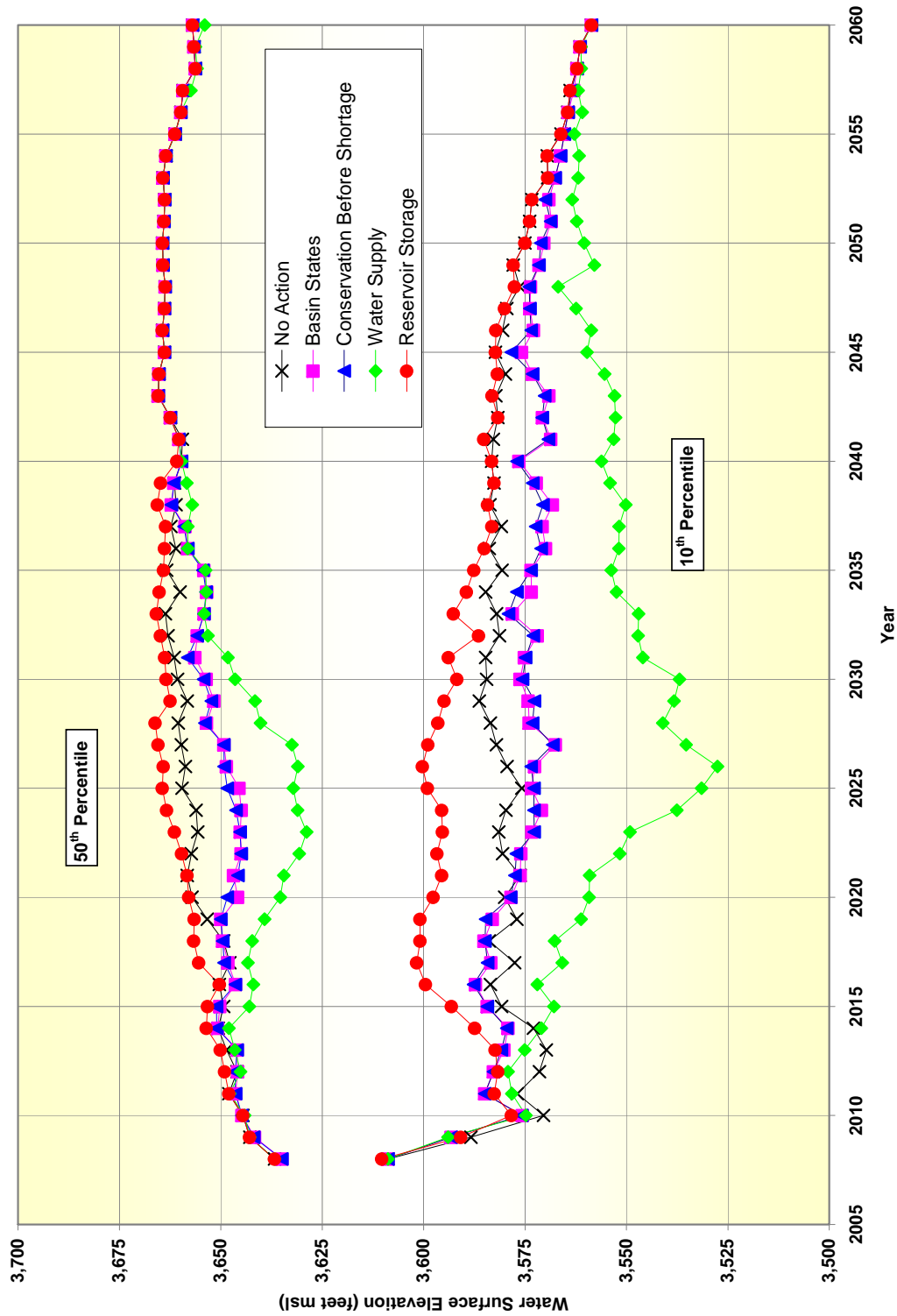


Figure P-99  
Lake Mead End-of-December Water Elevations  
Comparison of Action Alternatives to No Action Alternative  
50<sup>th</sup> and 10<sup>th</sup> Percentile Values

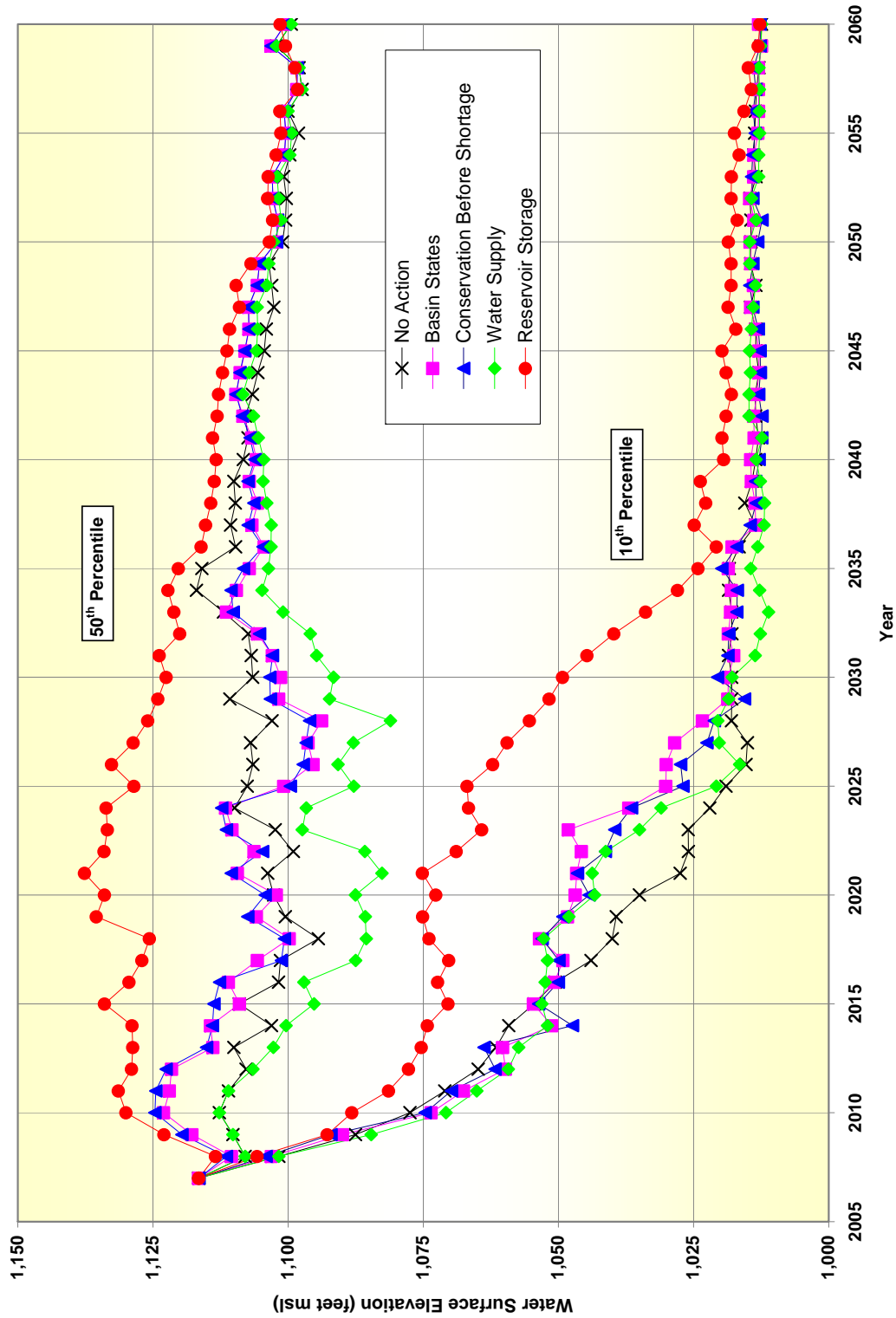


Figure P-100  
 Headgate Rock Dam Annual Releases  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

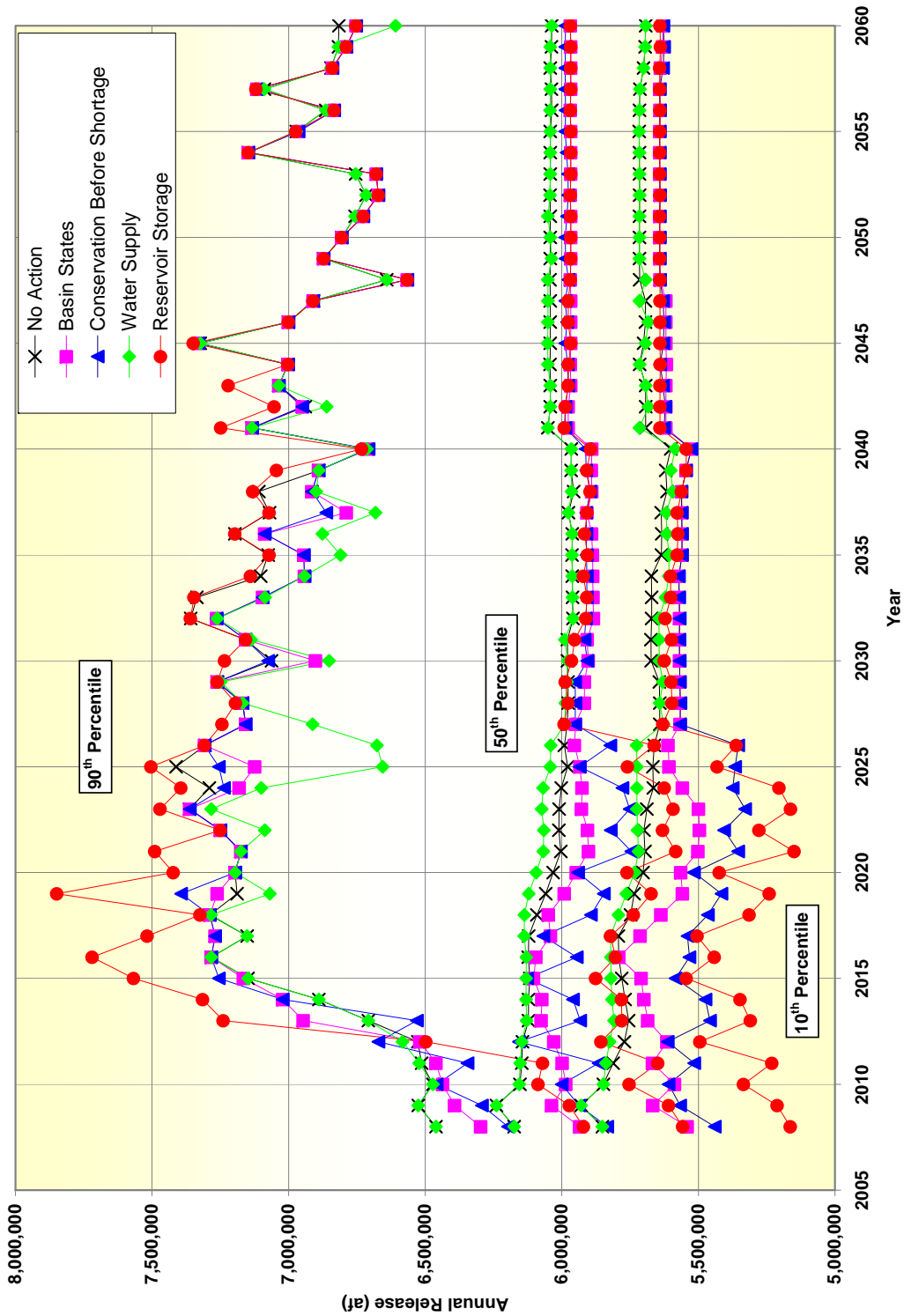


Figure P-101  
 Headgate Rock Dam Annual Releases  
 Comparison of Action Alternatives to No Action Alternative  
 Average Values

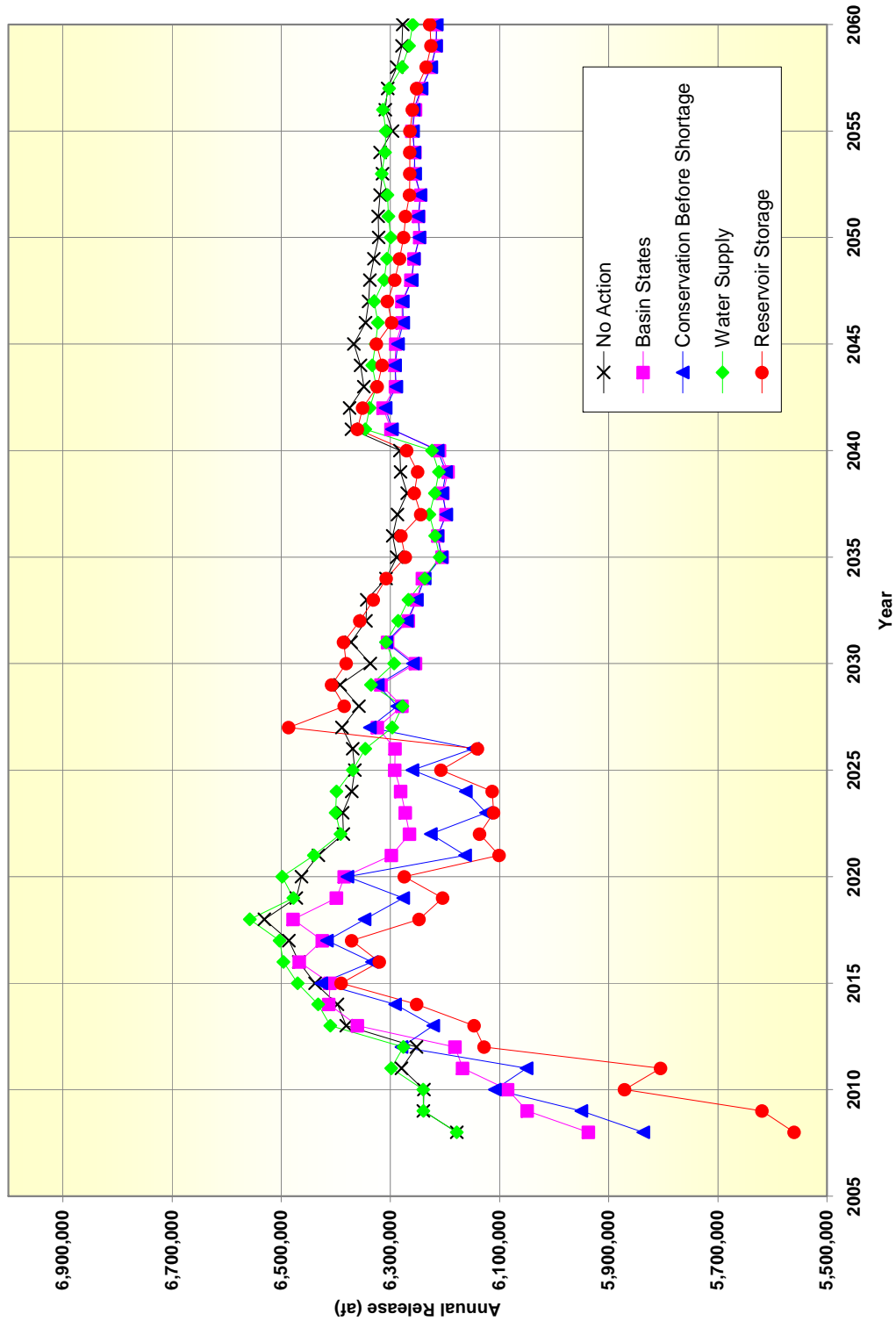


Figure P-102  
 Headgate Rock Powerplant Annual Energy Production  
 Comparison of Action Alternatives to No Action Alternative  
 90<sup>th</sup>, 50<sup>th</sup> and 10<sup>th</sup> Percentile Values

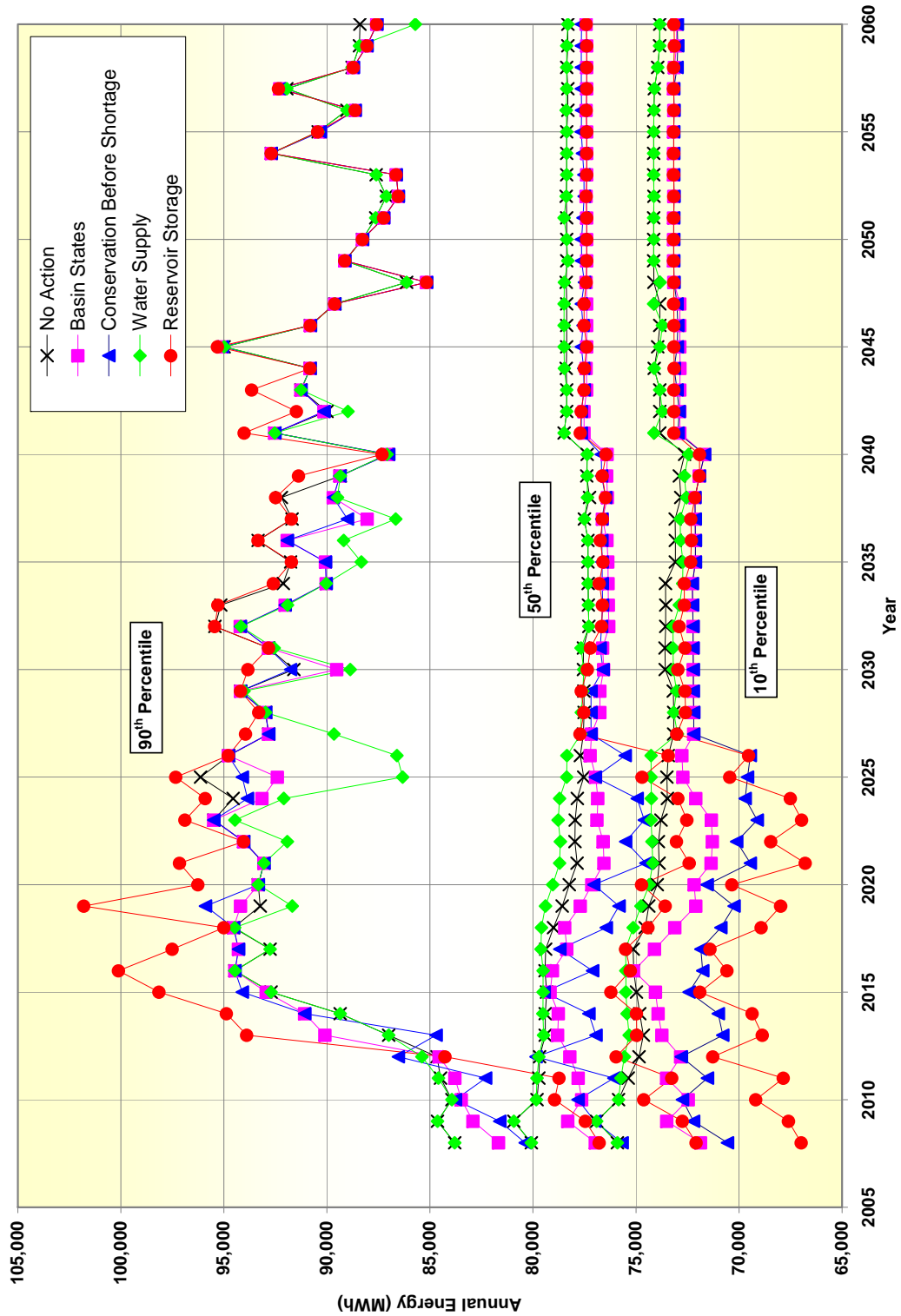
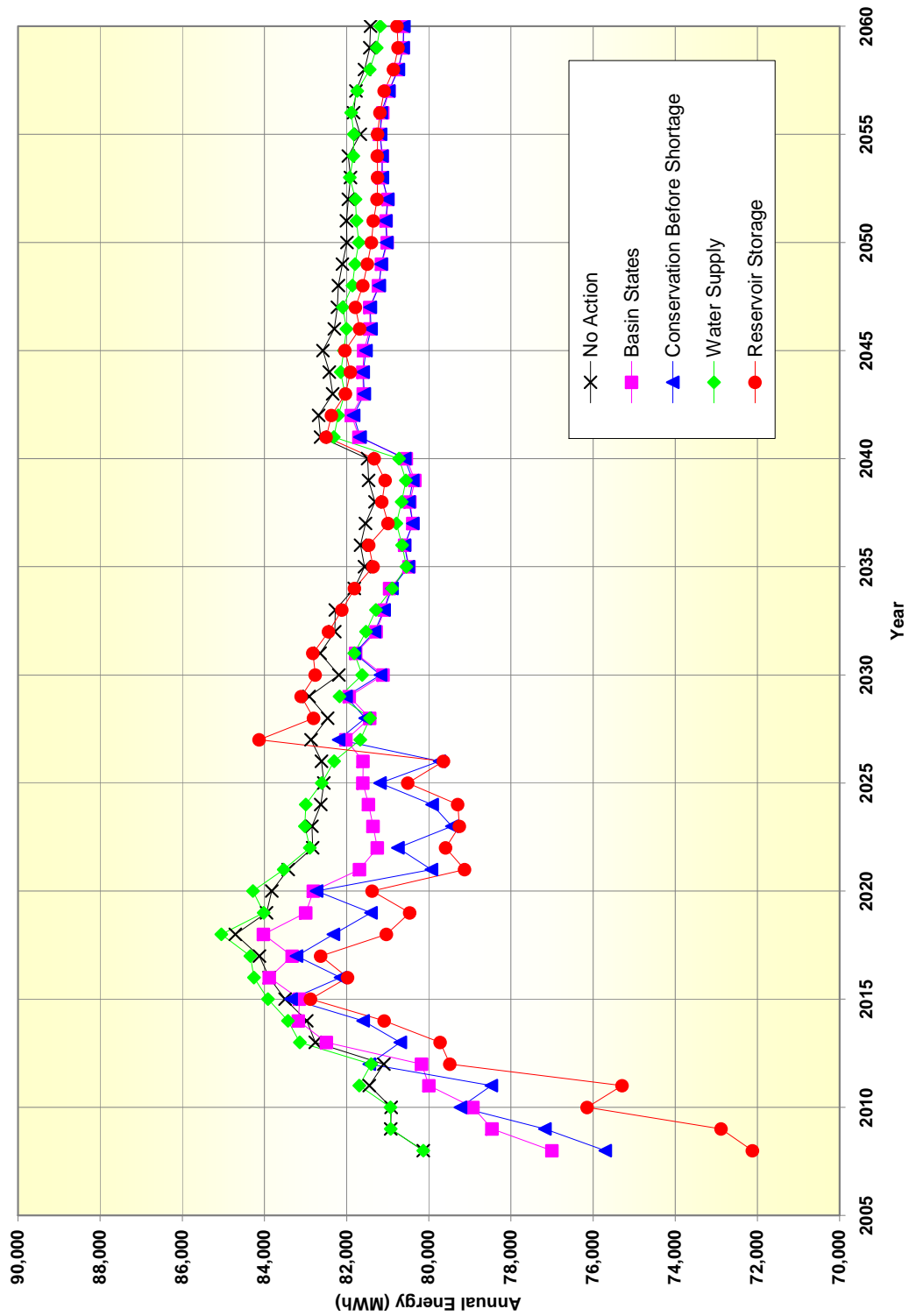


Figure P-103  
Headgate Rock Powerplant Annual Energy Production  
Comparison of Action Alternatives to No Action Alternative  
Average Values



1

2