Water Quality Impact Analysis Report Volume II-Figures

SANTA ROSA SUBREGIONAL LONG-TERM WASTEWATER PROJECT

Prepared for

City of Santa Rosa
and
U.S. Army Corps of Engineers

July 1996

Prepared by

MERRITT SMITH CONSULTING
Environmental Science and Communication
3675 Mt. Diablo Blvd., #120 Lafayette, CA 94549

For

HARLAND BARTHOLOMEW & ASSOCIATES, INC.

WATER QUALITY IMPACT ANALYSIS REPORT VOLUME II-FIGURES

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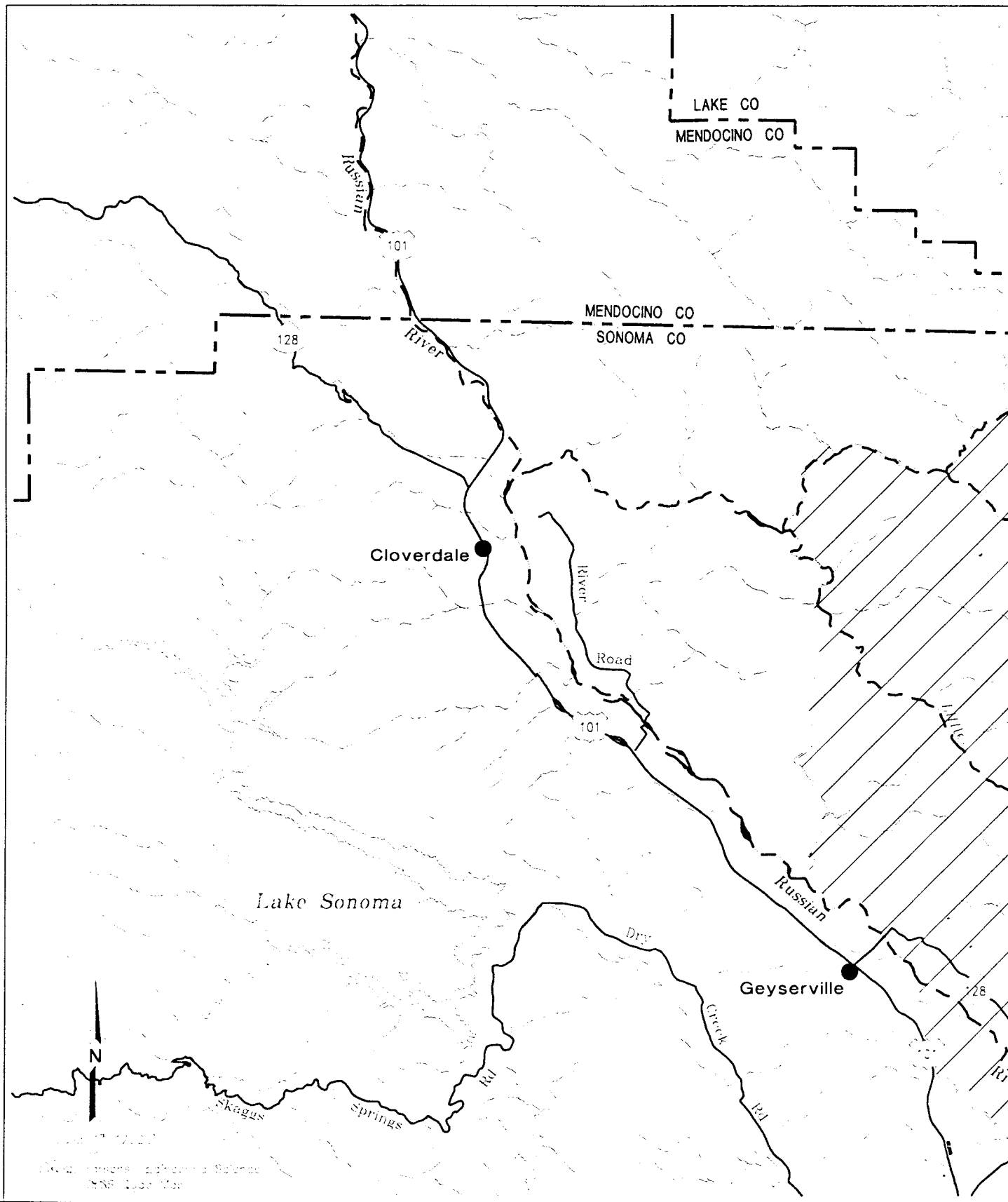
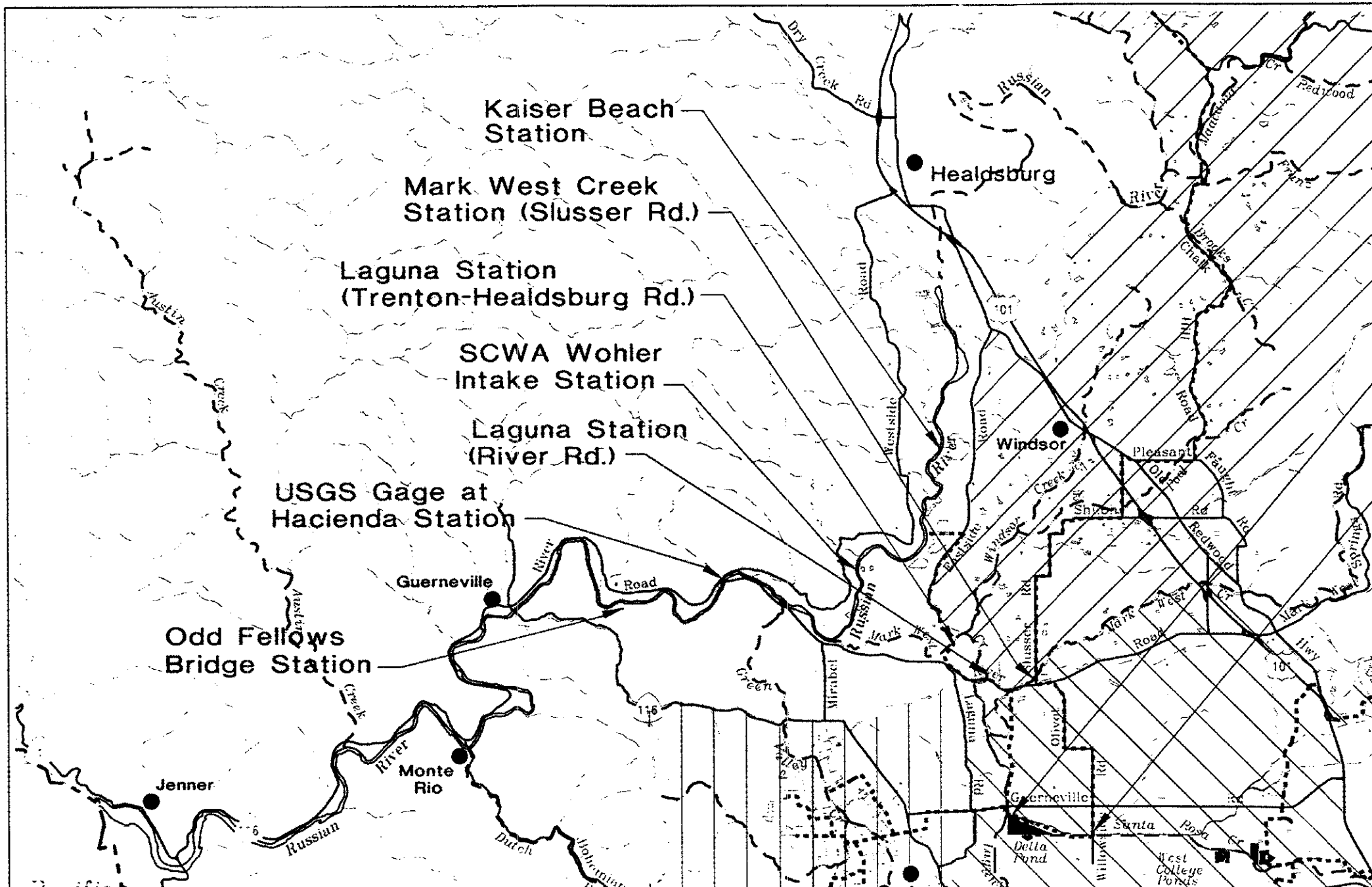


HARLAND BARTHOLOMEW and ASSOCIATES, INC.

A UNIT OF PARSONS INFRASTRUCTURE and TECHNOLOGY GROUP INC.

PARSONS

Santa R


Kaiser Beach Station
Mark West Creek Station (Slusser Rd.)
Laguna Station (Trenton-Healdsburg Rd.)
SCWA Wohler Intake Station
Laguna Station (River Rd.)
USGS Gage at Hacienda Station
Odd Fellows Bridge Station
Healdsburg
Windsor
Guerneville
Monte Rio
Jenner
Russian River
Dry Creek Rd
Austin Creek
Dutch Bill Creek
Mirabel Rd
Laguna Rd
Slusser Rd
Olivet Rd
Redwood Rd
Pleasant Hill Rd
Shiloh Rd
Santa Rosa Cr
Delta Pond
West College Ponds
Pedroncelli Winery
Chalk Hill Road
Brooks Cr
Mark West Creek
Westside Road
Eastside Rd
Windsor Creek
Green Valley Rd
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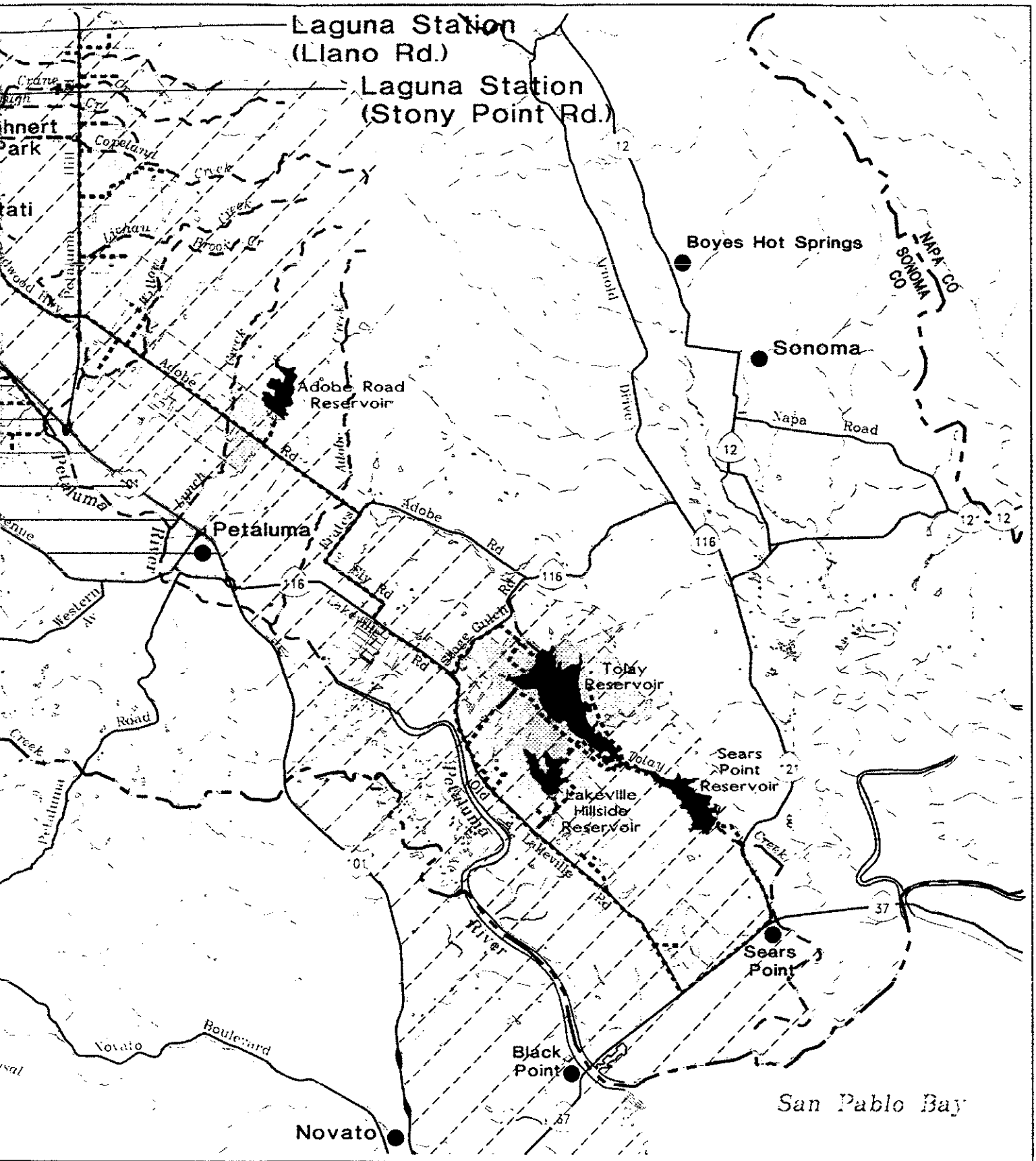
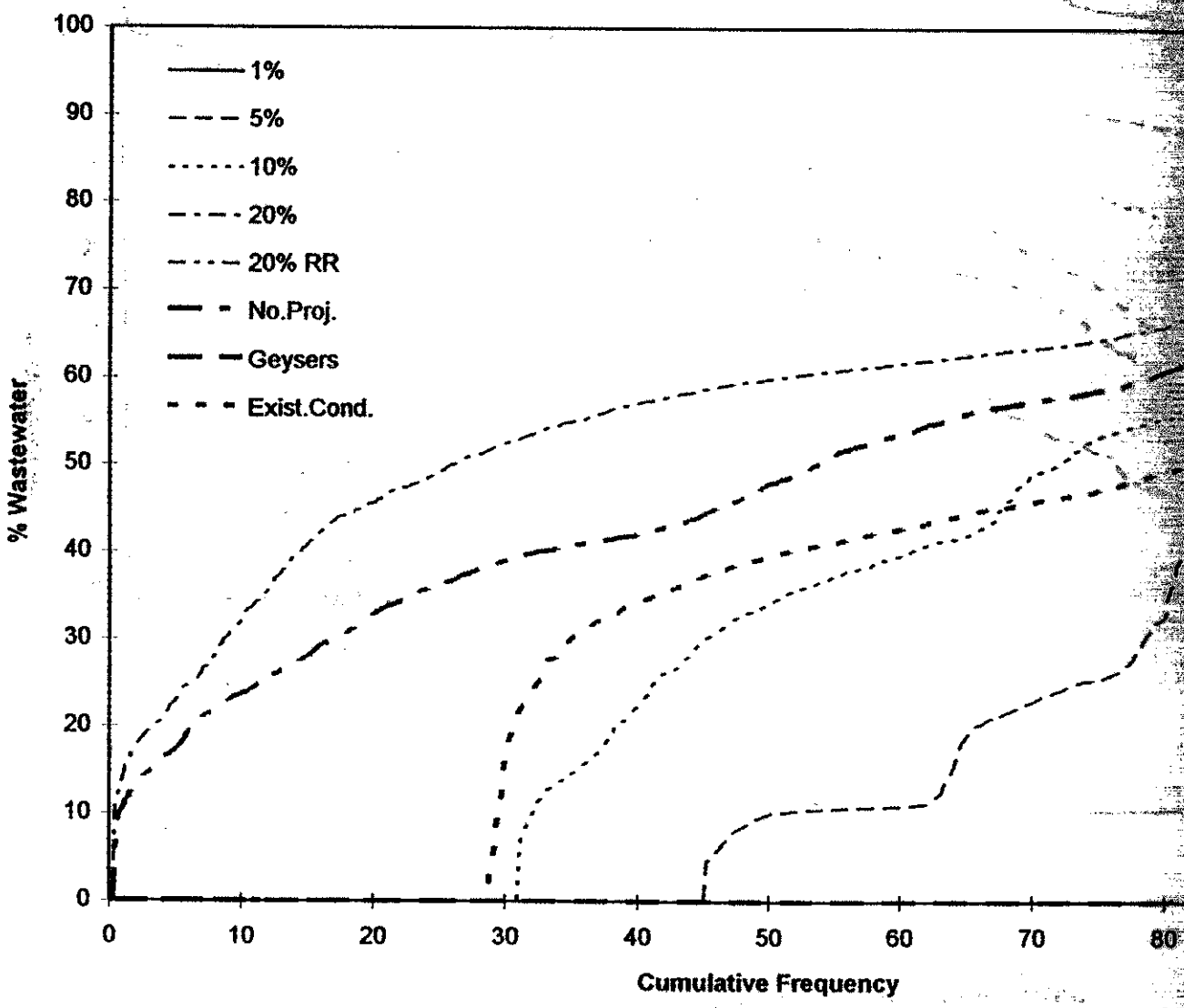


Subregional Long-Term

WATER QUALITY

Figure 2-1c

Figure 4-1. Distribution of Reclaimed Water Concentrations During the Discharge Season
Santa Rosa Creek - Project Operation



SRC76.XLS

Figure 4-2. Distribution of Reclaimed Water Concentrations During the Discharge Season in a Normal Year (1961)
Santa Rosa Creek - Project Operation

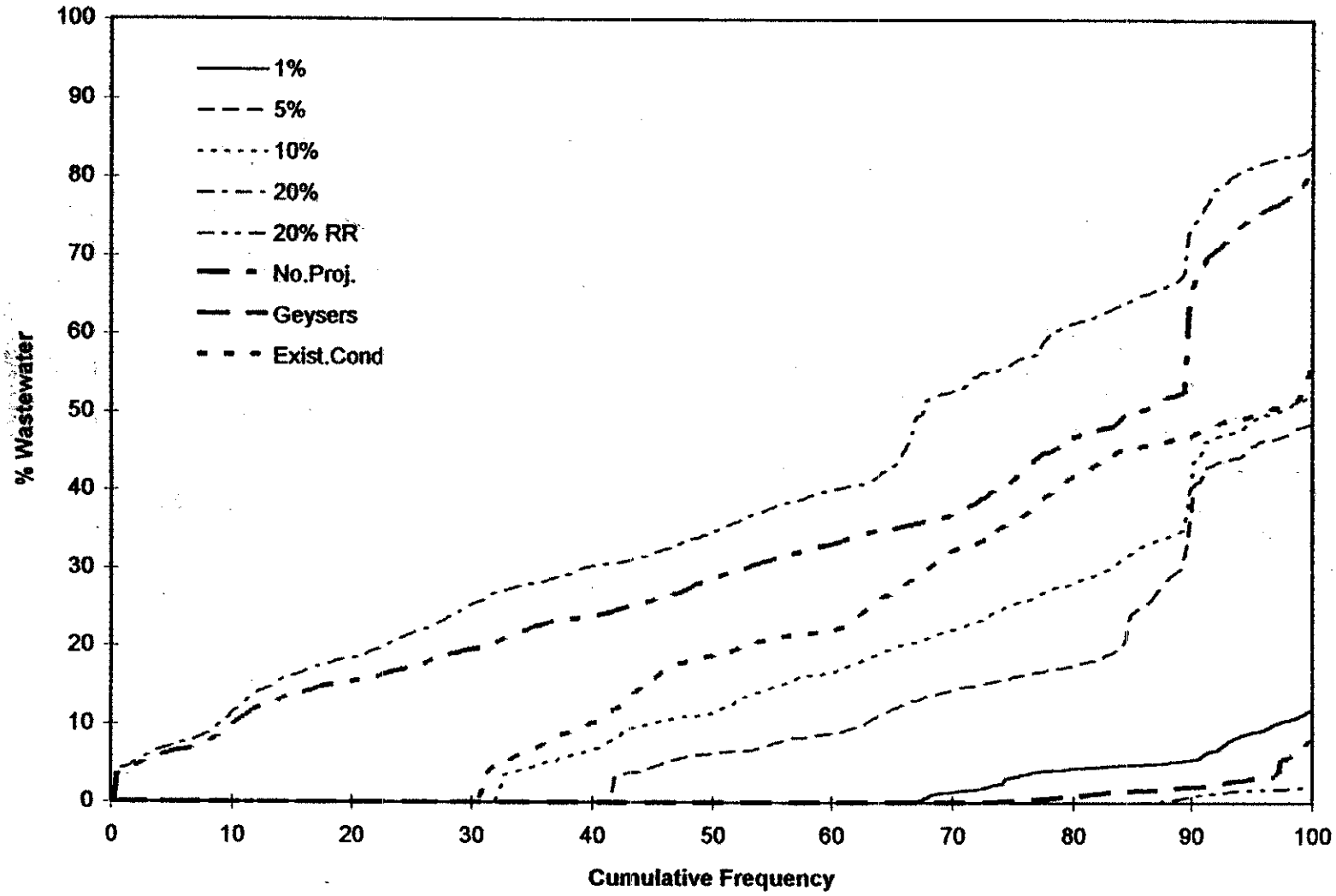


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Figure 4-3. Distribution of Reclaimed Water Concentrations During the Discharge Season in a Wet Year (1982)
Santa Rosa Creek - Project Operation

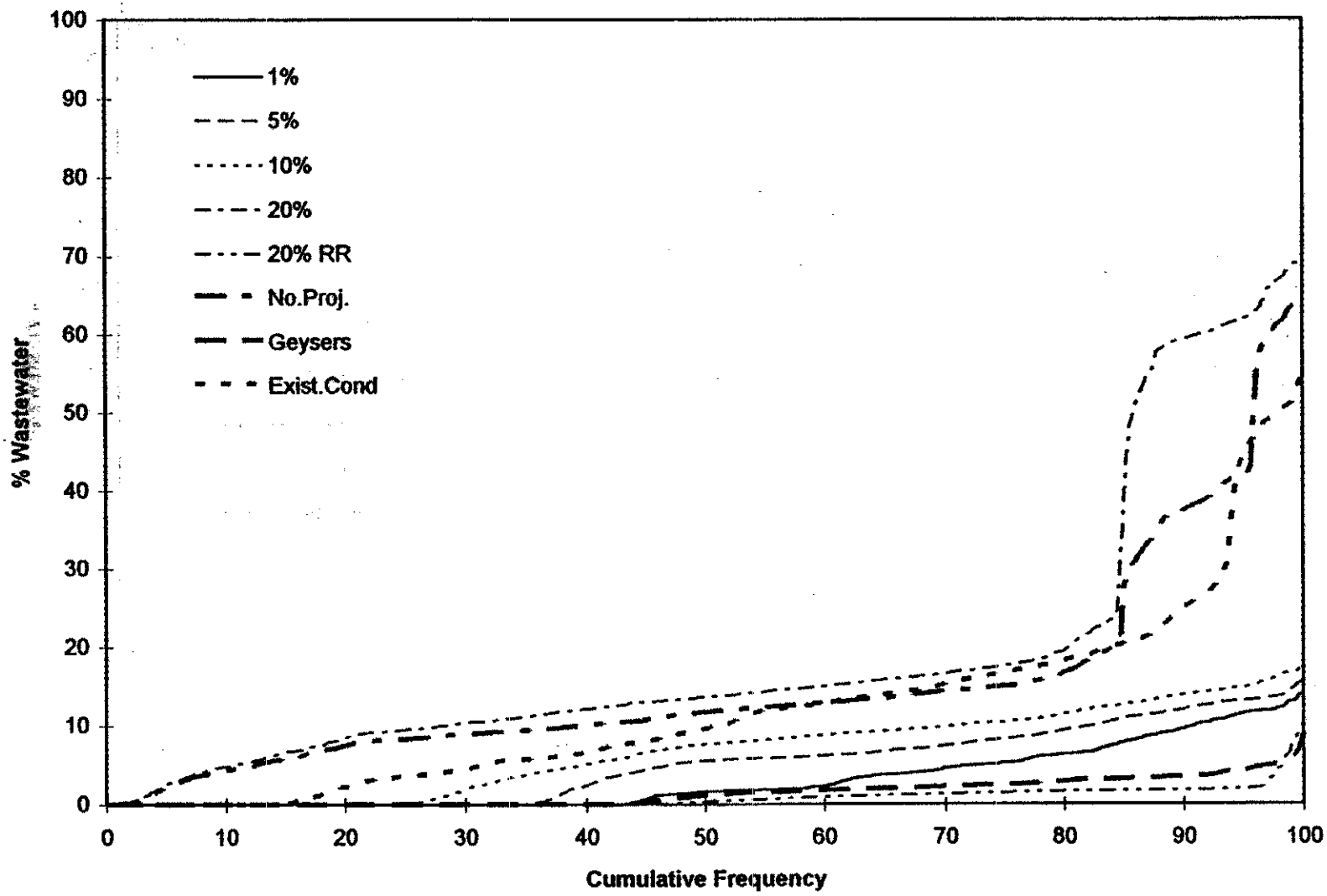

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Figure 4-4. Distribution of Reclaimed Water Concentrations During the Discharge Season
Laguna de Santa Rosa - Project Operation

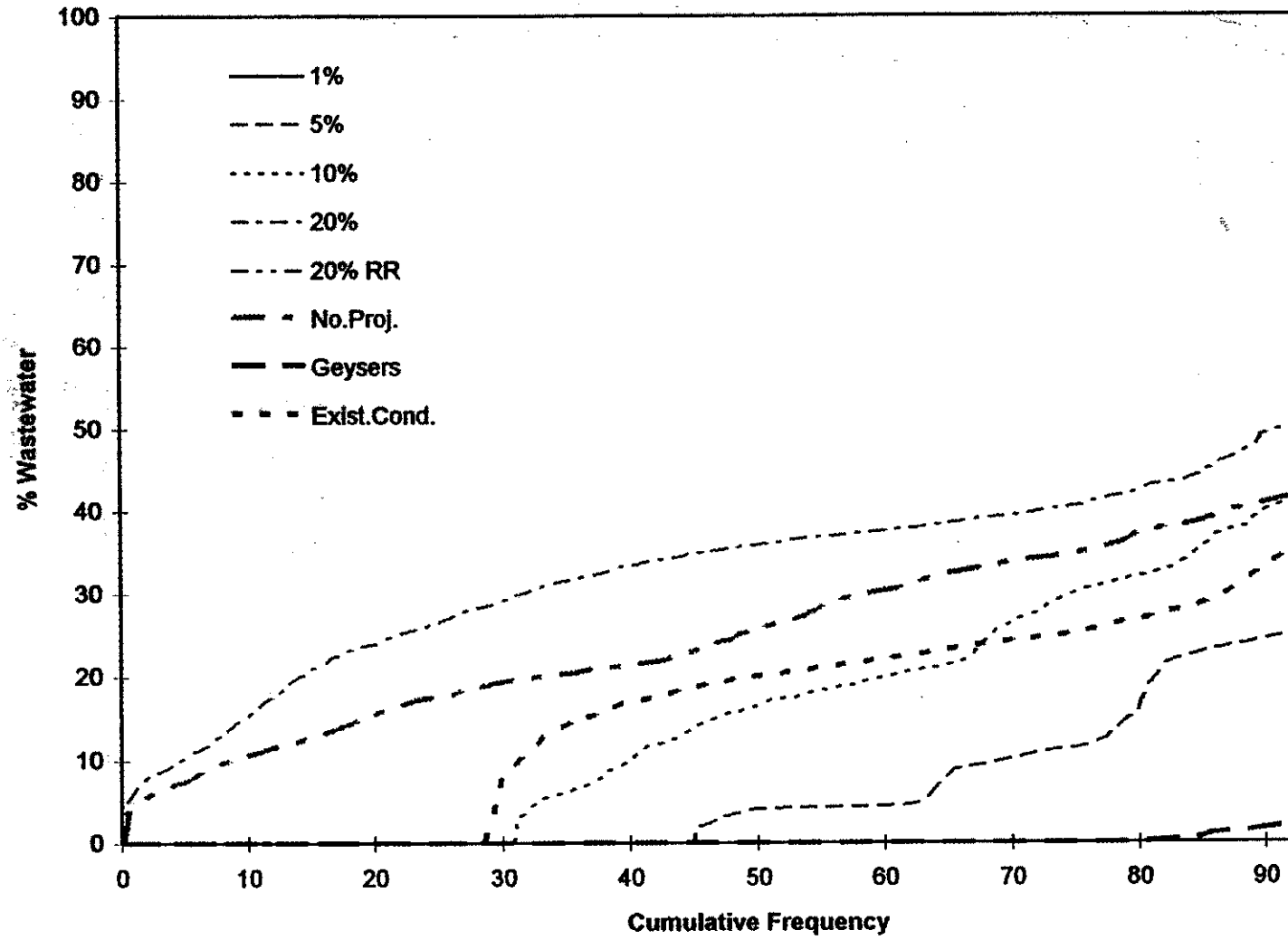

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Figure 4-5. Distribution of Reclaimed Water Concentrations During the Discharge Season in Laguna de Santa Rosa - Project Operation

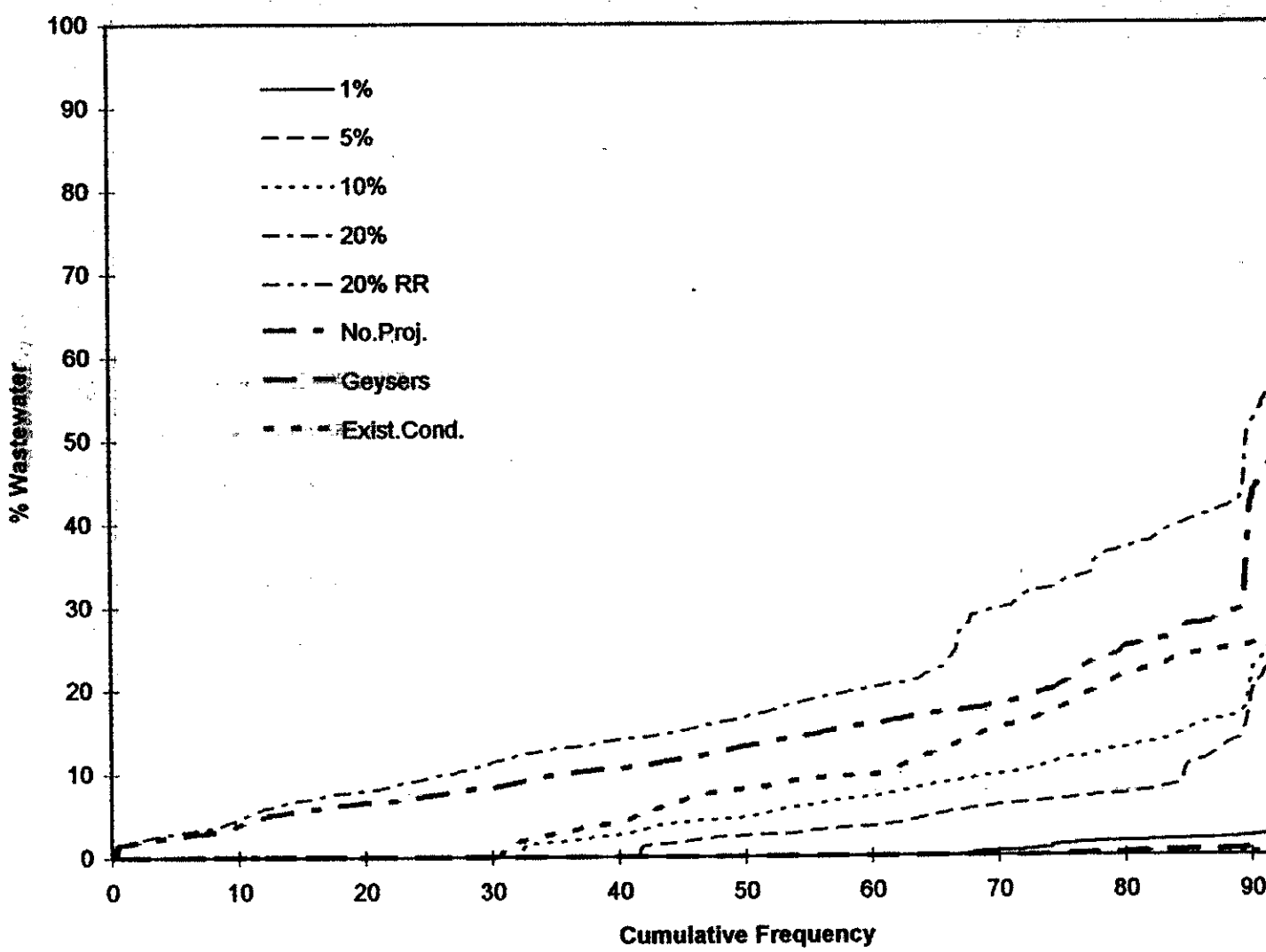

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Figure 4-6. Distribution of Reclaimed Water Concentrations During the Discharge Season
Laguna de Santa Rosa - Project Operation

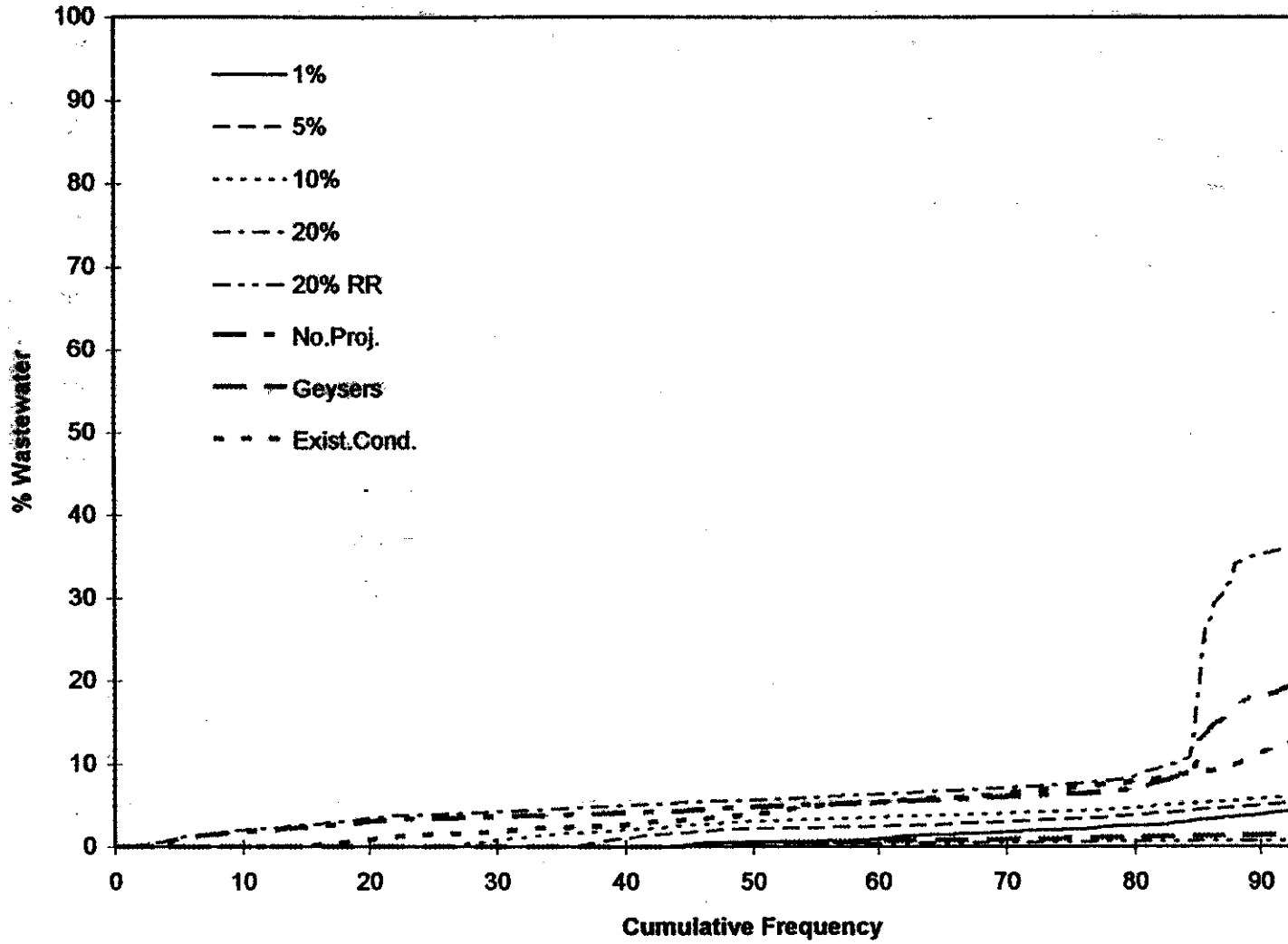

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Figure 4-7. Distribution of Reclaimed Water Concentrations During the Discharge Season
Russian River Below Laguna - Project Operation

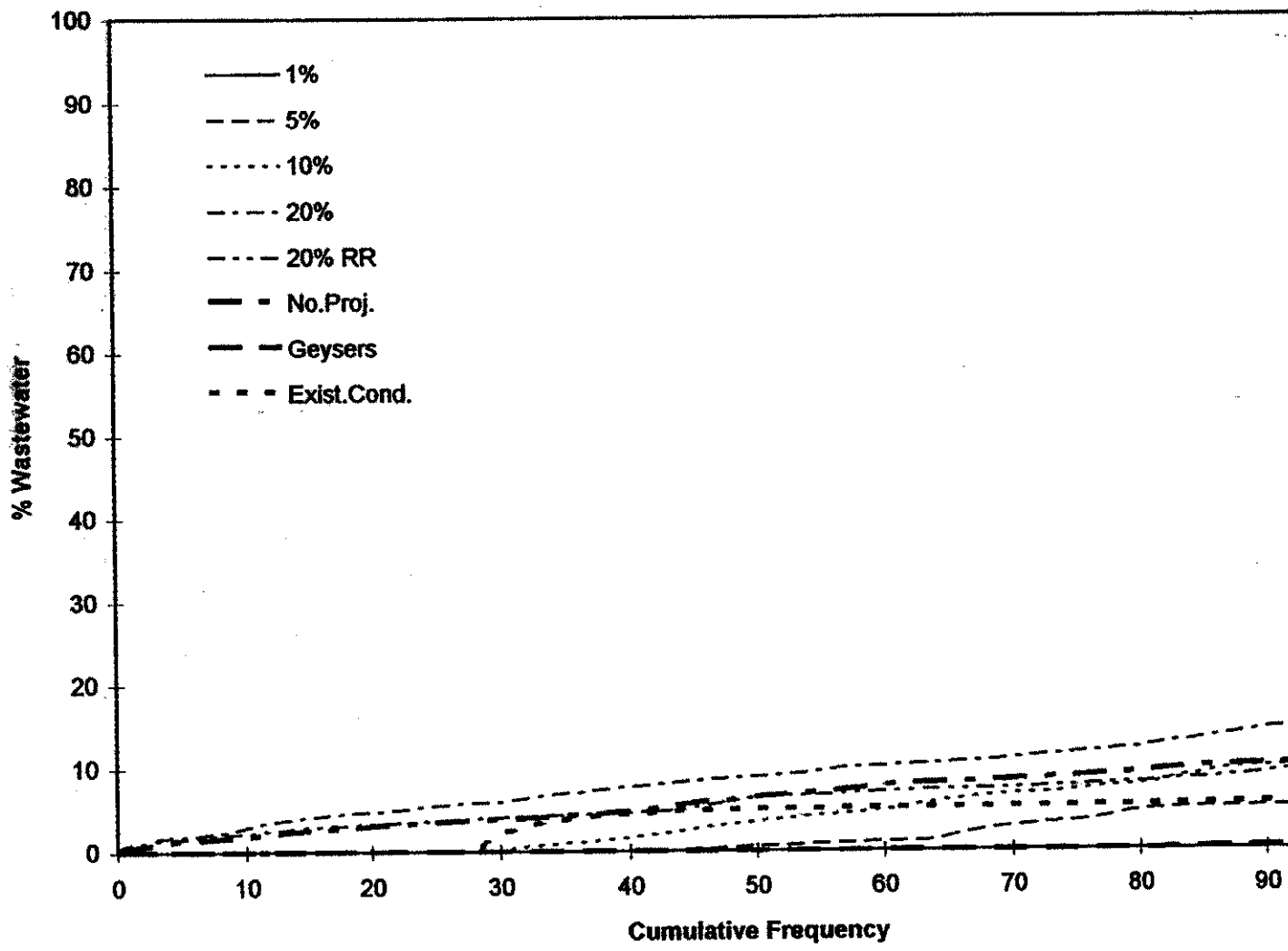

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Figure 4-8. Distribution of Reclaimed Water Concentration During the Discharge Season in a Russian River Below Laguna - Project Operation

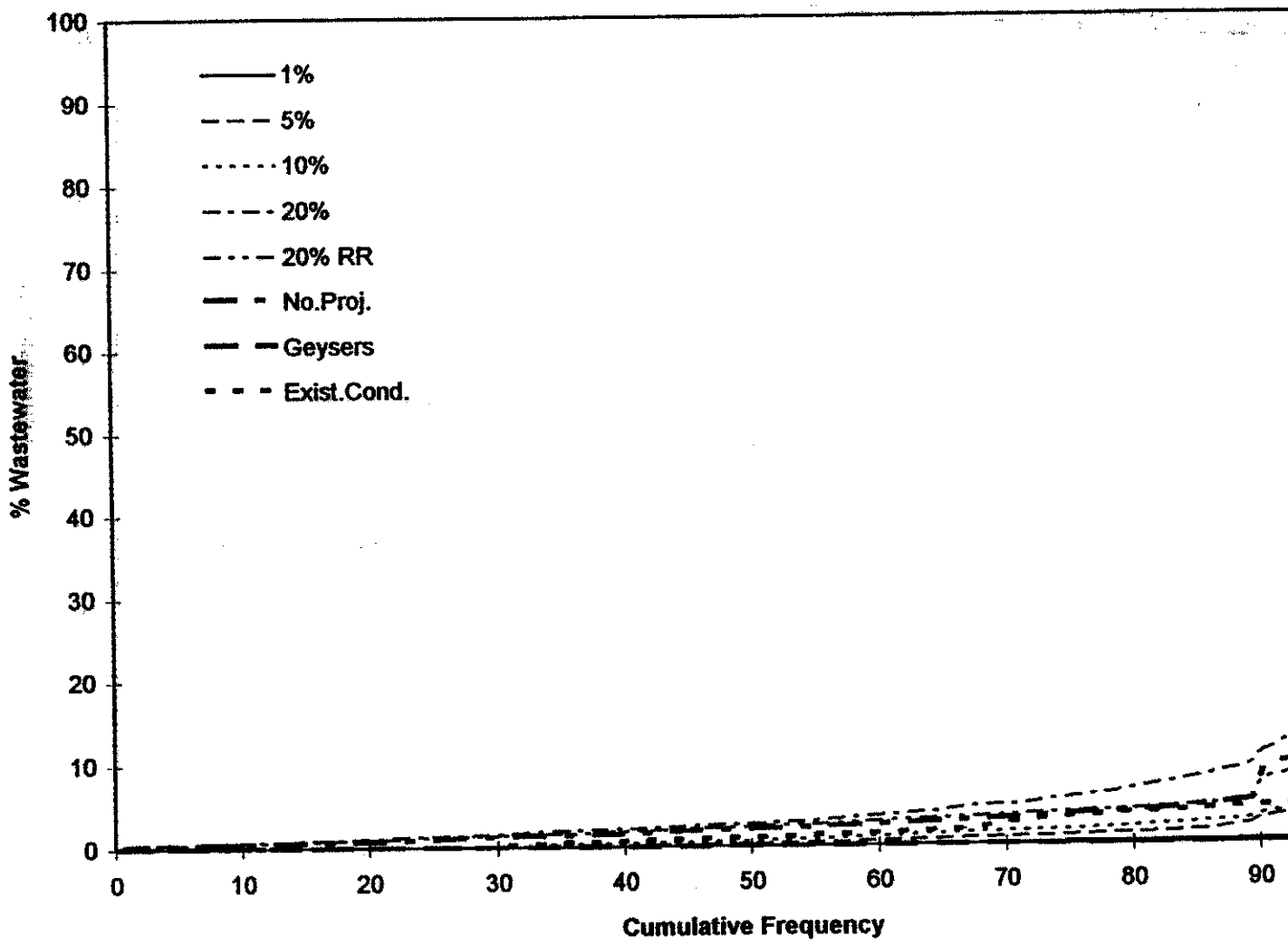

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Figure 4-9. Distribution of Reclaimed Water Concentrations During the Discharge Season
Russian River Below Laguna - Project Operation

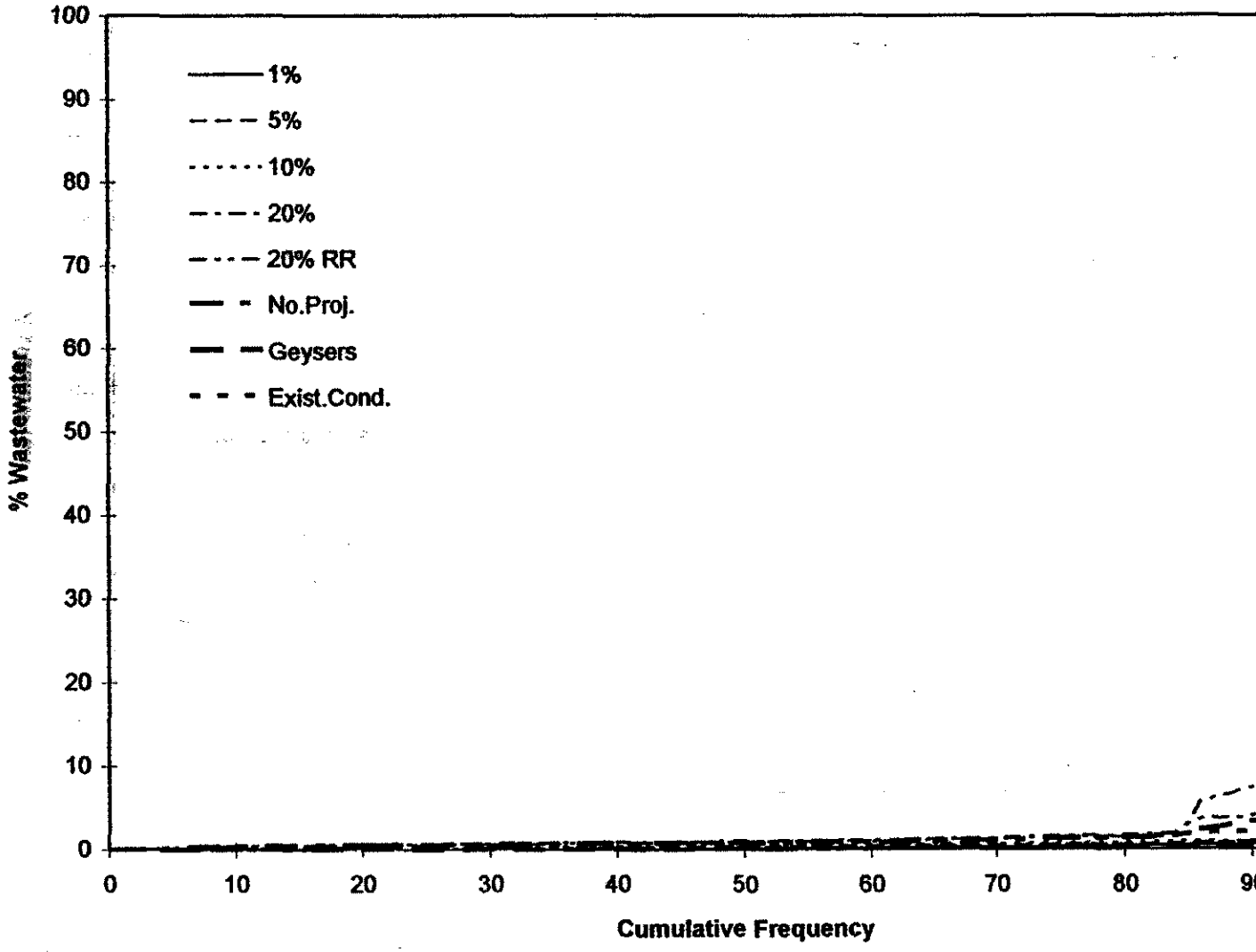

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Figure 4-10. Distribution of Reclaimed Water Concentration During the Discharge Season
Russian River Above Laguna - Project Operation

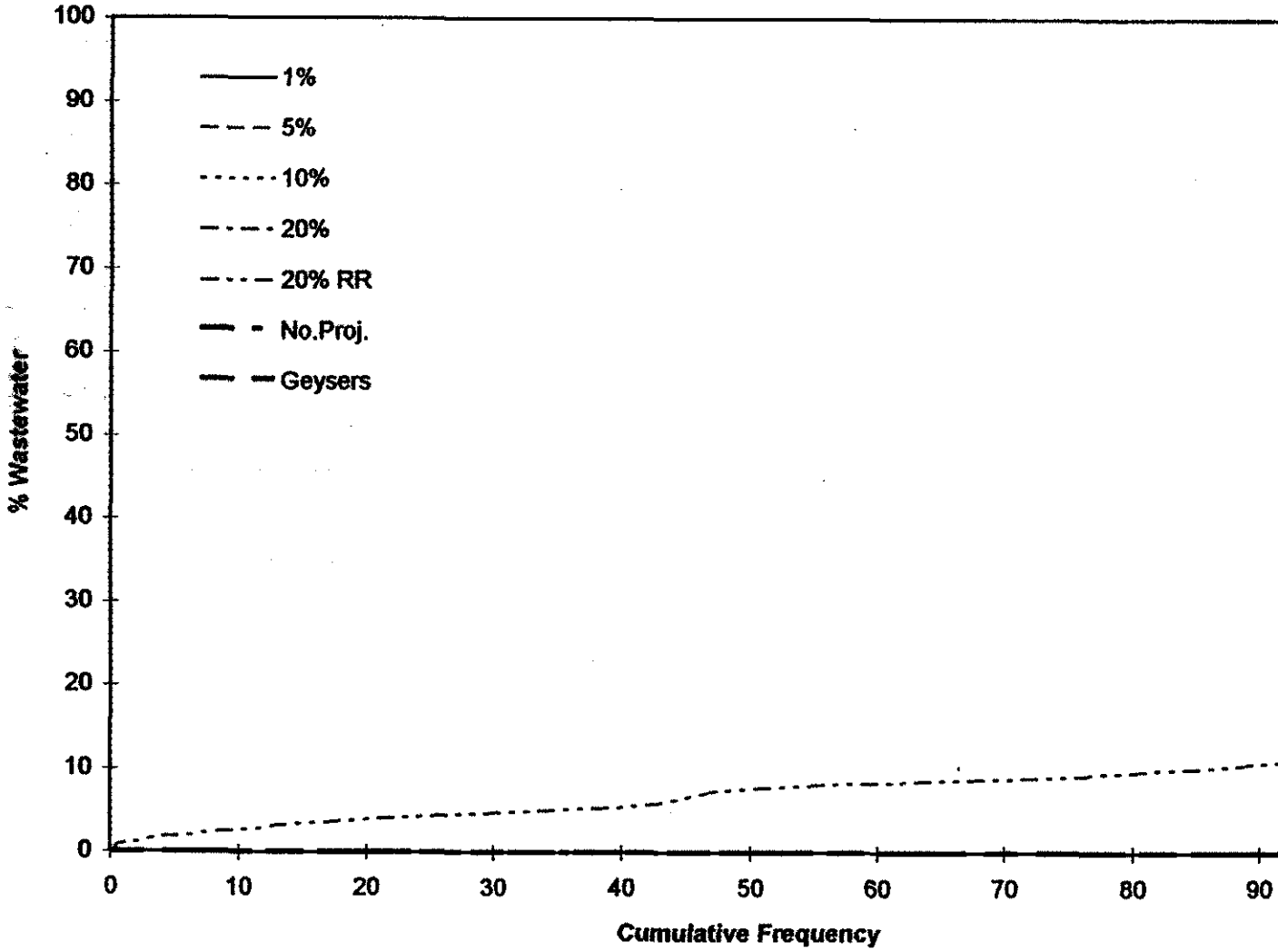

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Figure 4-11. Distribution of Reclaimed Water Concentration During the Discharge Seaso
(1961)
Russian River Above Laguna - Project Operation

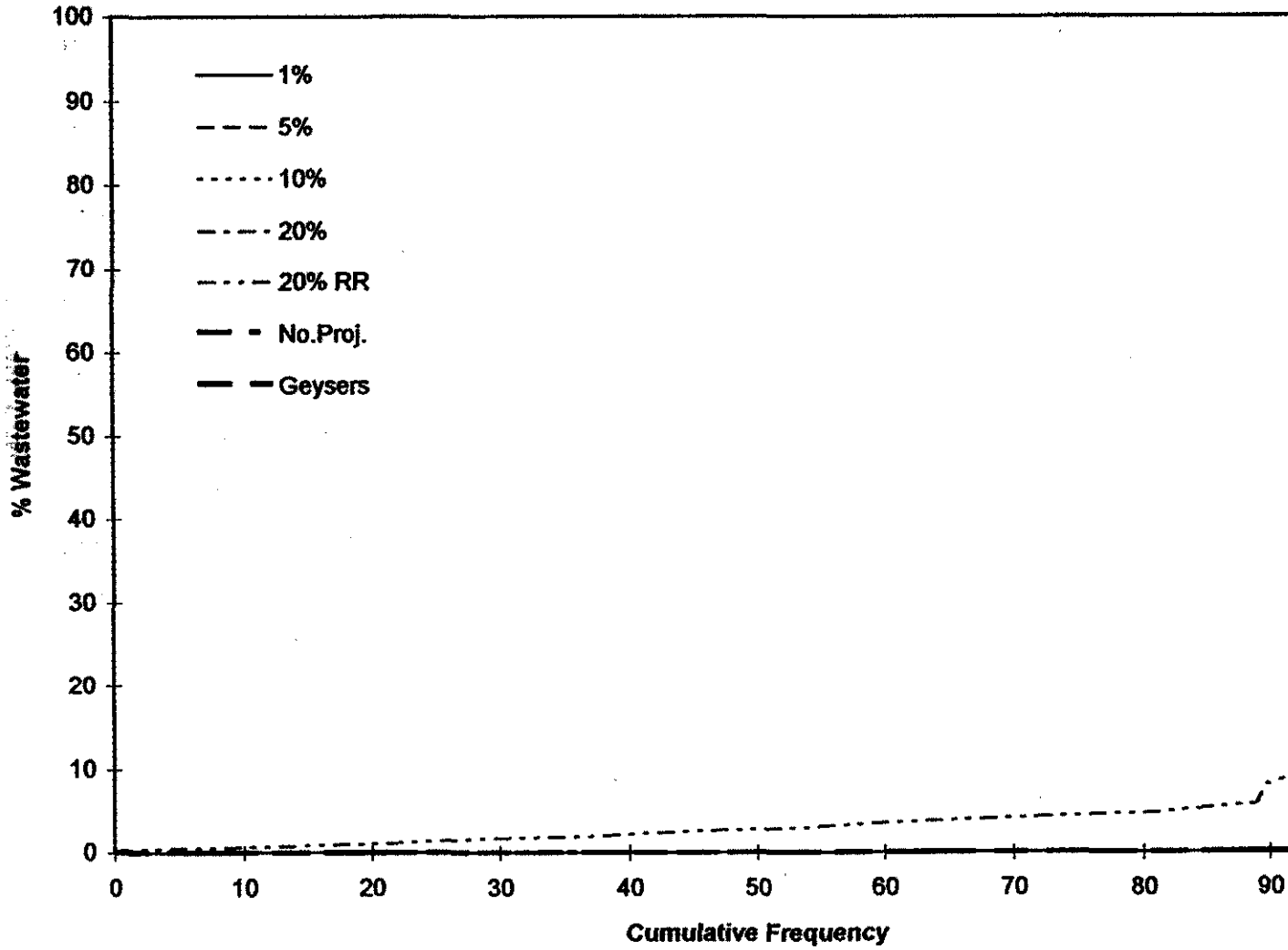

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Figure 4-12. Distribution of Reclaimed Water Concentrations During the Discharge Season in a Wet Year (1982)
Russian River Above Laguna - Project Operation

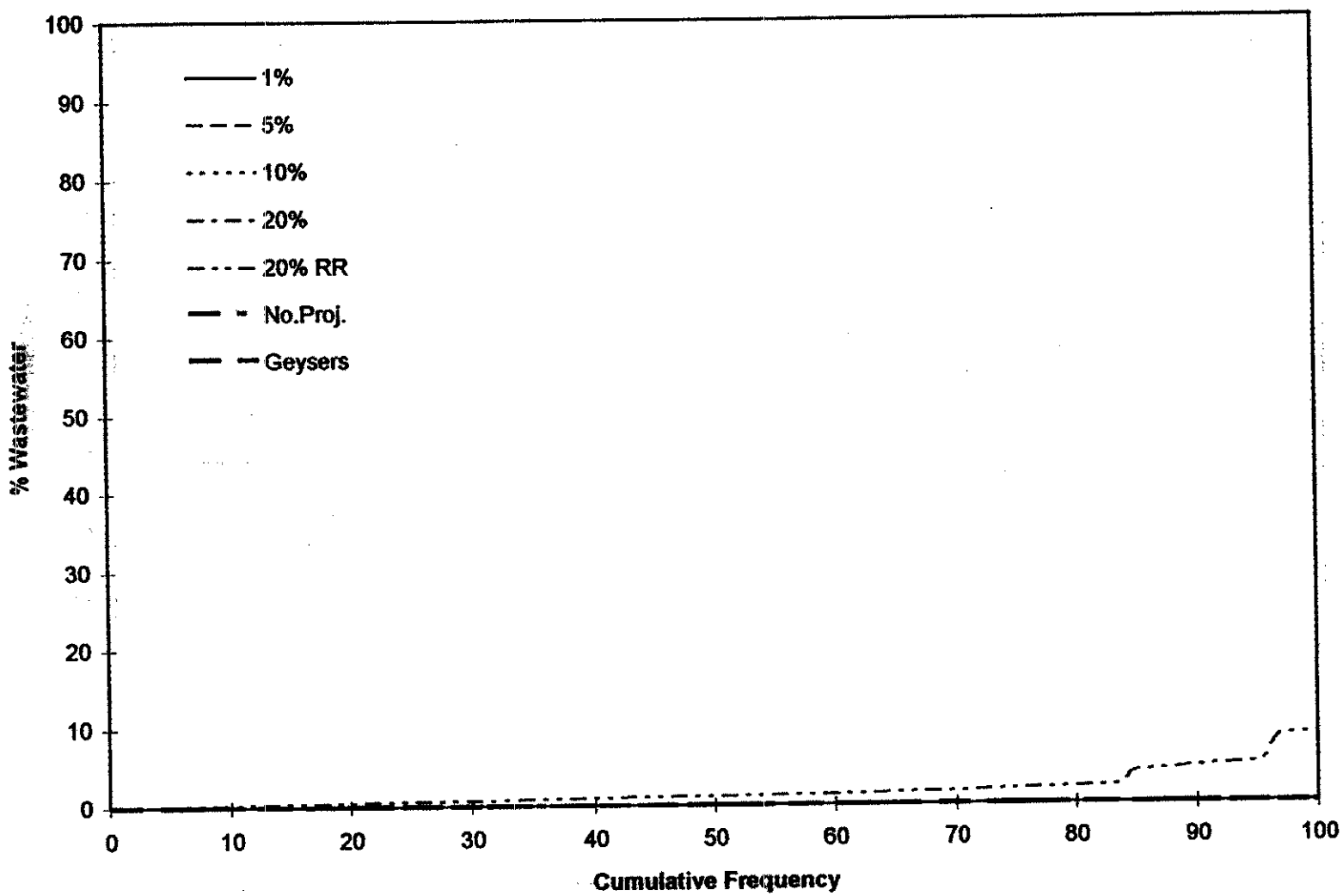

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FIGURE 4-13. Discharge Impacts on Benthic Algae - 1% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project Operations

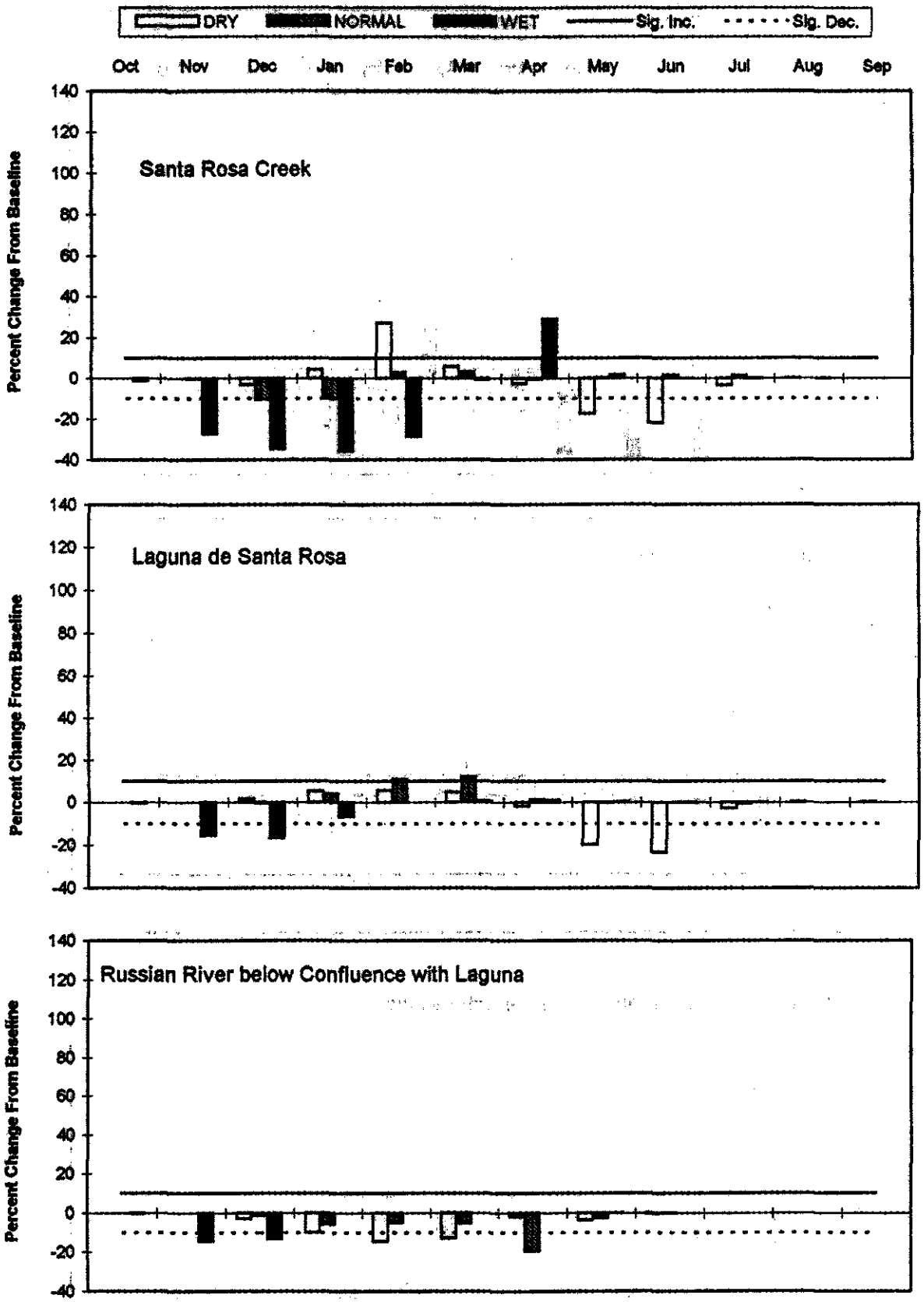


FIGURE 4-13. Discharge Impacts on Benthic Algae - 5% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

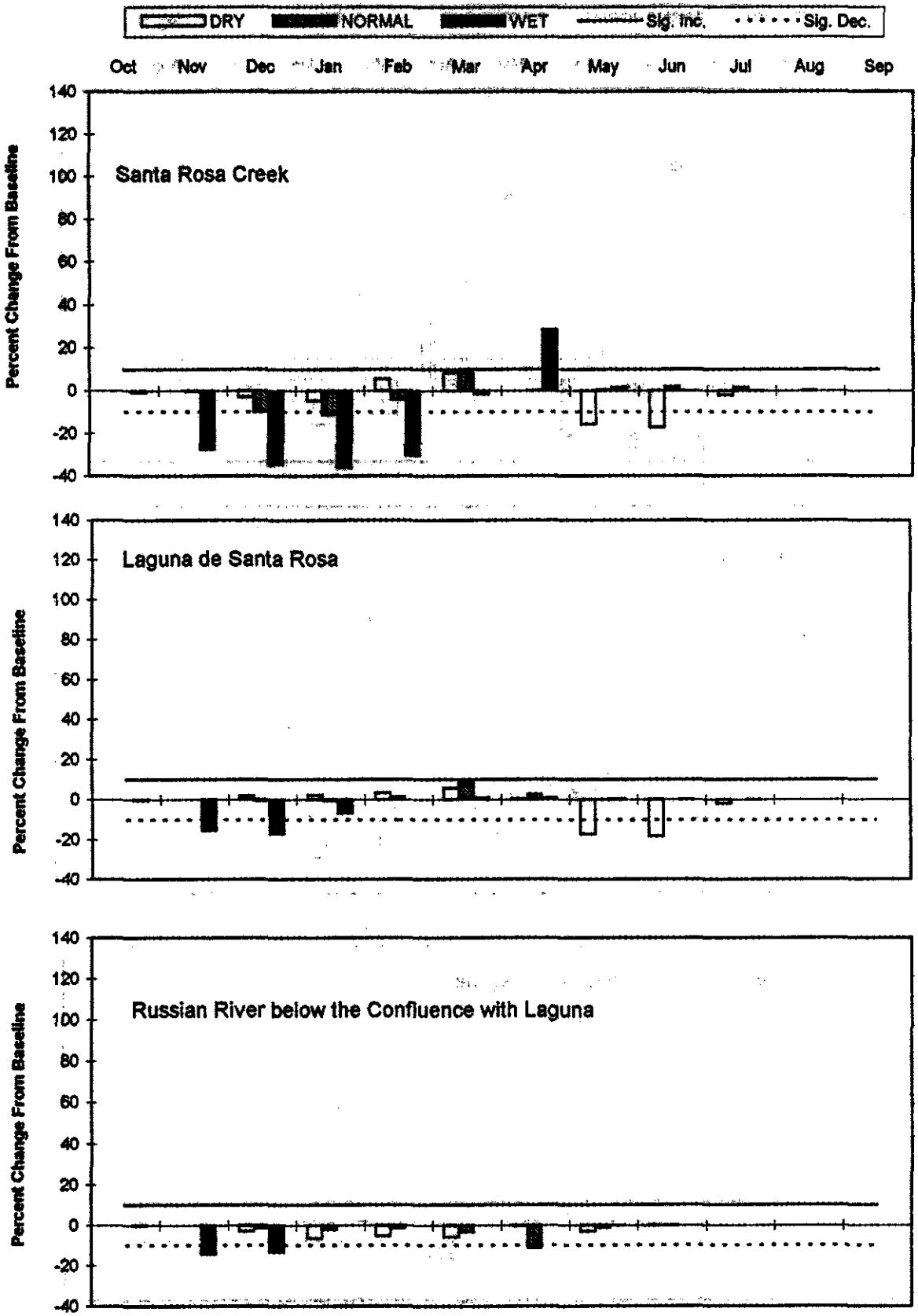


FIGURE 4-13. Discharge Impacts on Benthic Algae - 10% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

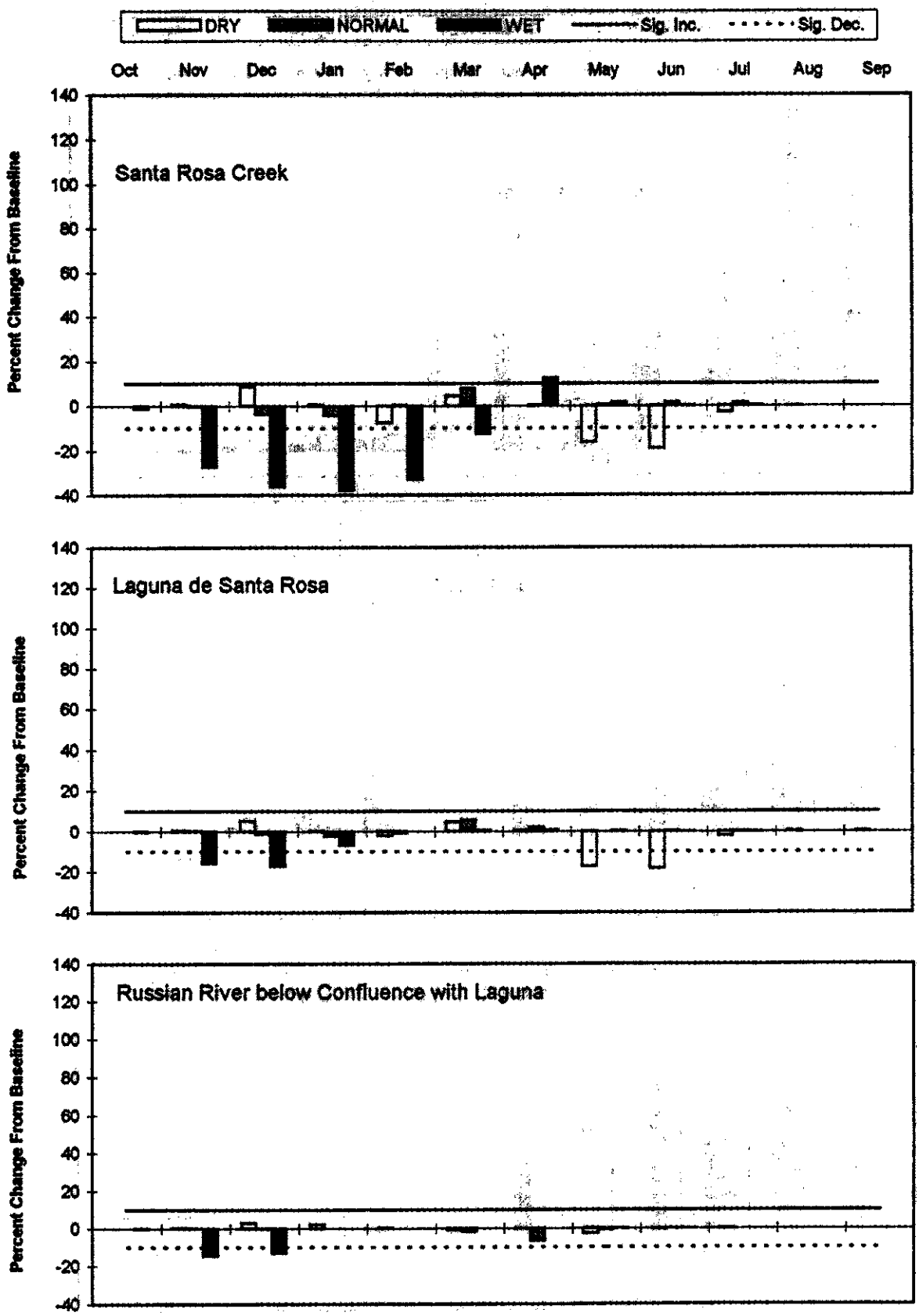


FIGURE 4-13. Discharge Impacts on Benthic Algae - 20% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

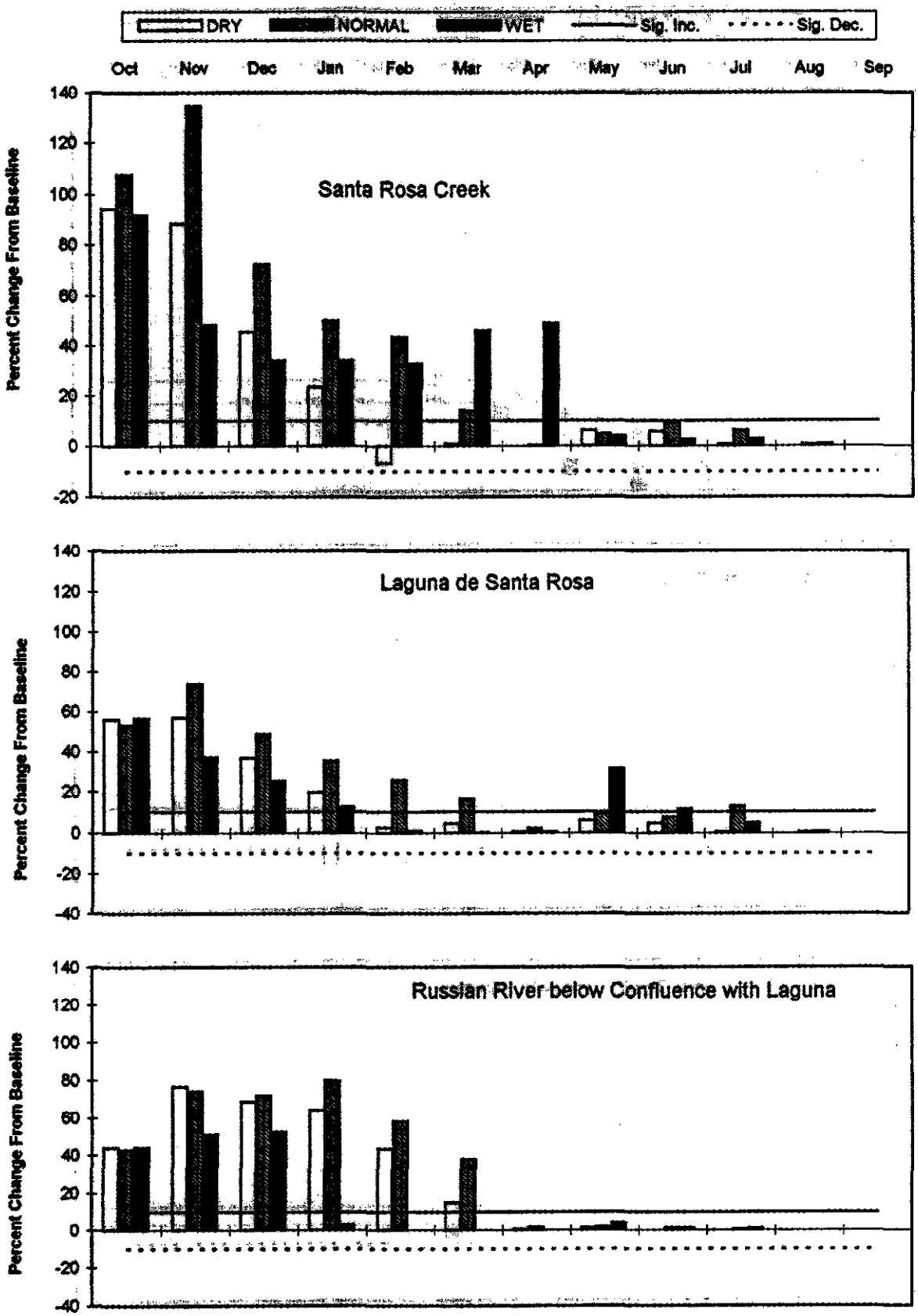


FIGURE 4-13. Discharge Impacts on Benthic Algae - 20% Discharge to the Russian River
Existing Conditions Baseline - Project Operations

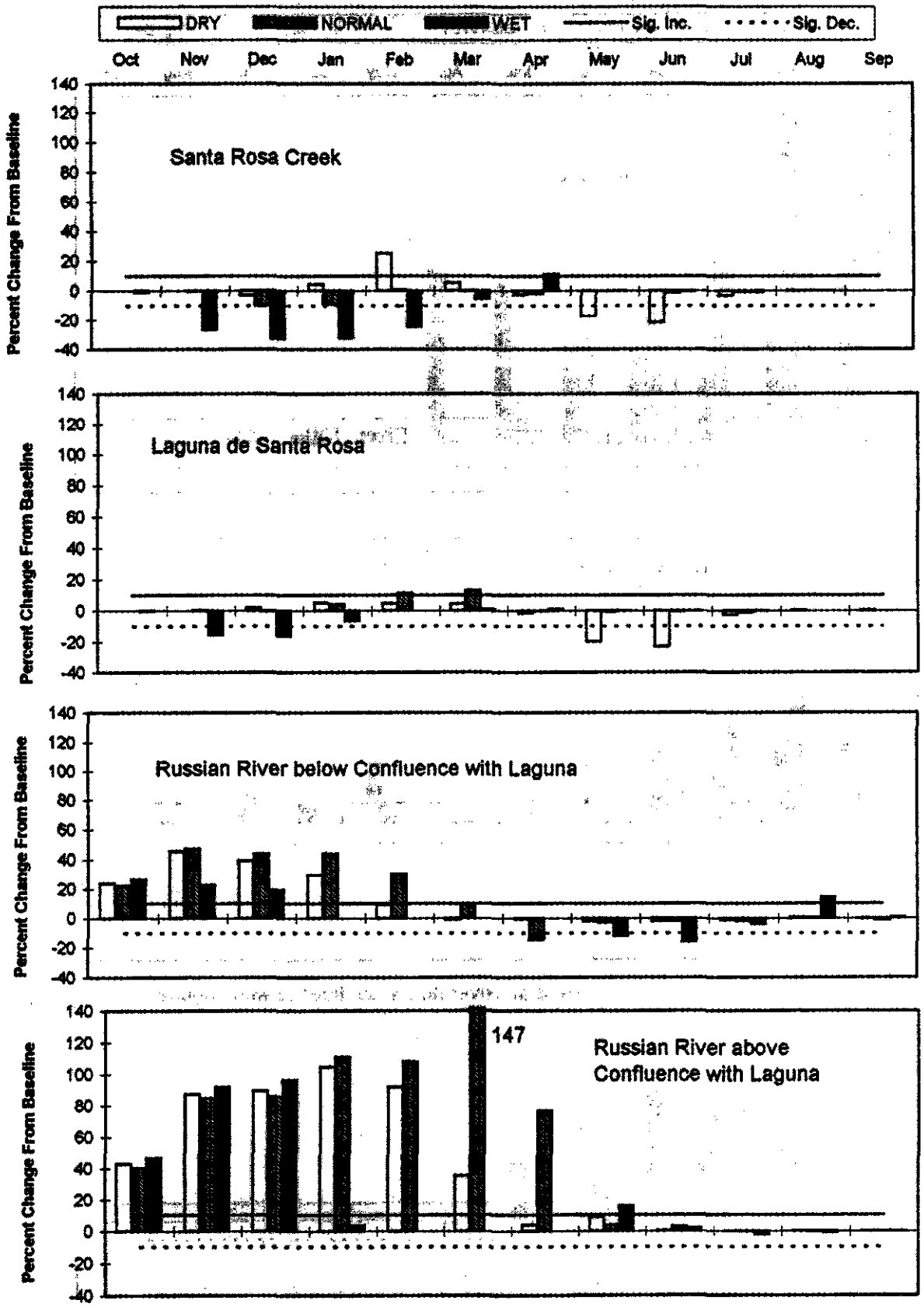


FIGURE 4-13. Discharge Impacts on Benthic Algae - No Project
Existing Conditions Baseline - Project Operations

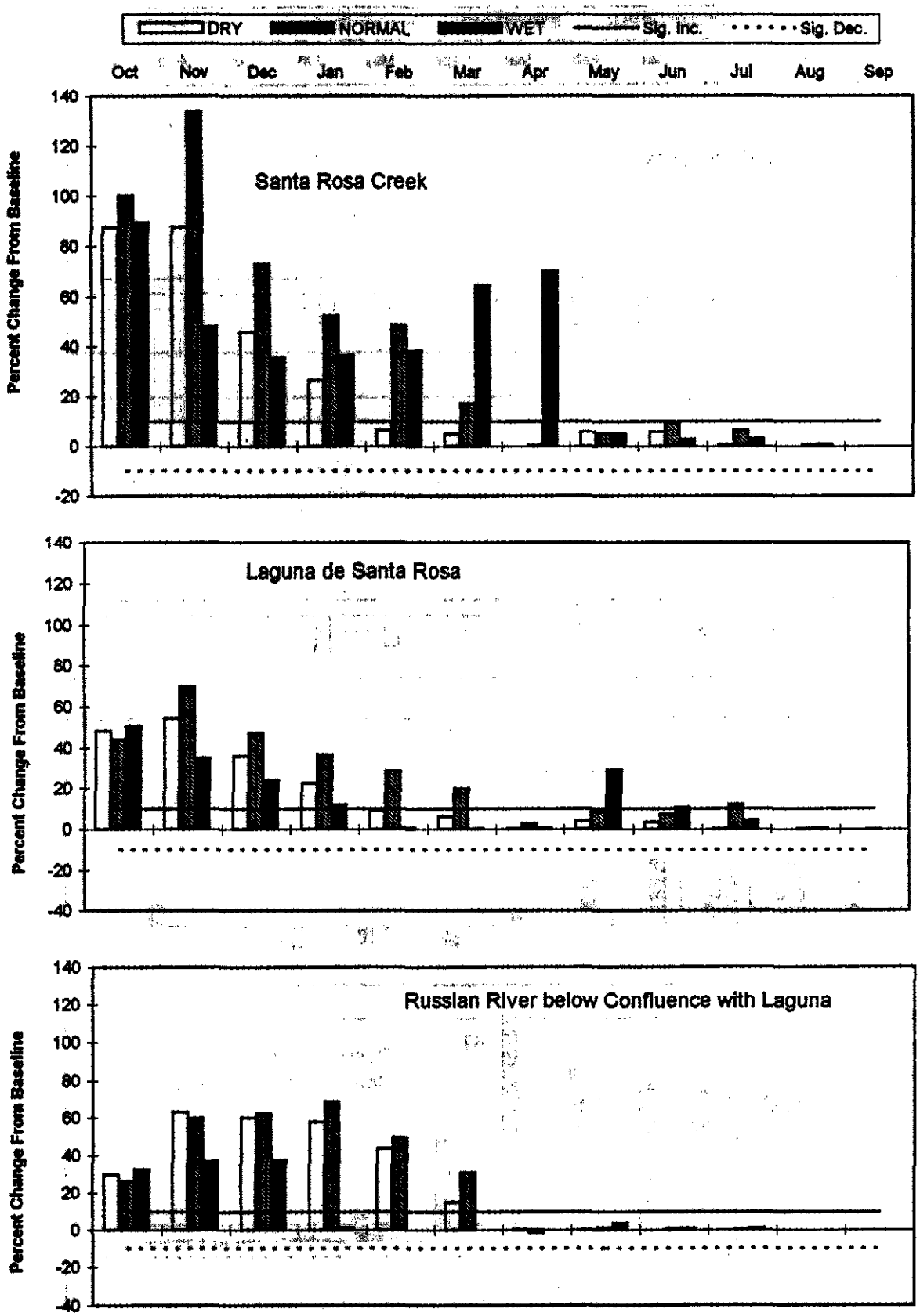


FIGURE 4-14. Discharge Impacts on Planktonic Algae - 1% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project Operations

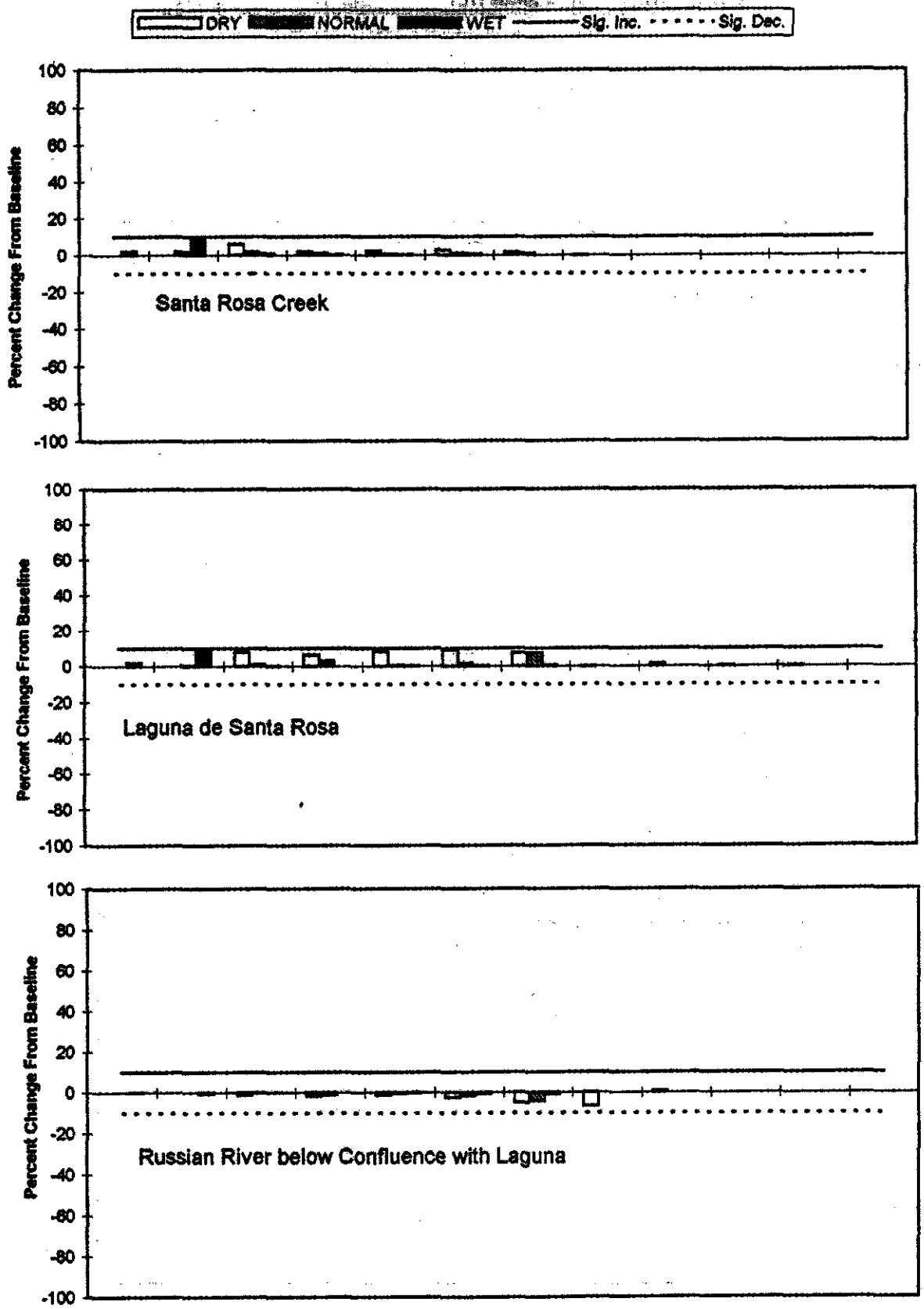


FIGURE 4-14. Discharge Impacts on Planktonic Algae - 5% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project Operations

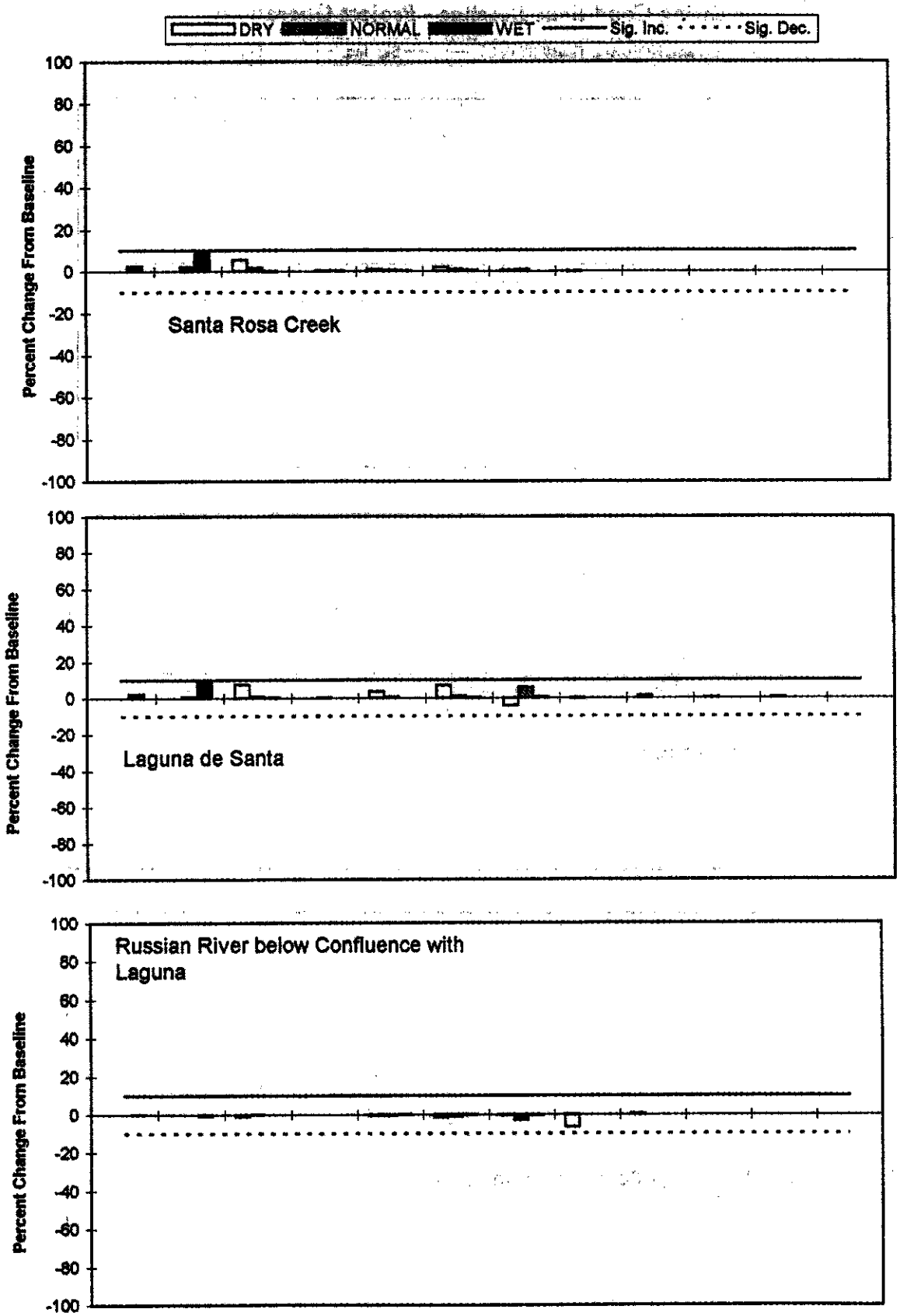


FIGURE 4-14. Discharge Impacts on Planktonic Algae - 10% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project Operations

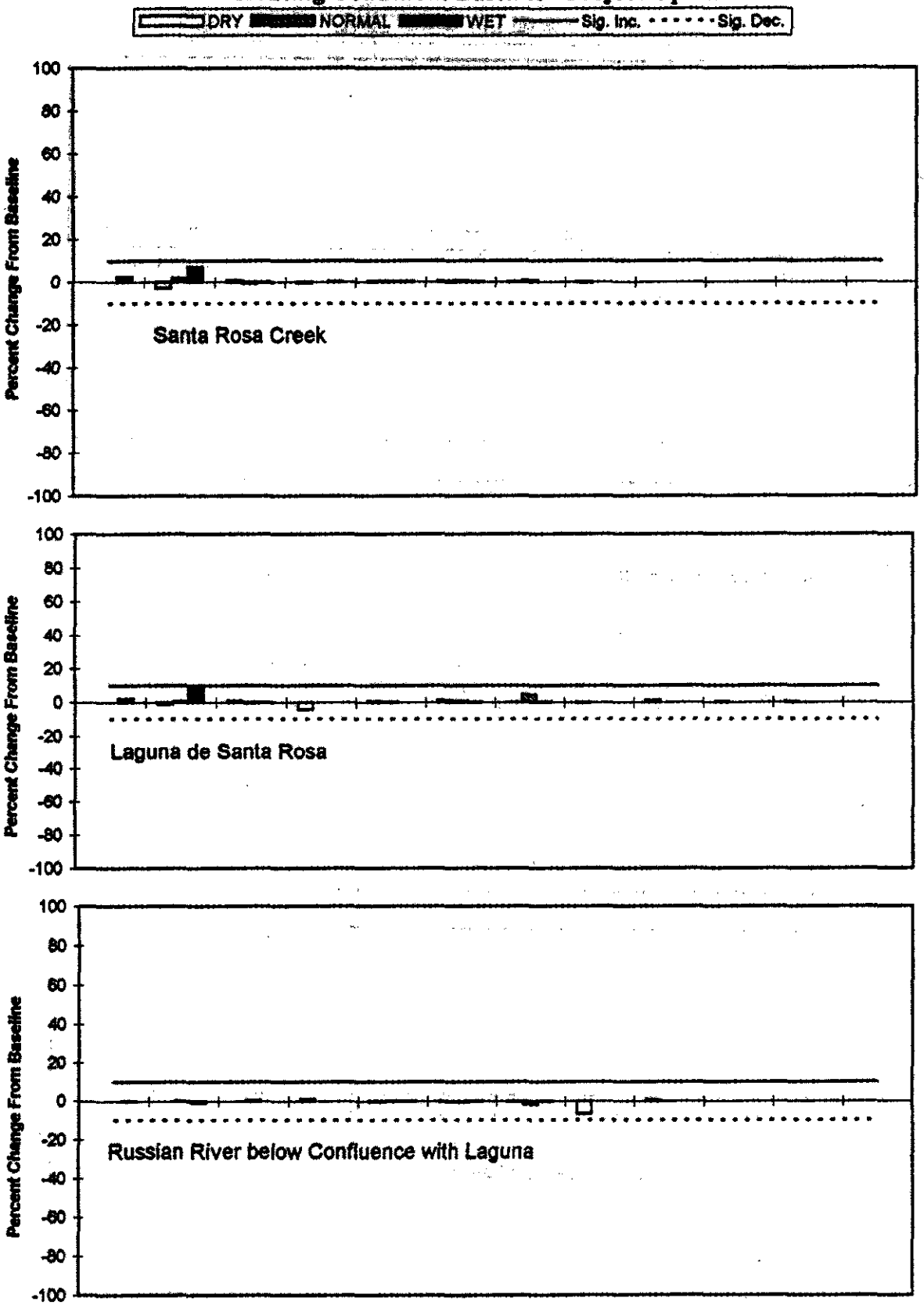


FIGURE 4-14. Discharge Impacts on Planktonic Algae - 20% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project Operations

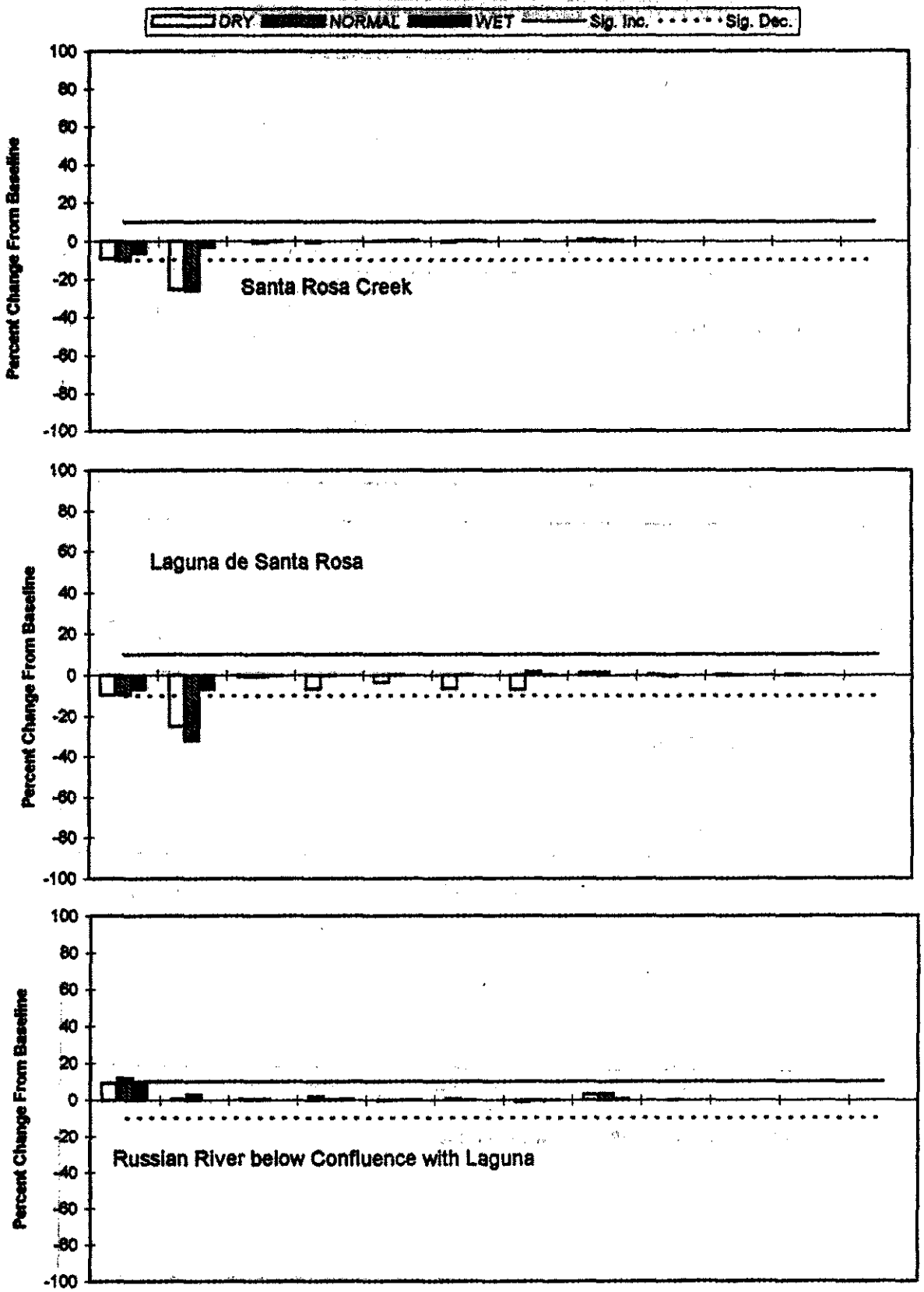


FIGURE 4-14. Discharge Impacts on Planktonic Algae-20% Discharge to Russian River Existing Conditions Baseline - Project Operations

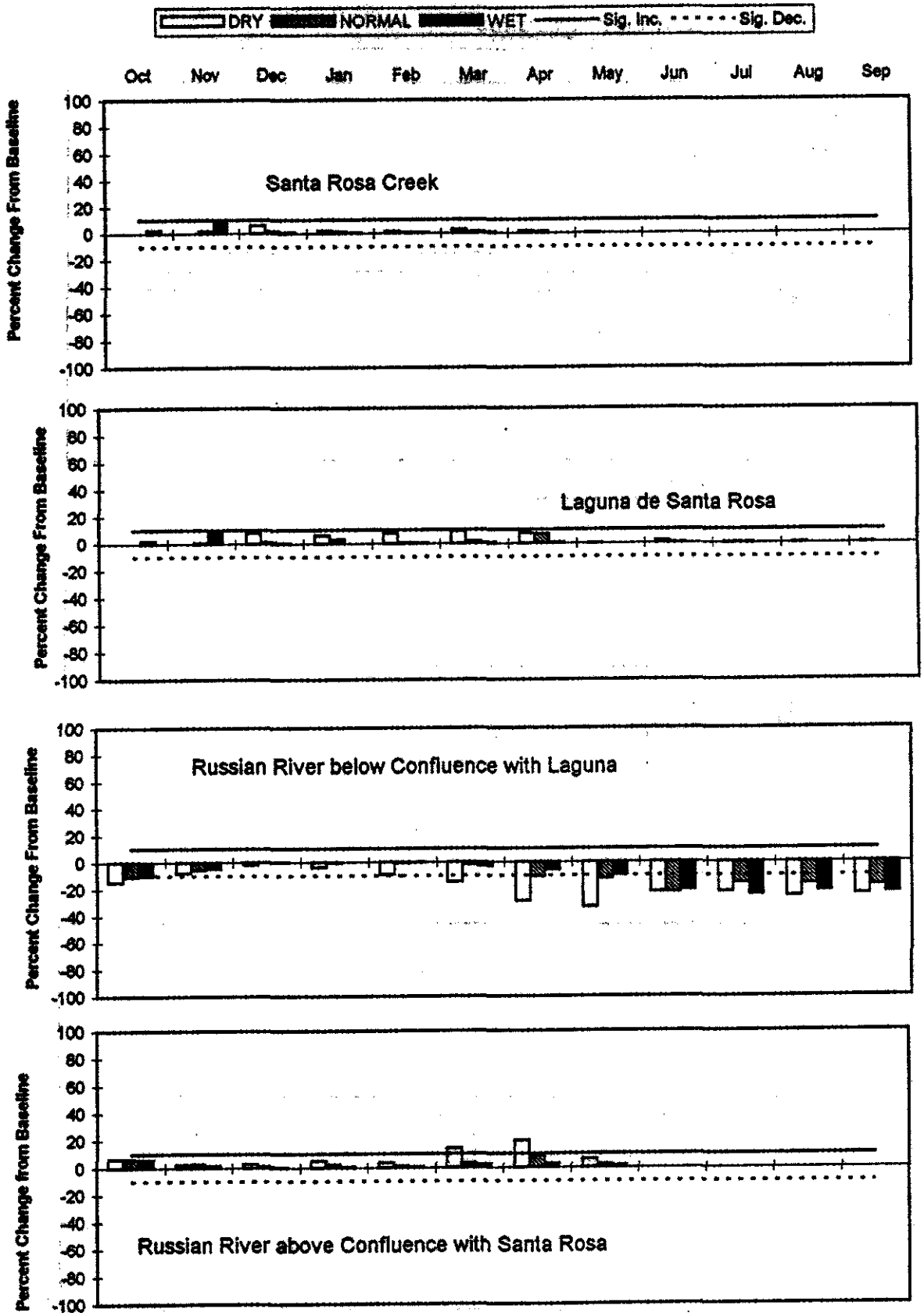


FIGURE 4-14. Discharge Impacts on Planktonic Algae - No Project
Existing Conditions Baseline - Project Operations

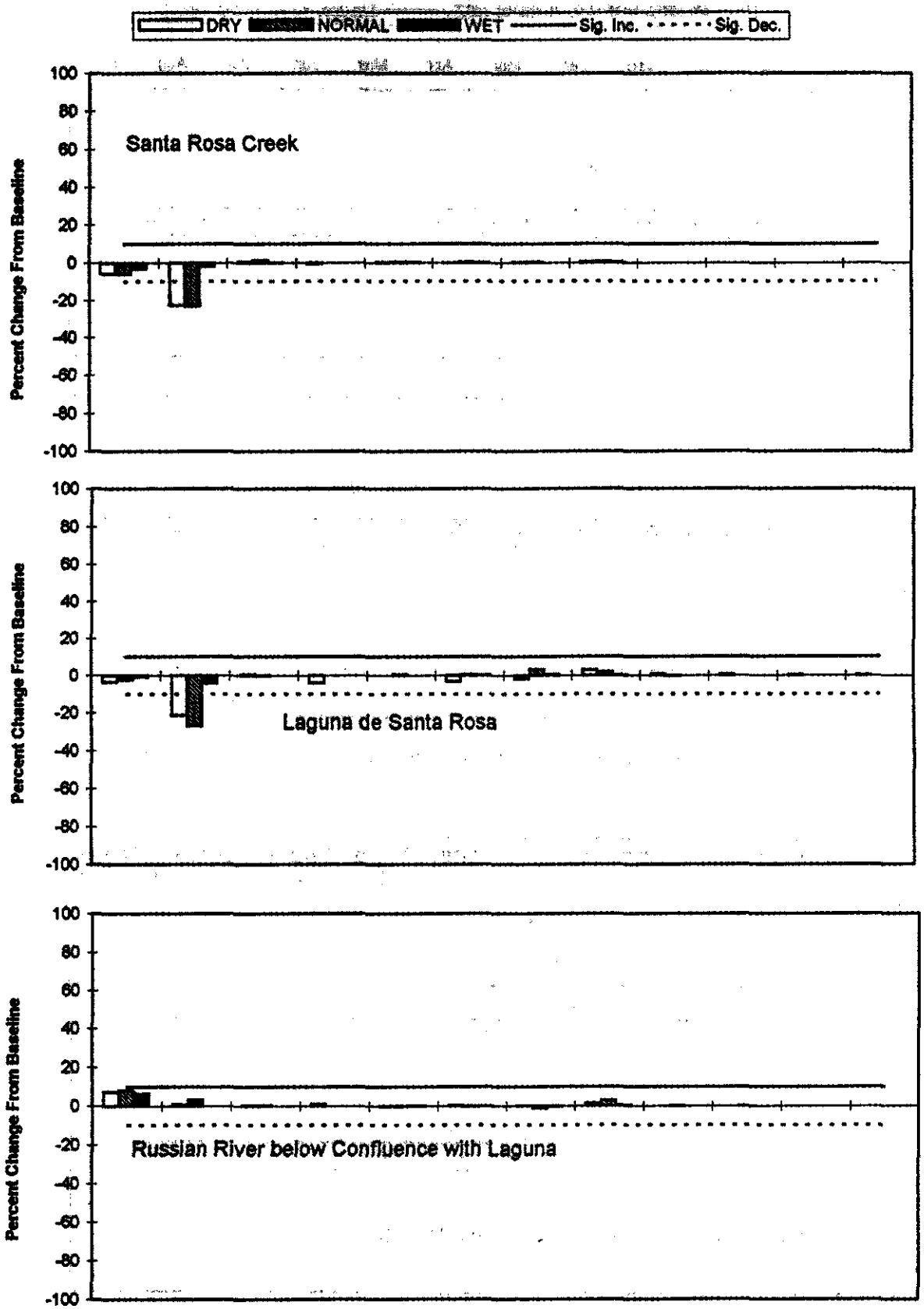


FIGURE 4-14. Discharge Impacts on Planktonic Algae - Geysers
Existing Conditions Baseline - Project Operations

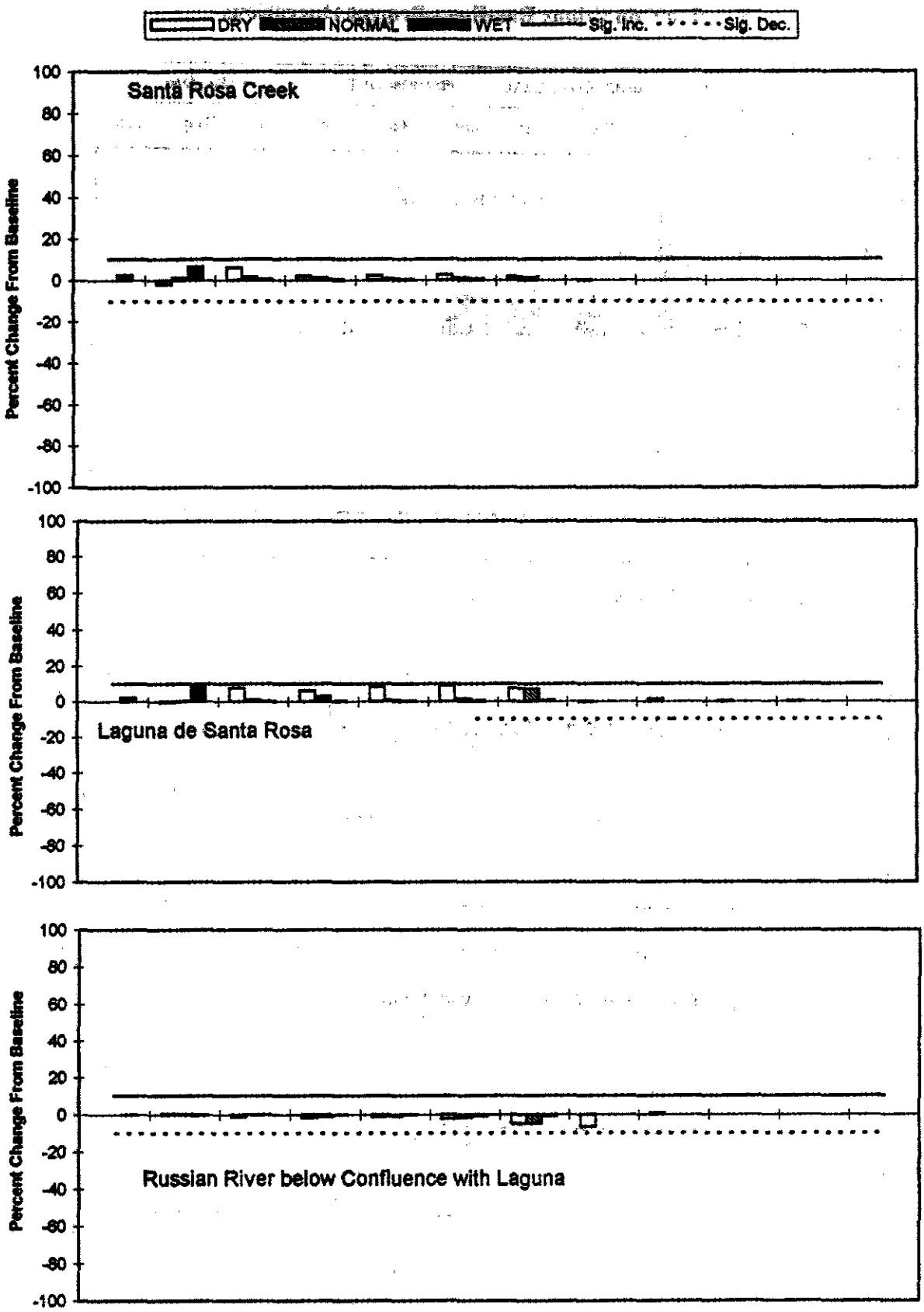


FIGURE 4-15. Discharge Impacts on Average Monthly Dissolved Oxygen - 1% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

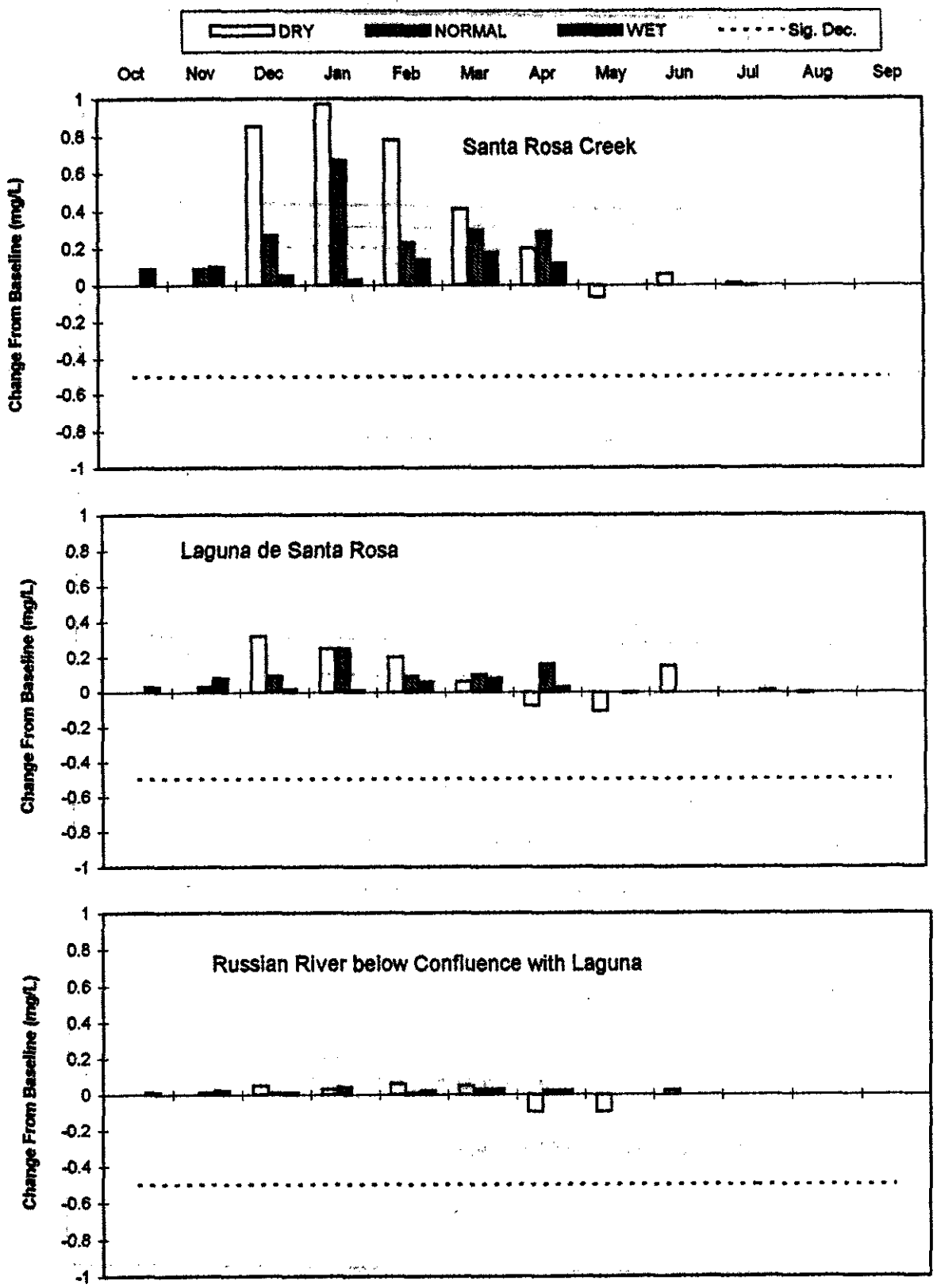


FIGURE 4-15. Discharge Impacts on Average Monthly Dissolved Oxygen - 5% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

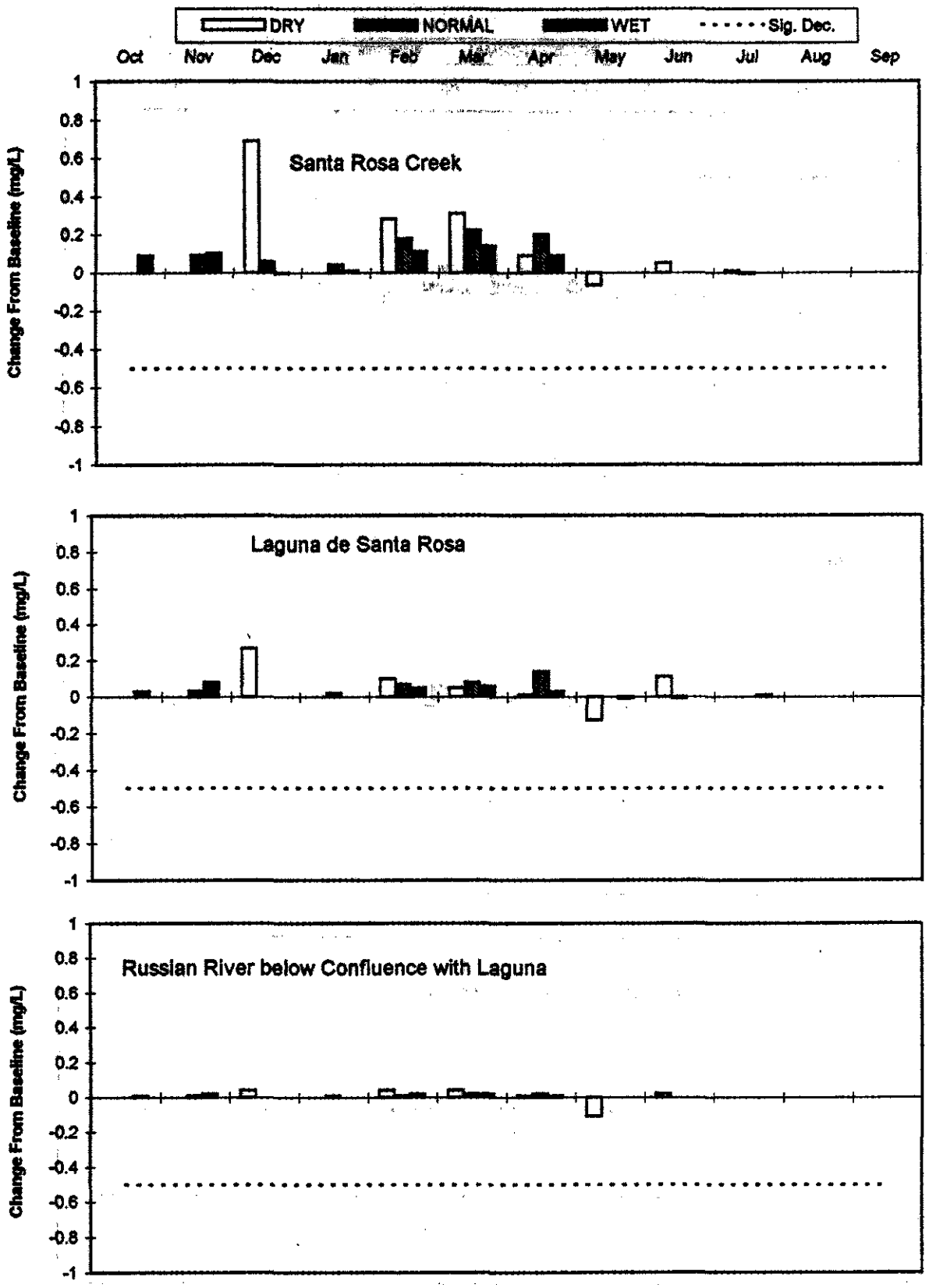


FIGURE 4-15. Discharge Impacts on Average Monthly Dissolved Oxygen - 10% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

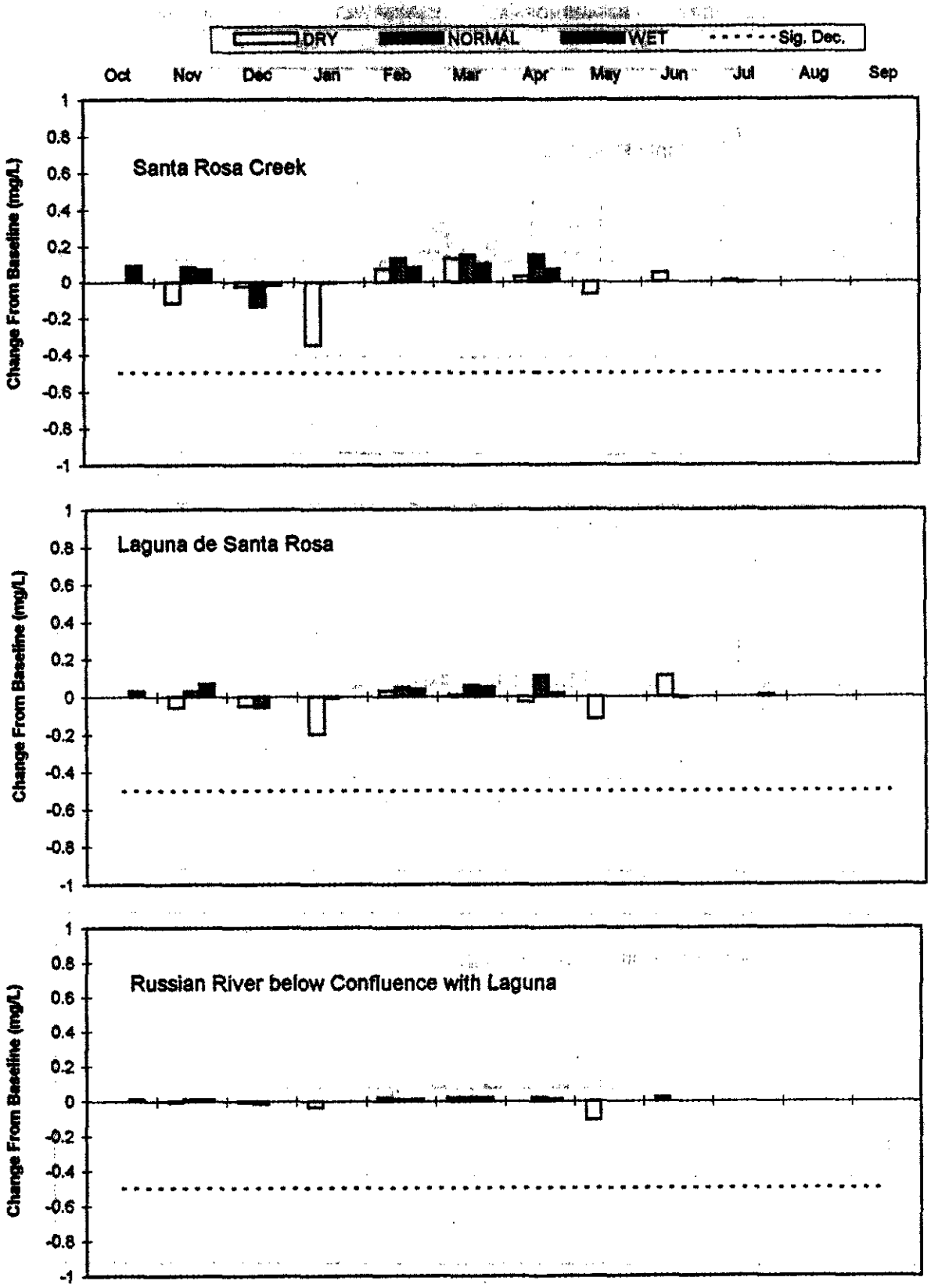


FIGURE 4-15. Discharge Impacts on Average Monthly Dissolved Oxygen - 20% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

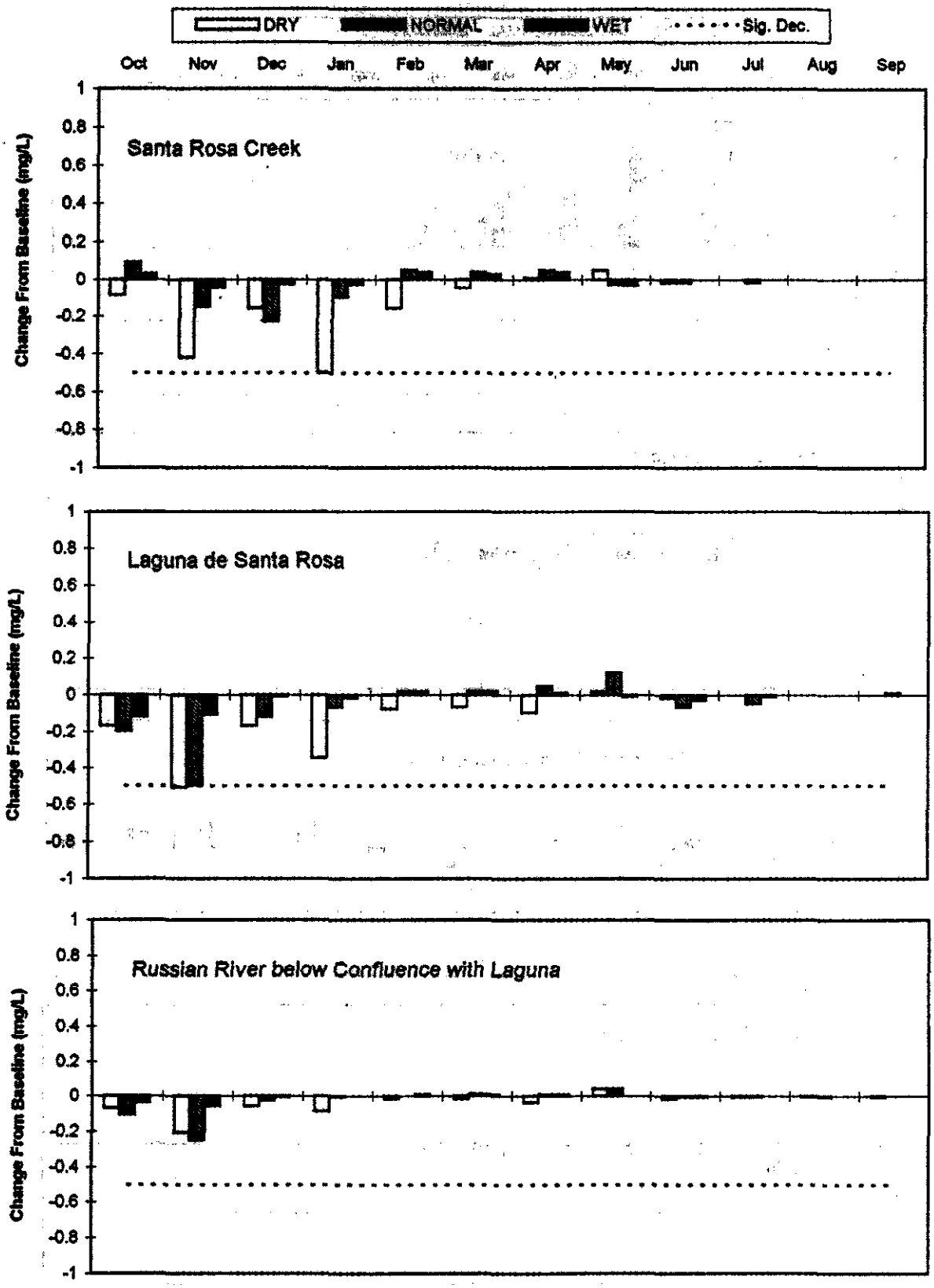


FIGURE 4-15. Discharge Impacts on Average Monthly Dissolved Oxygen - 20% Discharge to the Russian River
Existing Conditions Baseline - Project Operations

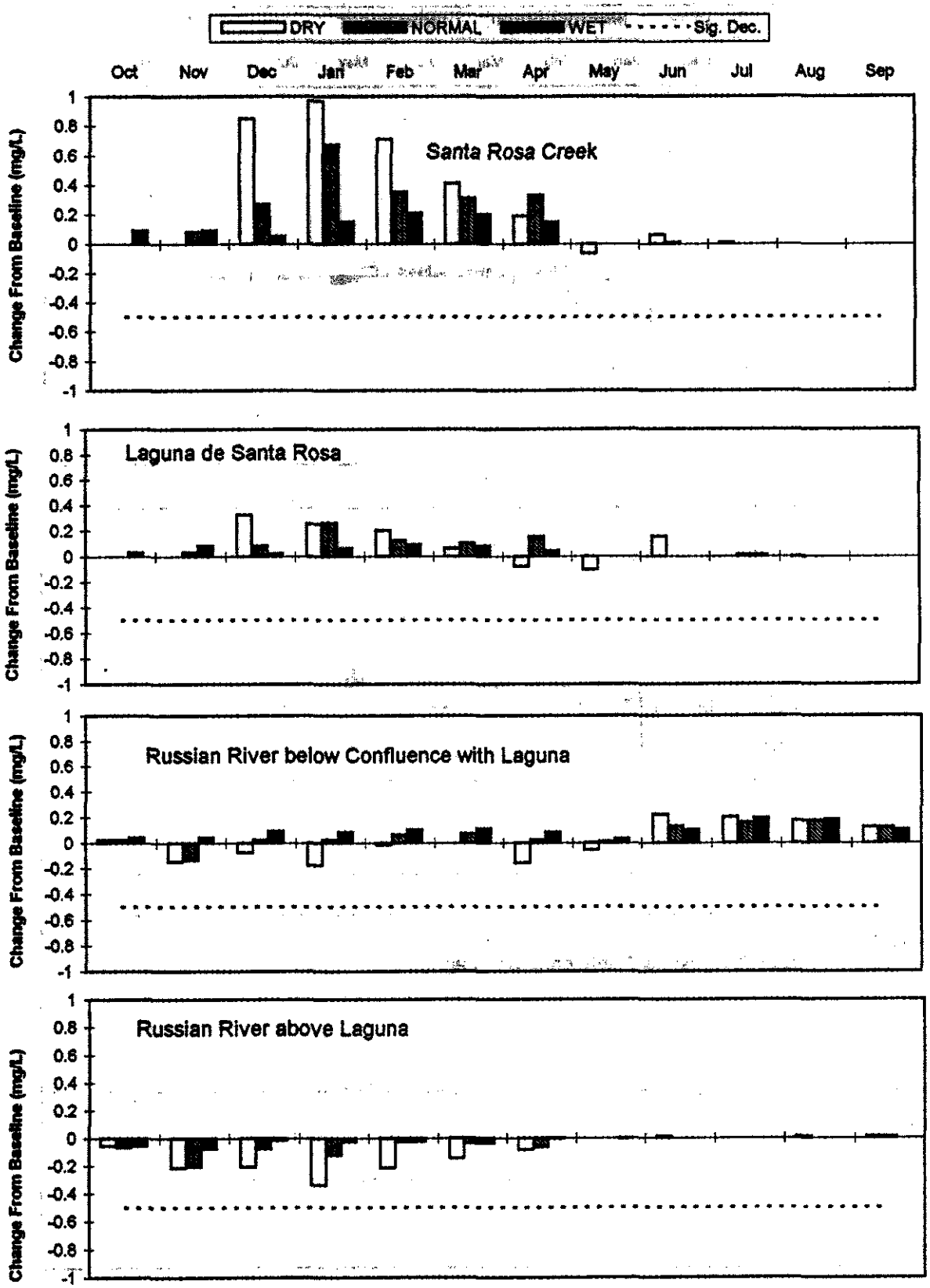


FIGURE 4-15. Discharge Impacts on Average Monthly Dissolved Oxygen - No Project
Existing Conditions Baseline - Project Operations

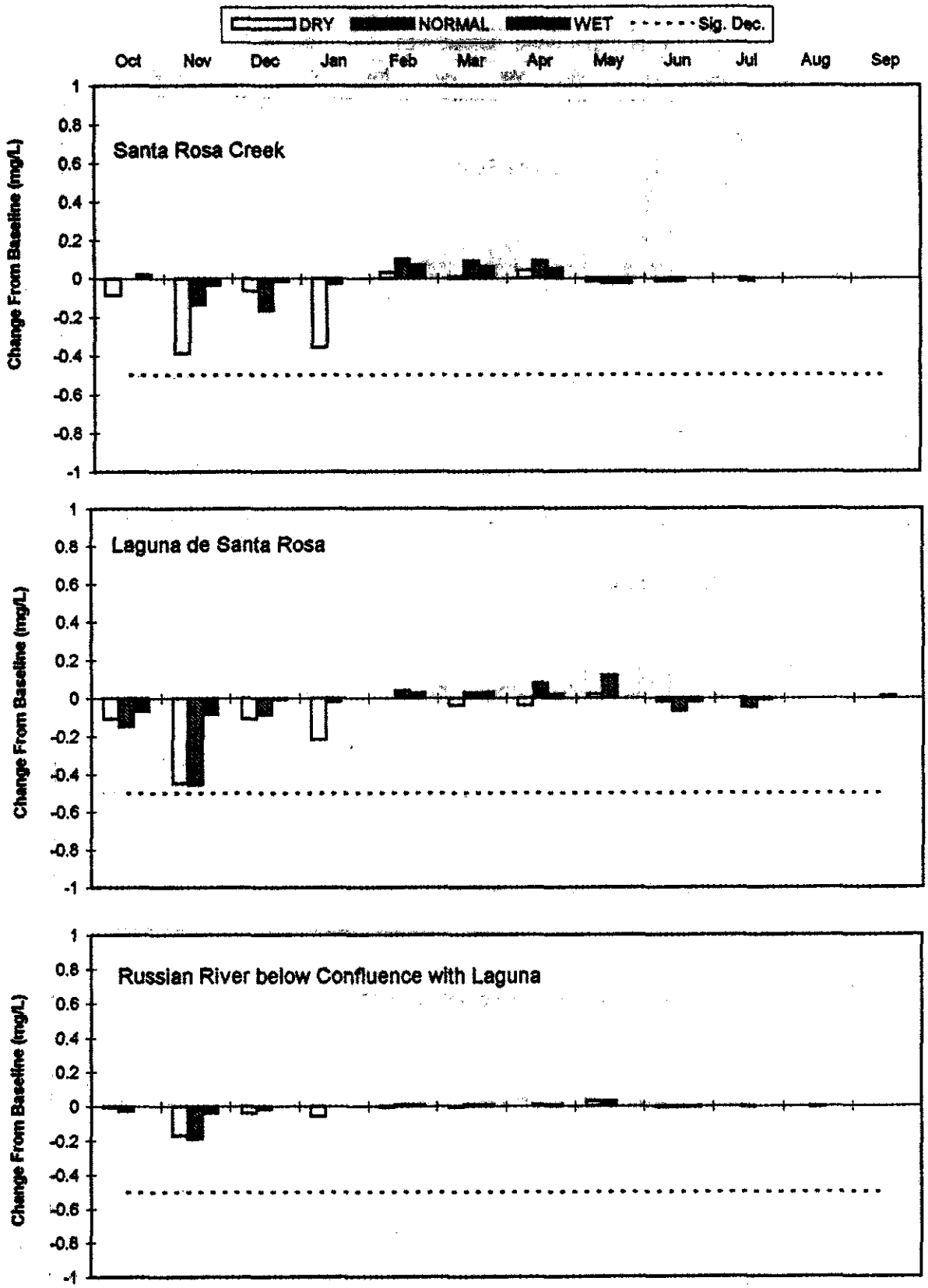


FIGURE 4-15. Discharge Impacts on Average Monthly Dissolved Oxygen - Geysers Existing Conditons - Project Operations

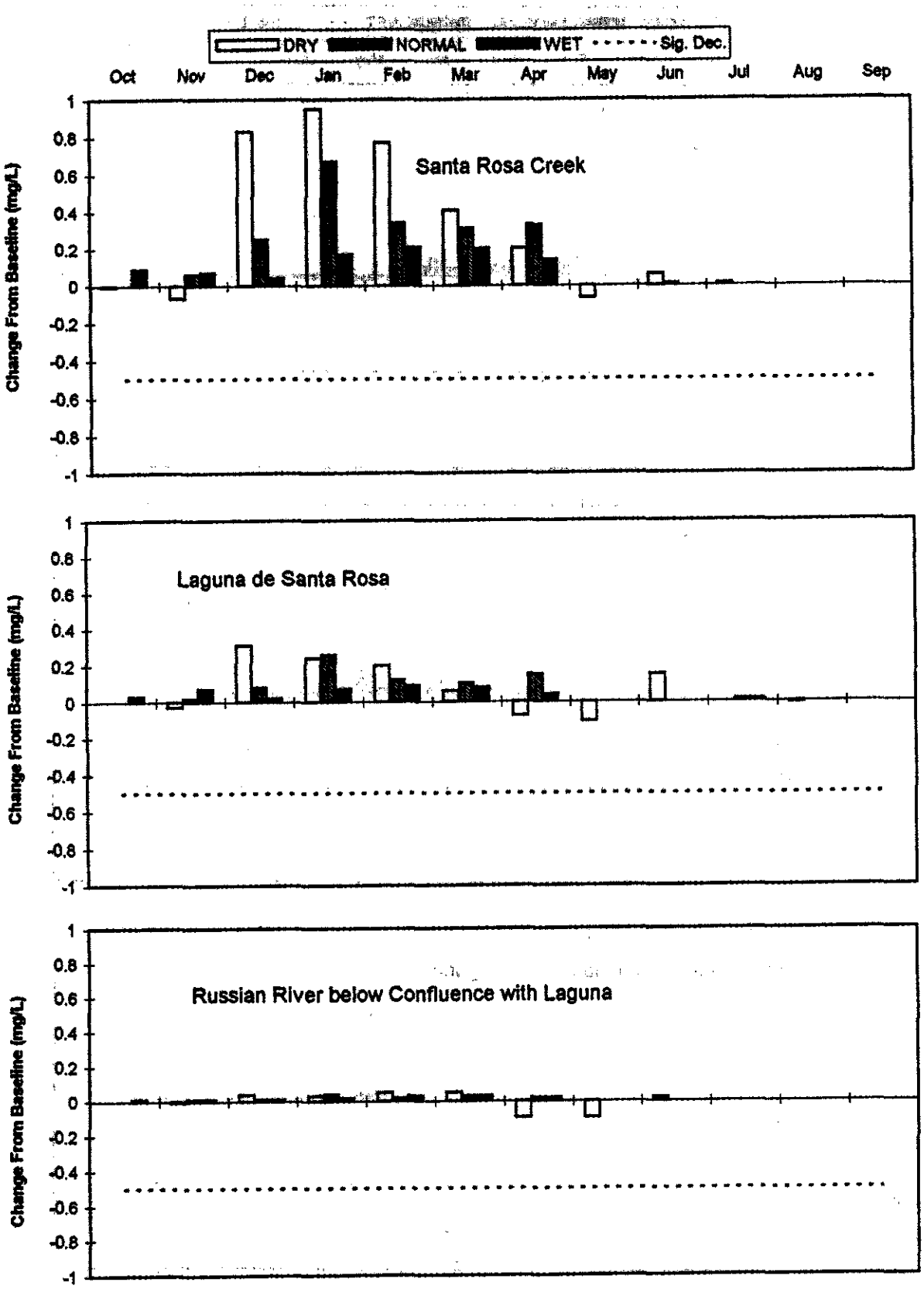


Figure 4-16. Discharge Impacts on Ammonia - 1% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project Operations

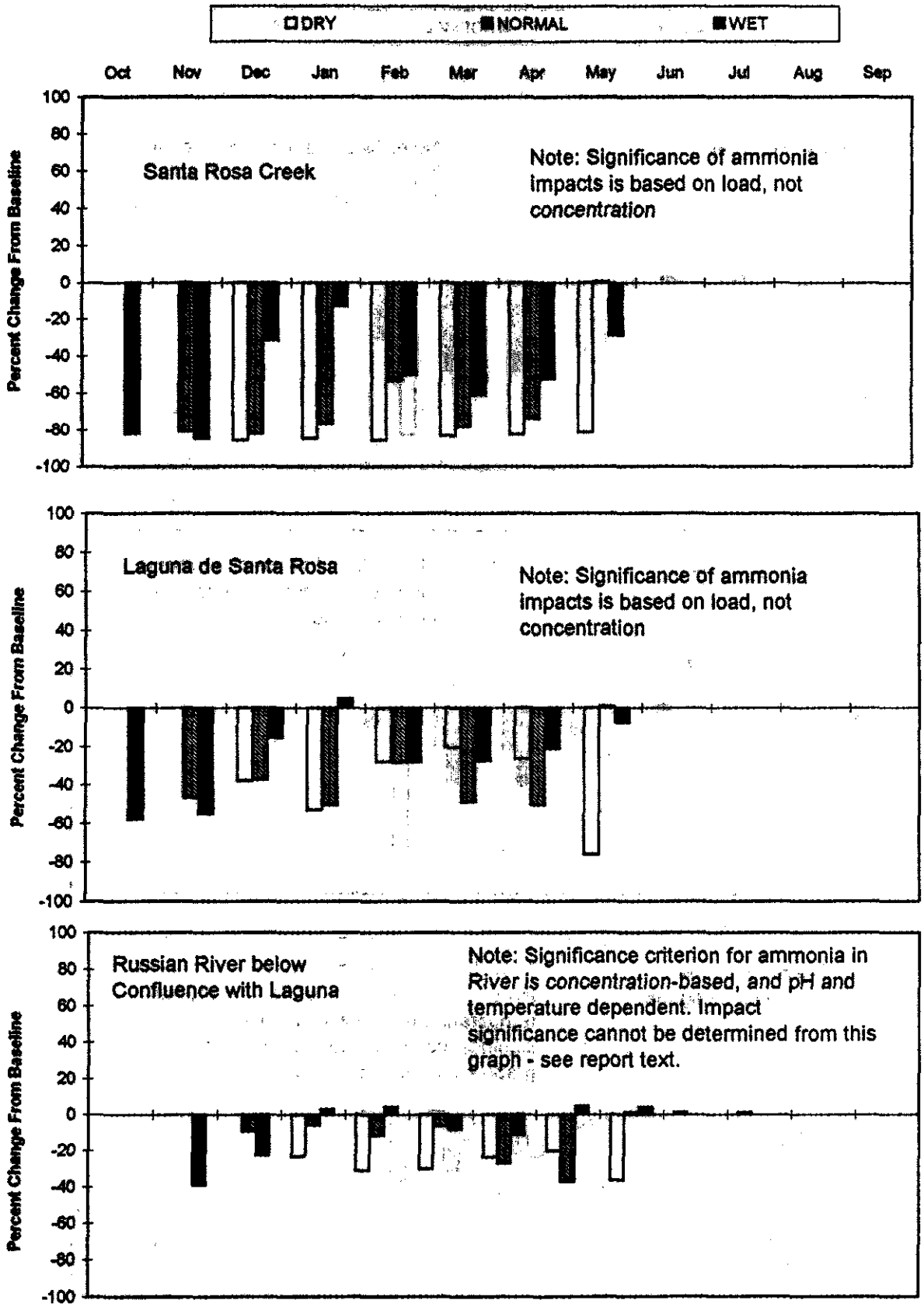


Figure 4-16. Discharge Impacts on Ammonia - 5% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project Operations

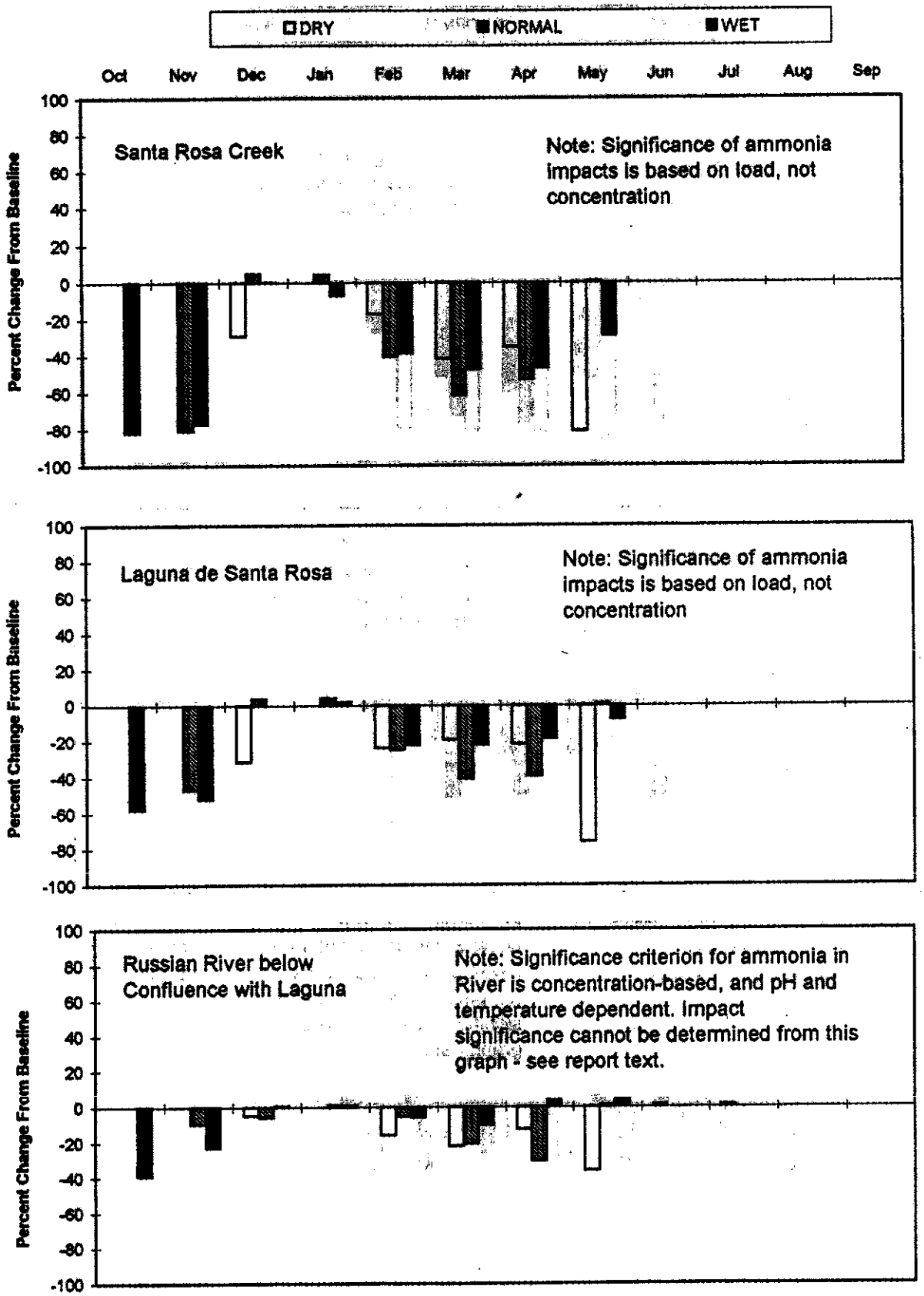


Figure 4-16. Discharge Impacts on Ammonia - 10% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project Operations

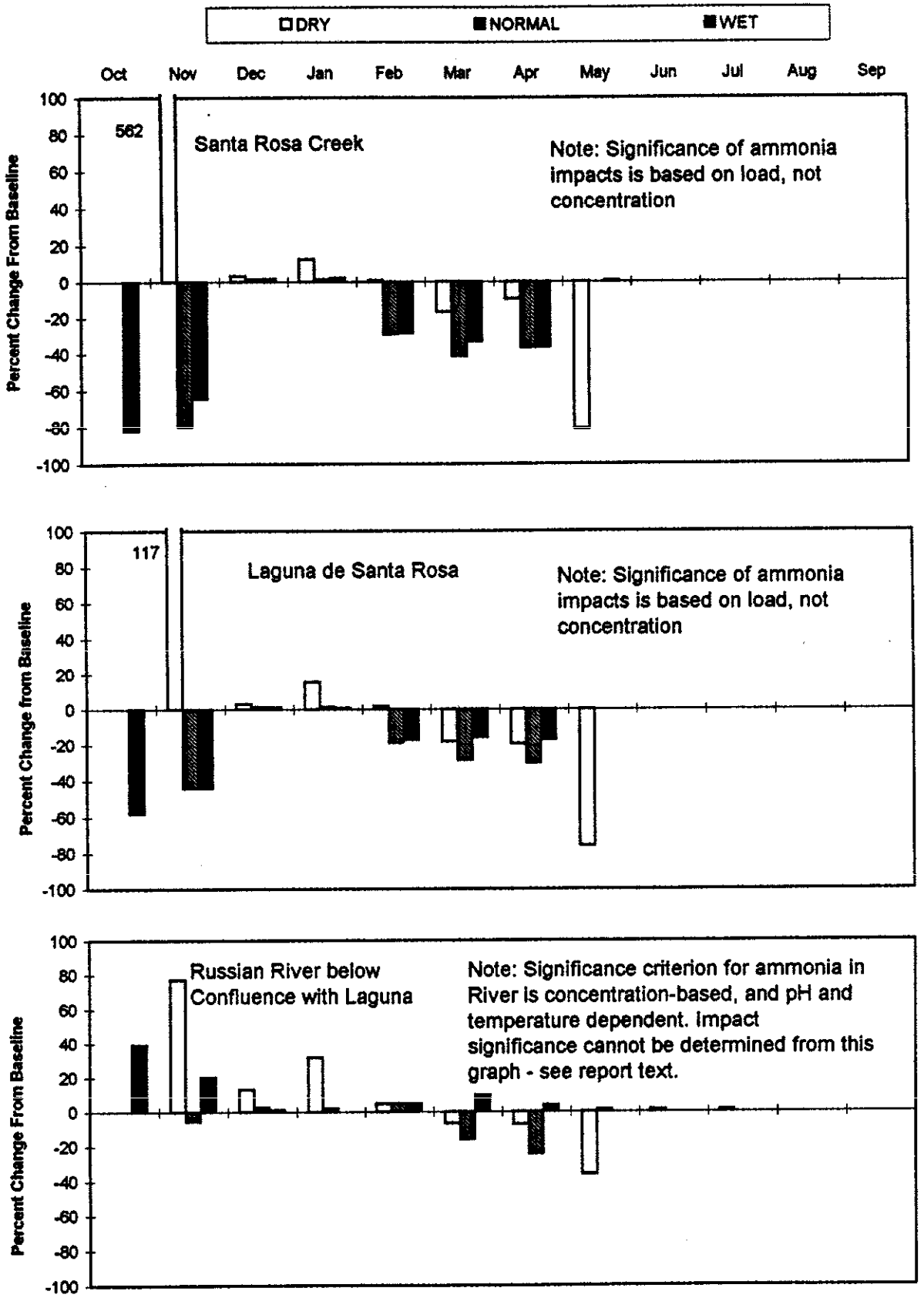


Figure 4-16. Discharge Impacts on Ammonia - 20% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project Operations

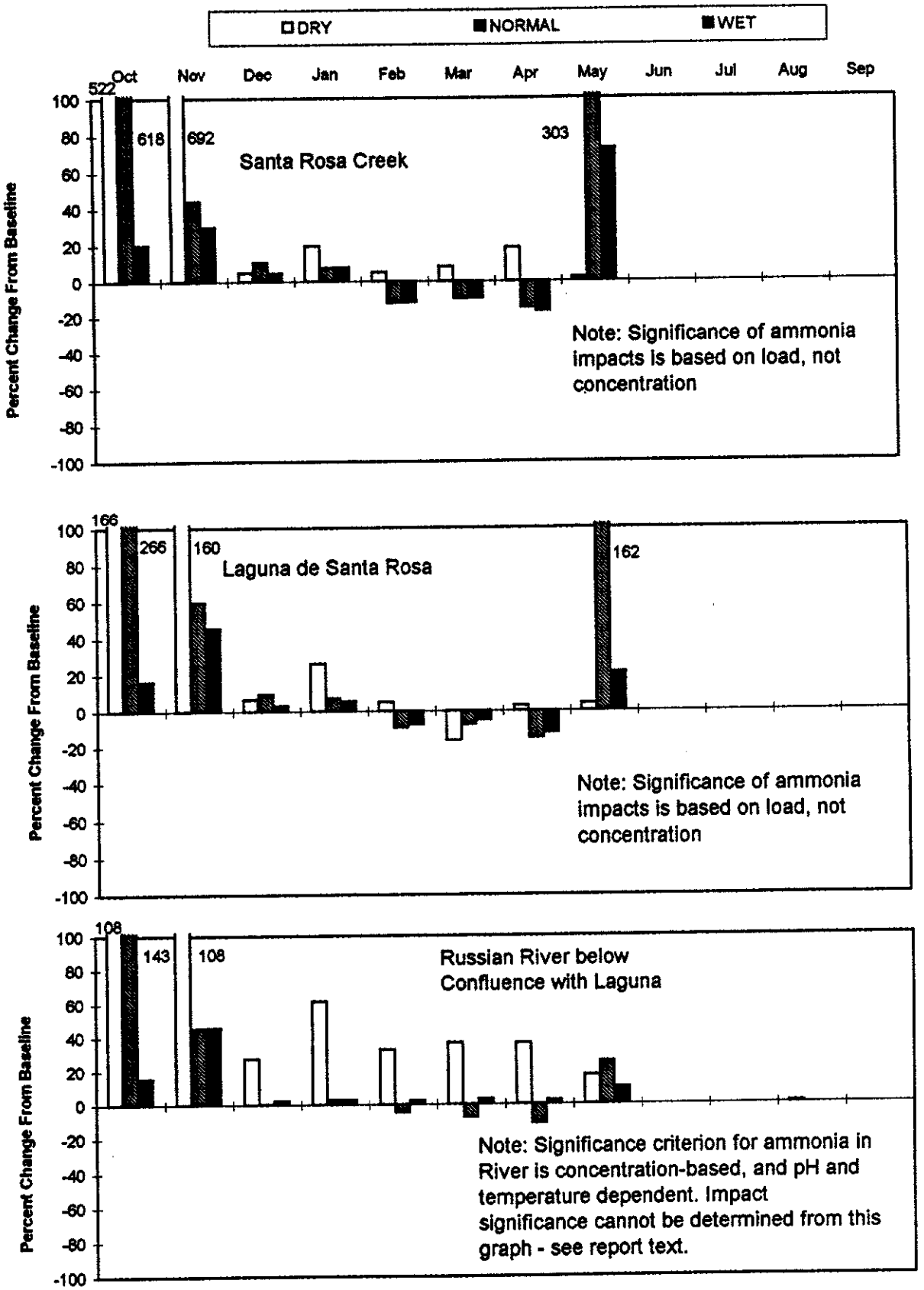


Figure 4-16. Discharge Impacts on Ammonia - 20% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project Operations

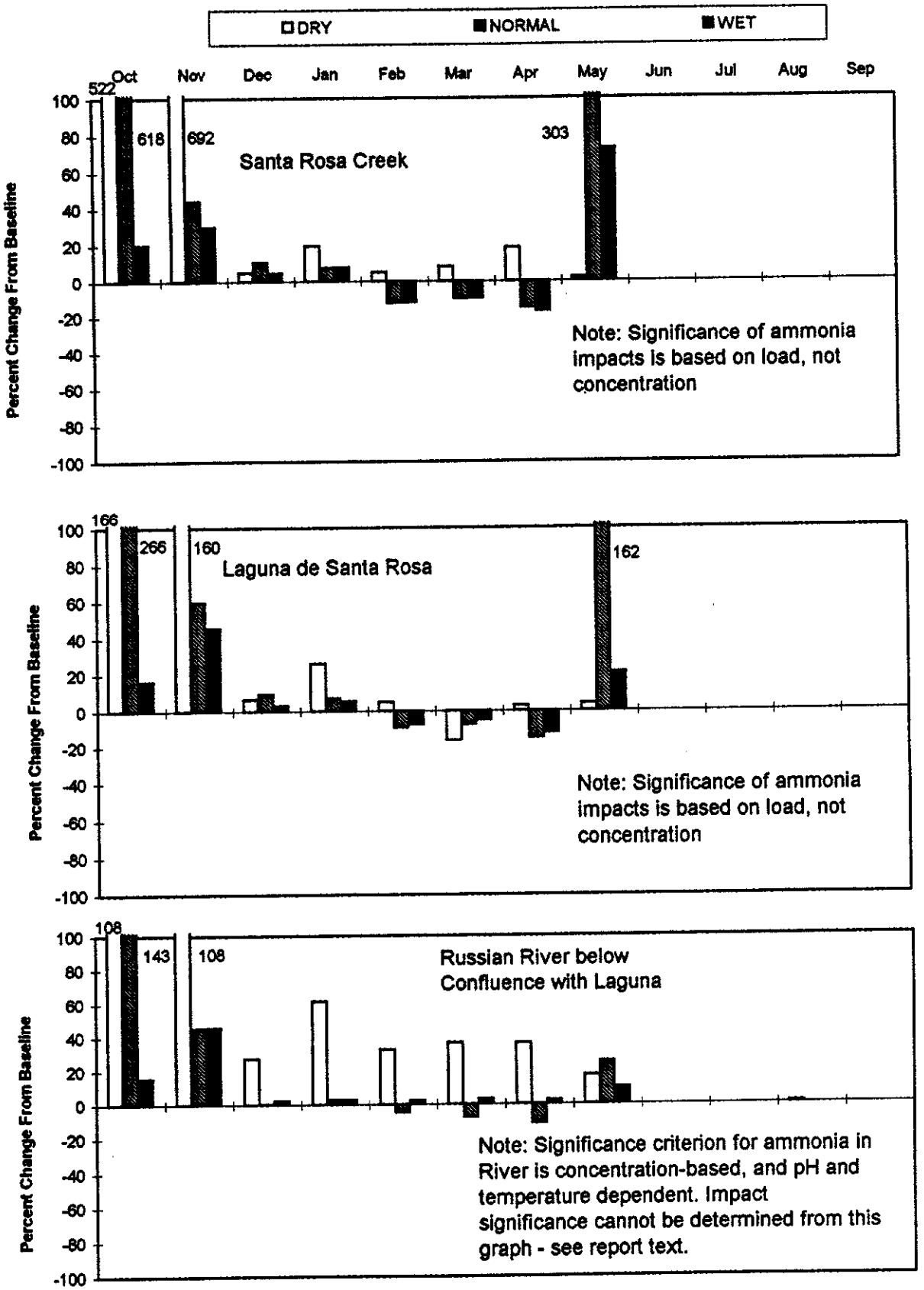


Figure 4-16. Discharge Impacts on Ammonia - 20% to Russian River
Existing Conditions Baseline - Project Operations

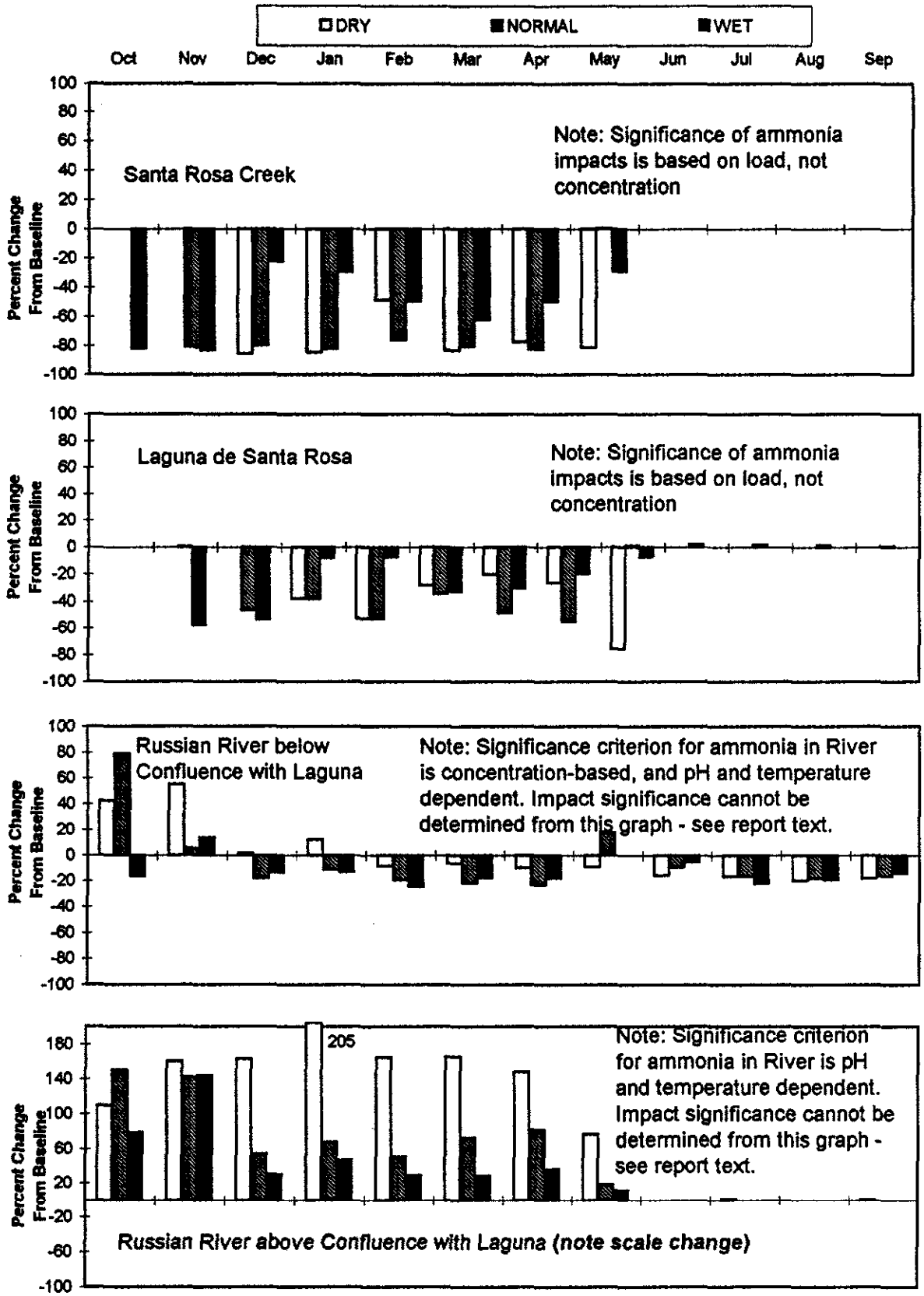


Figure 4-16. Discharge Impacts on Ammonia - No Project Existing Conditons Baseline - Project Operations

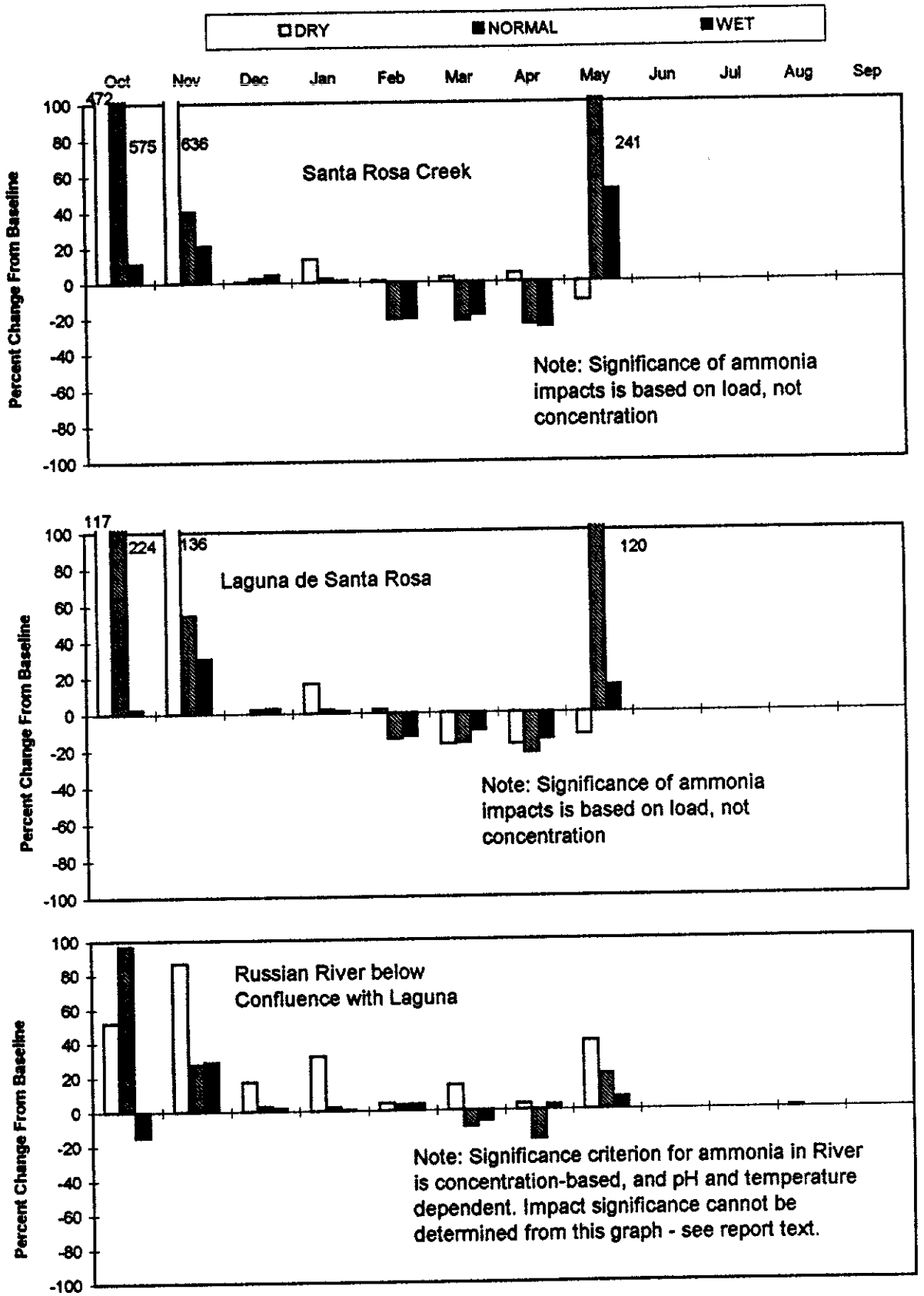


Figure 4-16. Discharge Impacts on Ammonia - Geysers
Existing Conditions Baseline - Project Operations

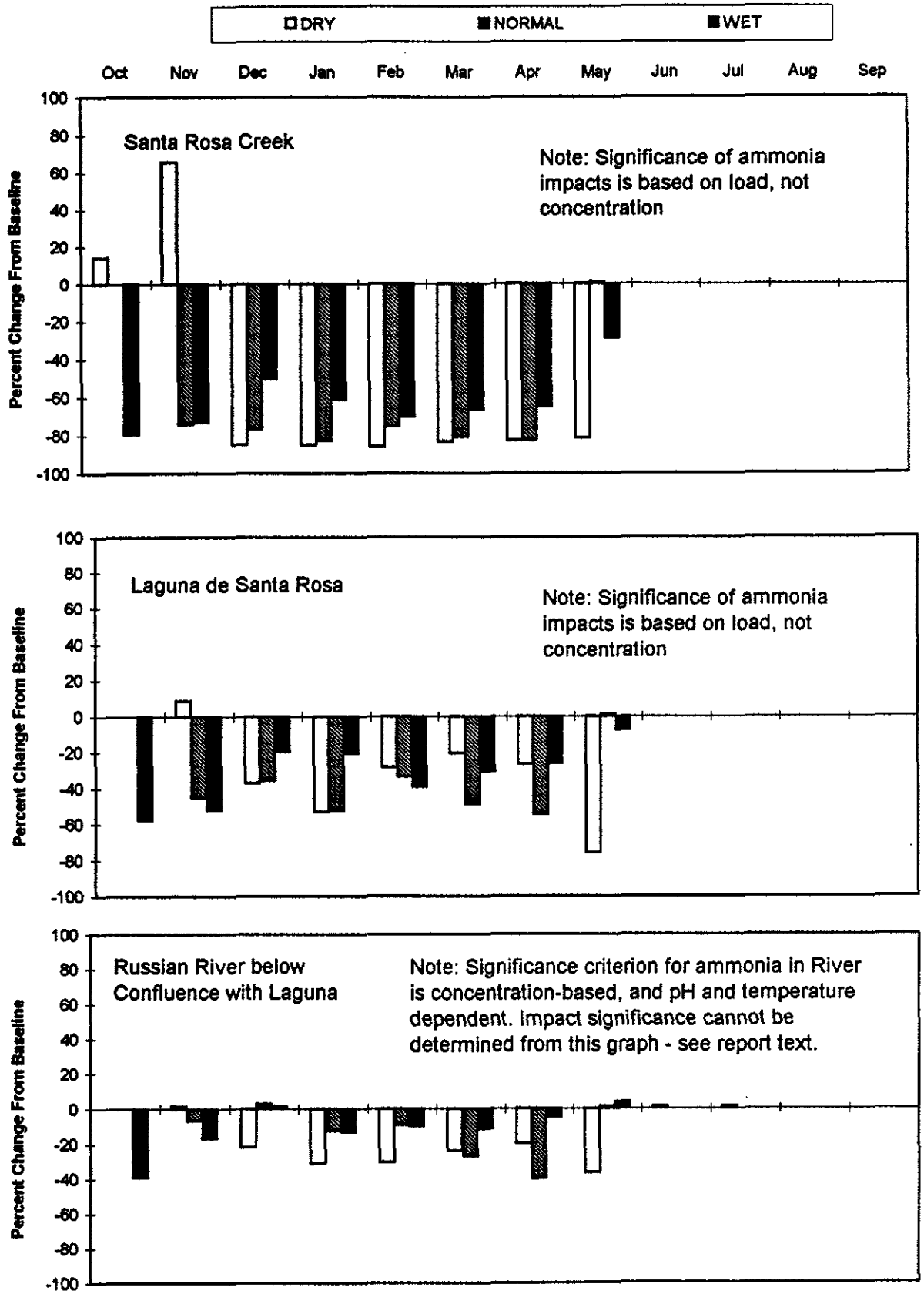


FIGURE 4-17. Discharge Impacts on Average Monthly Temperature - 1% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

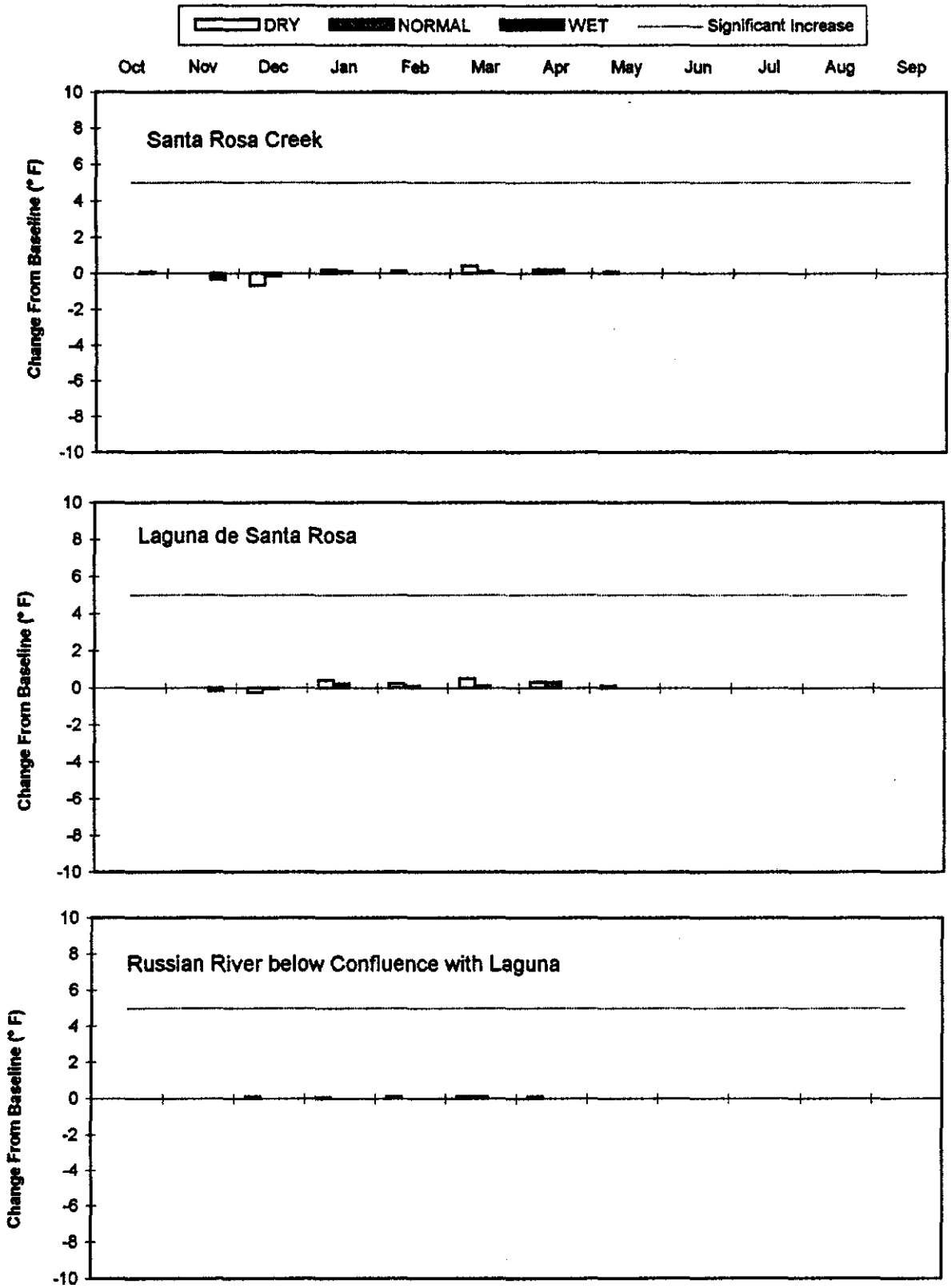


FIGURE 4-17. Discharge Impacts on Average Monthly Temperature - 5% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

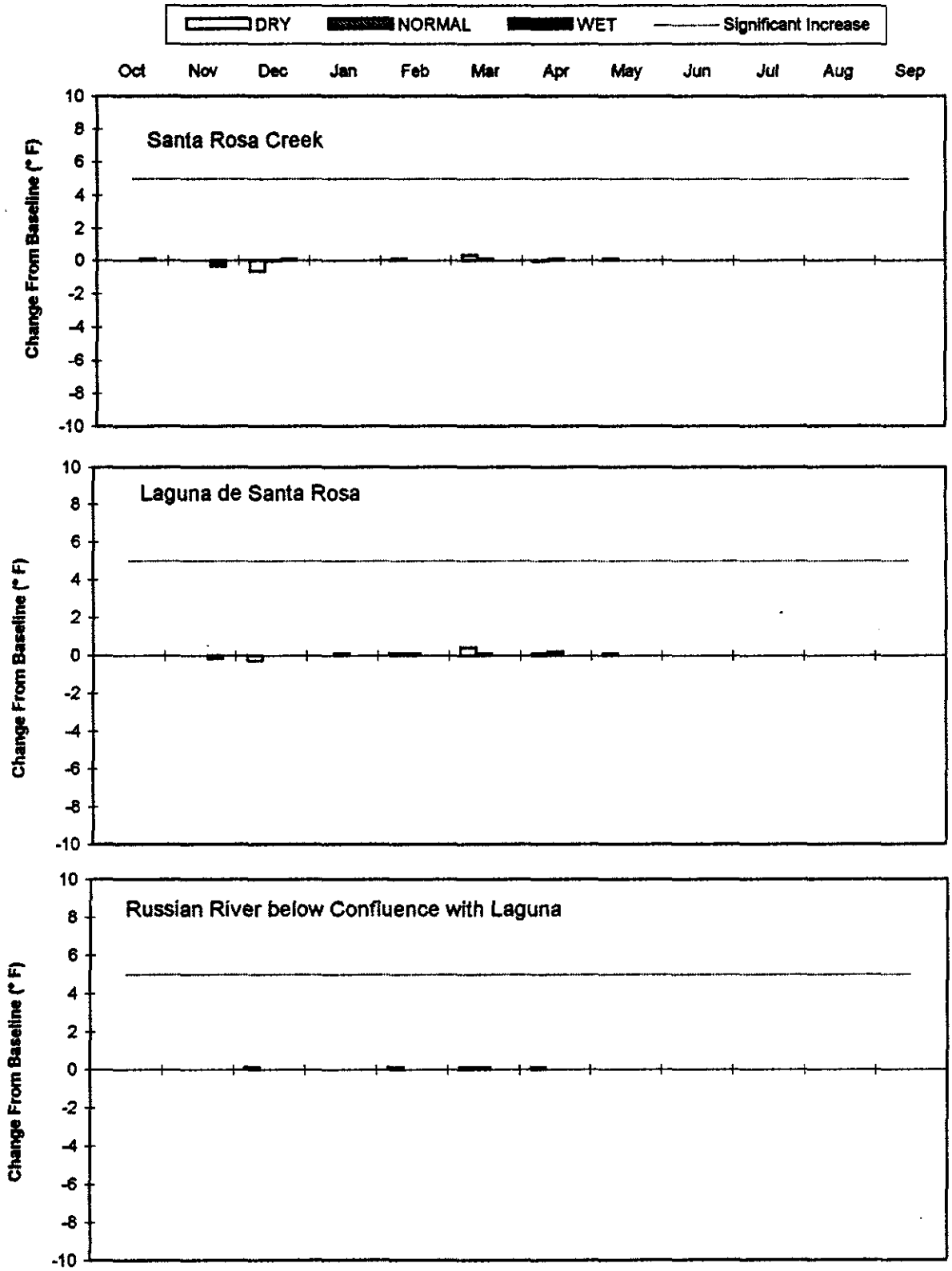


FIGURE 4-17. Discharge Impacts on Average Monthly Temperature - 10% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

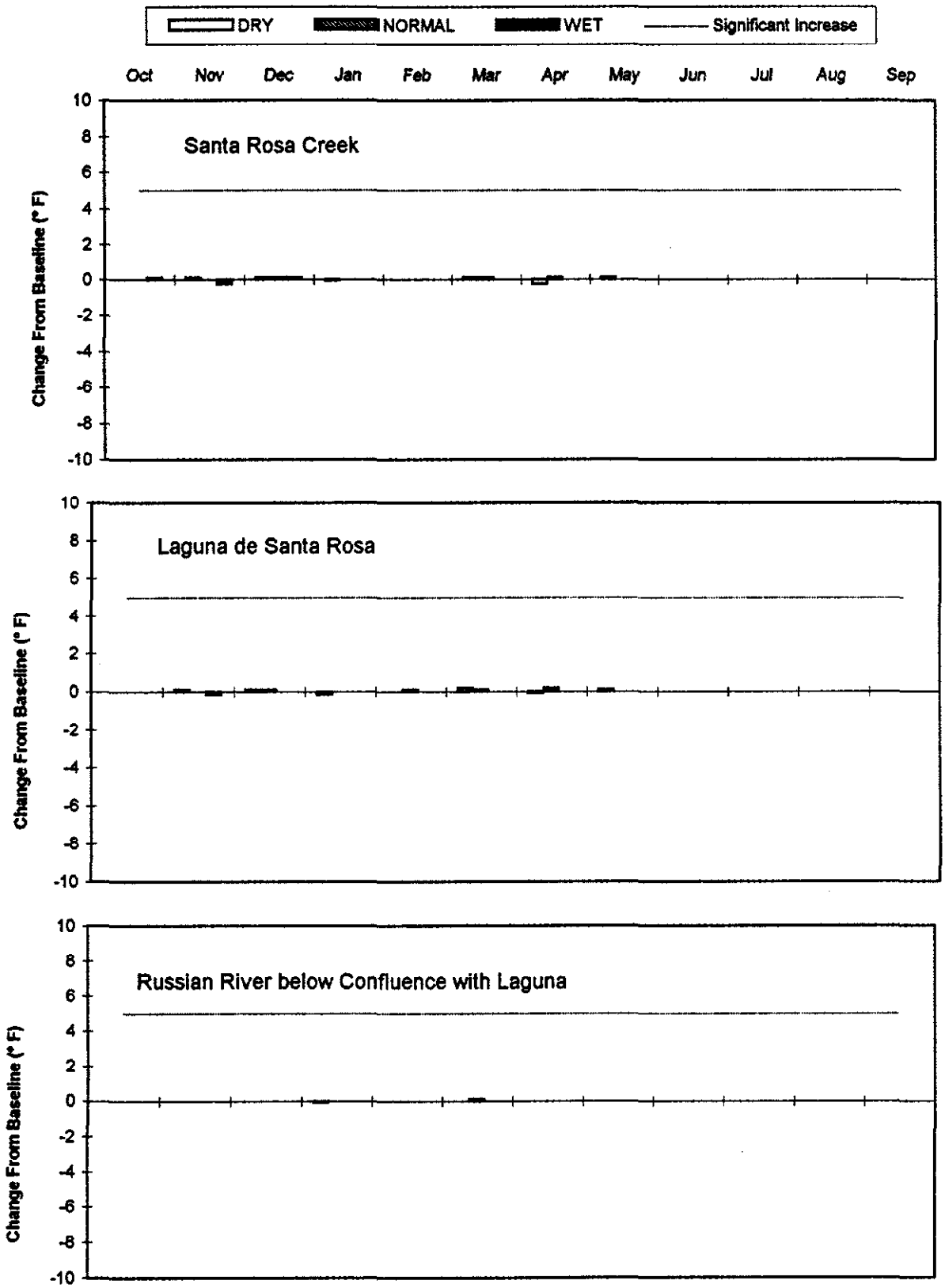


FIGURE 4-17. Discharge Impacts on Average Monthly Temperature - 20% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project Operations

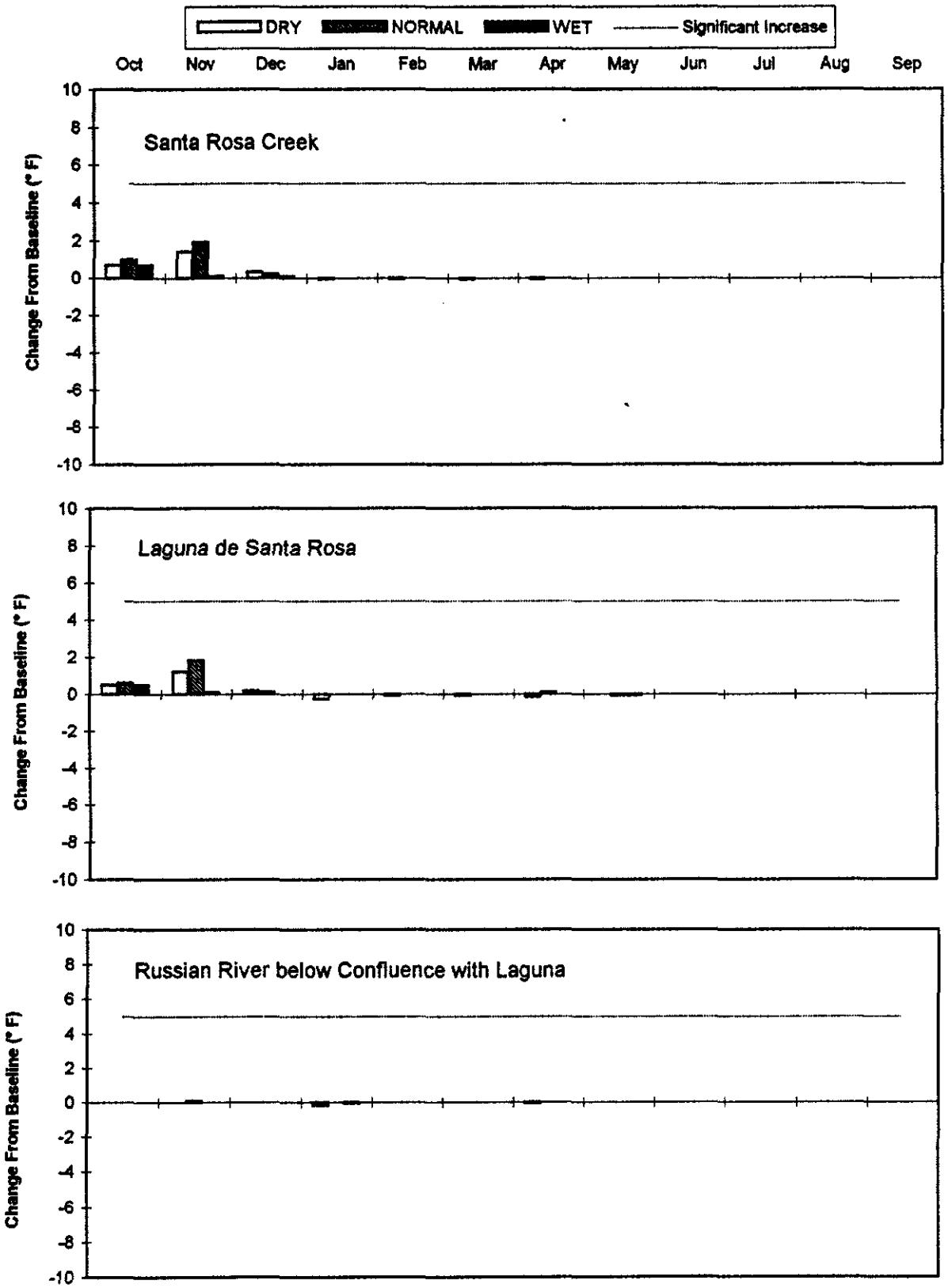


FIGURE 4-17. Discharge Impacts on Average Monthly Temperature - 20 % to the Russian River Existing Conditions Baseline - Project Operations

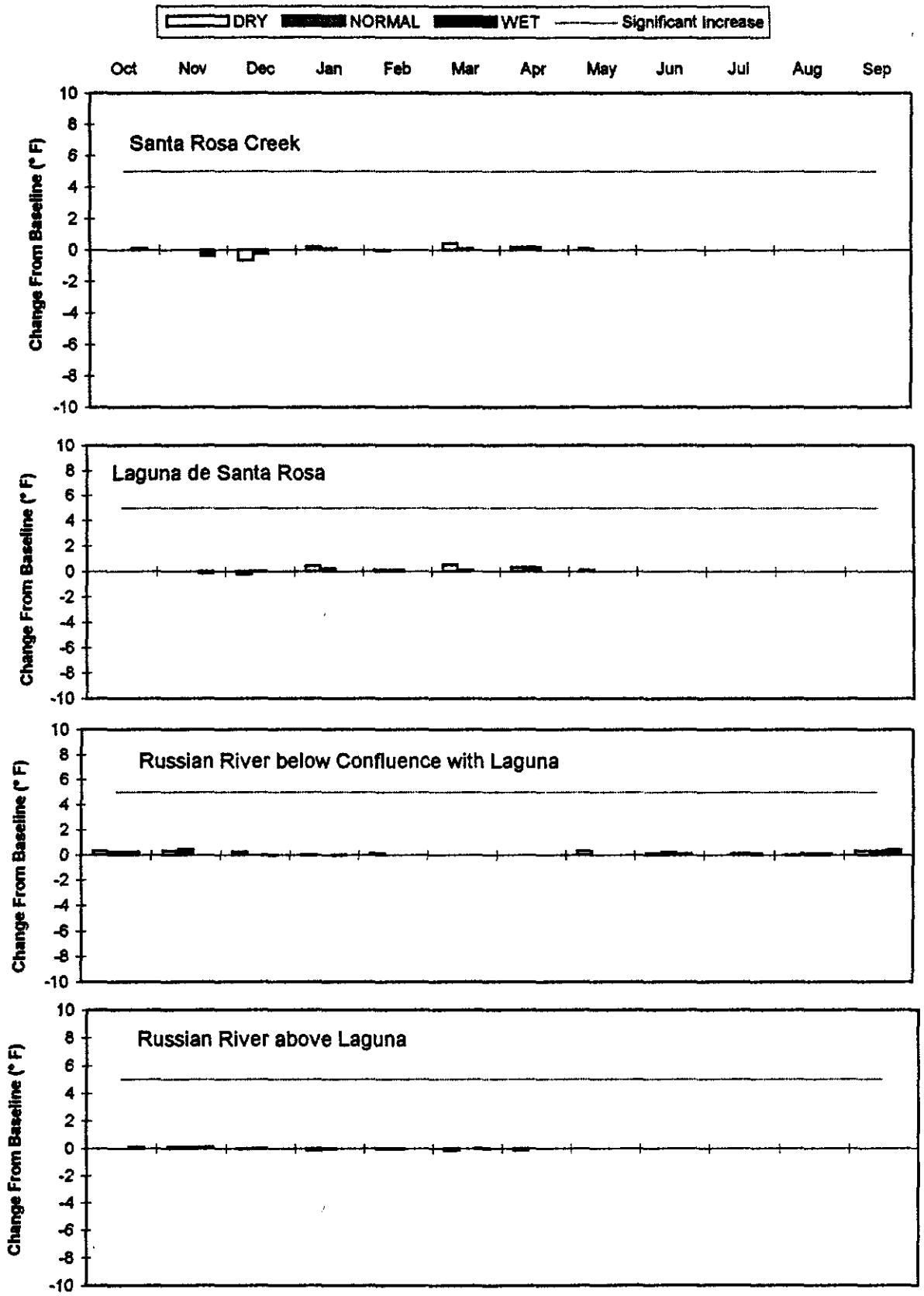


FIGURE 4-17. Discharge Impacts on Average Monthly Temperature - No Project Existing Conditions Baseline - Project Operations

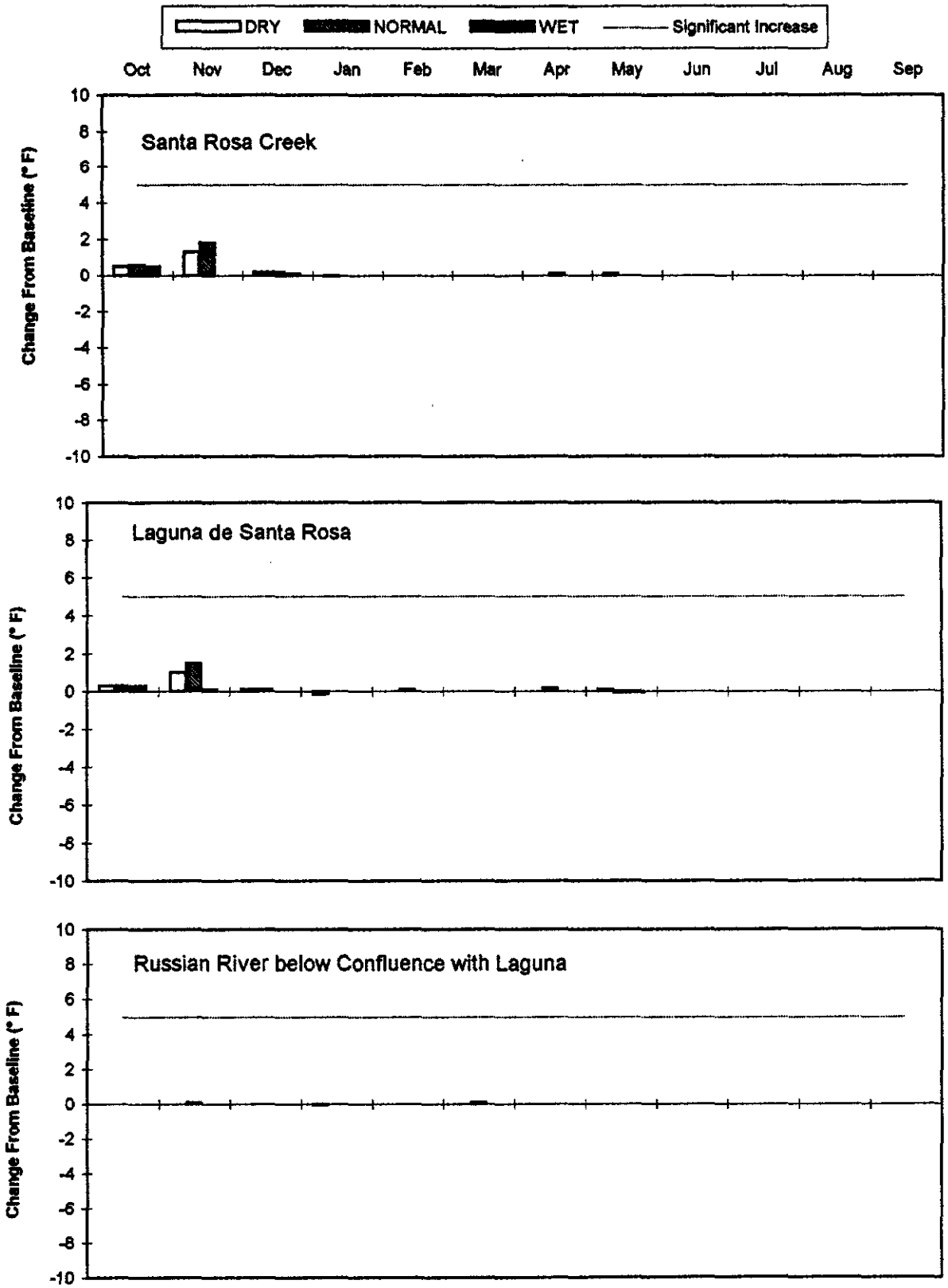


Figure 4-18. Discharge Impacts on Benthic Algae - 1% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations

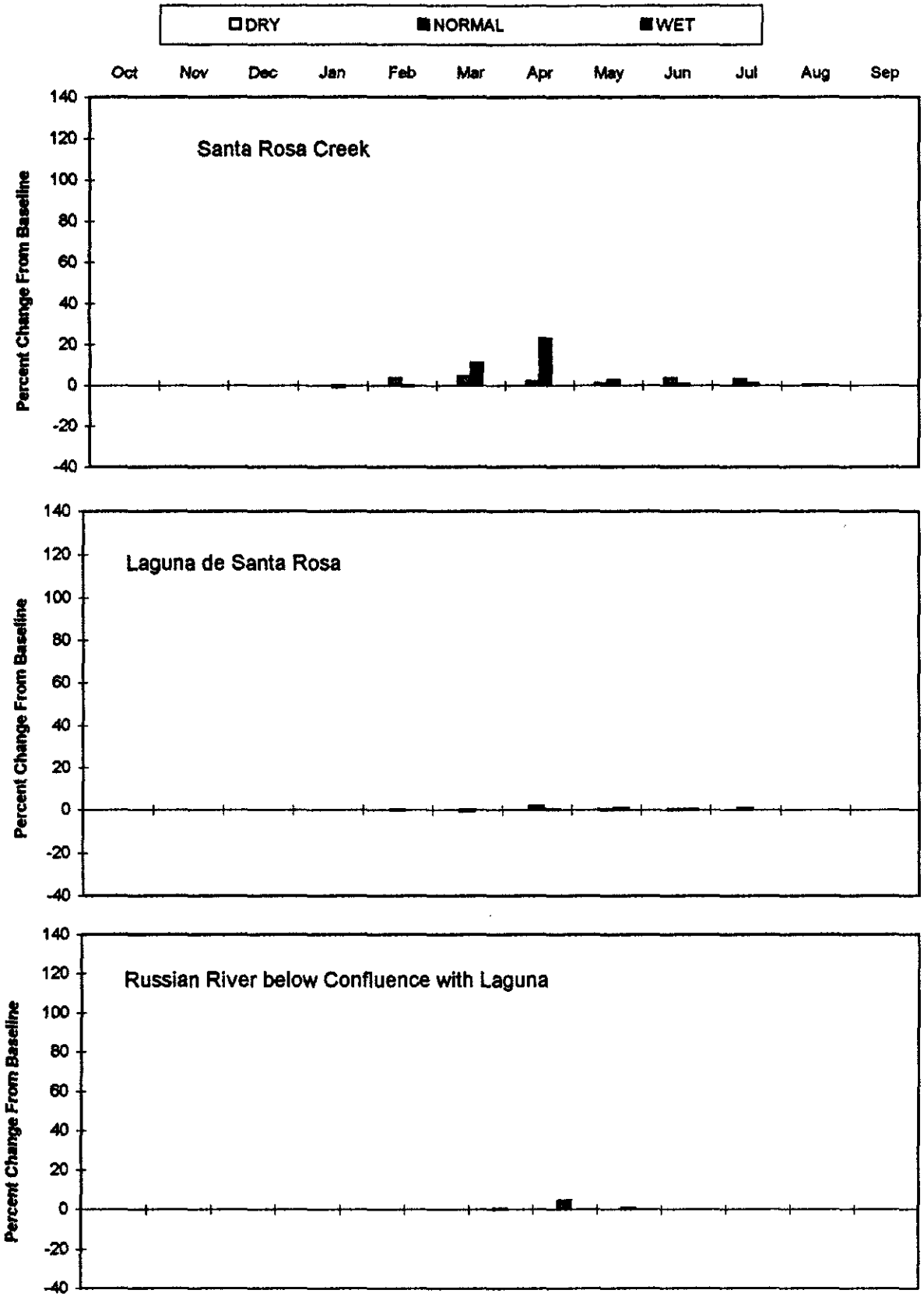


Figure 4-18. Discharge Impacts on Benthic Algae - 5% Discharge to the Laguna de Santa Rosa Zero Discharge Baseline - Project Operations

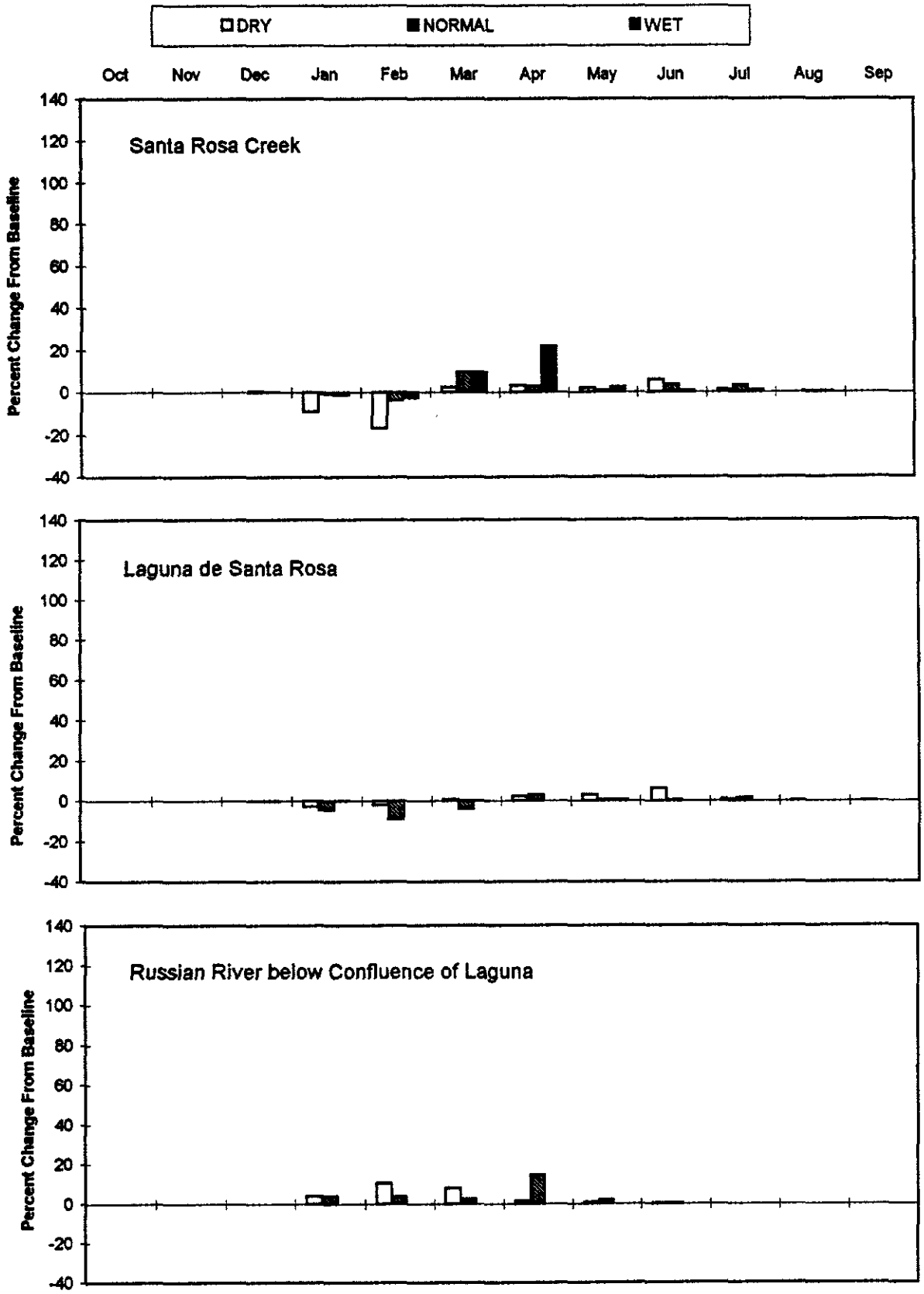


Figure 4-18. Discharge Impacts on Benthic Algae - 10% Discharge to the Laguna de Santa Rosa Zero Discharge Baseline - Project Operations

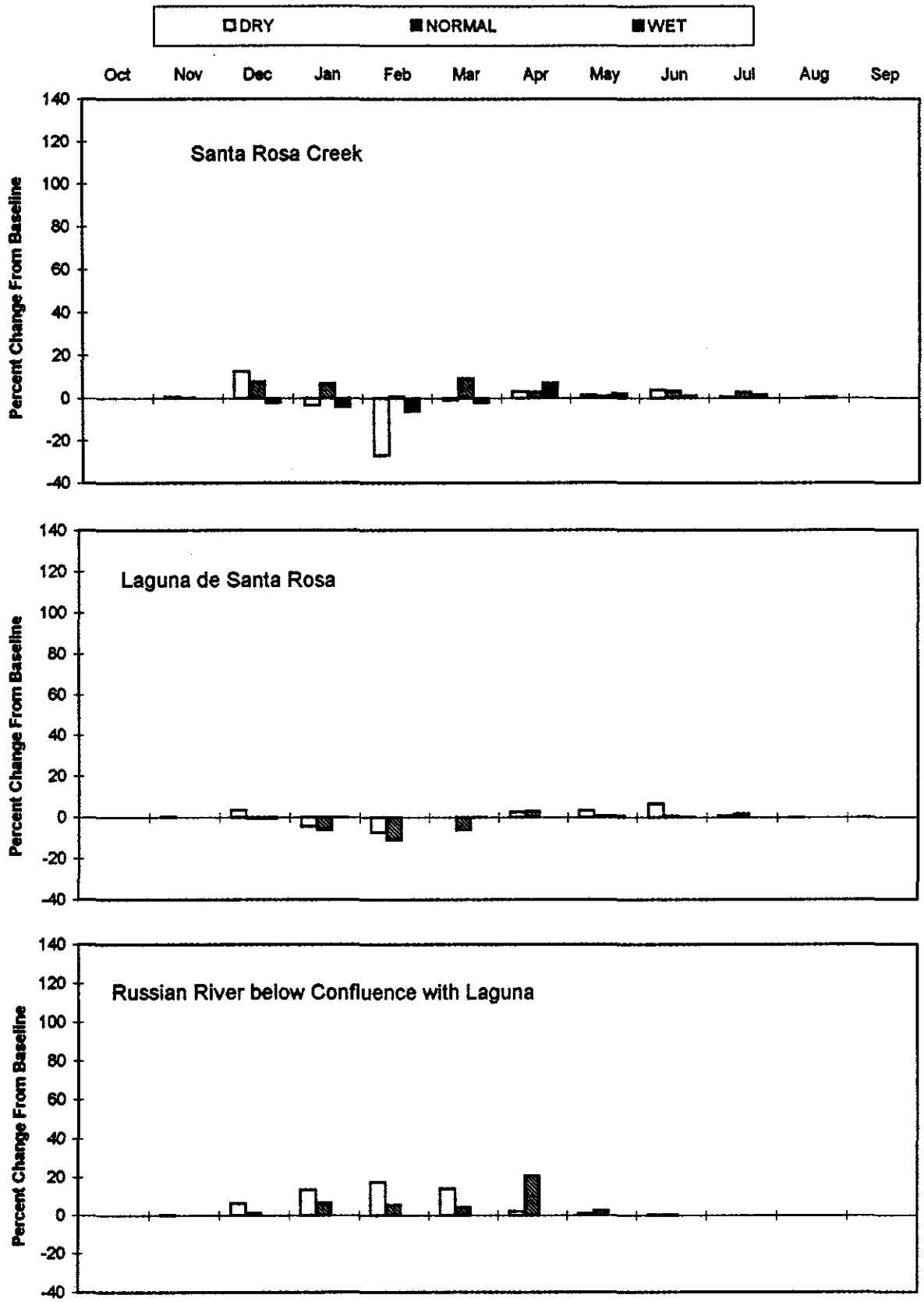
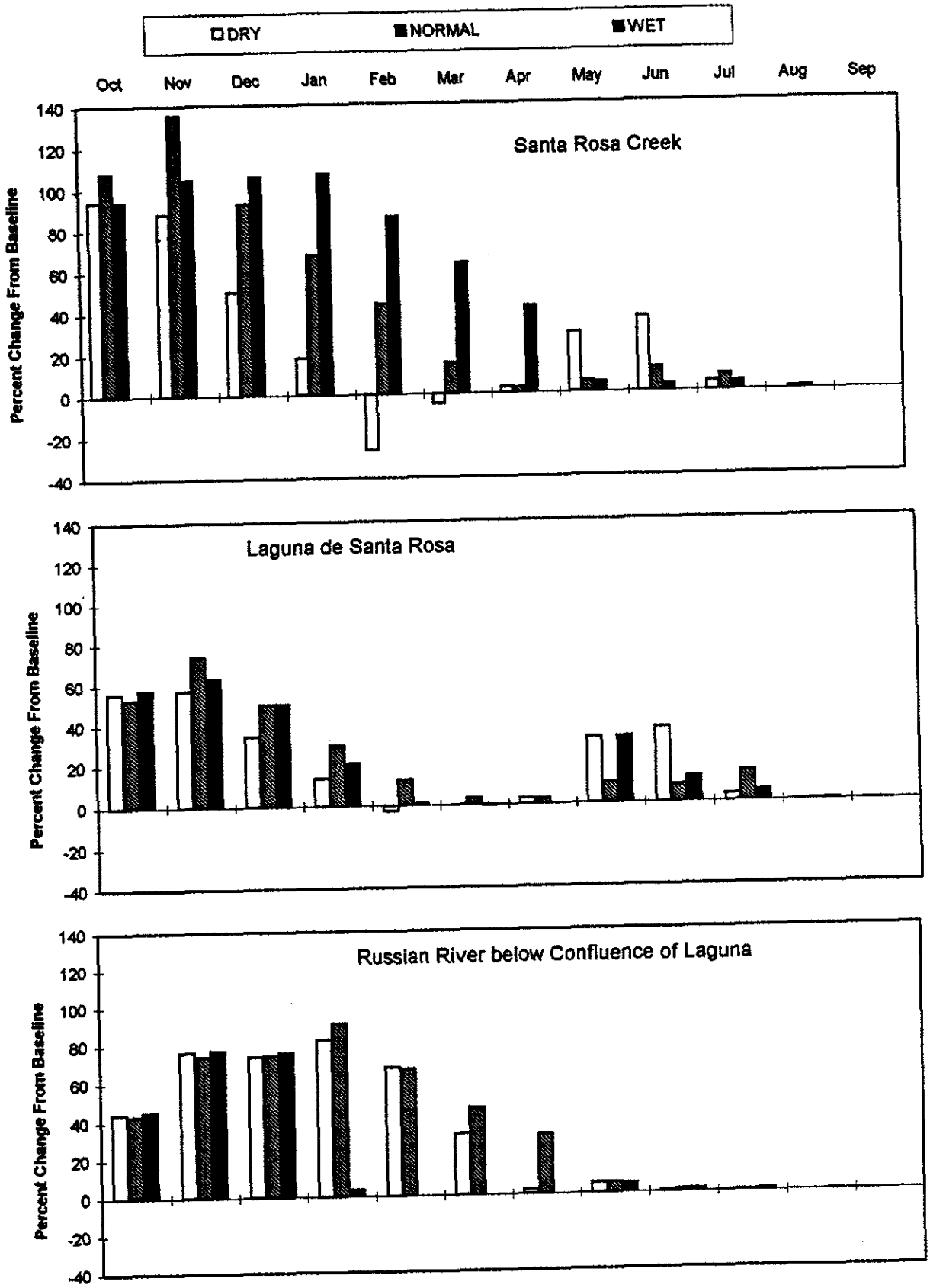


Figure 4-18. Discharge Impacts on Benthic Algae - 20% Discharge to the Laguna de Santa Rosa Zero Discharge Baseline - Project Operations



4\msoffice\excel\201\BALNODIS.XLS\20% at Lag

6/27/96

Figure 4-18. Discharge Impacts on Benthic Algae - 20% Discharge to the Russian River Zero Discharge Baseline - Project Operations

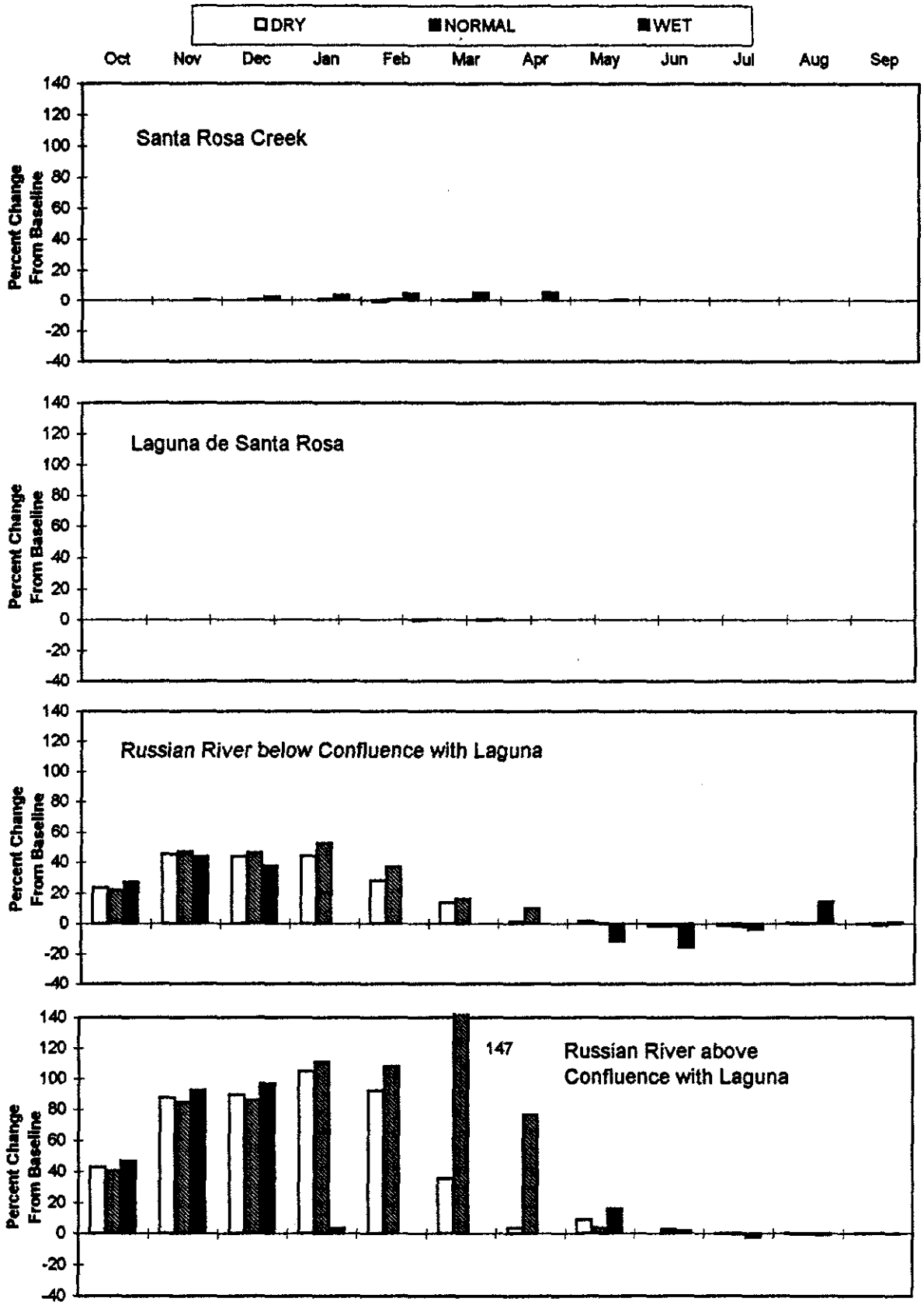


Figure 4-18. Discharge Impacts on Benthic Algae - No Project
Zero discharge Baseline - Project Operations

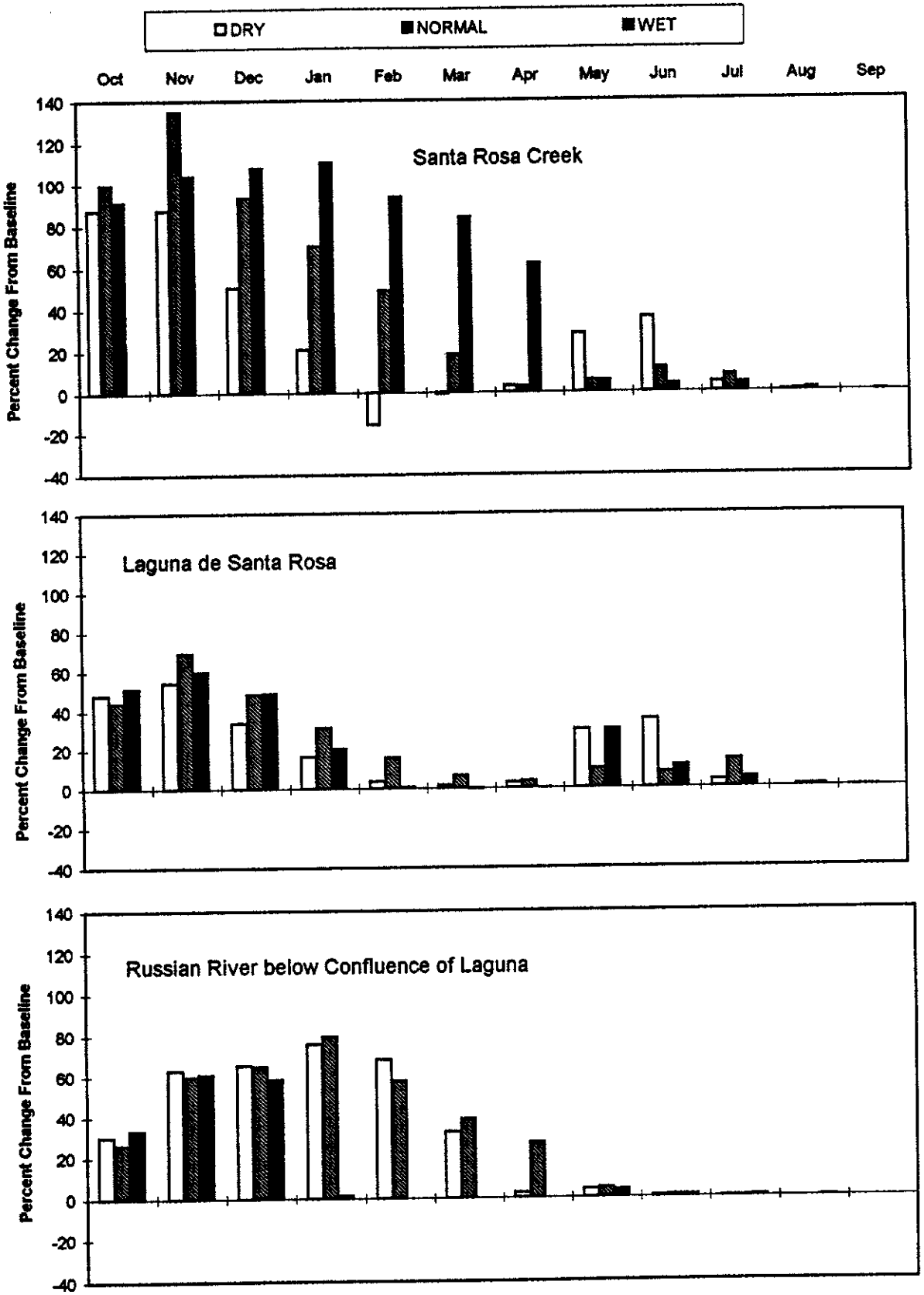


Figure 4-18. Discharge Impacts on Benthic Algae - Geysers
Zero Discharge Baseline - Project Operations

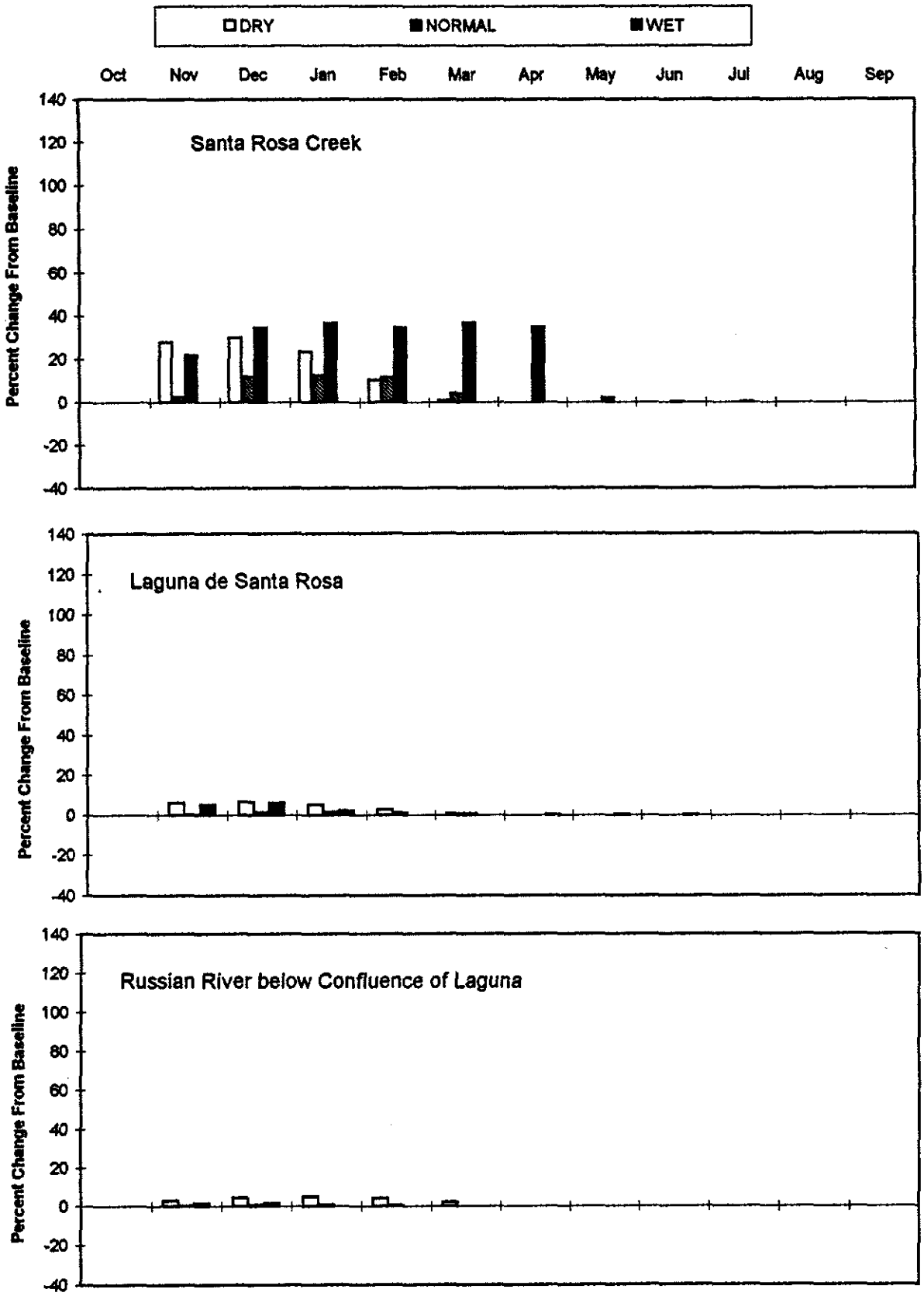


Figure 4-19. Discharge Impacts on Planktonic Algae - 1% Discharge to the Laguna de Santa Rosa Zero Discharge Baseline - Project Operations

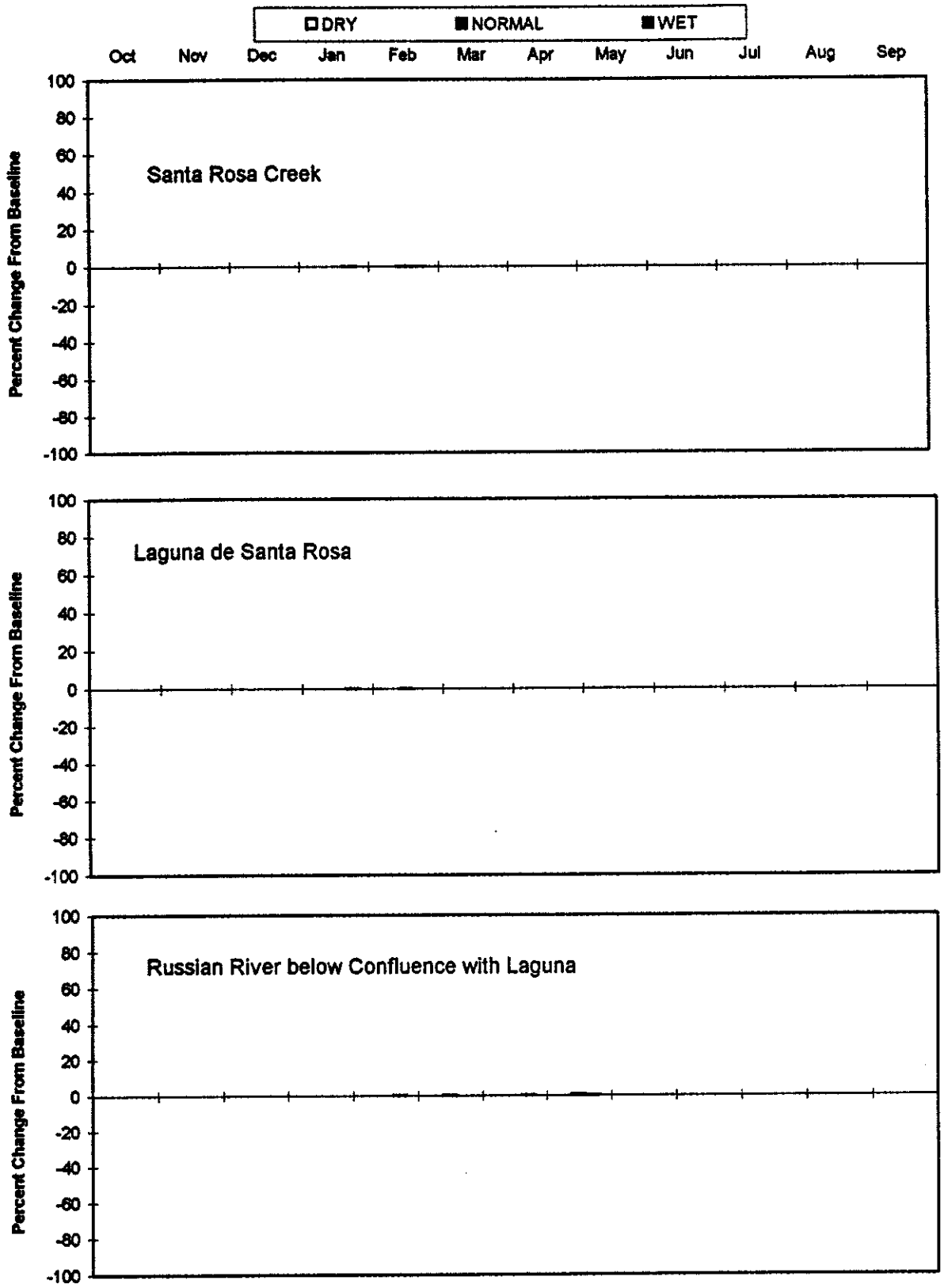


Figure 4-19. Discharge Impacts on Planktonic Algae - 5% Discharge to the Laguna de Santa Rosa Zero Discharge Baseline - Project Operations

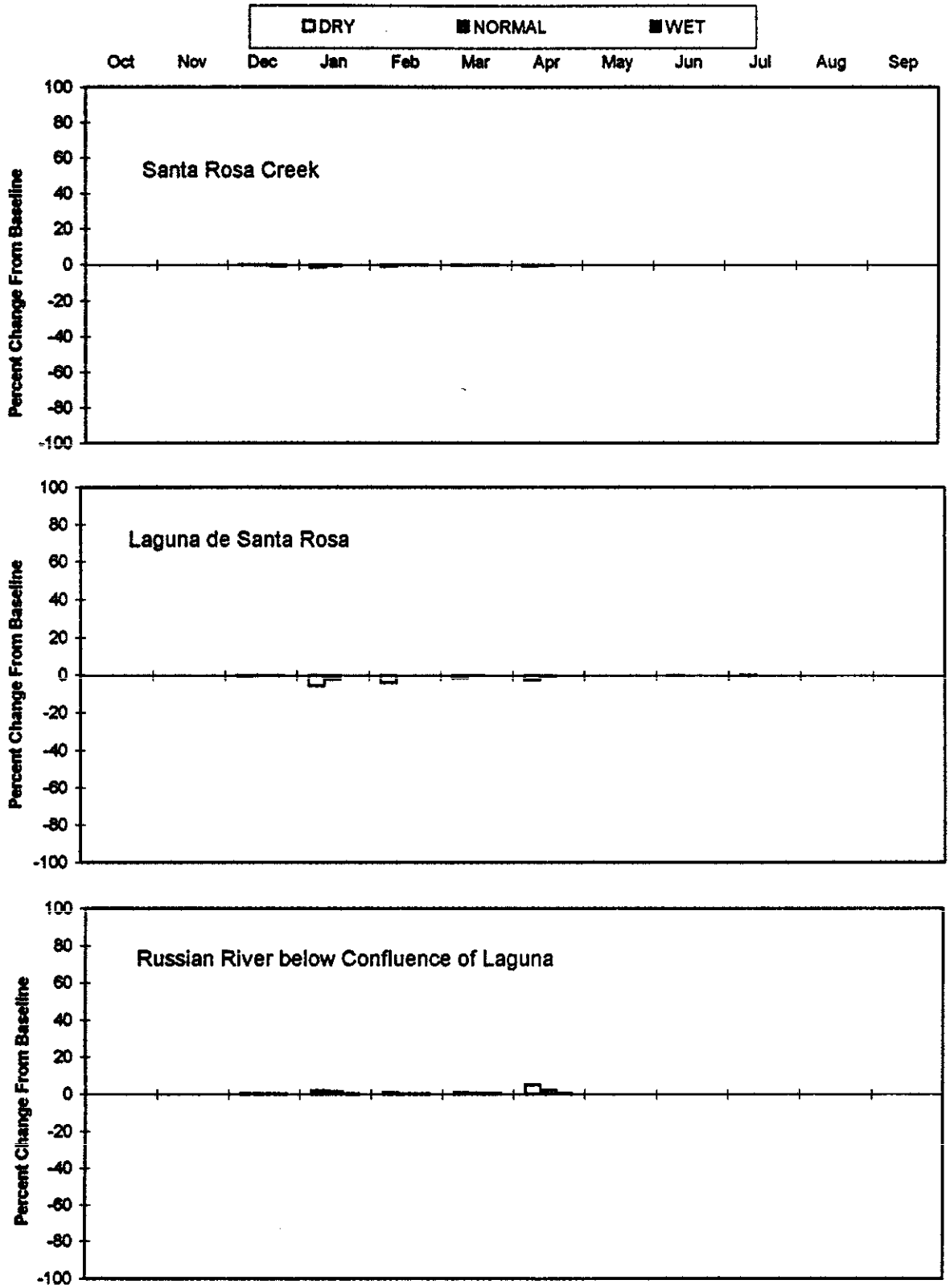


Figure 4-19. Discharge Impacts on Planktonic Algae - 10% Discharge to the Laguna de Santa Rosa

Zero Discharge Baseline - Project Operations

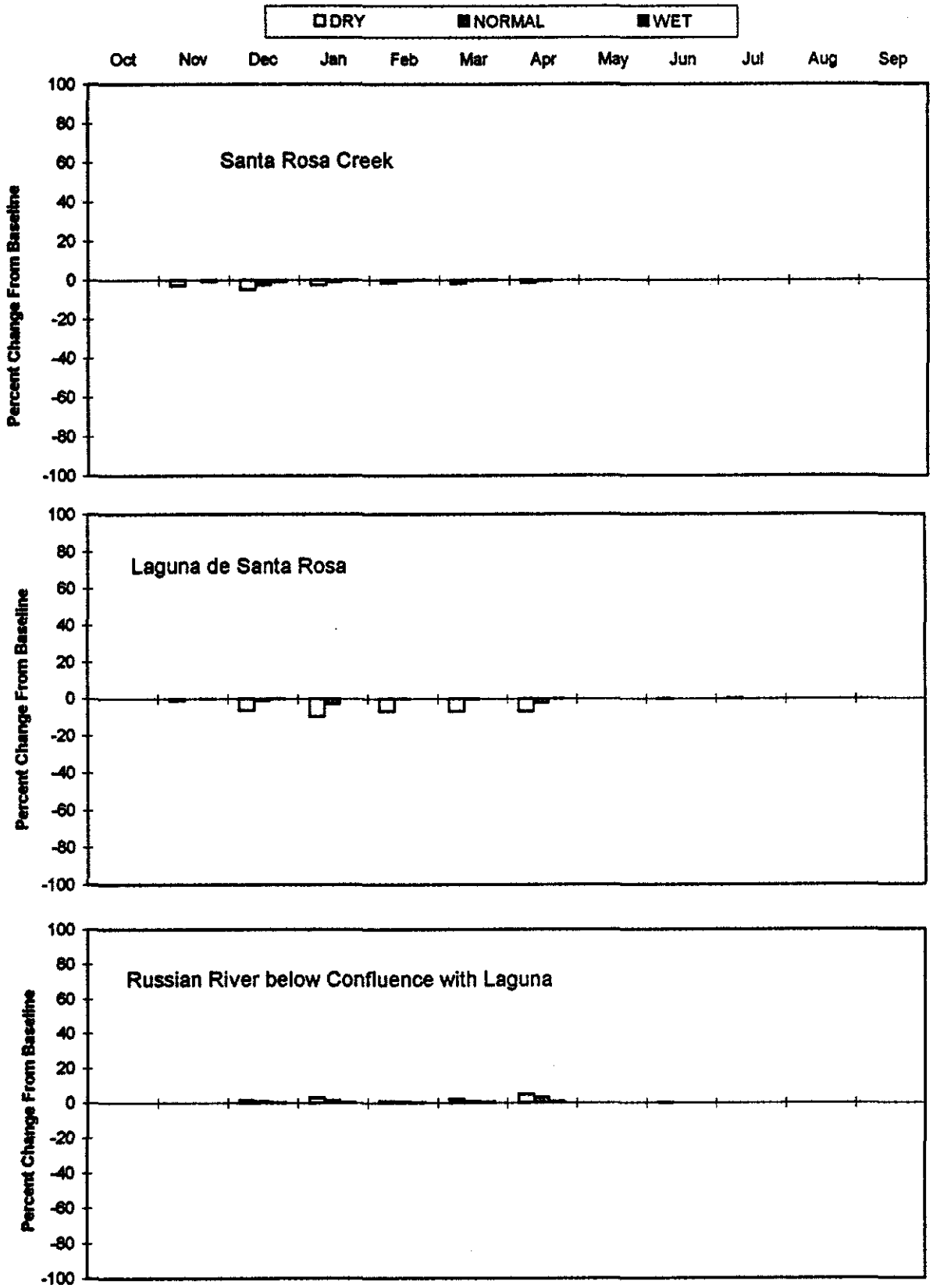


Figure 4-19. Discharge Impacts on Planktonic Algae - 20 % Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations

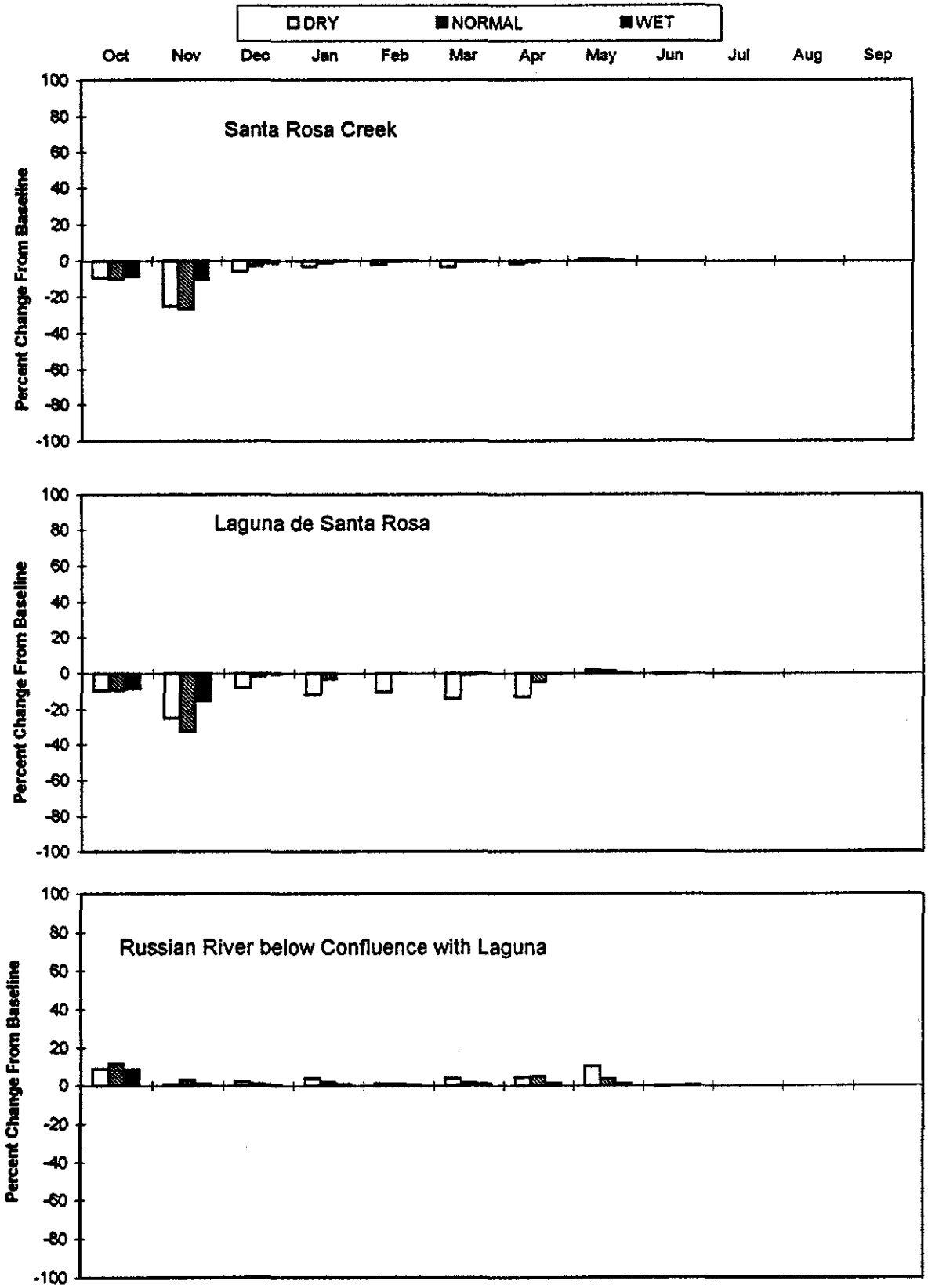


Figure 4-19. Discharge Impacts on Planktonic Algae - 20% Discharge to the Russian River Zero Discharge Baseline - Project Operations

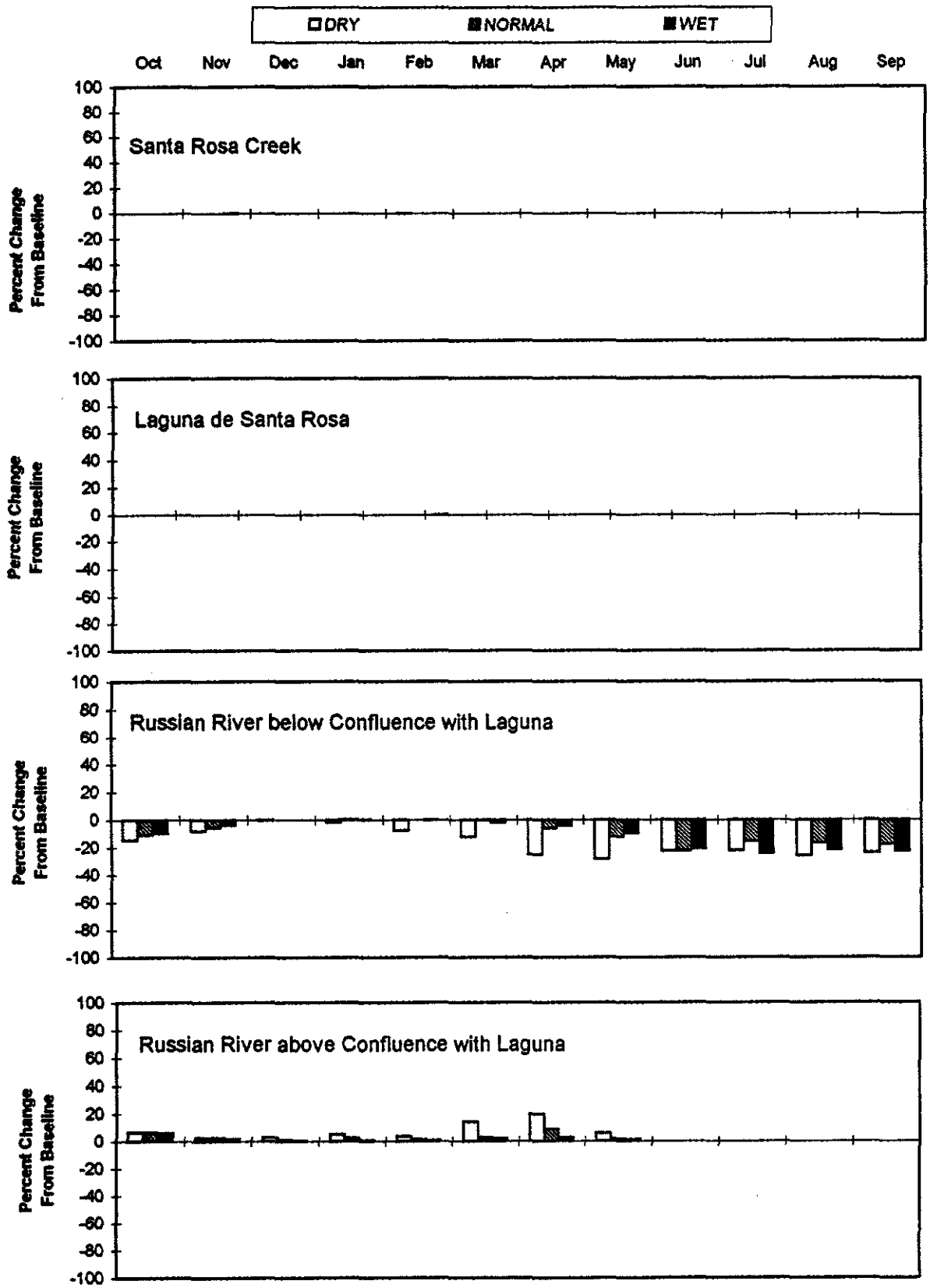


Figure 4-19. Discharge Impacts on Planktonic Algae - Geysers
Zero Discharge Baseline - Project Operations

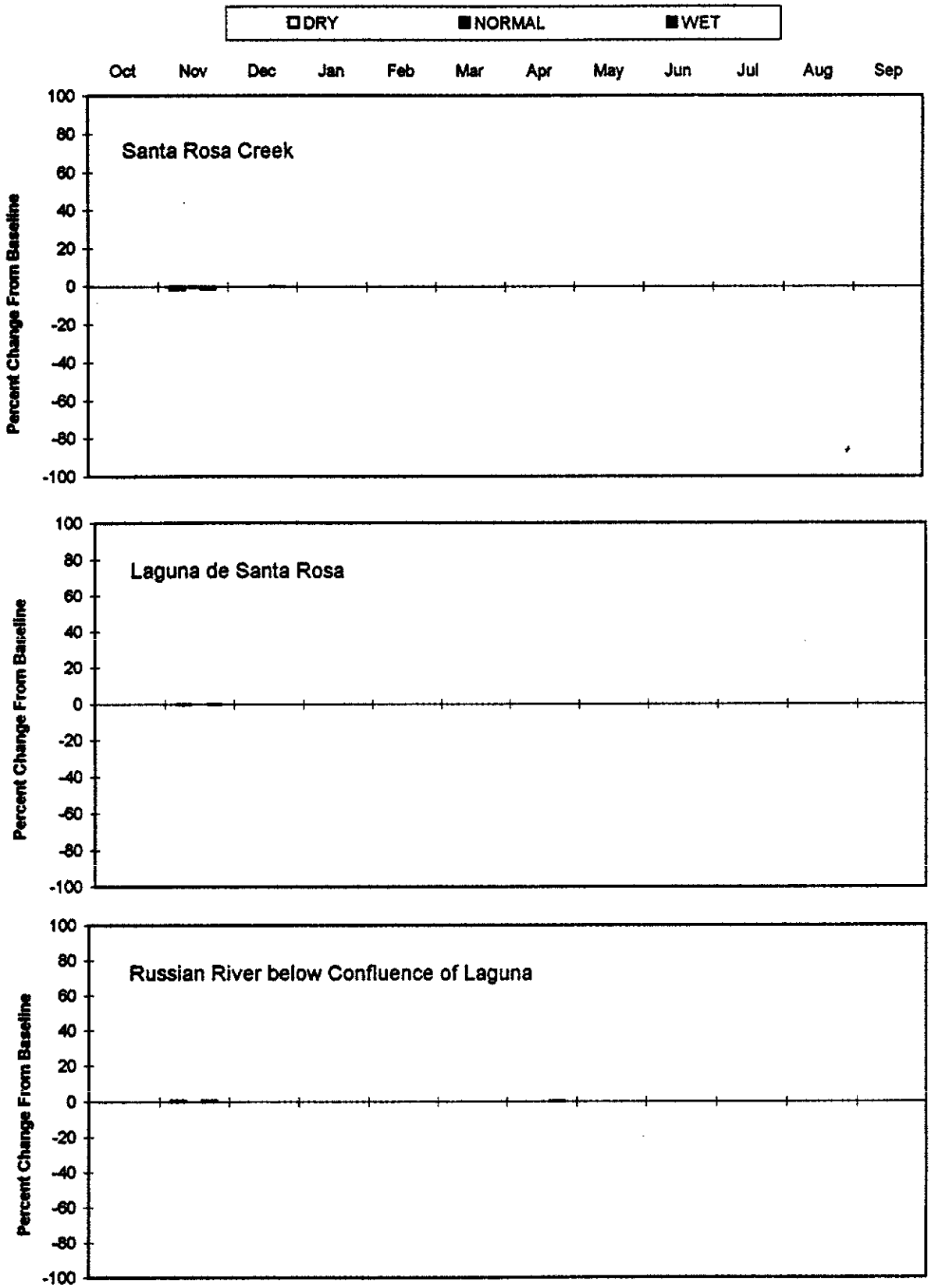


Figure 4-19. Discharge Impacts on Planktonic Algae - No Project Zero Discharge Baseline - Project Operations

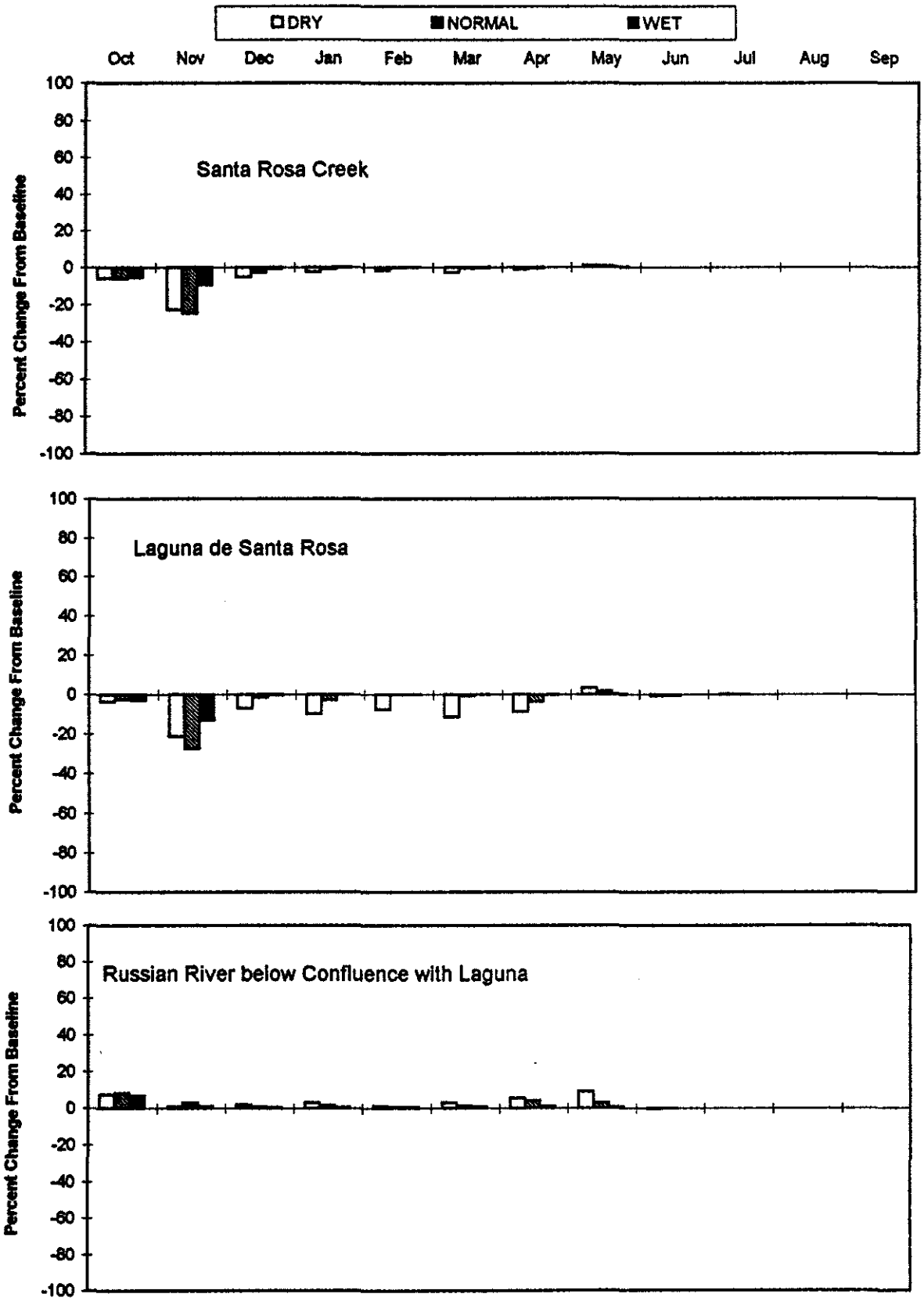


Figure 4-20. Discharge Impacts on Average Monthly Dissolved Oxygen - 1% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations

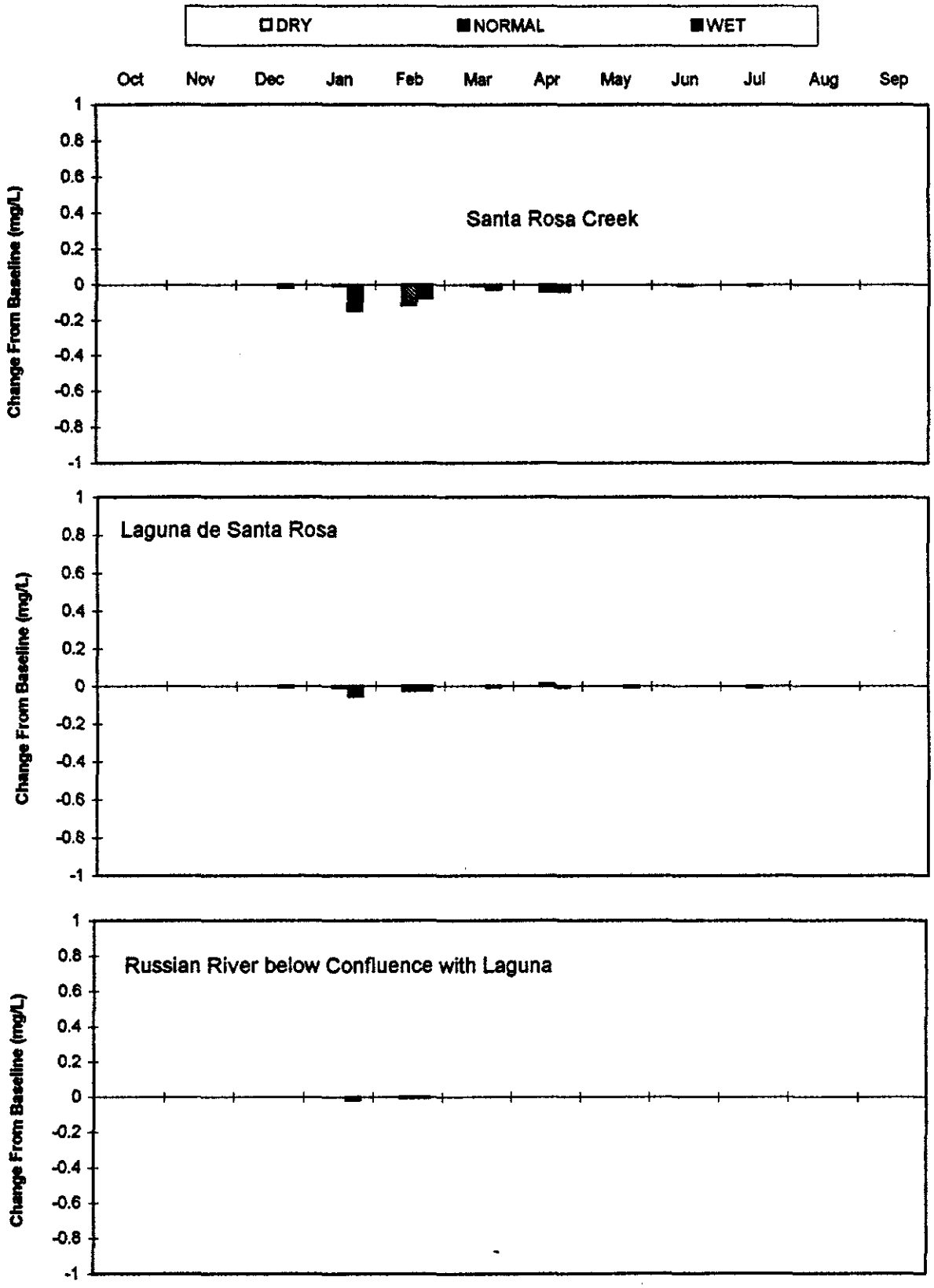


Figure 4-20. Discharge Impacts on Average Monthly Dissolved Oxygen - 5% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations

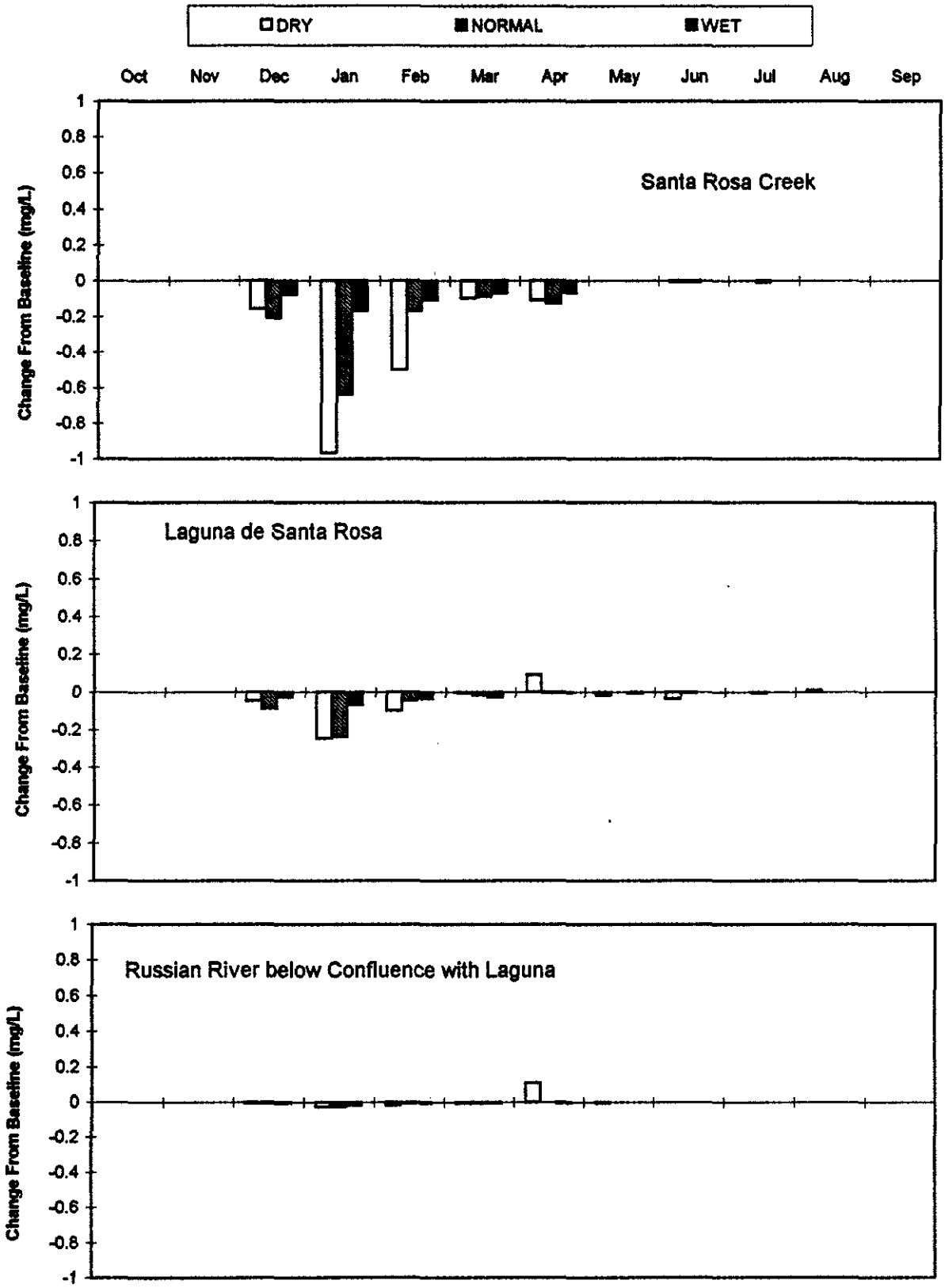
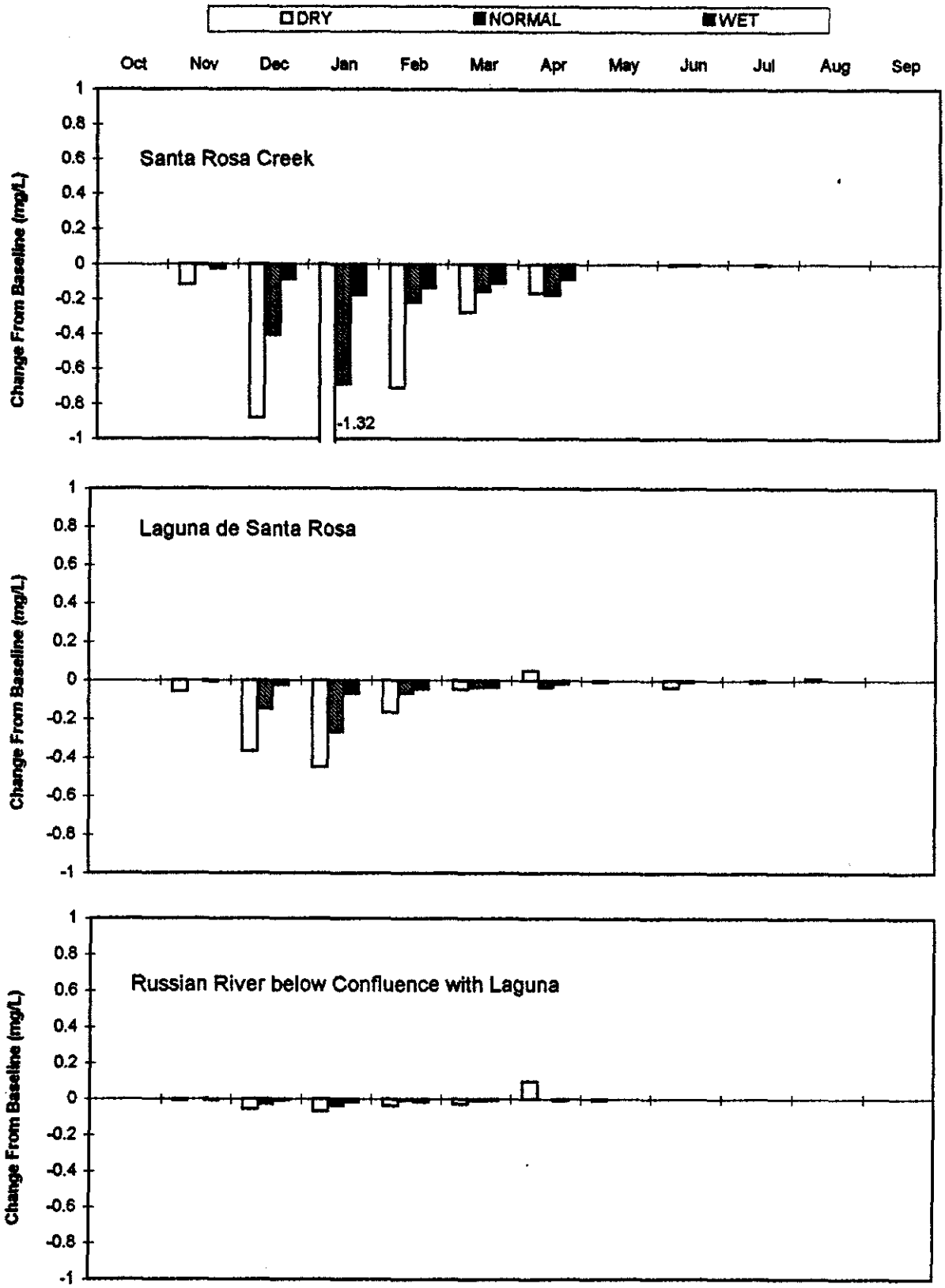


Figure 4-20. Discharge Impacts on Average Monthly Dissolved Oxygen - 10% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations



Figur 4-20. Discharge Impacts on Average Monthly Dissolved Oxygen - 20% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations

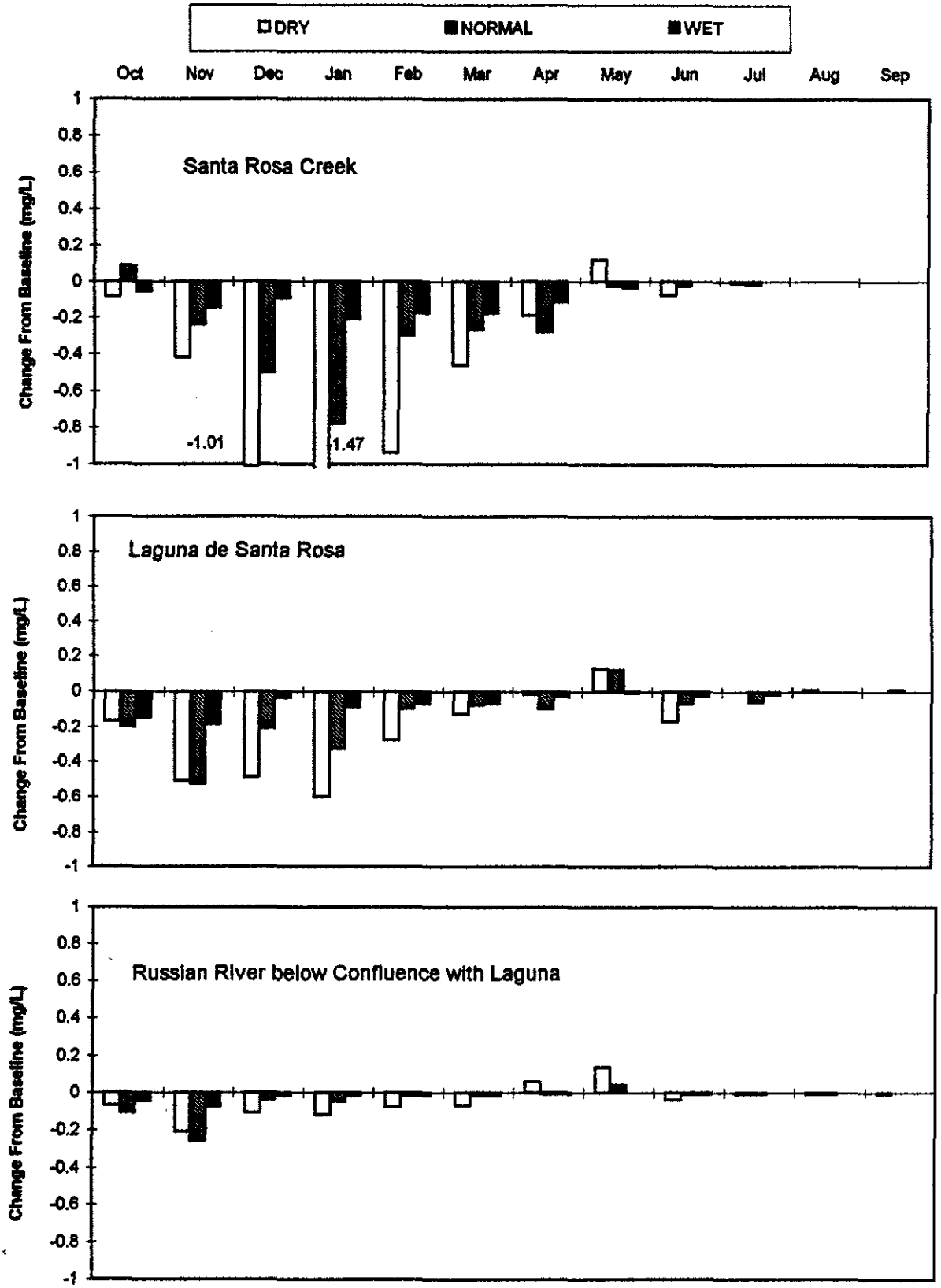


Figure 4-20. Discharge Impacts on Average Monthly Dissolved Oxygen - 20% Discharge to the Russian River
Zero Discharge Baseline - Project Operations

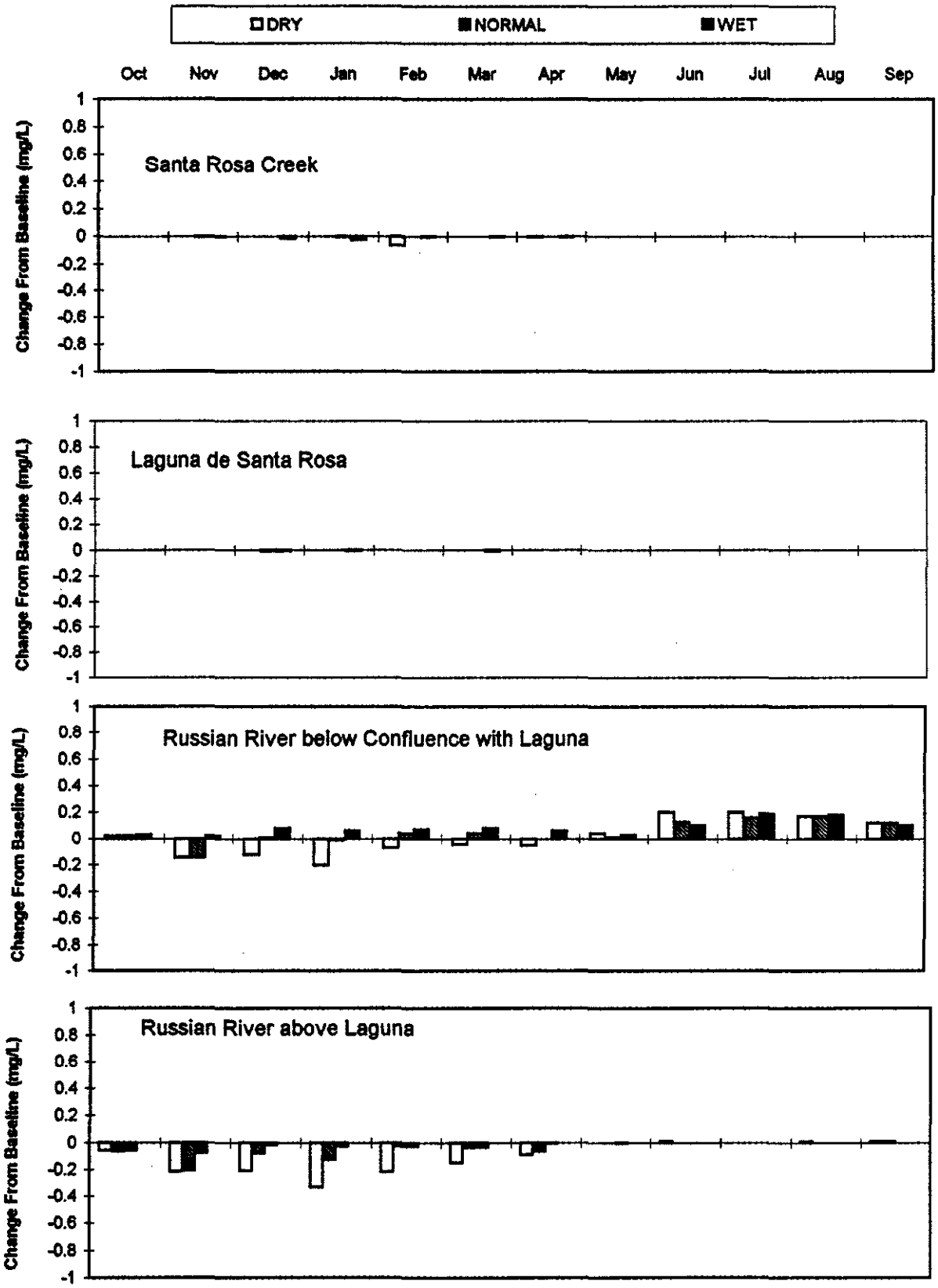


Figure 4-20. Discharge Impacts on Average Monthly Dissolved Oxygen - No Project Zero Discharge Baseline - Project Operations

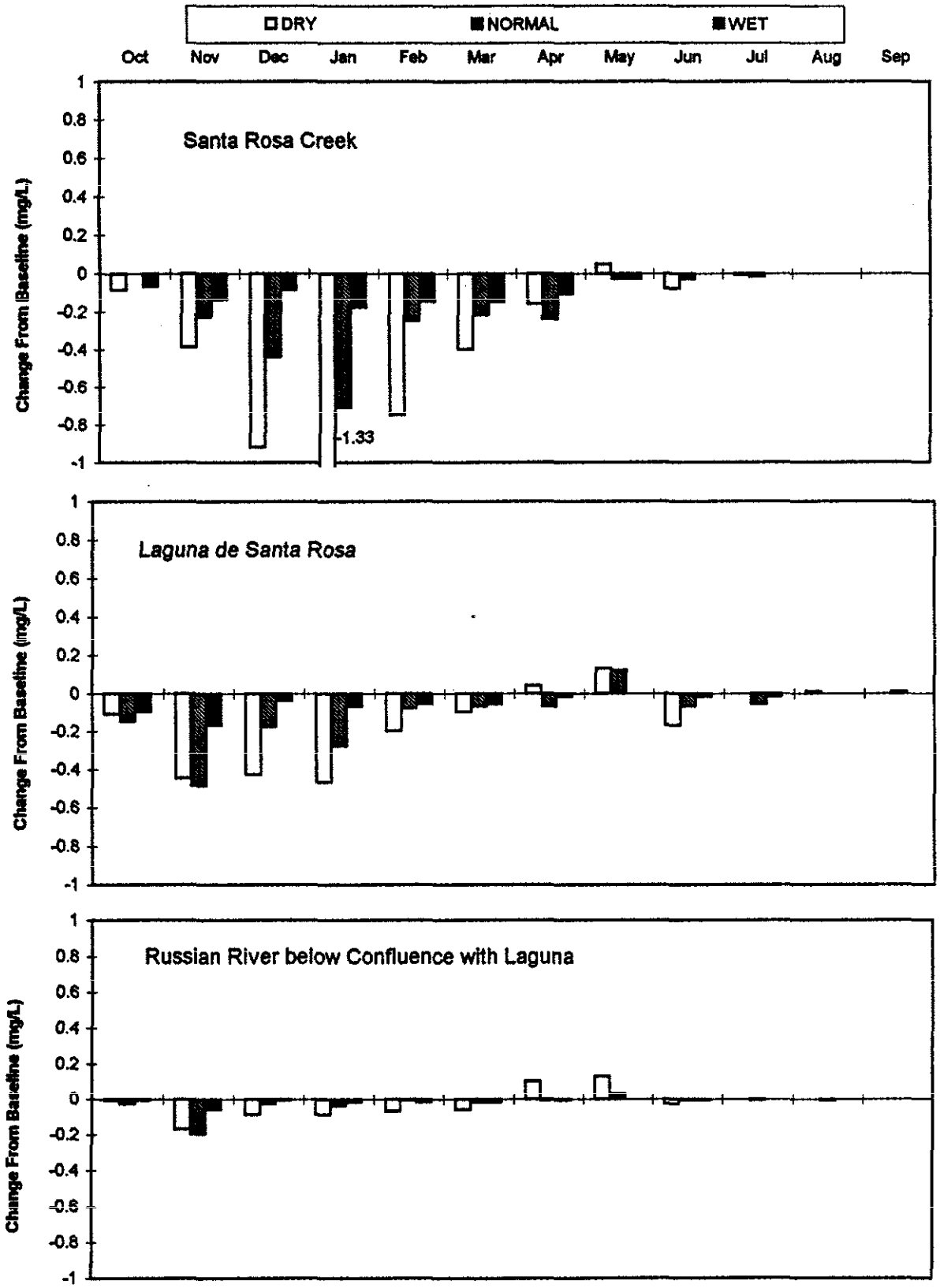


Figure 4-20. Discharge Impacts on Average Monthly Dissolved Oxygen - Geysers Zero Discharge Baseline - Project Operations

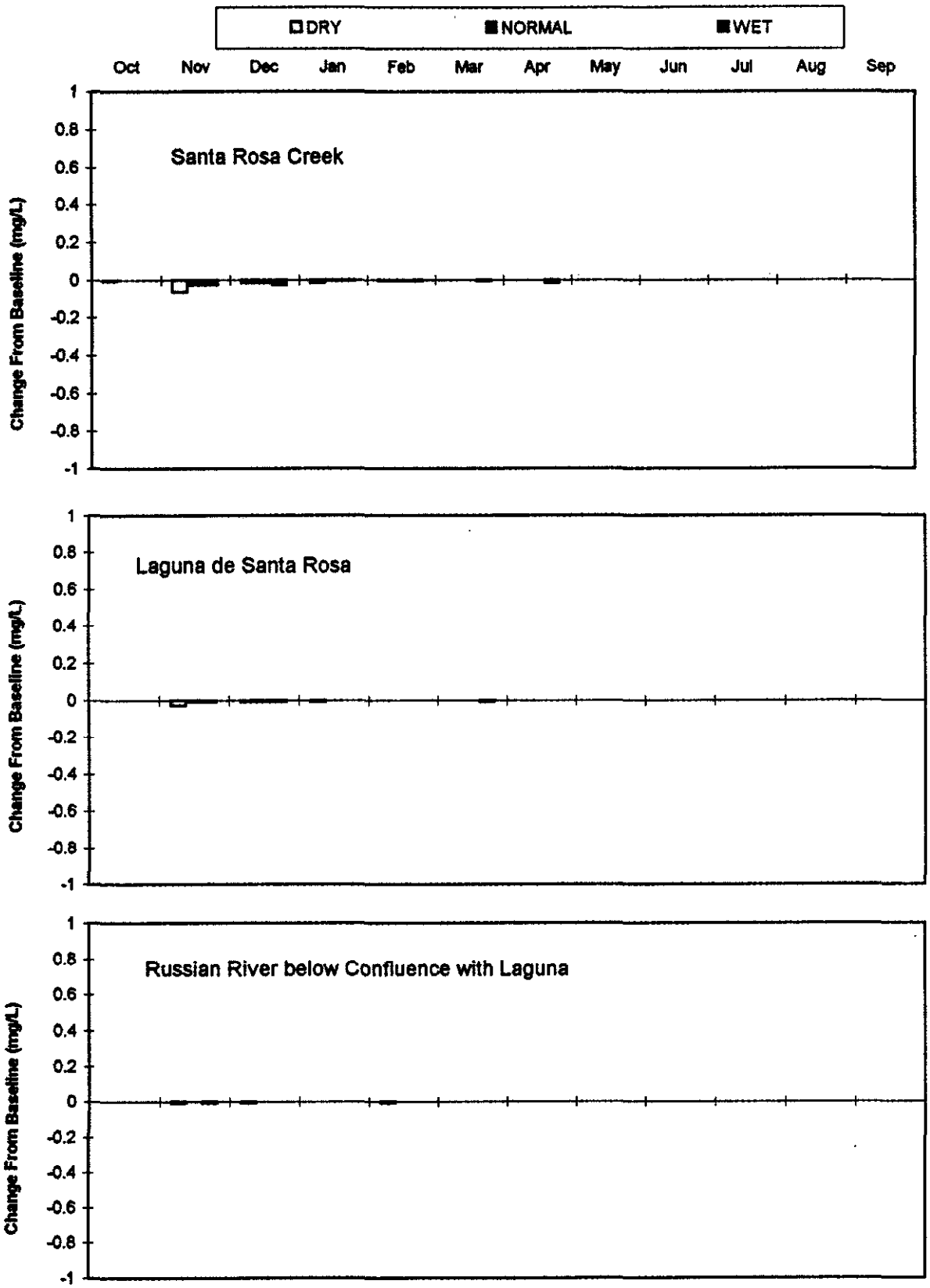


Figure 4-21. Discharge Impacts on Ammonia - 1% Discharge to the Laguna de Santa Rosa Zero Discharge Baseline - Project Operations

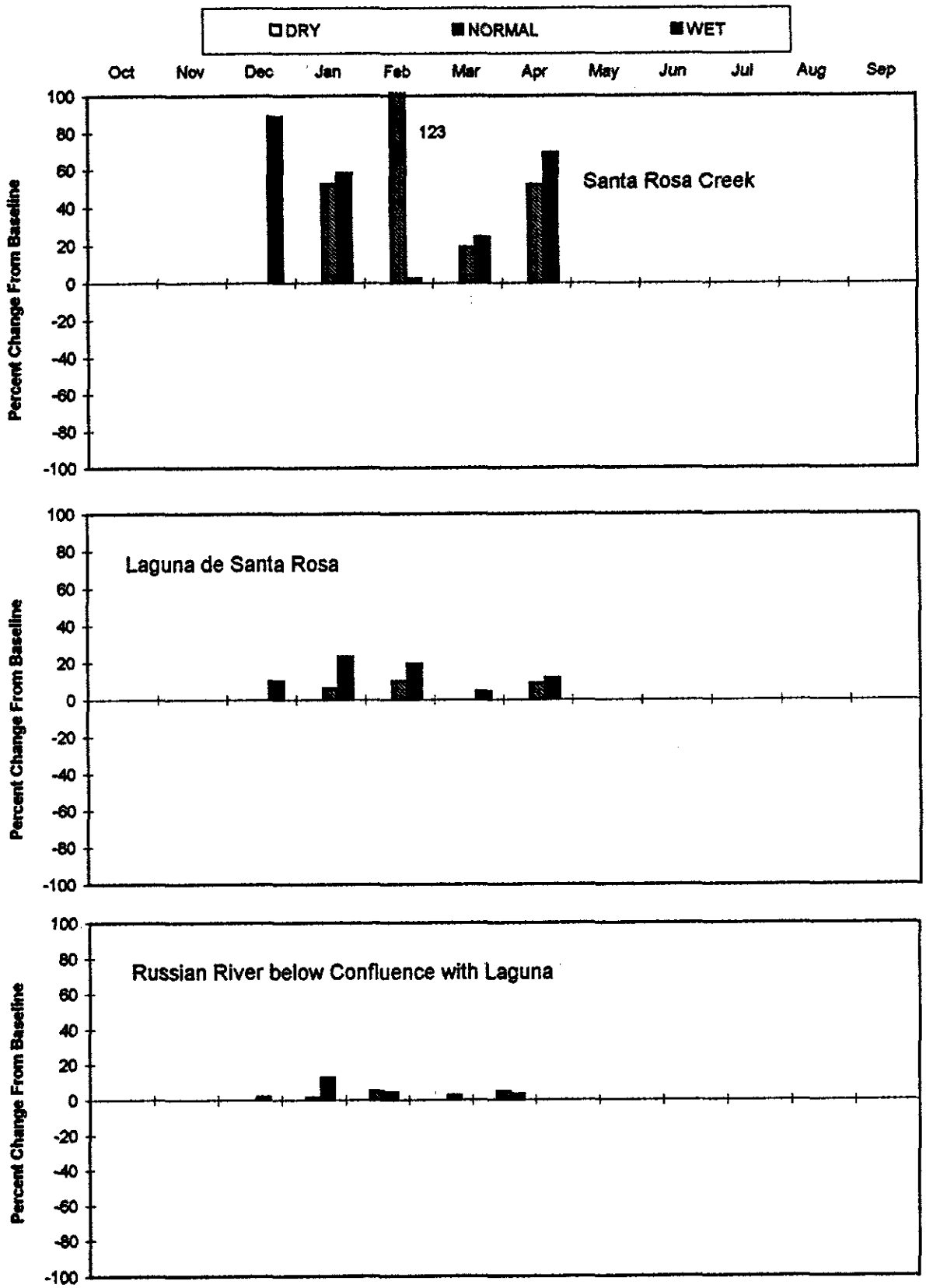


Figure 4-21. Discharge Impacts on Ammonia - 5% Discharge to the Laguna de Santa Rosa Zero Discharge Baseline - Project Operations

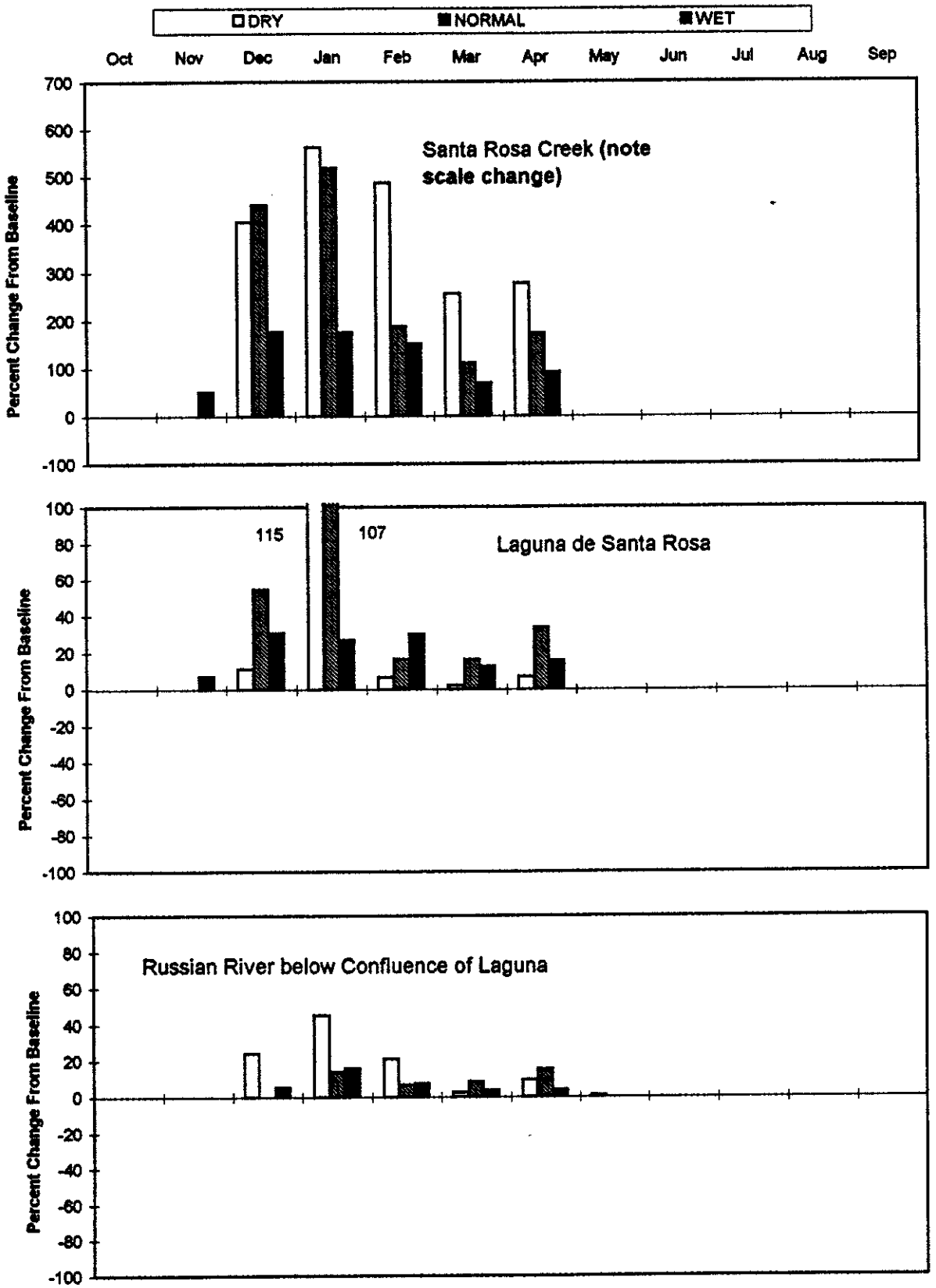


Figure 4-21. Discharge Impacts on Ammonia - 10% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations

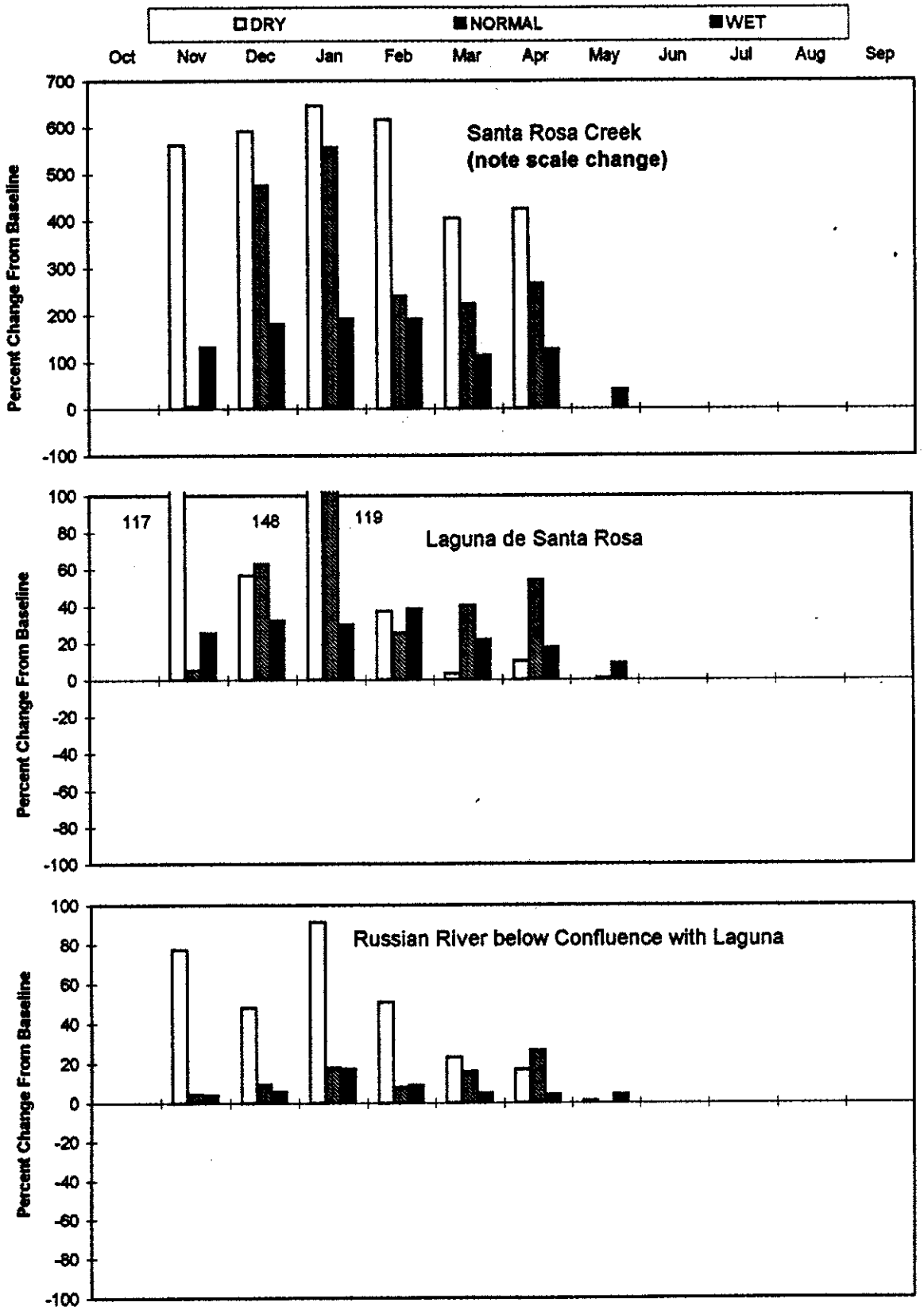


Figure 4-21. Discharge Impacts on Ammonia - 20% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations

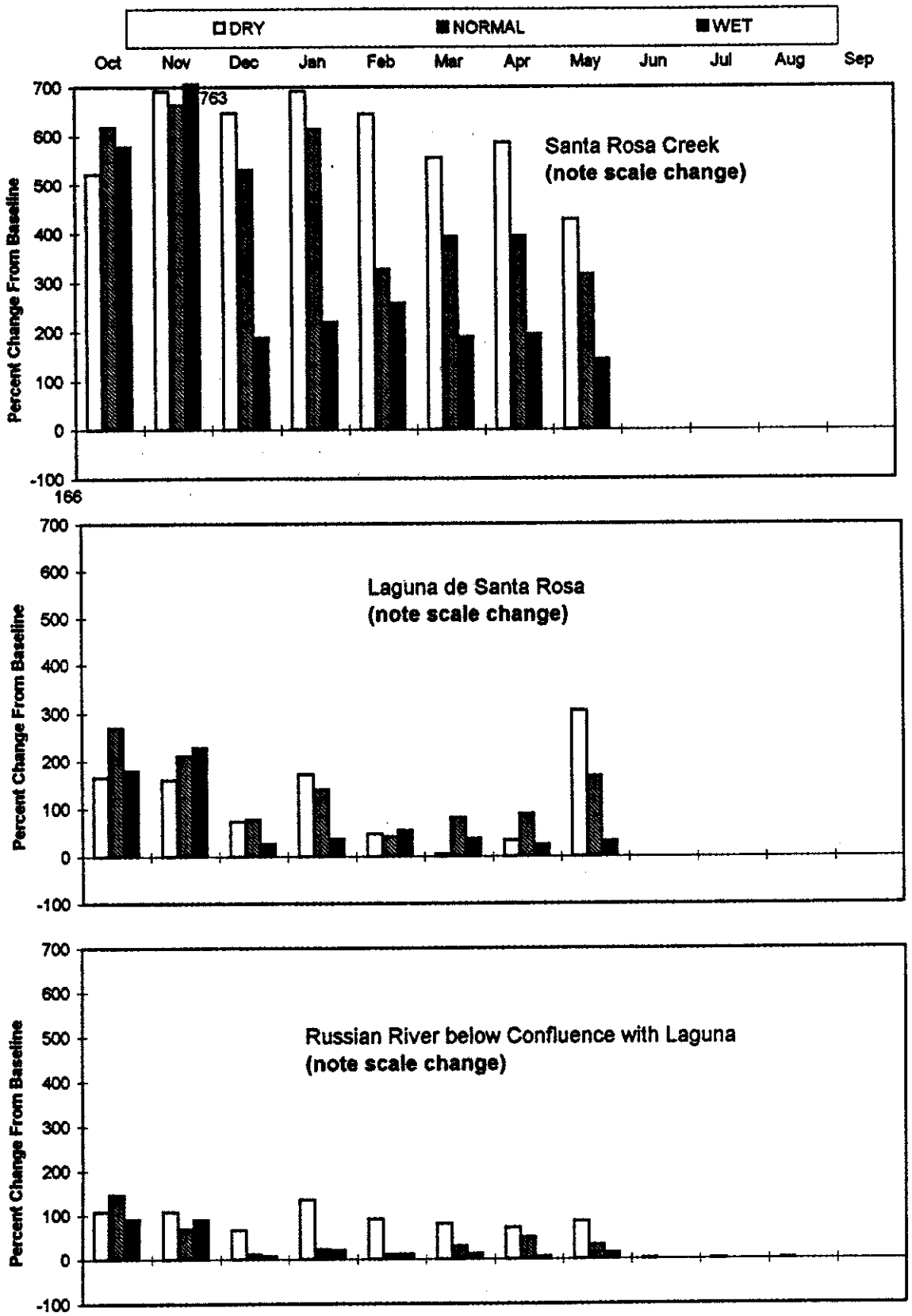


Figure 4-21. Discharge Impacts on Ammonia - 20% Discharge to the Russian River
Zero Discharge Baseline - Project Operations

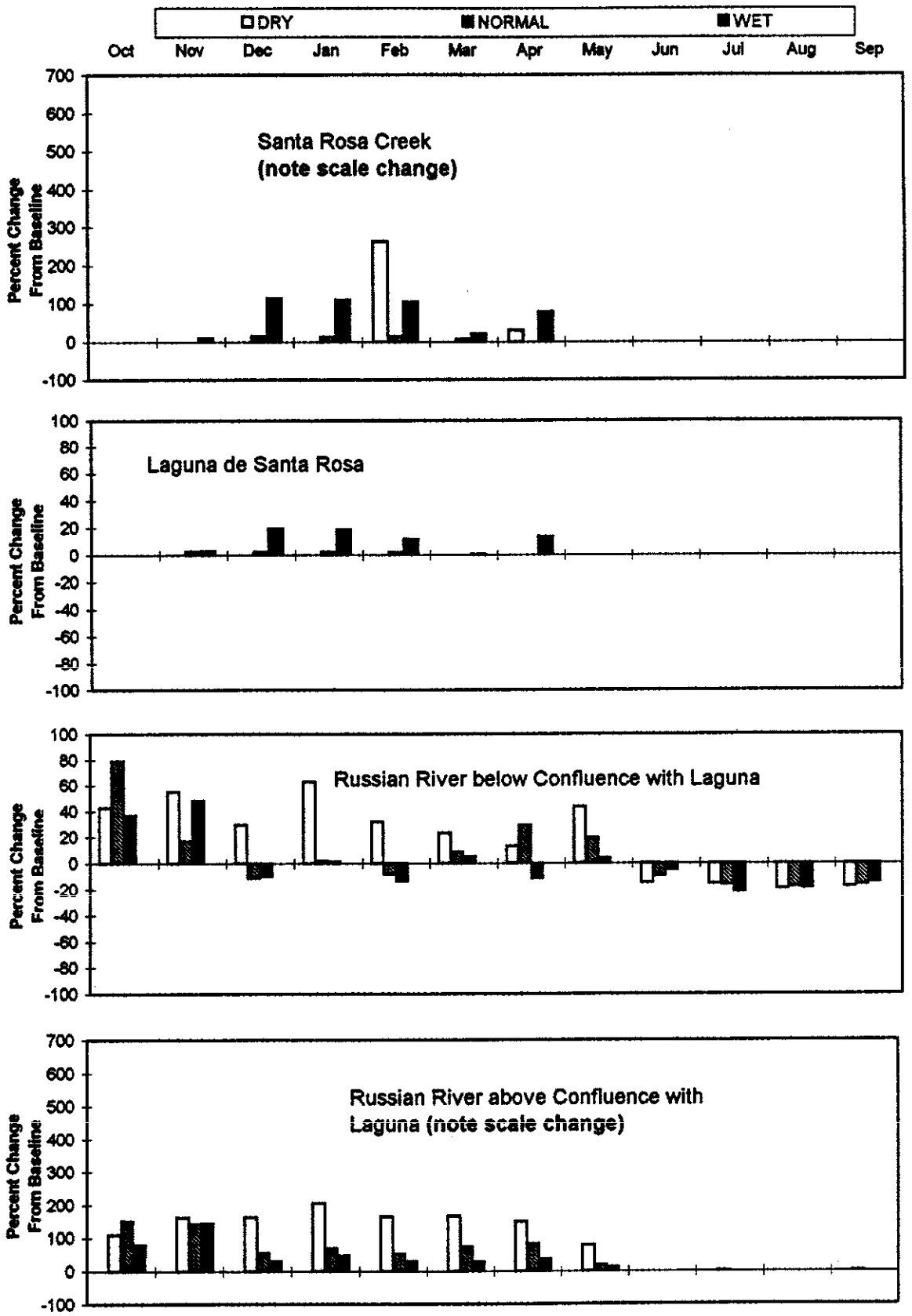


Figure 4-21. Discharge Impacts on Ammonia - No Project
Zero Discharge Baseline - Project Operations

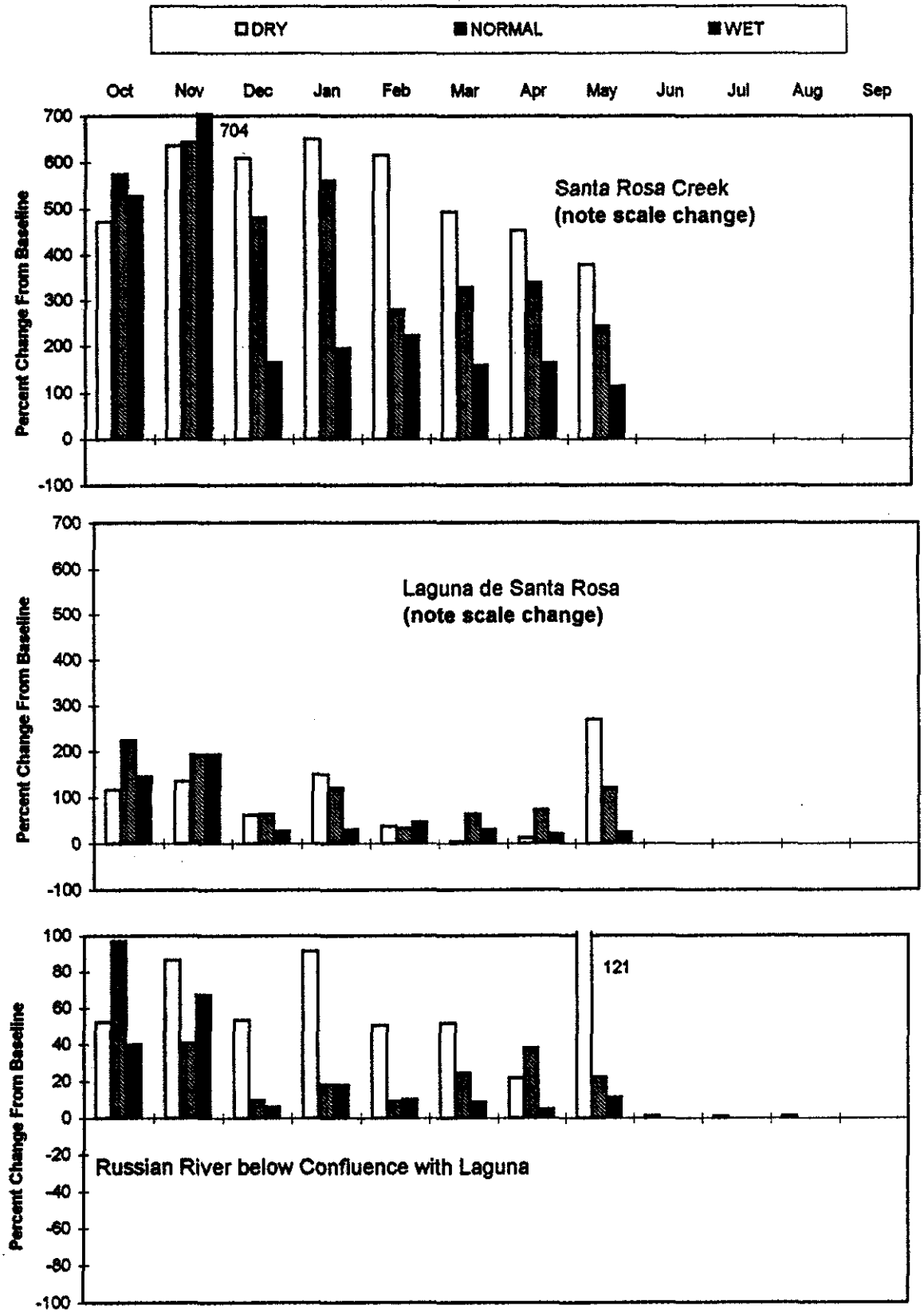


Figure 4-21. Discharge Impacts on Ammonia - Geysers
Zero Discharge Baseline - Project Operations

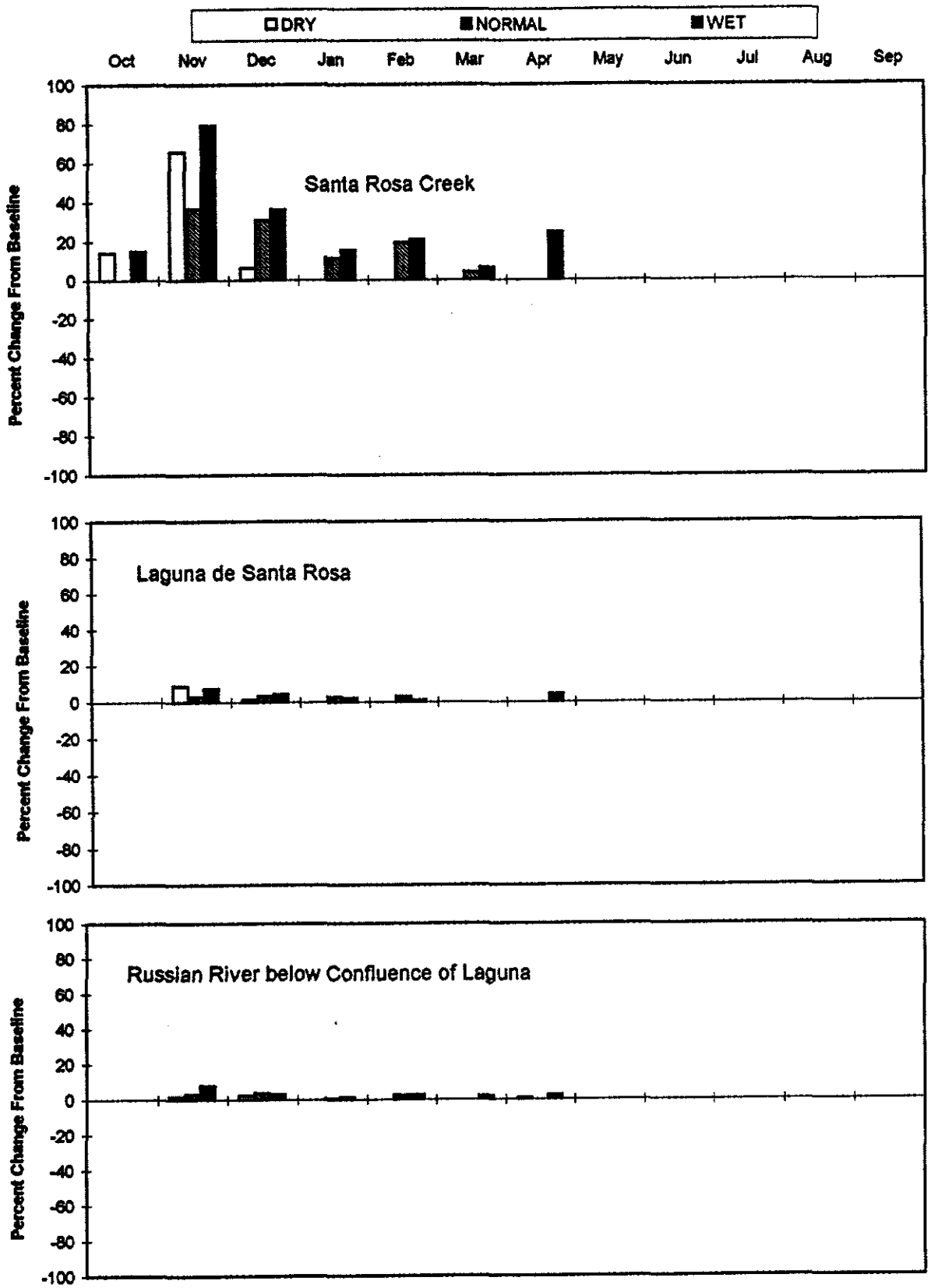


FIGURE 4-22. Discharge Impacts on Average Monthly Temperature - 1% Discharge to the Laguna de Santa Rosa
Zero Dischare Baseline - Project Operations

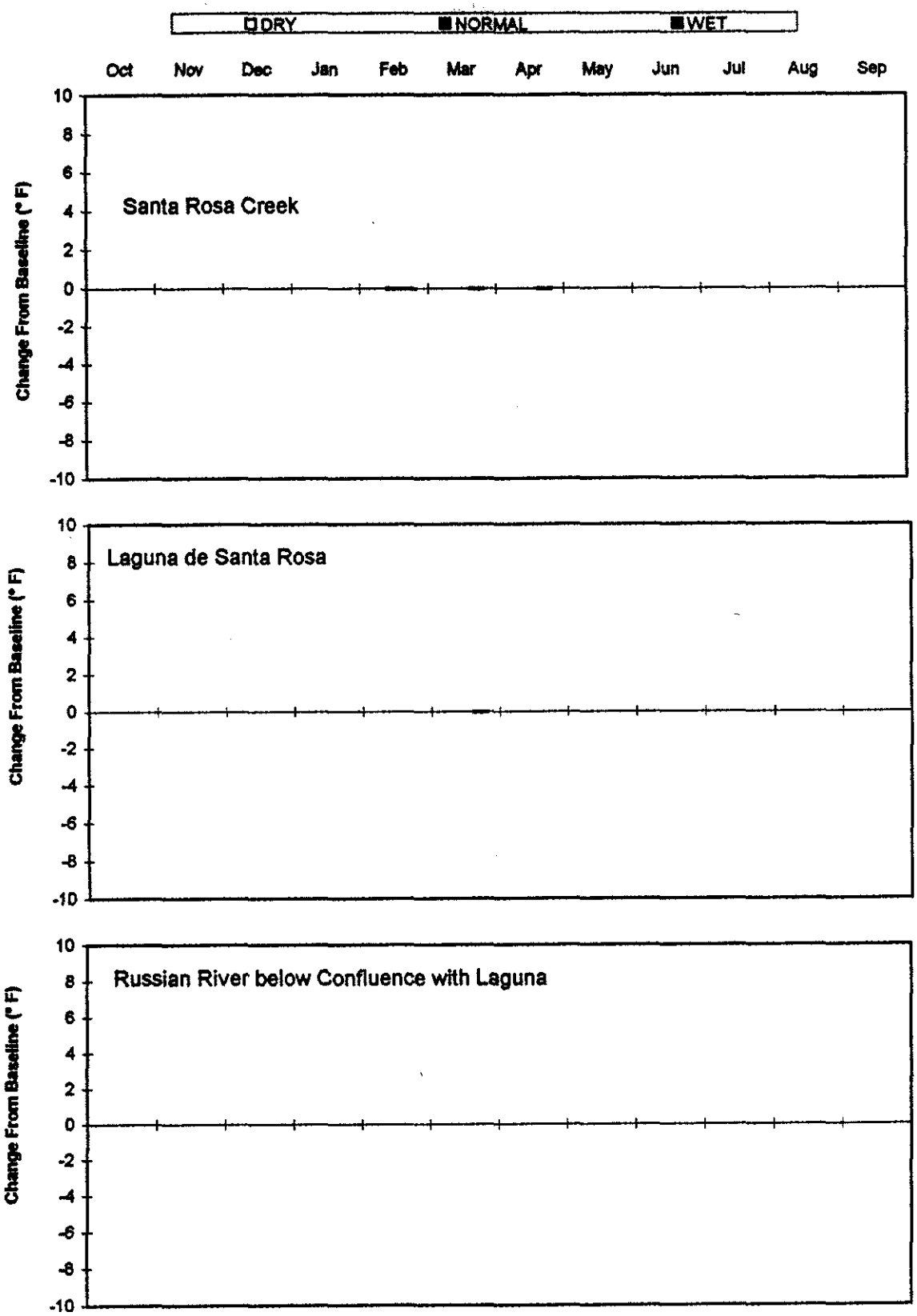


Figure 4-22. Discharge Impacts on Average Monthly Temperature - 5% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline -Project Operations

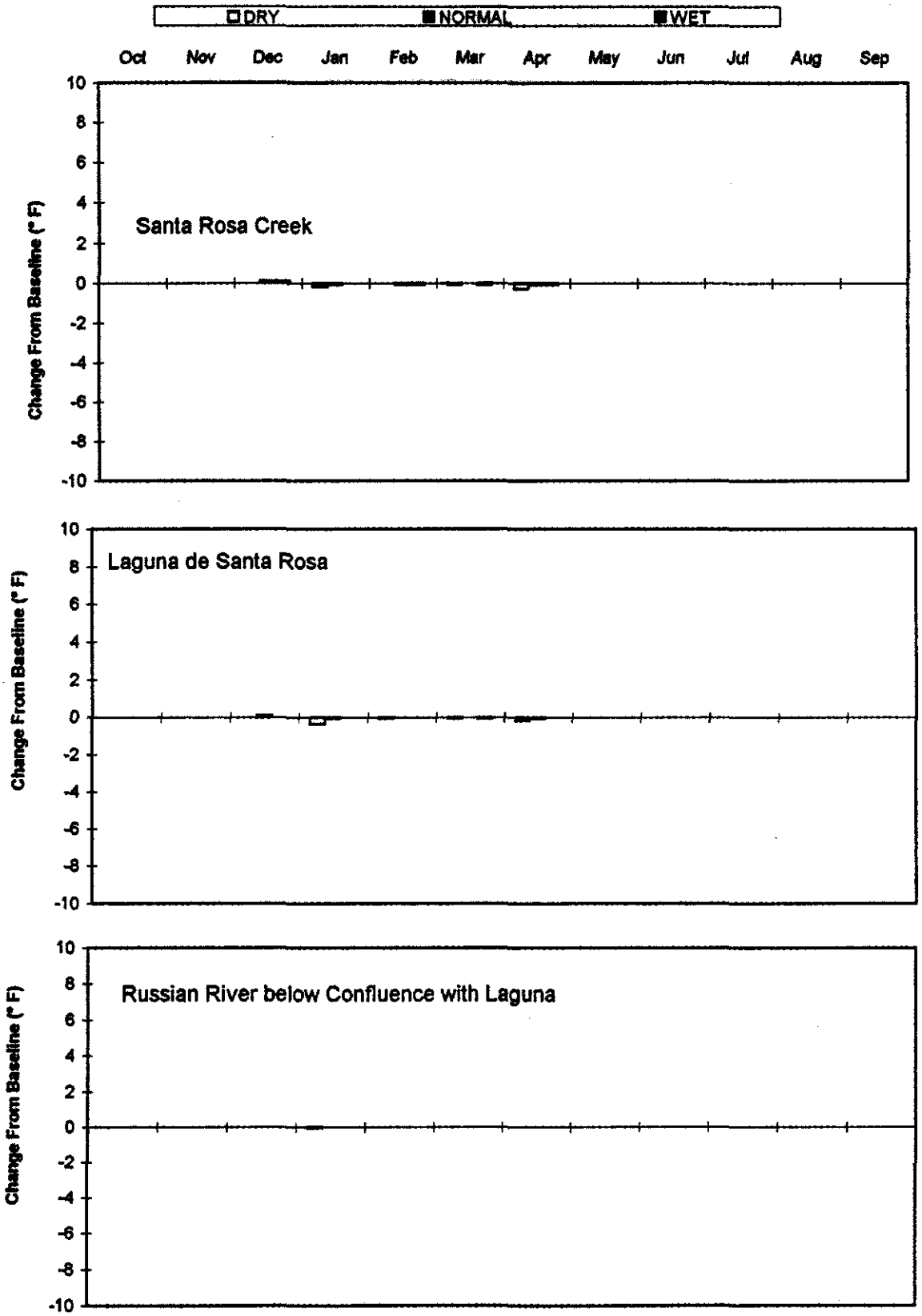
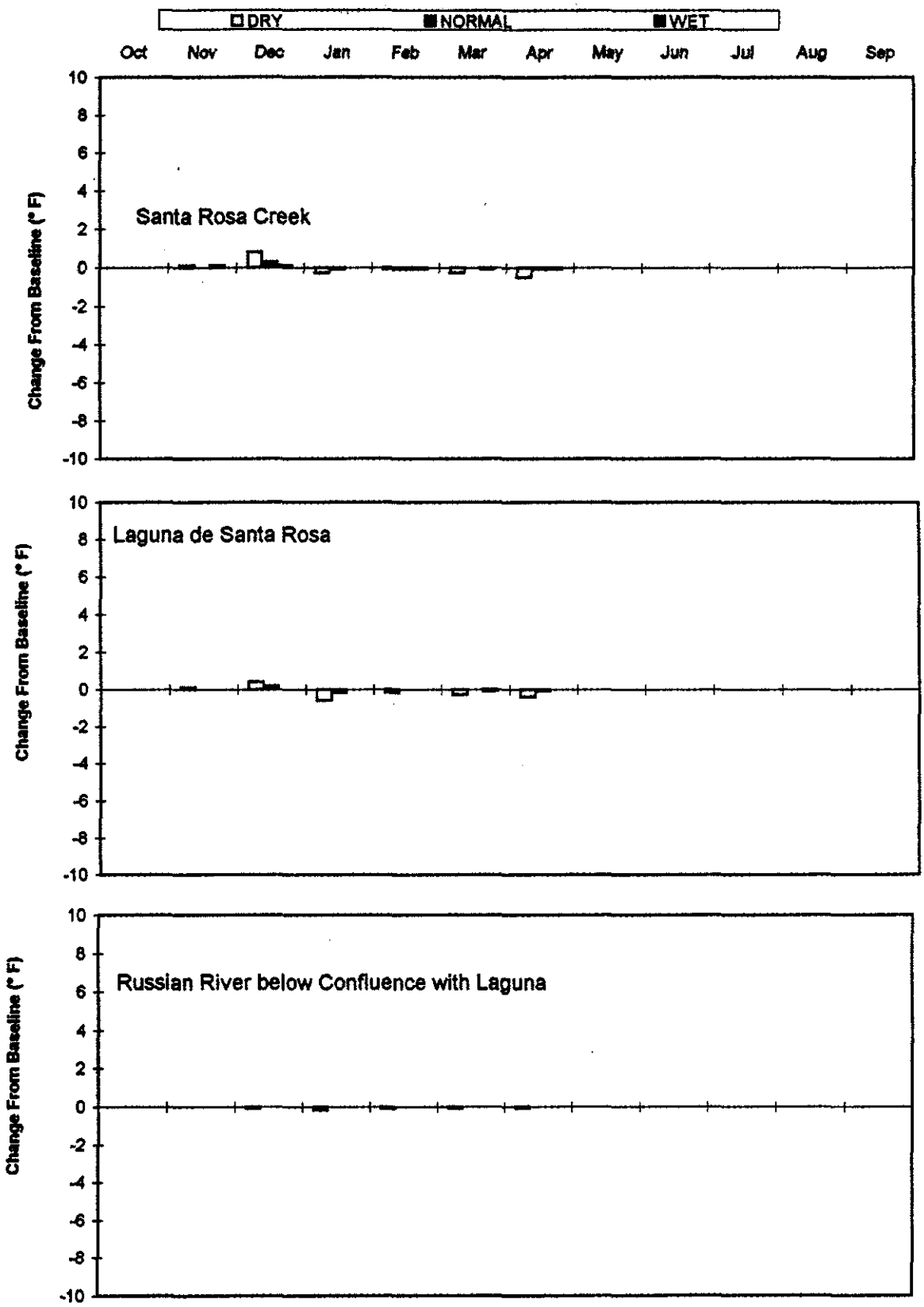


Figure 4-22. Discharge Impacts on Average Monthly Temperature - 10% Discharge to the Laguna de Santa Rosa
Zero Discharge Baseline - Project Operations



Figur 4-22. Discharge Impacts on Average Monthly Temperature - 20% Discharge to the Laguna de Santa Rosa

Zero Discharge Baseline - Project Operations

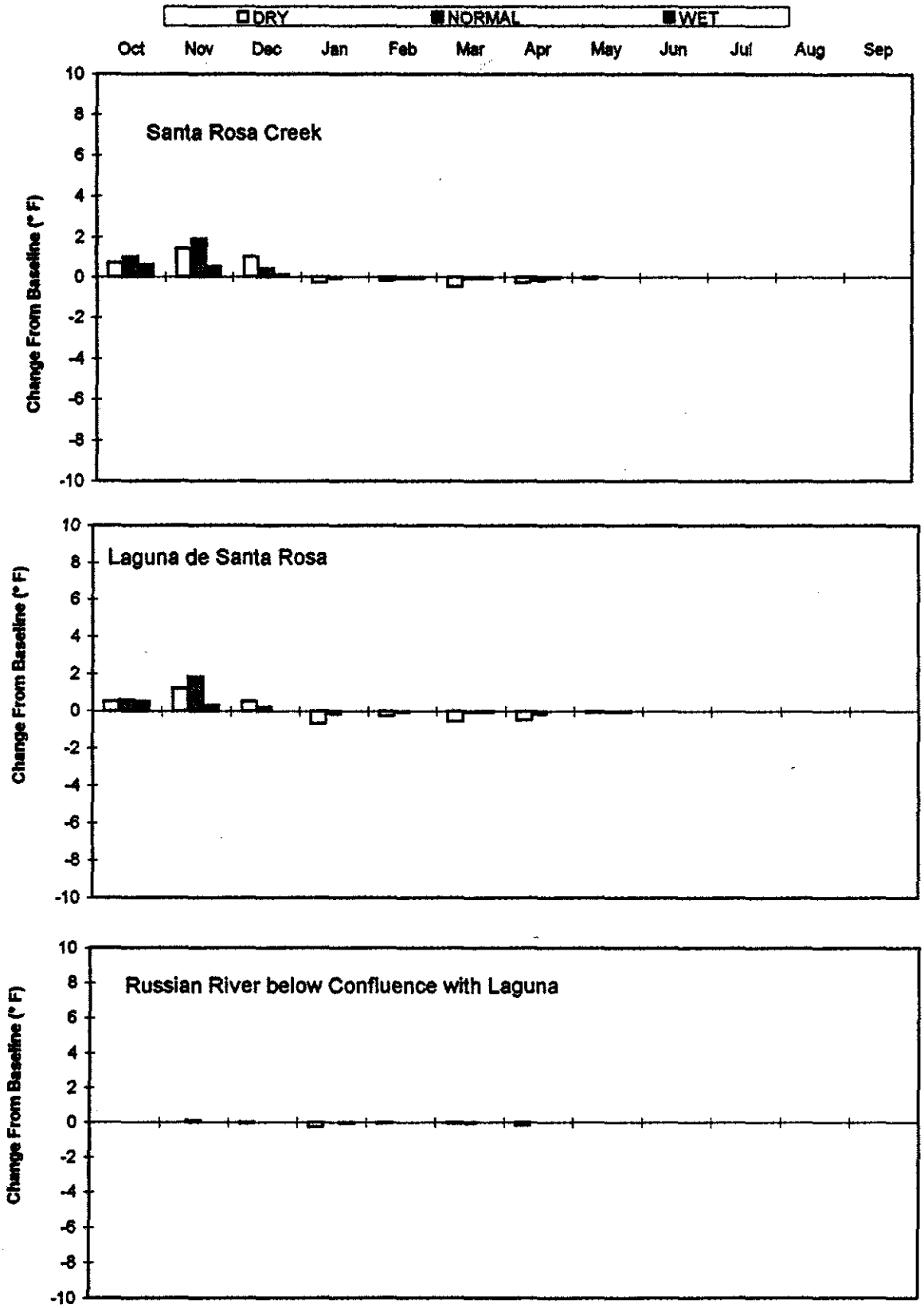


Figure 4-22. Discharge Impacts on Average Monthly Temperature - 20% Discharge to the Russian River

Zero Discharge Baseline - Project Operations

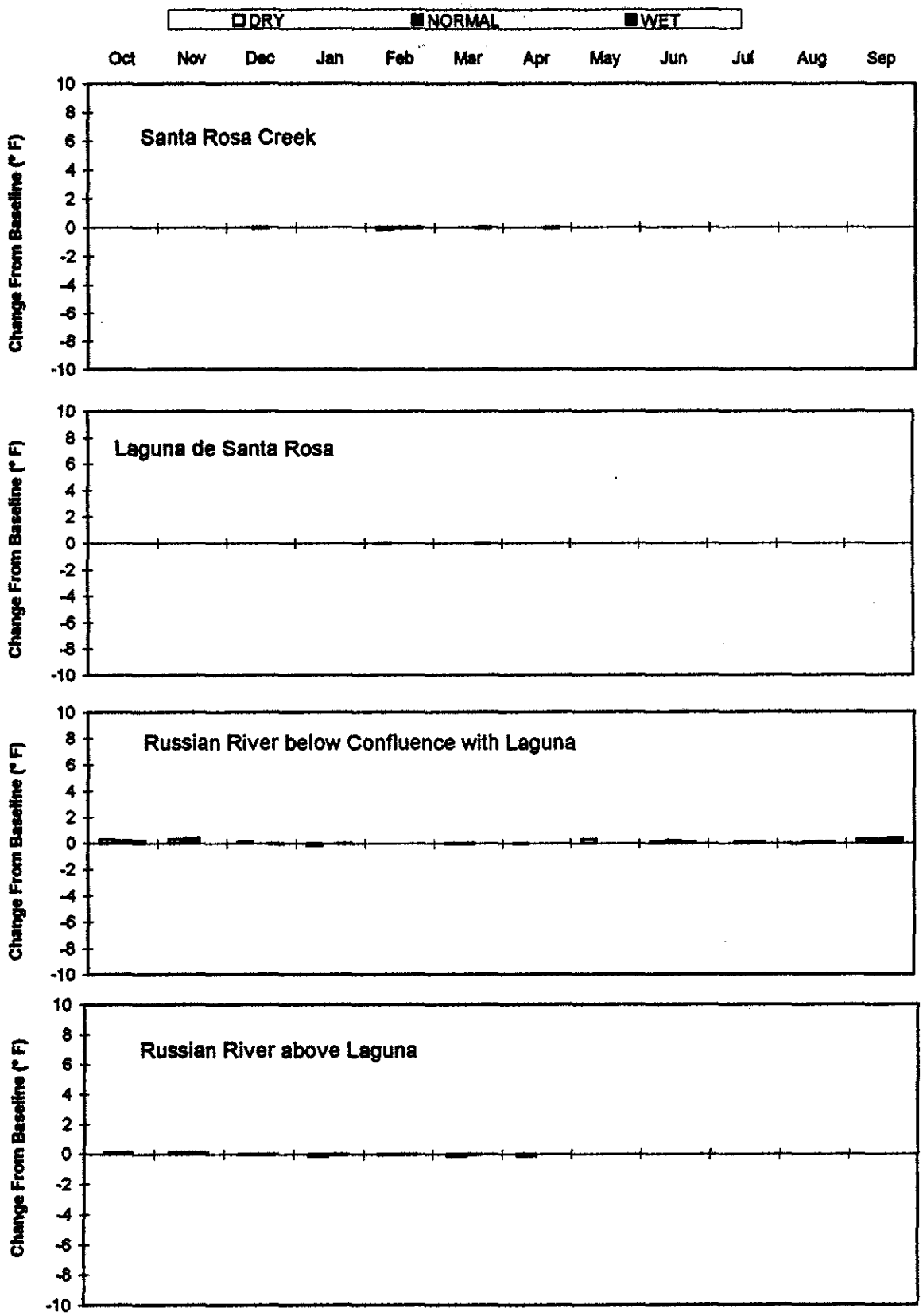


Figure 4-22. Discharge Impacts on Average Monthly Temperature - No Project Zero Discharge Baseline - Project Operations

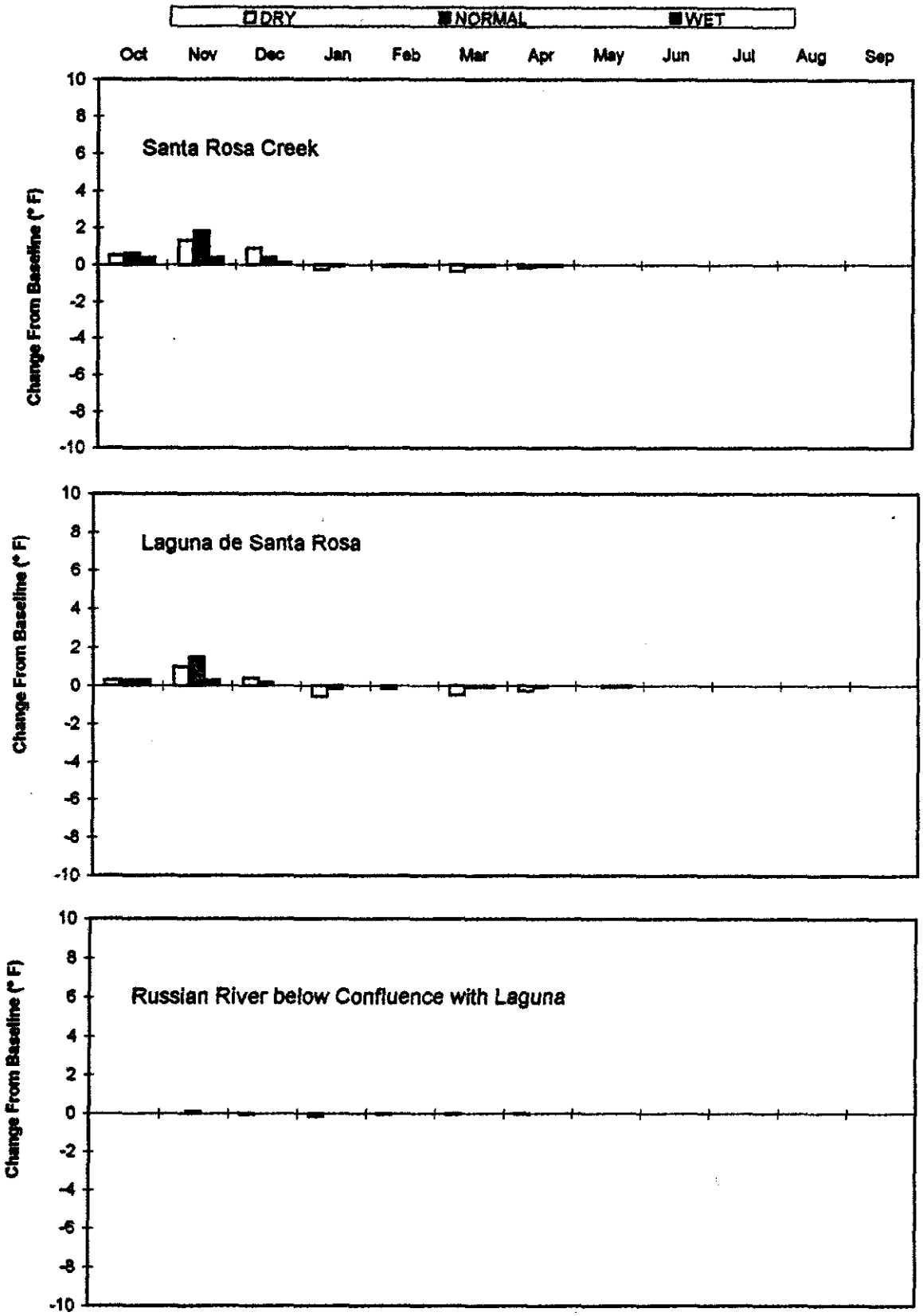


Figure 4-22. Dischare Impacts on Average Monthly Temperature - Geysers
Zero Discharge Baseline - Project Operations

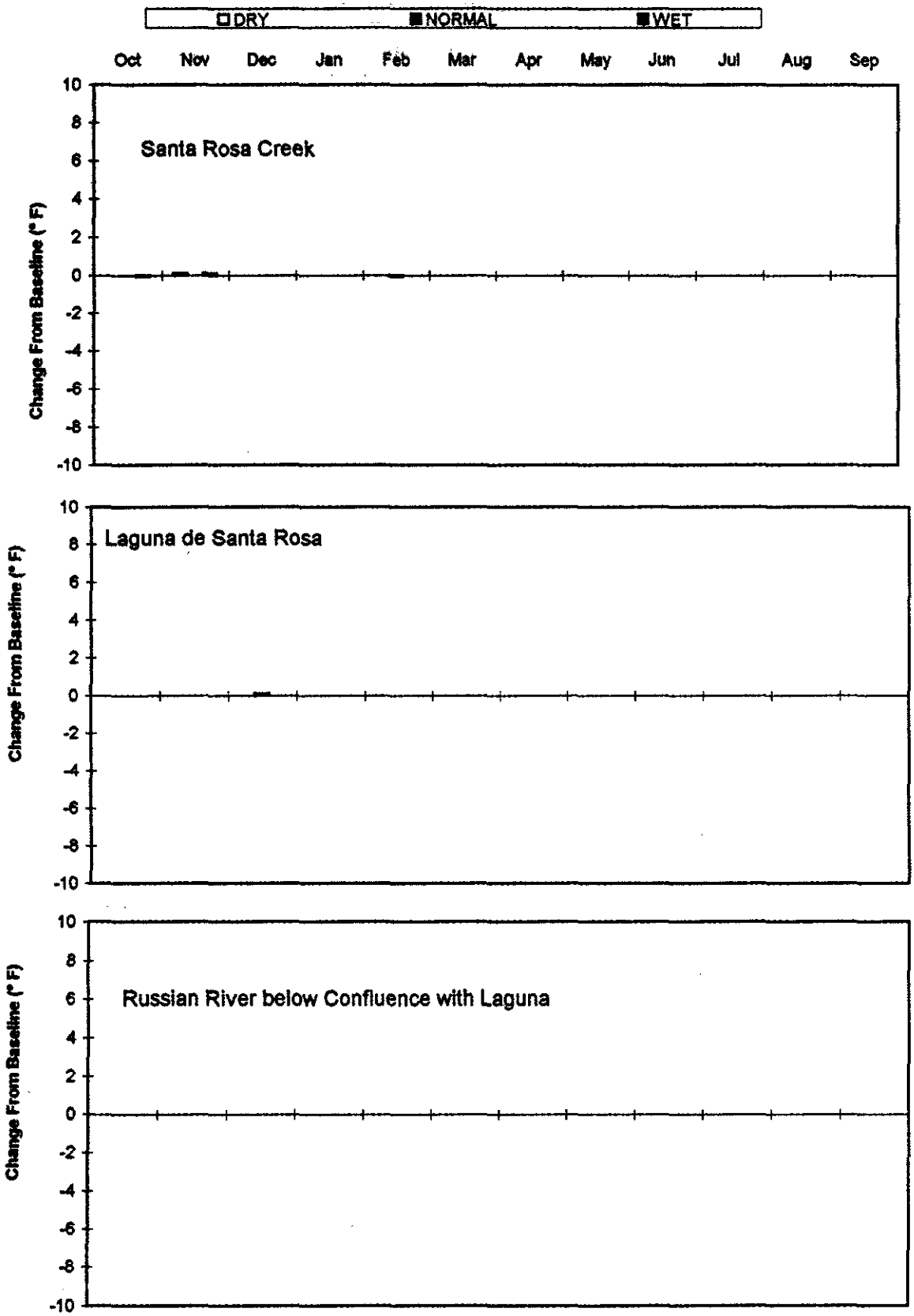


Figure 4-23. Project and Mitigation Storage Curves

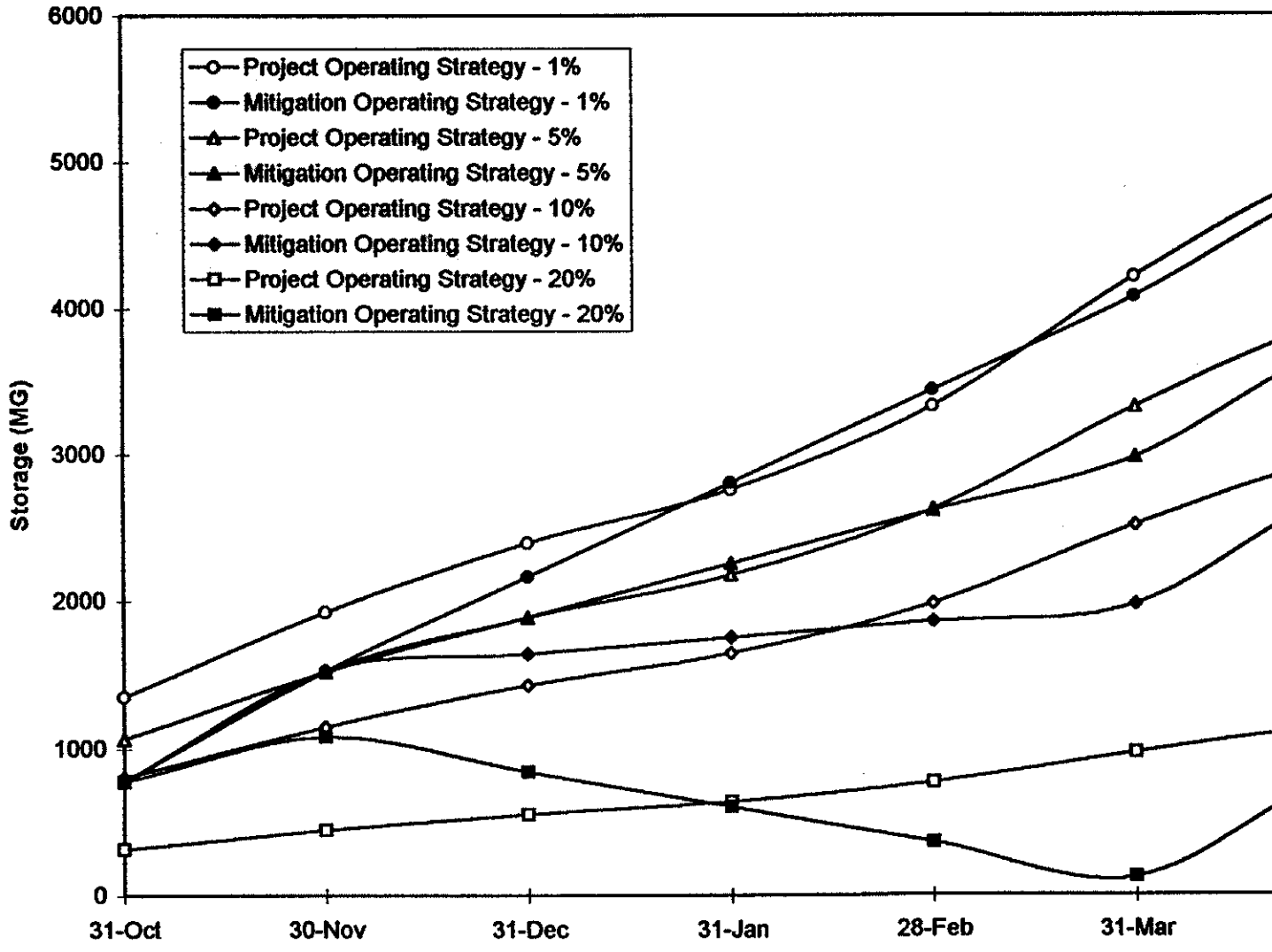
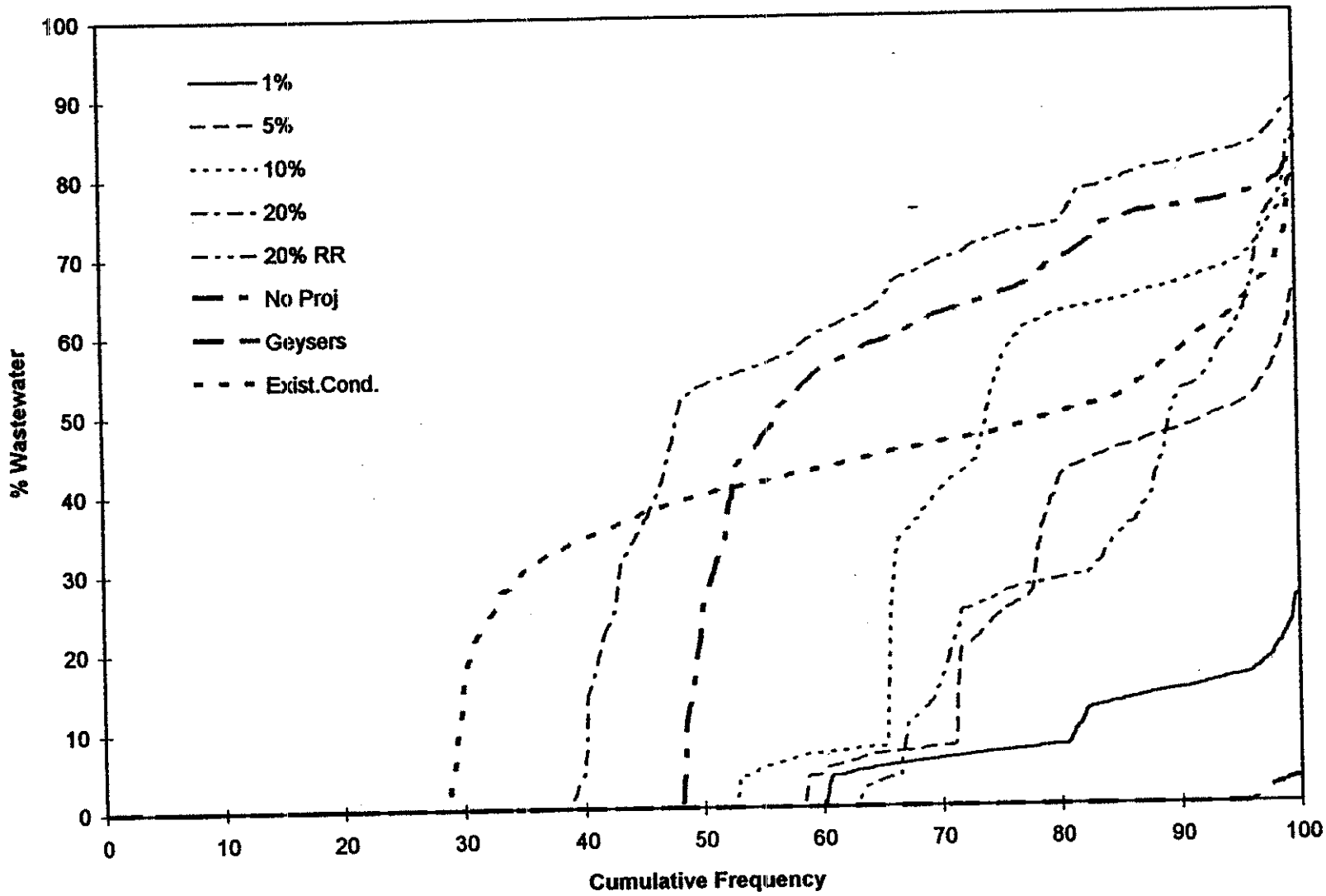
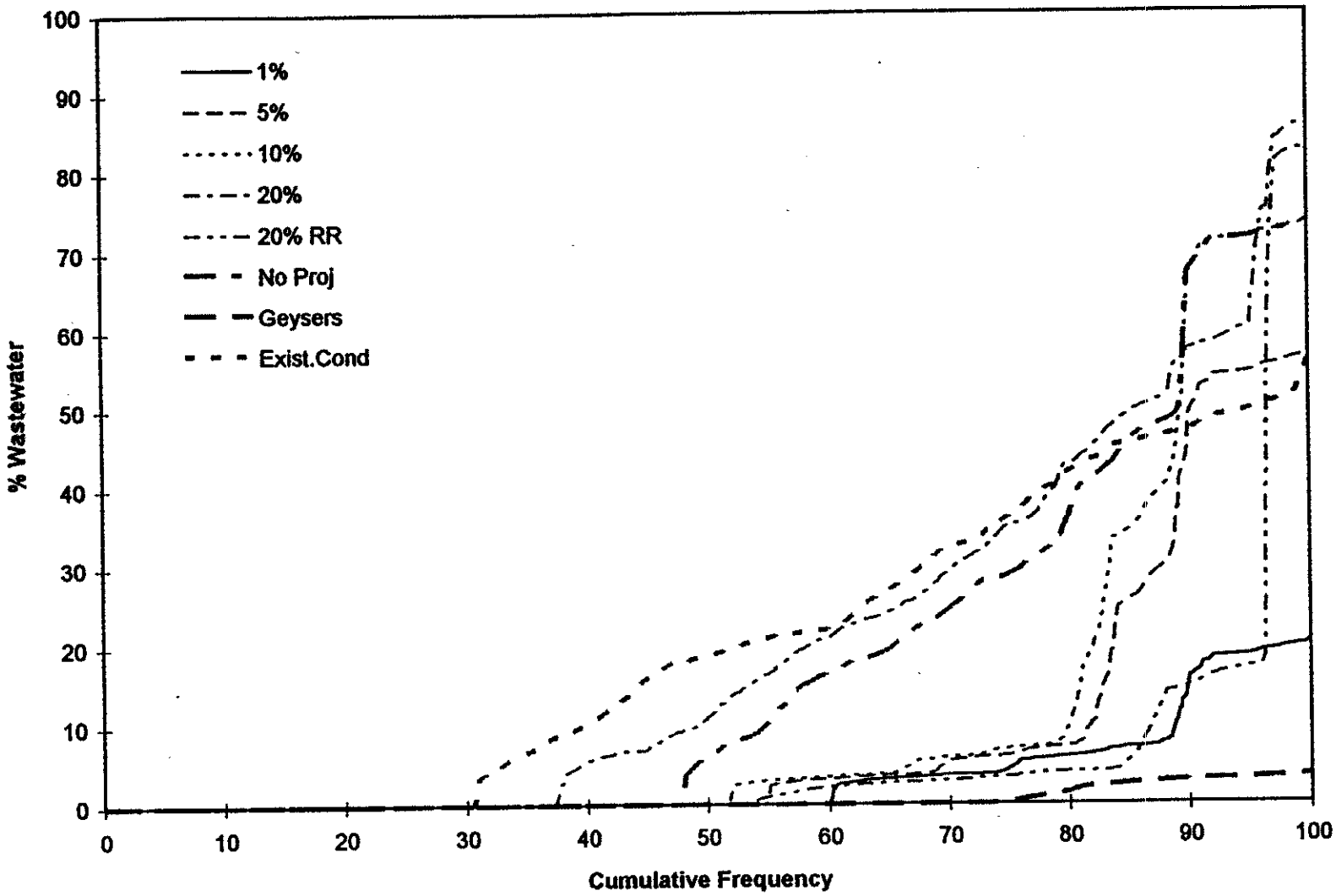


Figure 4-24. Distribution of Reclaimed Water Concentrations During the Discharge Season in a dry year (1976)
Santa Rosa Creek - Mitigation Operation



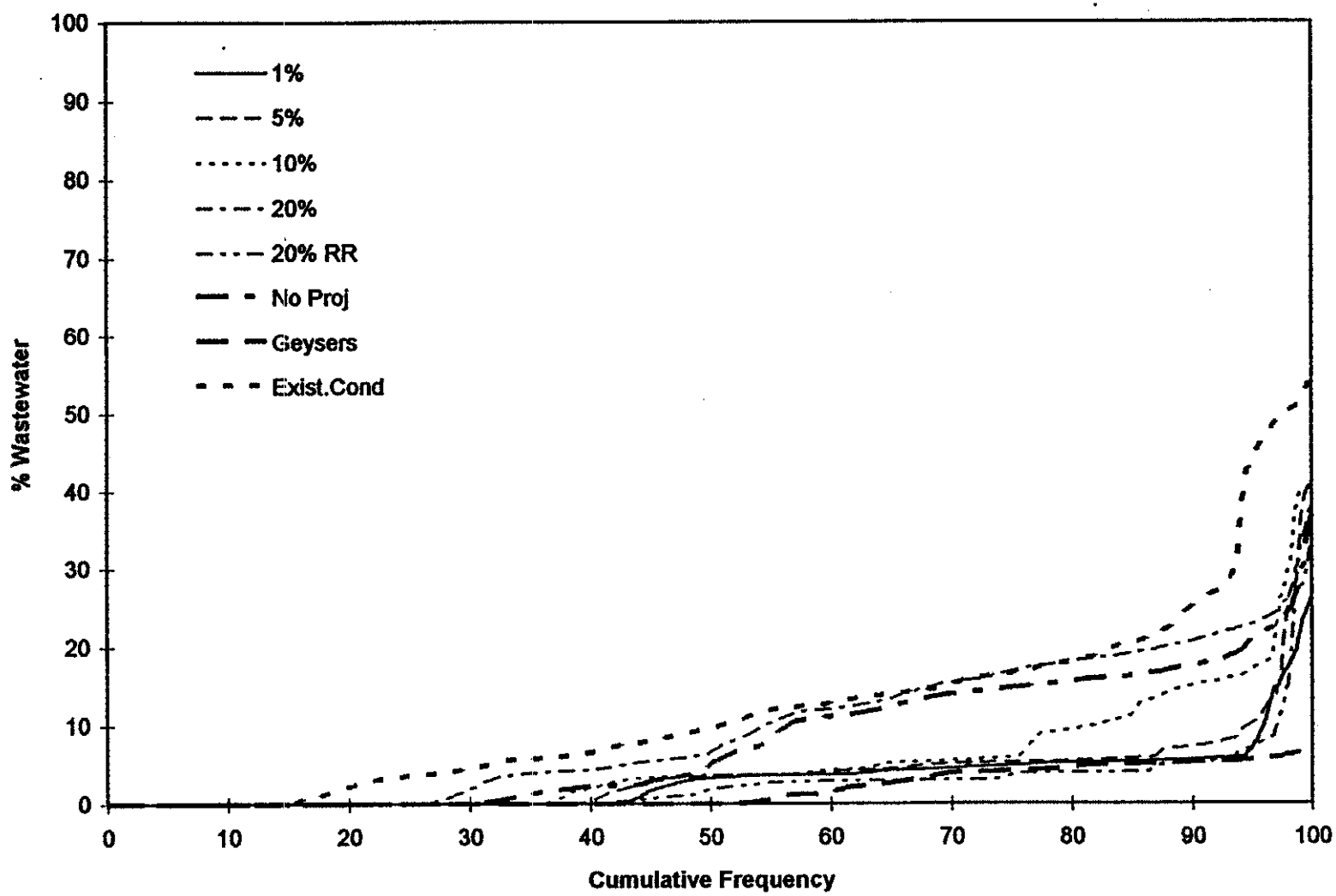
SRC76A.XLS

Figure 4-25. Distribution of Reclaimed Water Concentrations During the Discharge Season in a normal year (1961)
Santa Rosa Creek - Mitigation Operation



SRC61A.XLS

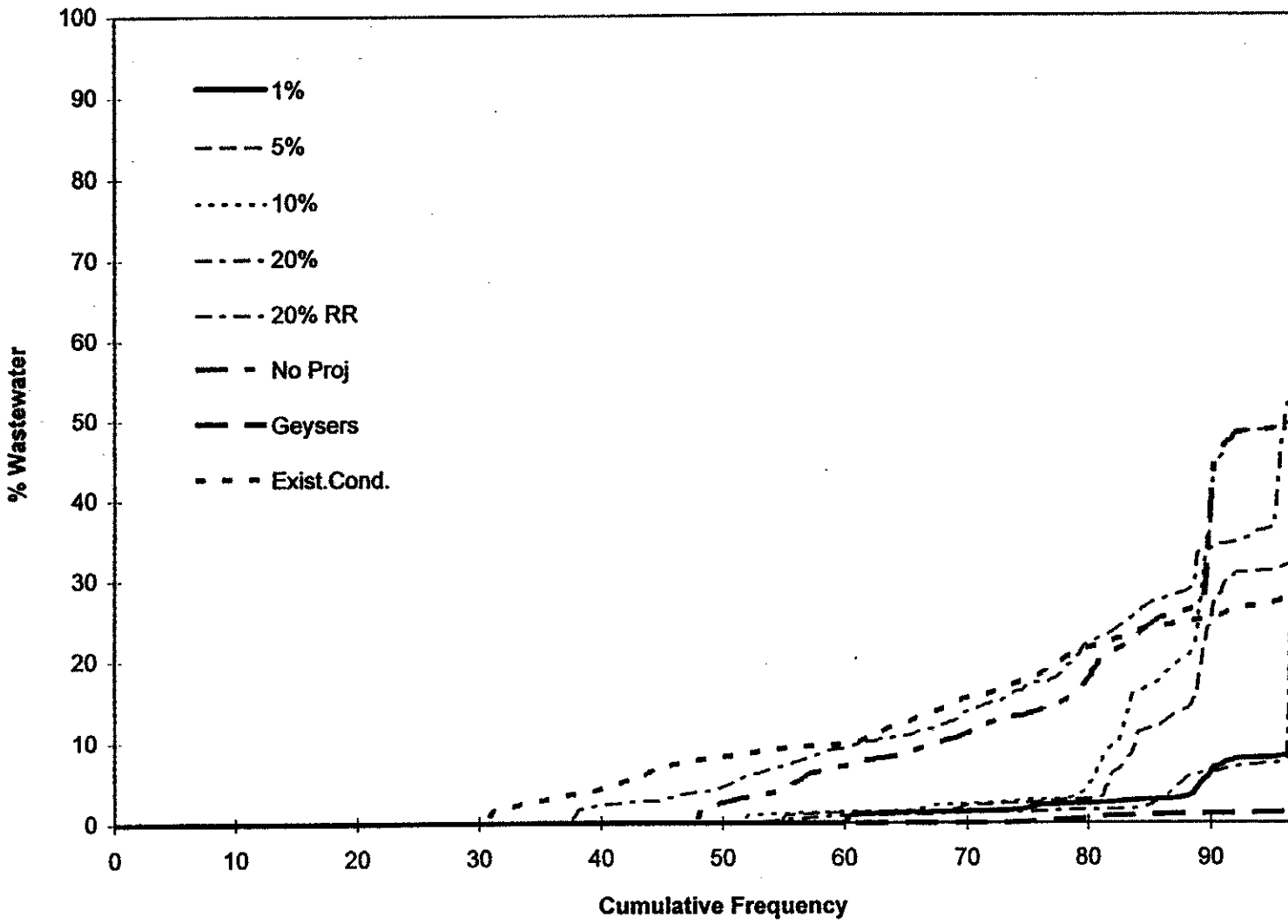
Figure 4-26. Distribution of Reclaimed Water Concentrations During the Discharge Season in a wet year (1982)
Santa Rosa Creek - Mitigation Operation



SRC82A.XLS

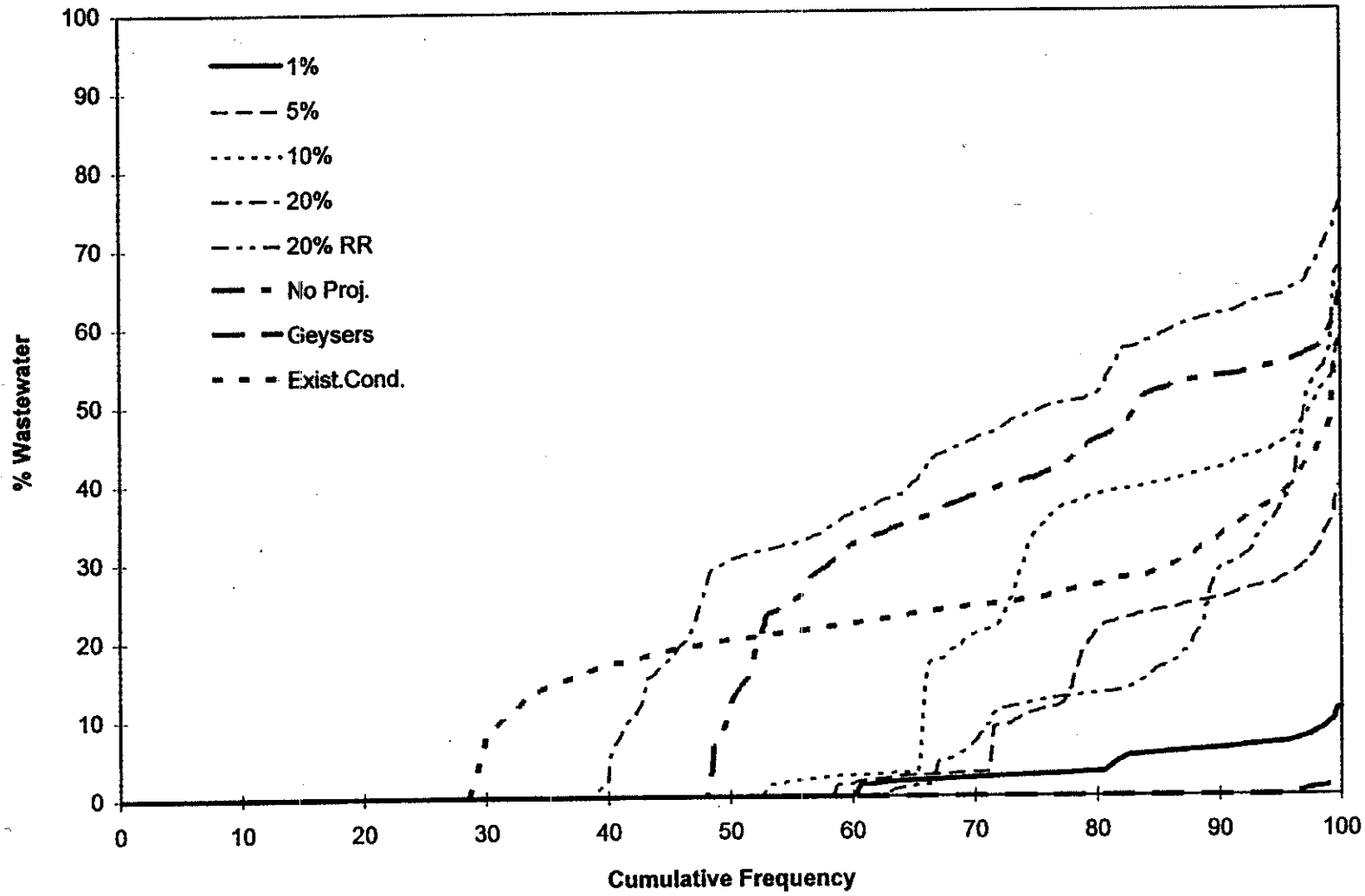
Figure 4-28. Distribution of Reclaimed Water Concentrations During the Discharge Season (1961)

Laguna de Santa Rosa - Mitigation Operation



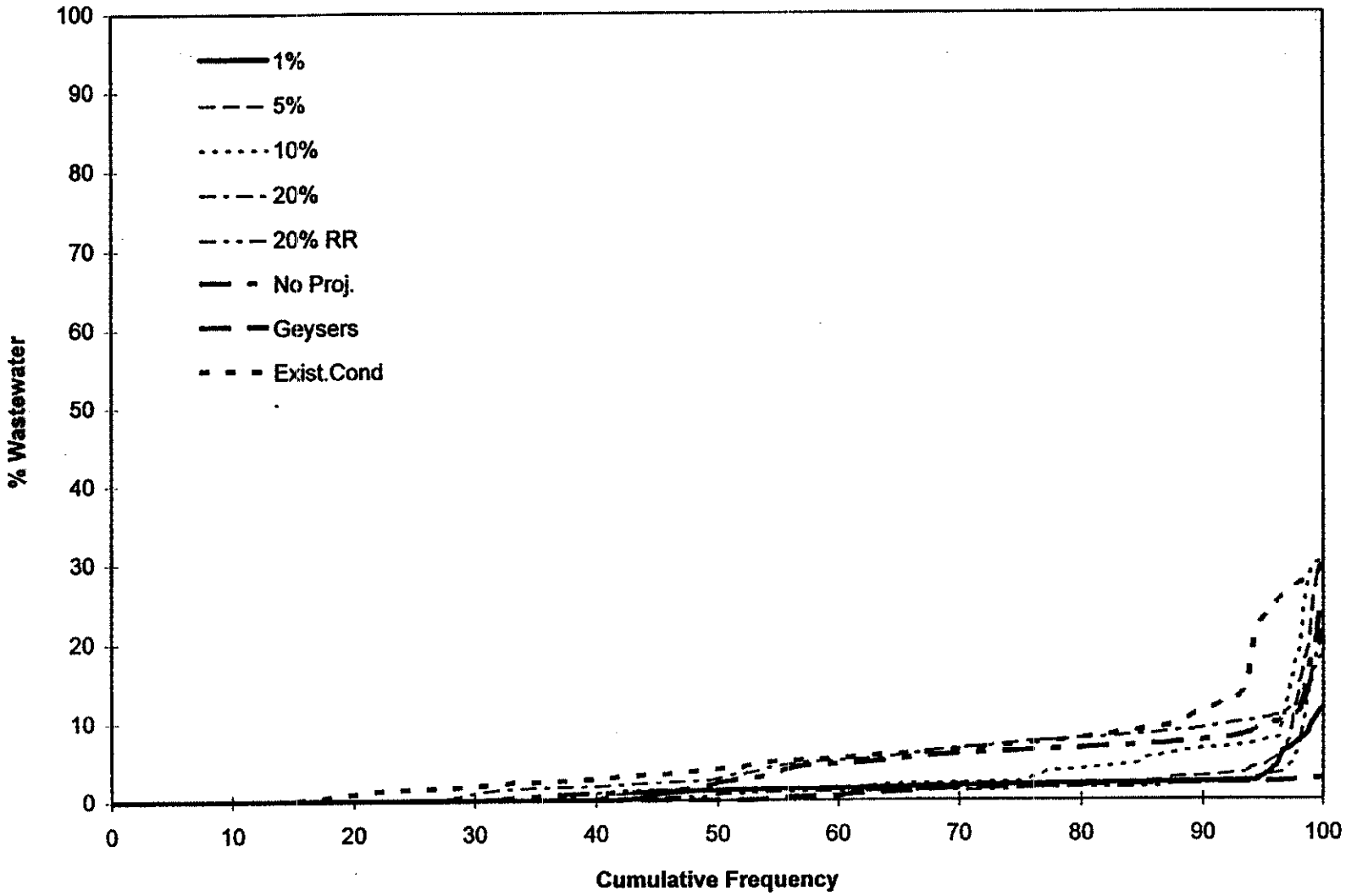
LRR61A.XLS

Figure 4-27. Distribution of Reclaimed Water Concentrations During the Discharge Season in a dry year (1976)
Laguna de Santa Rosa - Mitigation Operation



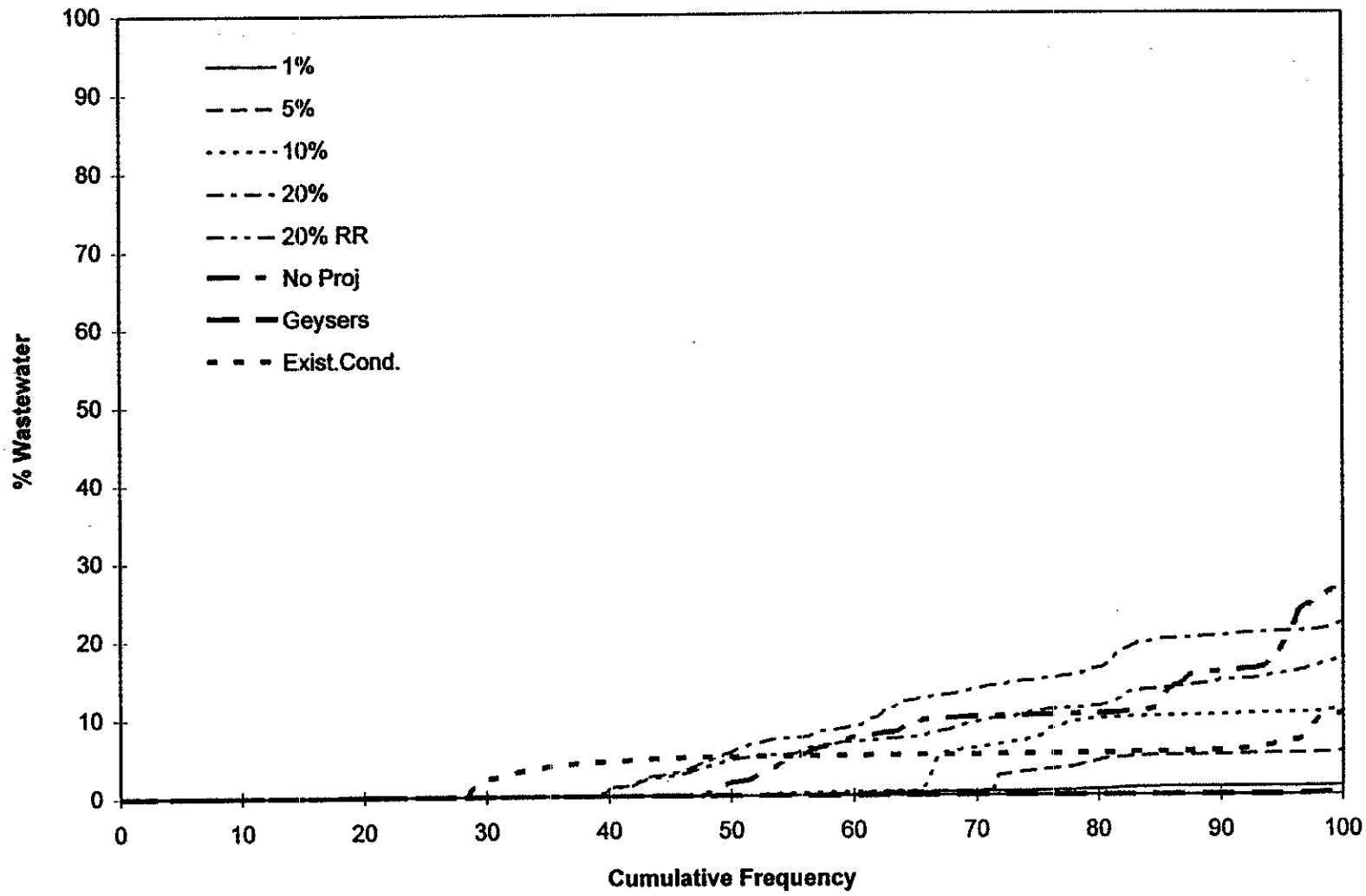
LRR76A.XLS

Figure 4-29. Distribution of Reclaimed Water Concentrations During the Discharge Season in a wet year (1982)
Laguna de Santa Rosa - Mitigation Operation



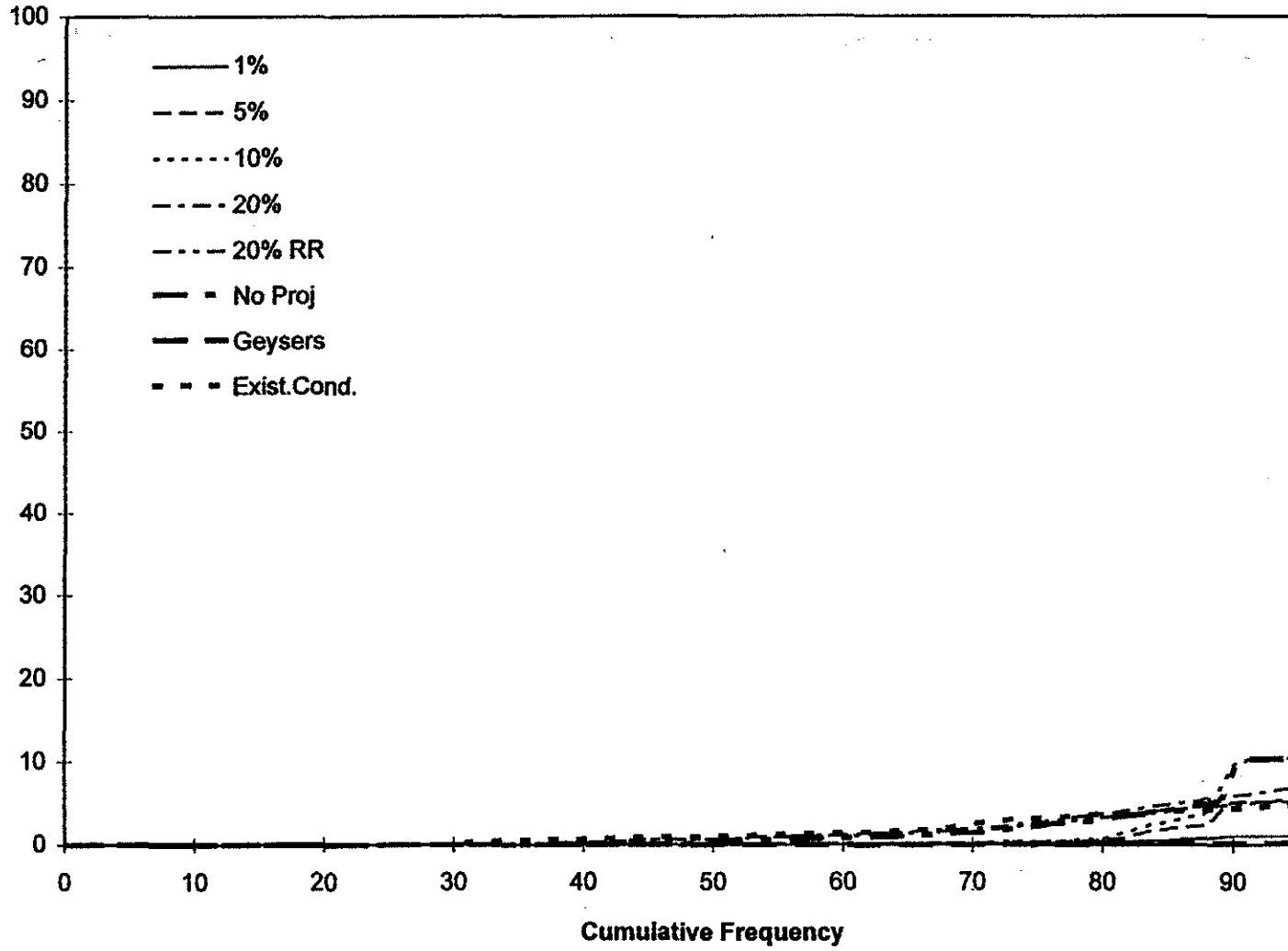
LRR82A.XLS

Figure 4-30. Distribution of Reclaimed Water Concentrations During the Discharge Season in a dry year (1976)
Russian River Below Laguna - Mitigation Operation



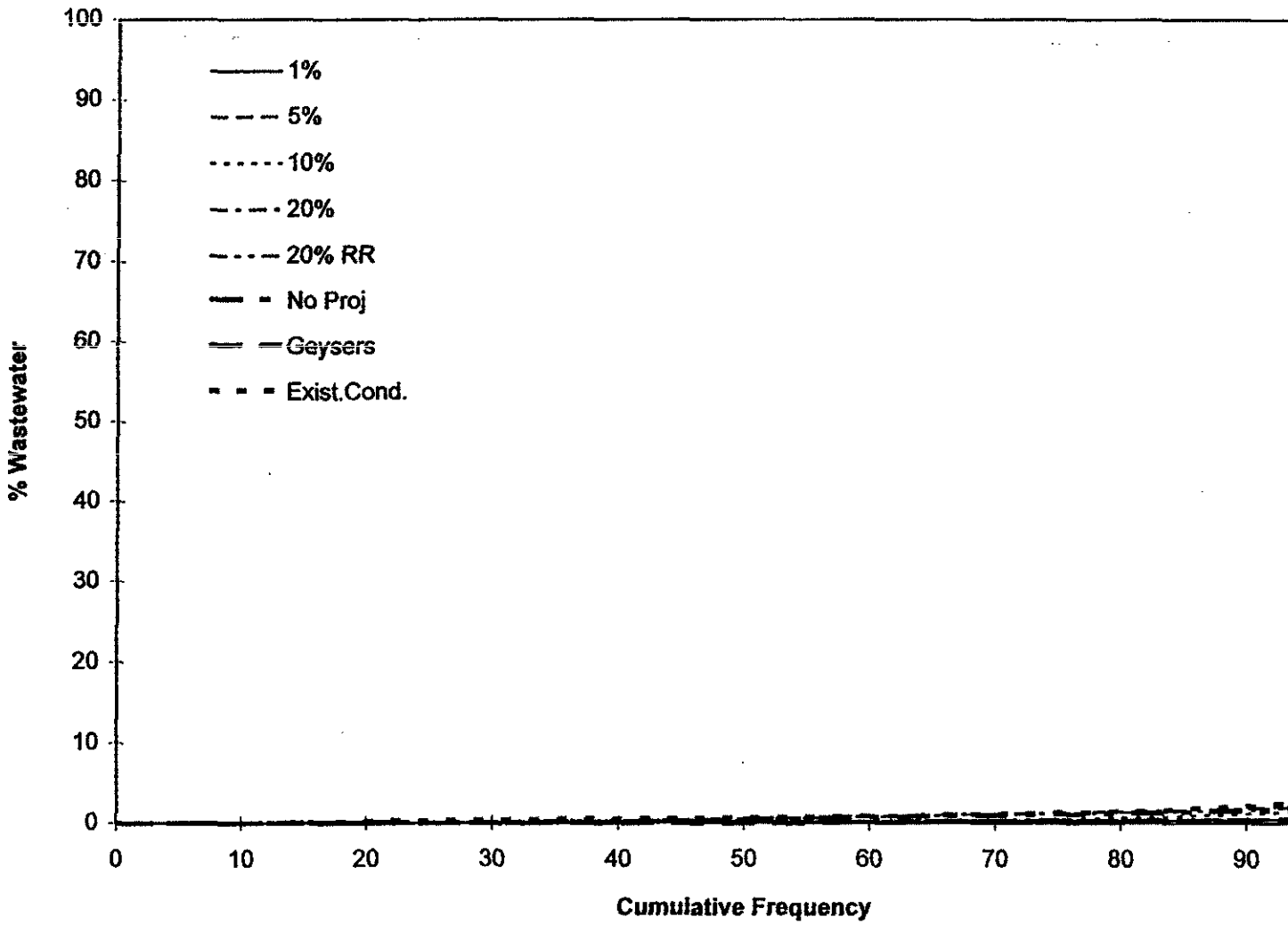
RRO76A.XLS

Figure 4-31. Distribution of Reclaimed Water Concentrations During the Dischar
in a normal year (1961)
Russian River Below Laguna - Mitigation Operation



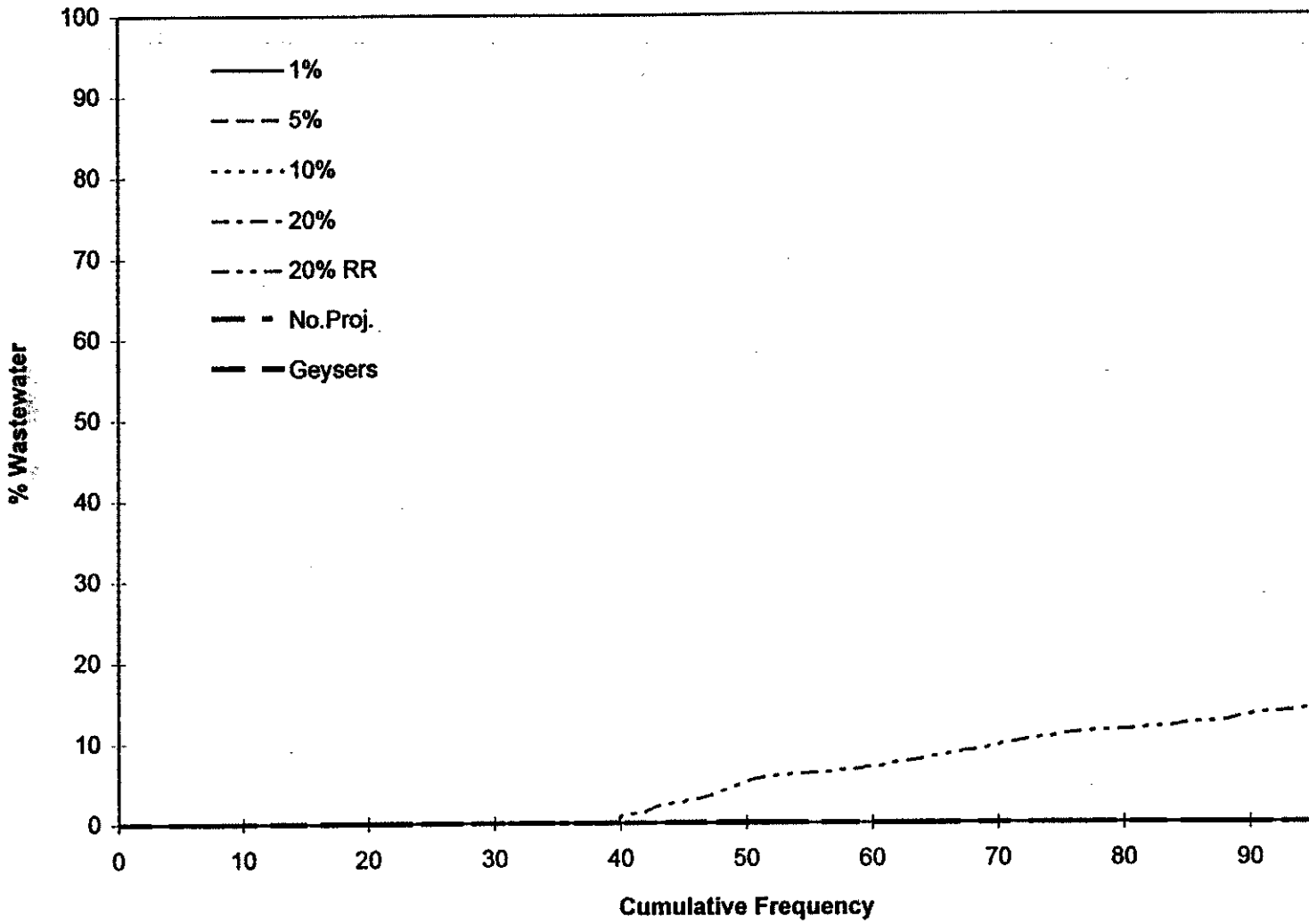
RRO61A.XLS

Figure 4-32. Distribution of Reclaimed Water Concentations During the Discharge Season
Russian River Below Laguna - Mitigation Operations



RRO82A.XLS

Figure 4-33. Distribution of Reclaimed Water Concentrations During the Discharge Season in Russian River Above Laguna - Mitigation Operation



RRL76A.XLS

Figure 4-34. Distribution of Reclaimed Water Concentrations During the Discha
in a normal year (1961)
Russian River Above Laguna - Mitigation Operation

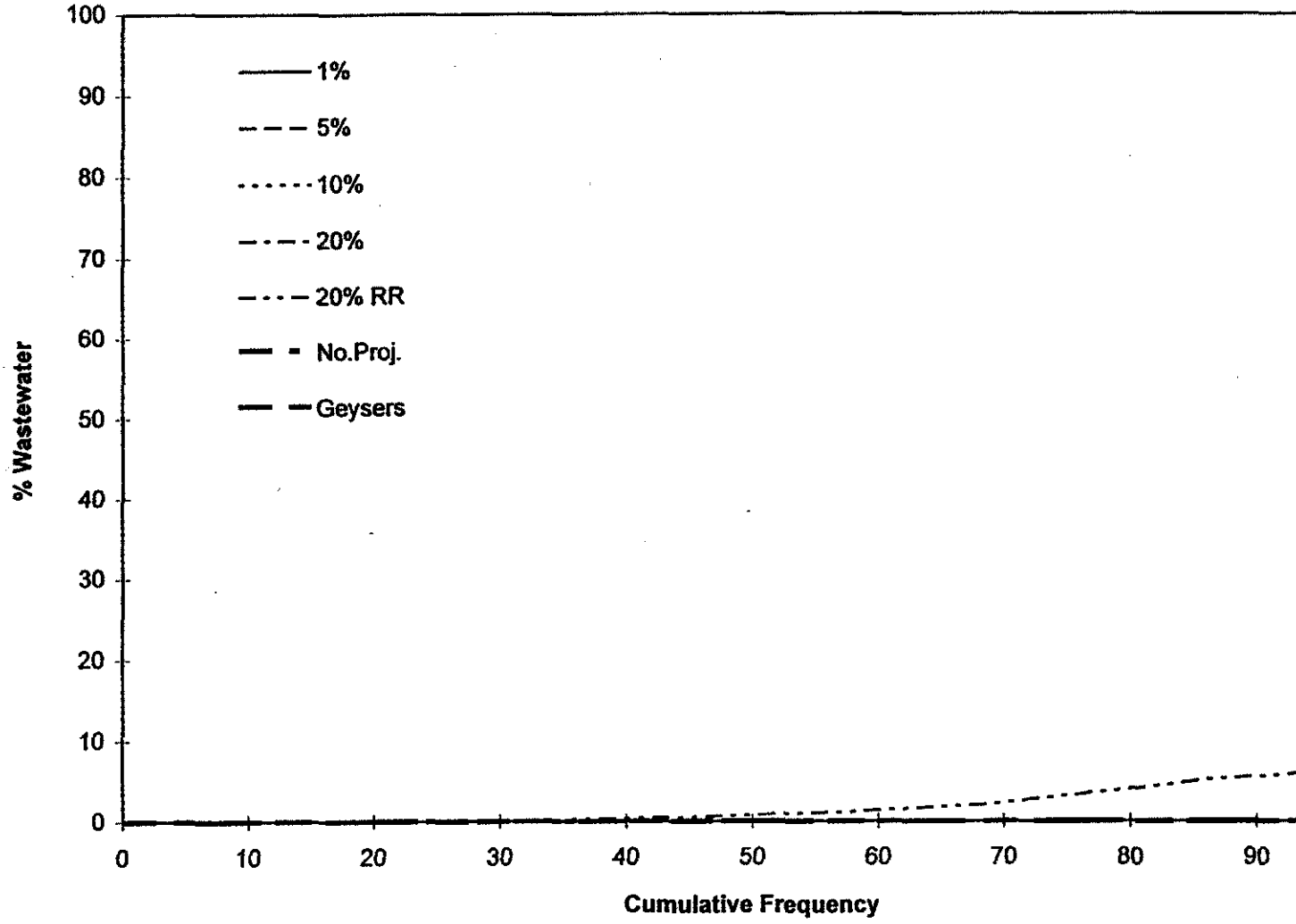


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Figure 4-35. Distribution of Reclaimed Water Concentrations During the Discharge Season in a wet year (1982)
Russian River Above Laguna - Mitigation Operation

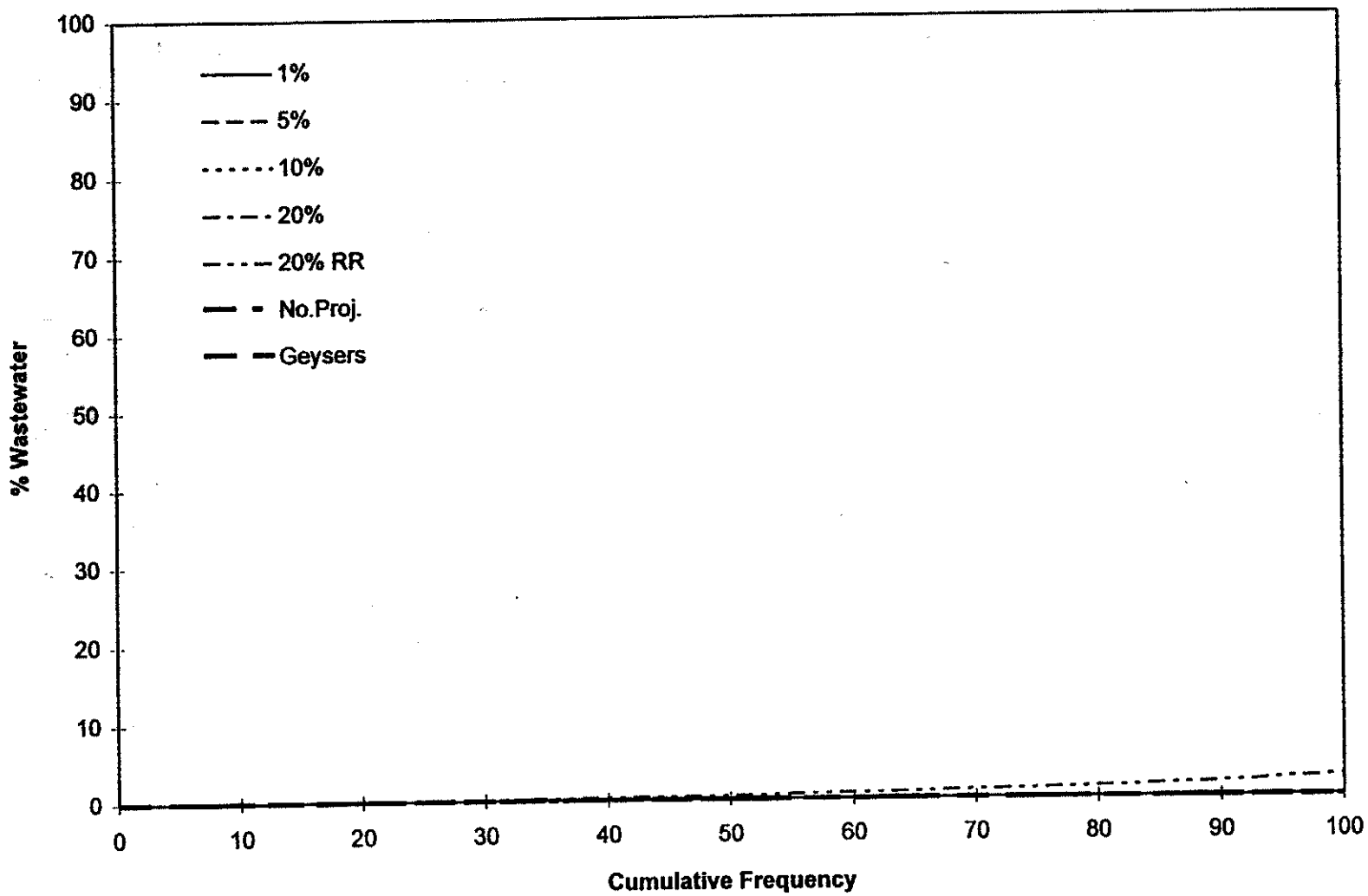

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Figure 4-36. Discharge Impacts on Benthic Algae - 1% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

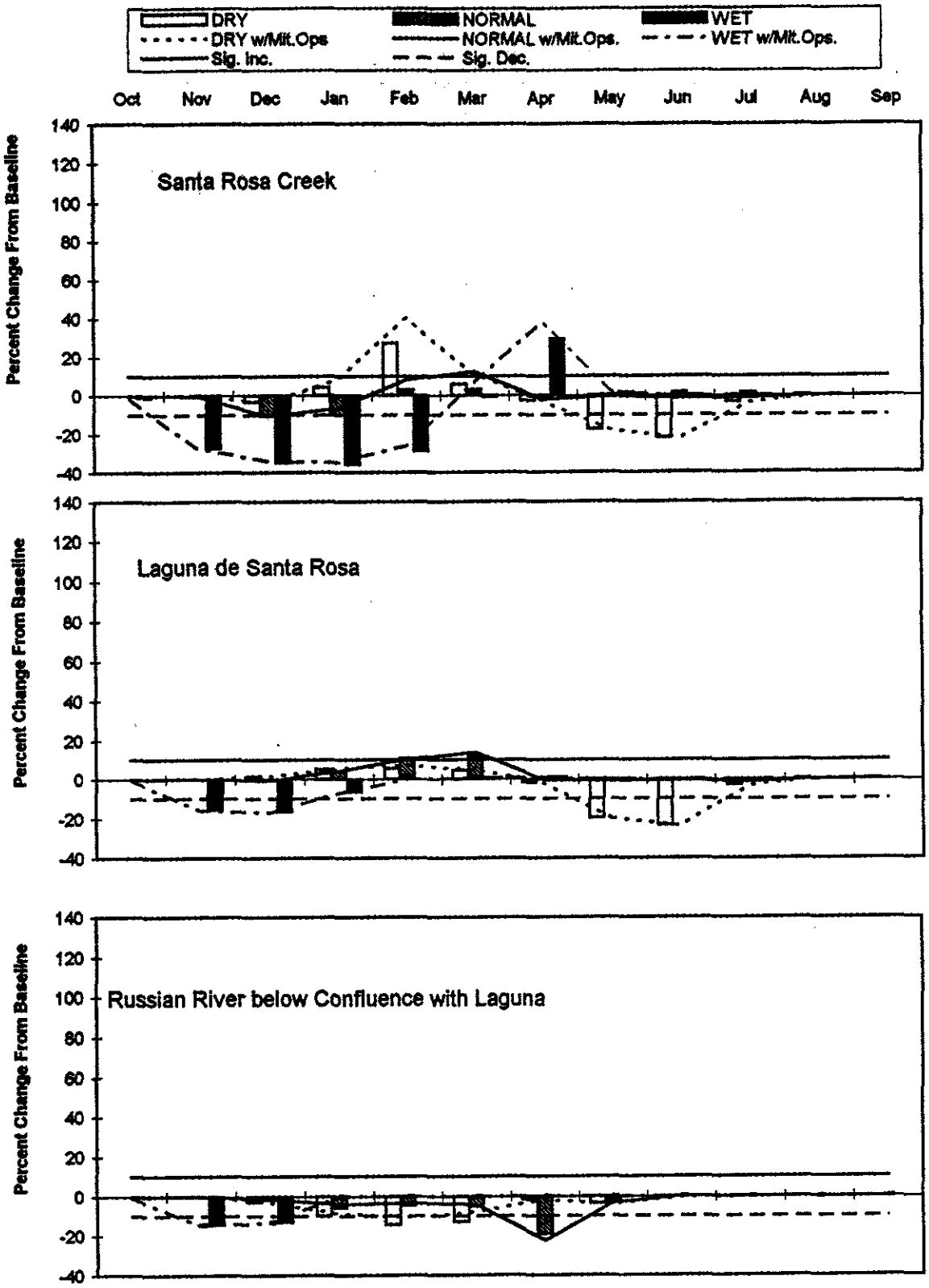

Figure 4-36. Discharge Impacts on Benthic Algae - 1% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

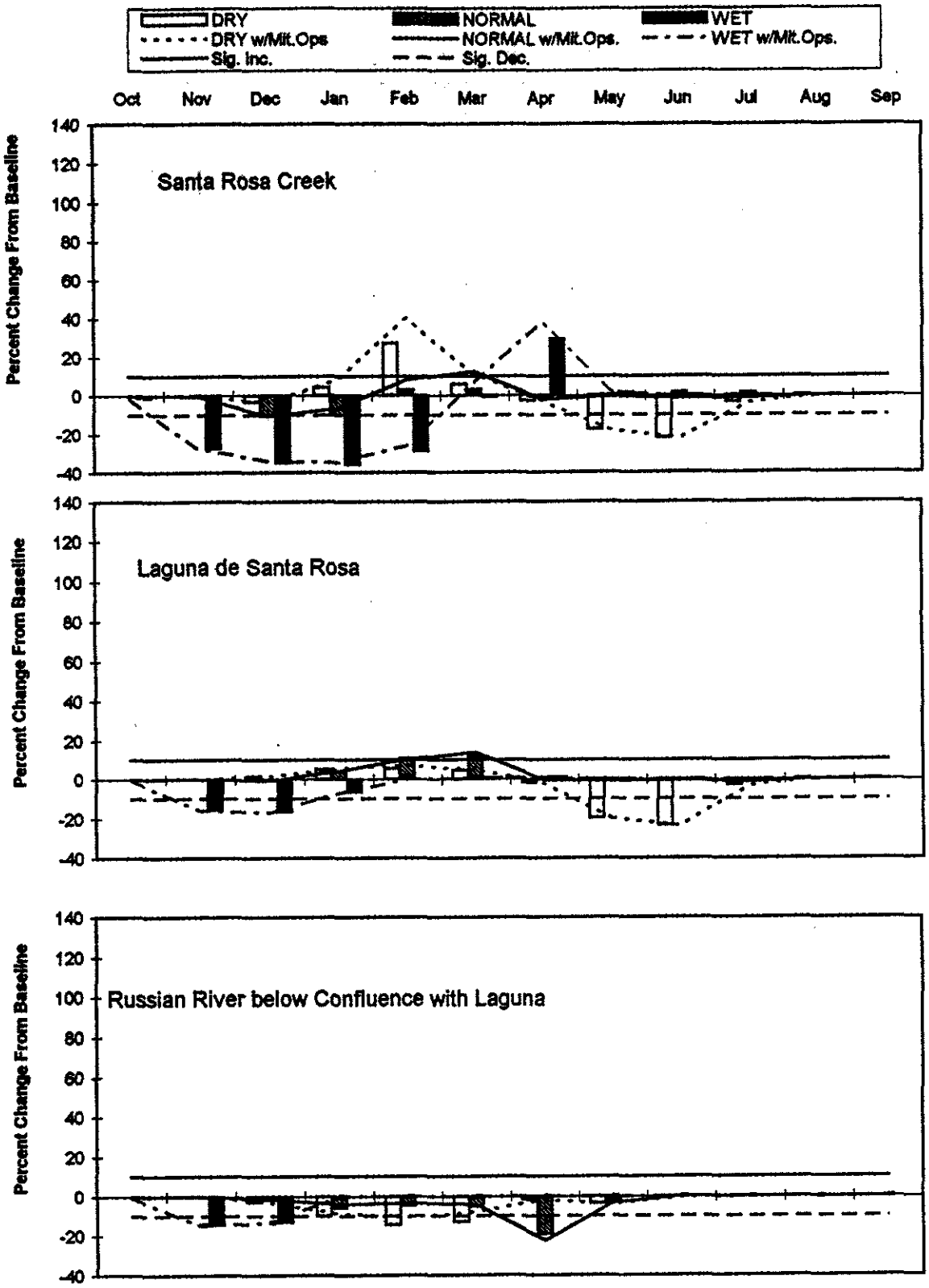

Figure 4-36. Discharge Impacts on Benthic Algae - 5% Discharge to Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

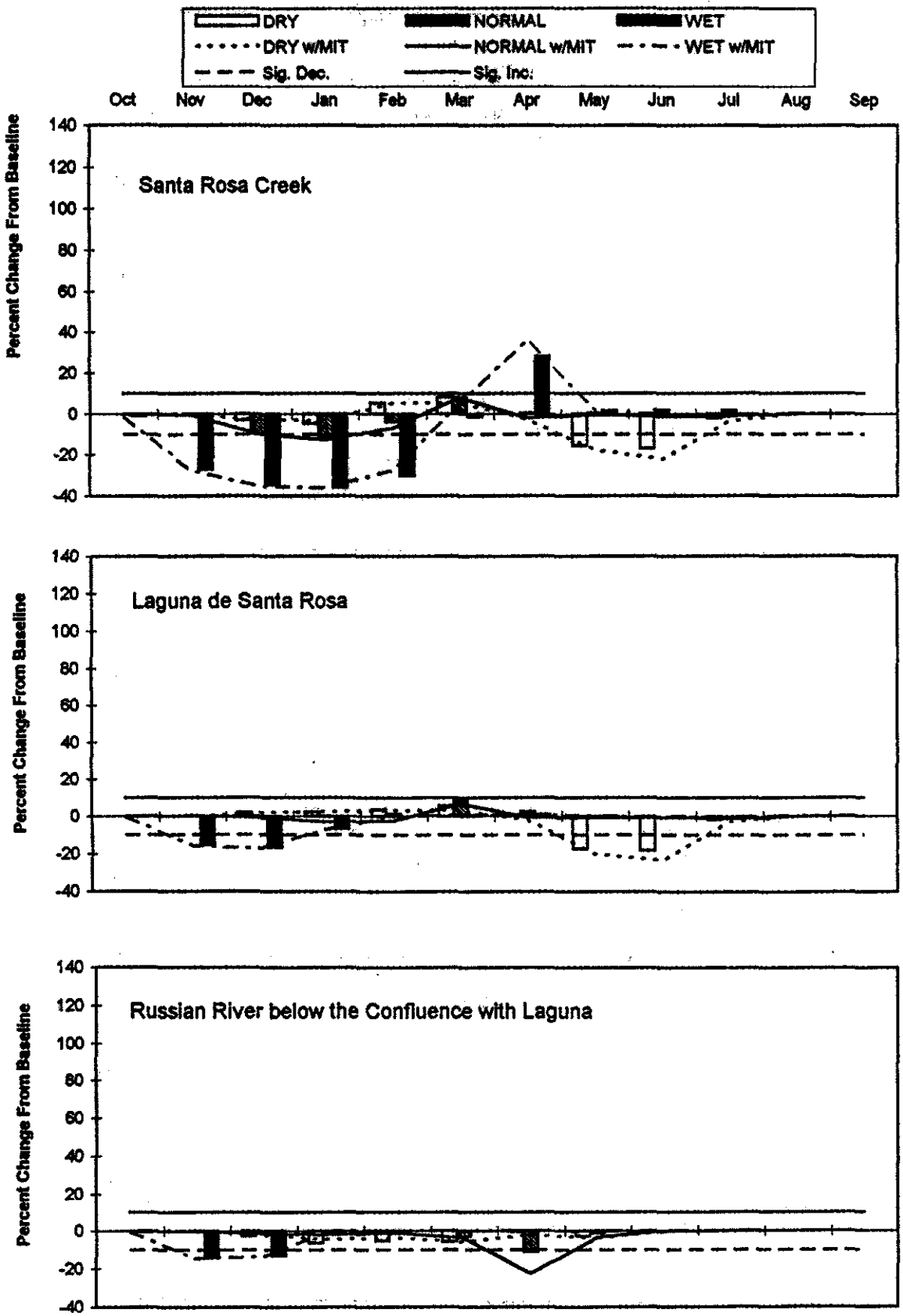

Figure 4-36. Discharge Impacts on Benthic Algae - 10% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

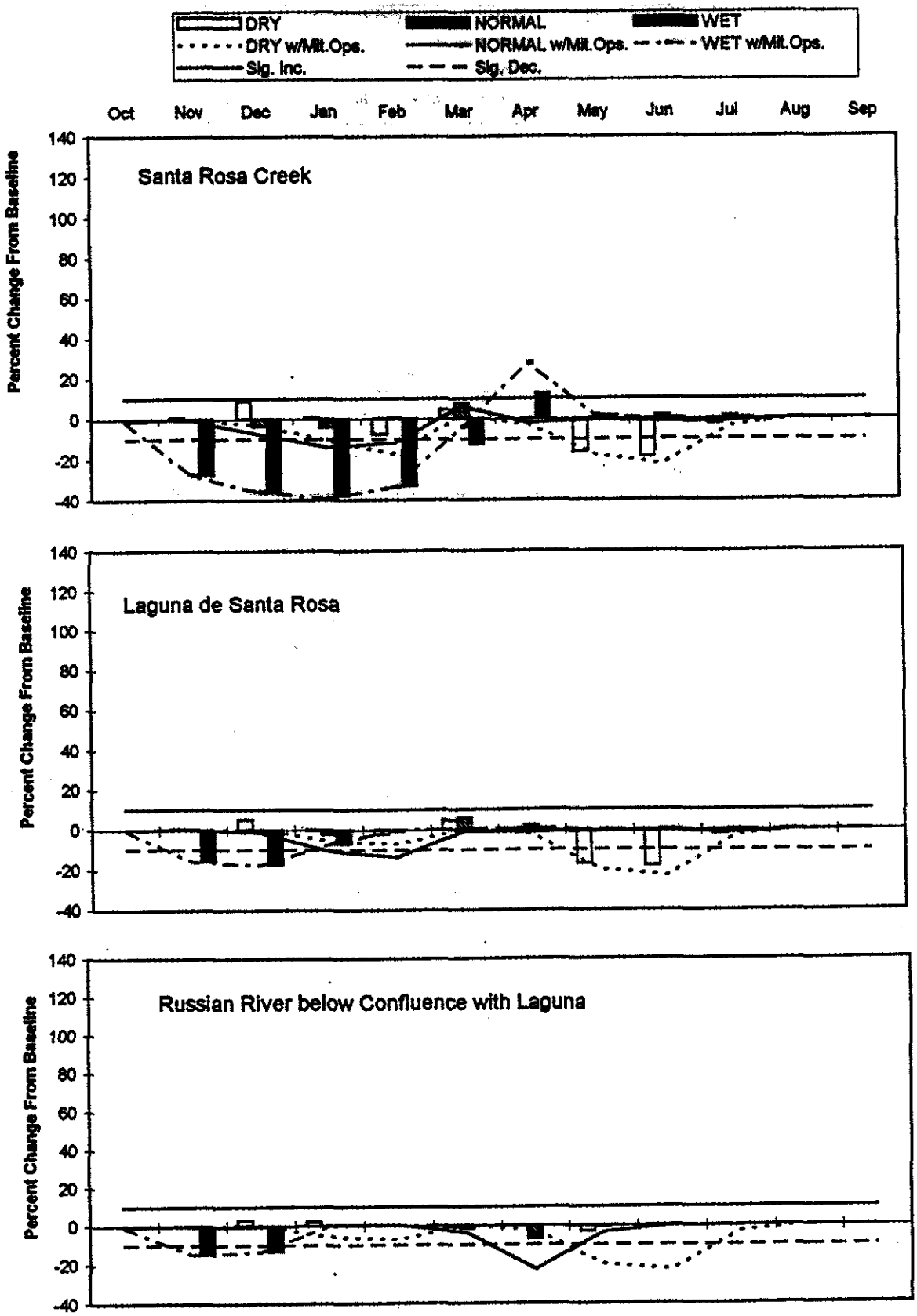

Figure 4-36. Discharge Impacts on Benthic Algae - 20% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

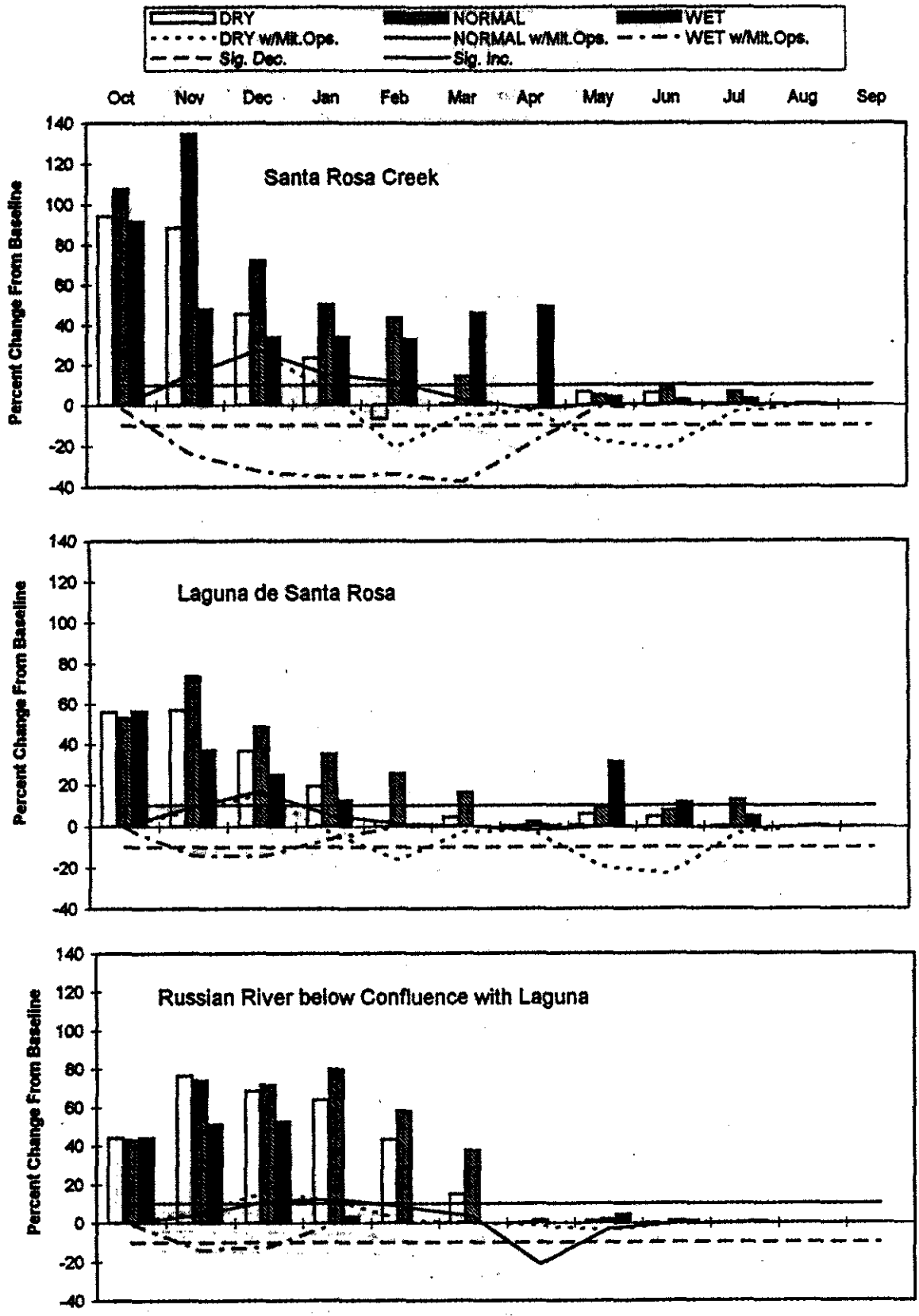

Figure 4-36. Discharge Impacts on Benthic Algae - No Project Alternative
Existing Conditions Baseline - Project and Mitigation Operations

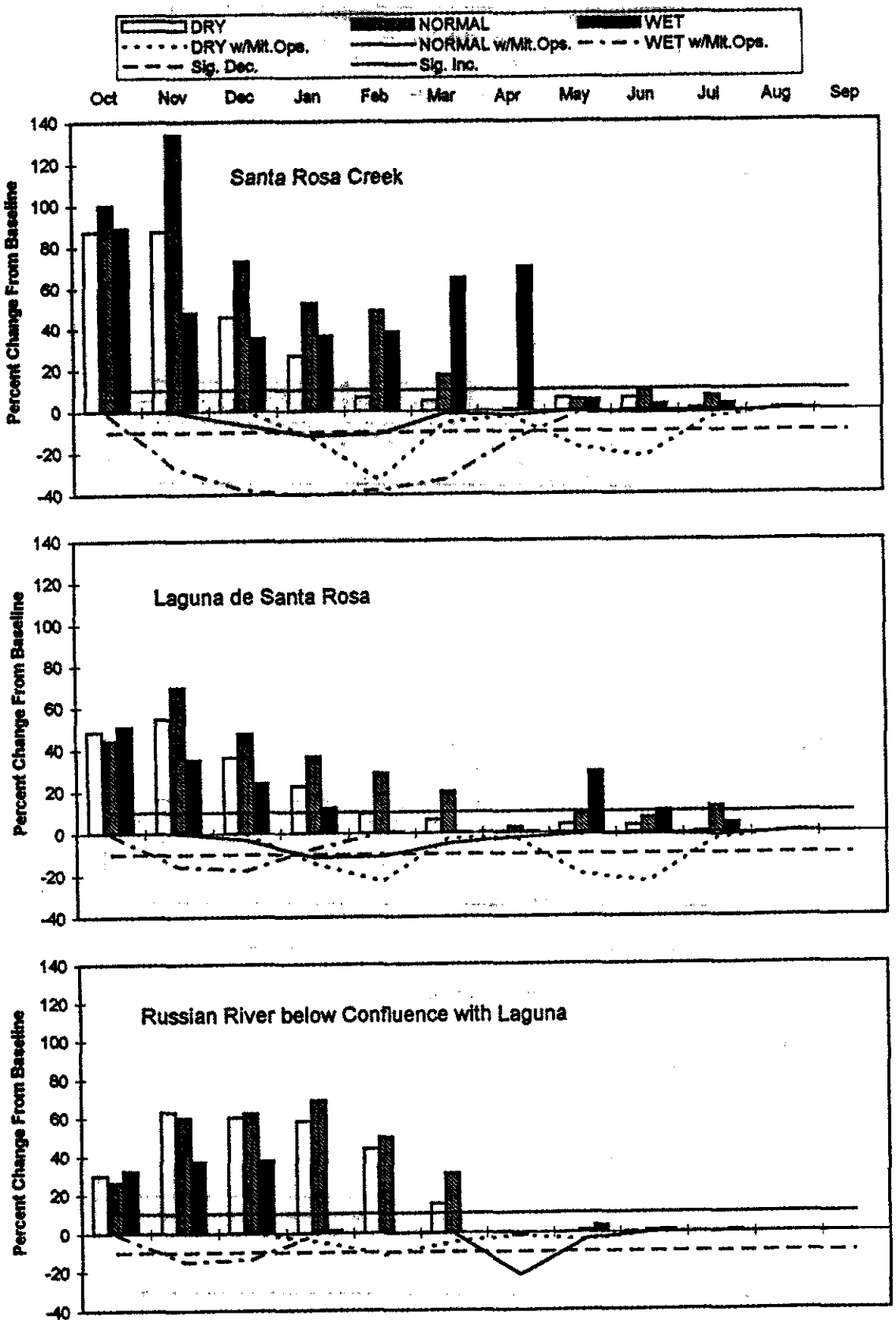

Figure 4-36. Discharge Impacts on Benthic Algae - Geysers Alternative
Exising Conditions Baseline - Project and Mitigation Operations

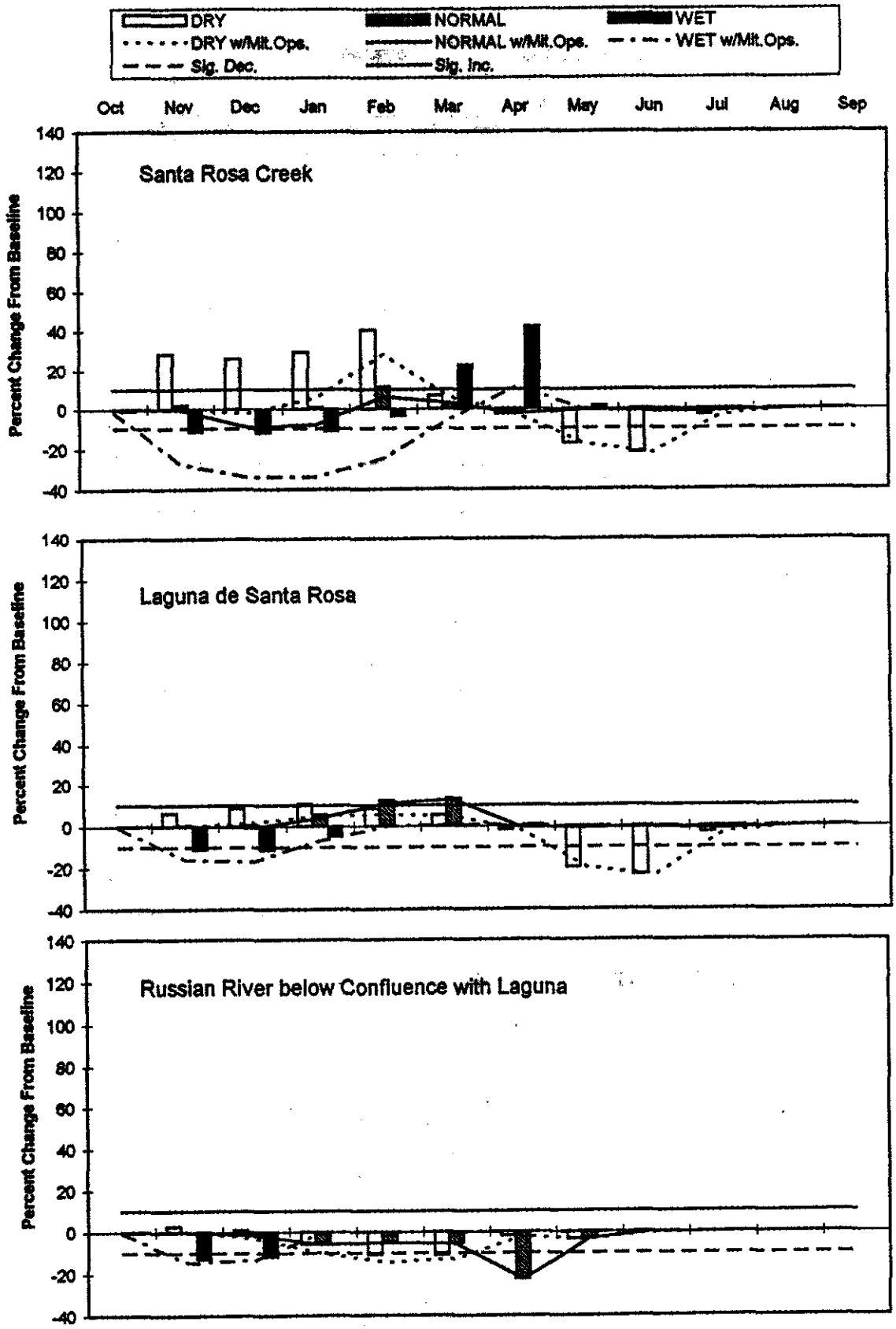

Figure 4-36. Discharge Impacts on Benthic Algae - 20% Discharge to Russian River Existing Conditions Baseline - Project and Mitigation Operations

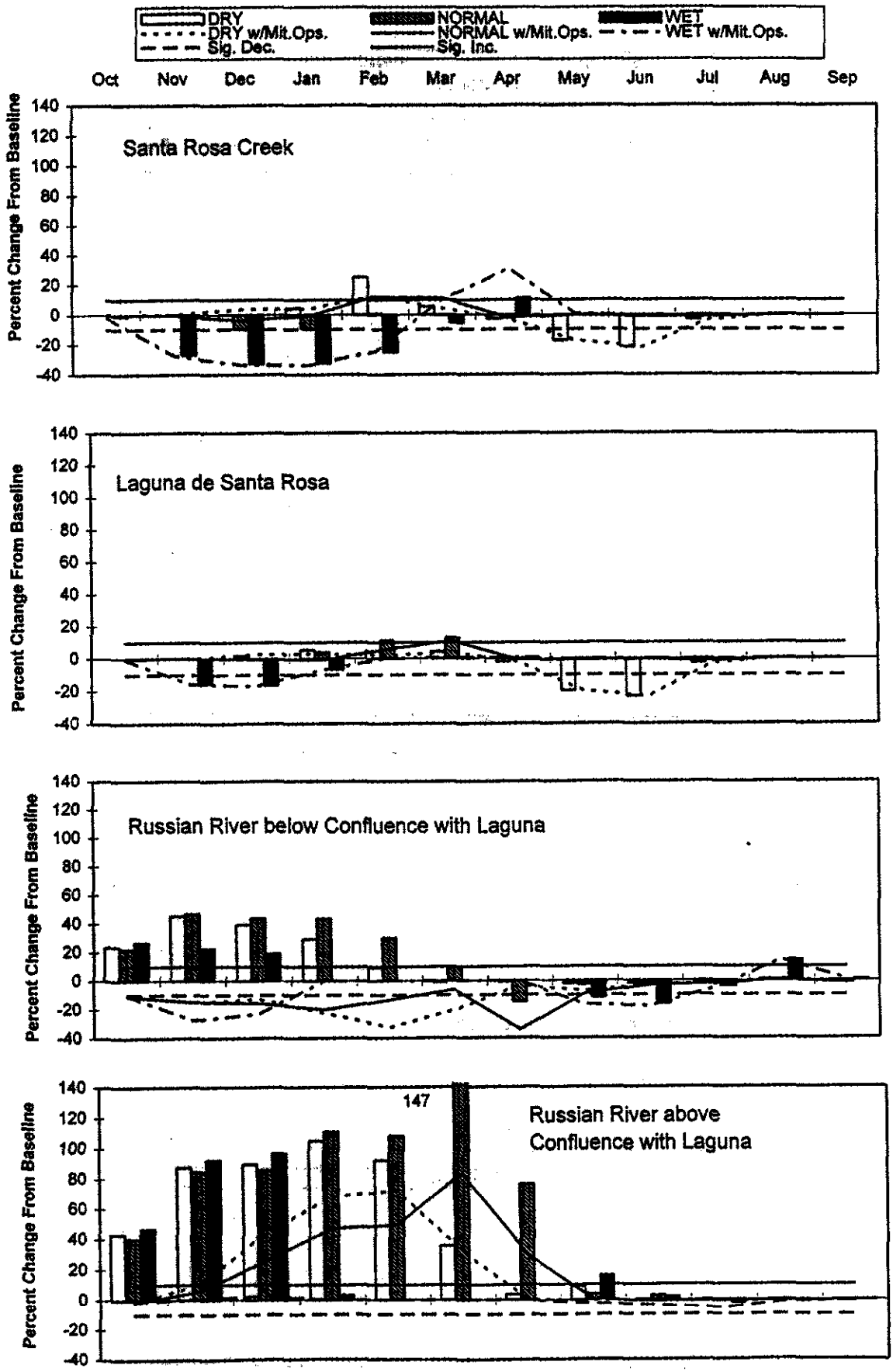

Figure 4-37. Discharge Impacts on Planktonic Algae - 1% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

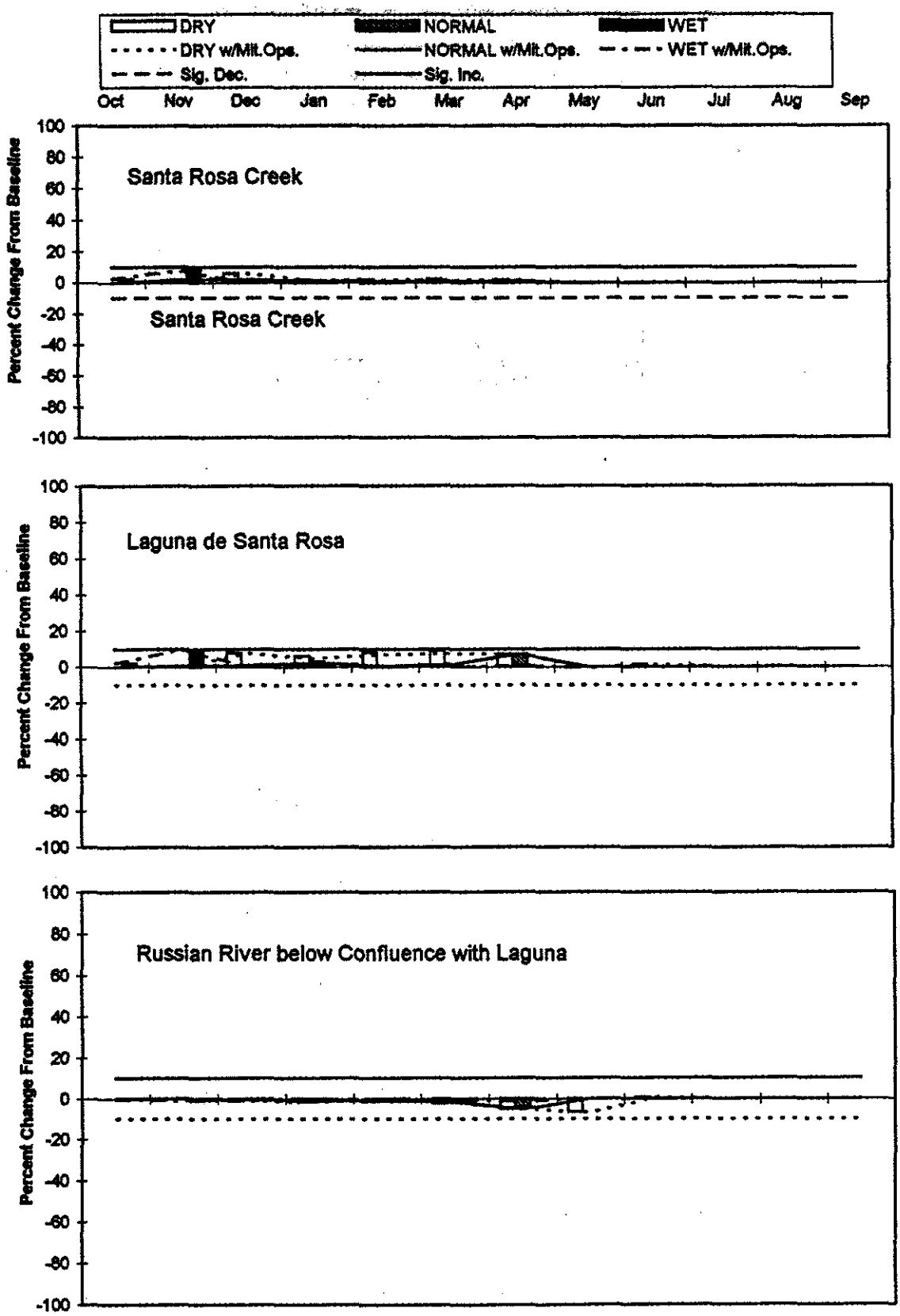

Figure 4-37. Discharge Impacts on Planktonic Algae - 5% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

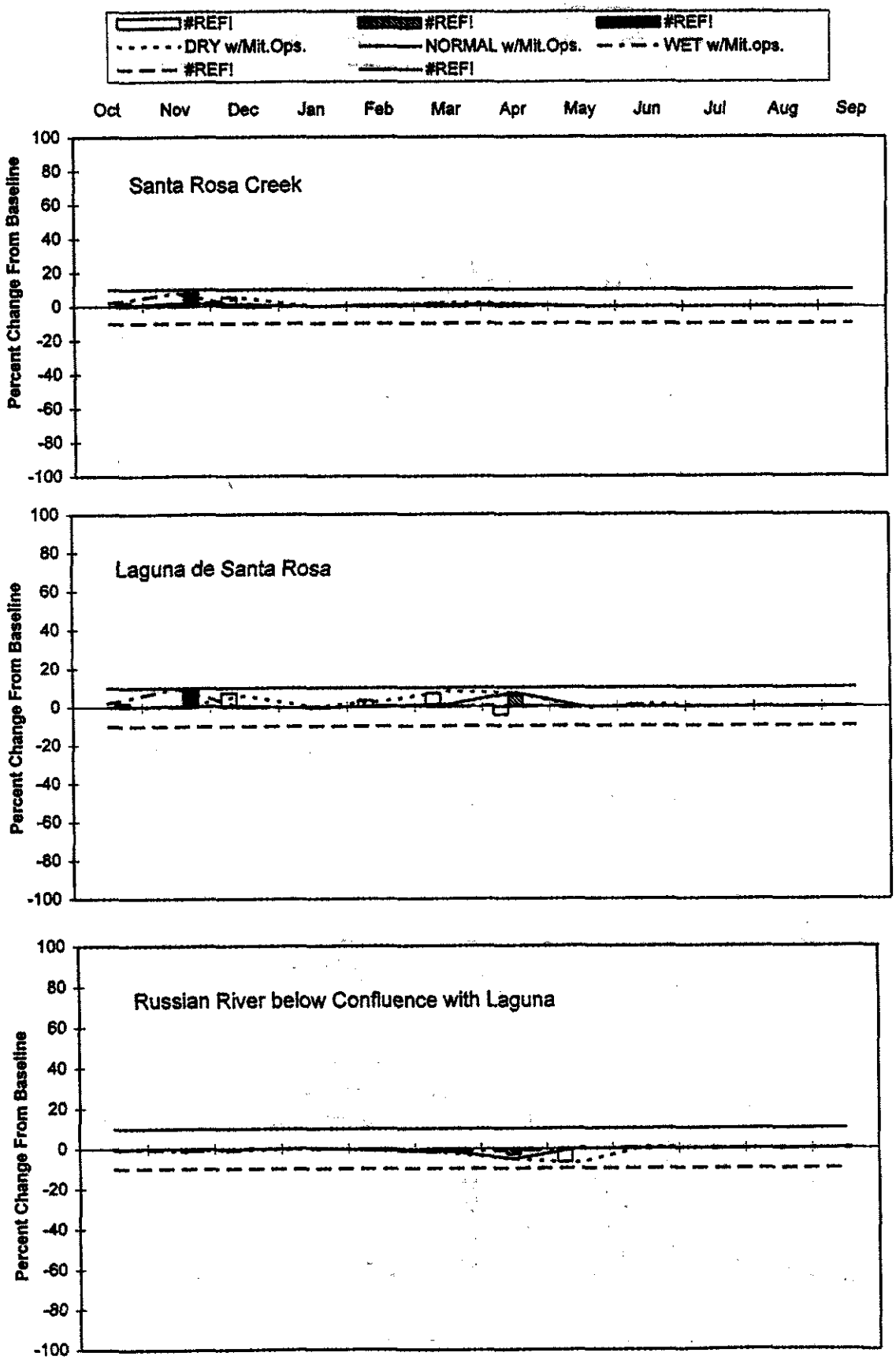

Figure 4-37. Discharge Impacts on Planktonic Algae - 10% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project and Mitigation Operations

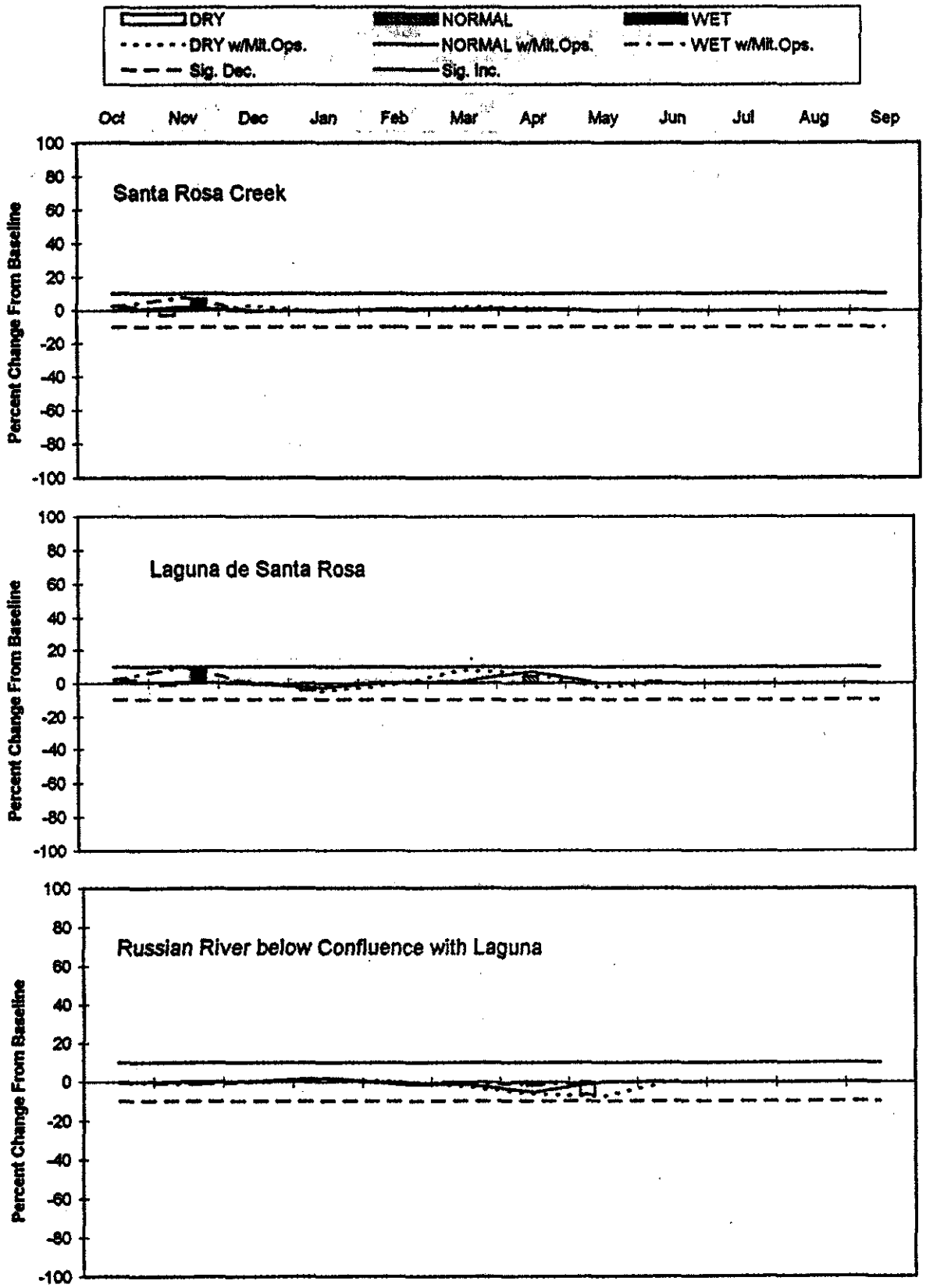

Figure 4-37. Discharge Impacts on Planktonic Algae - 20% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project and Mitigation Operations

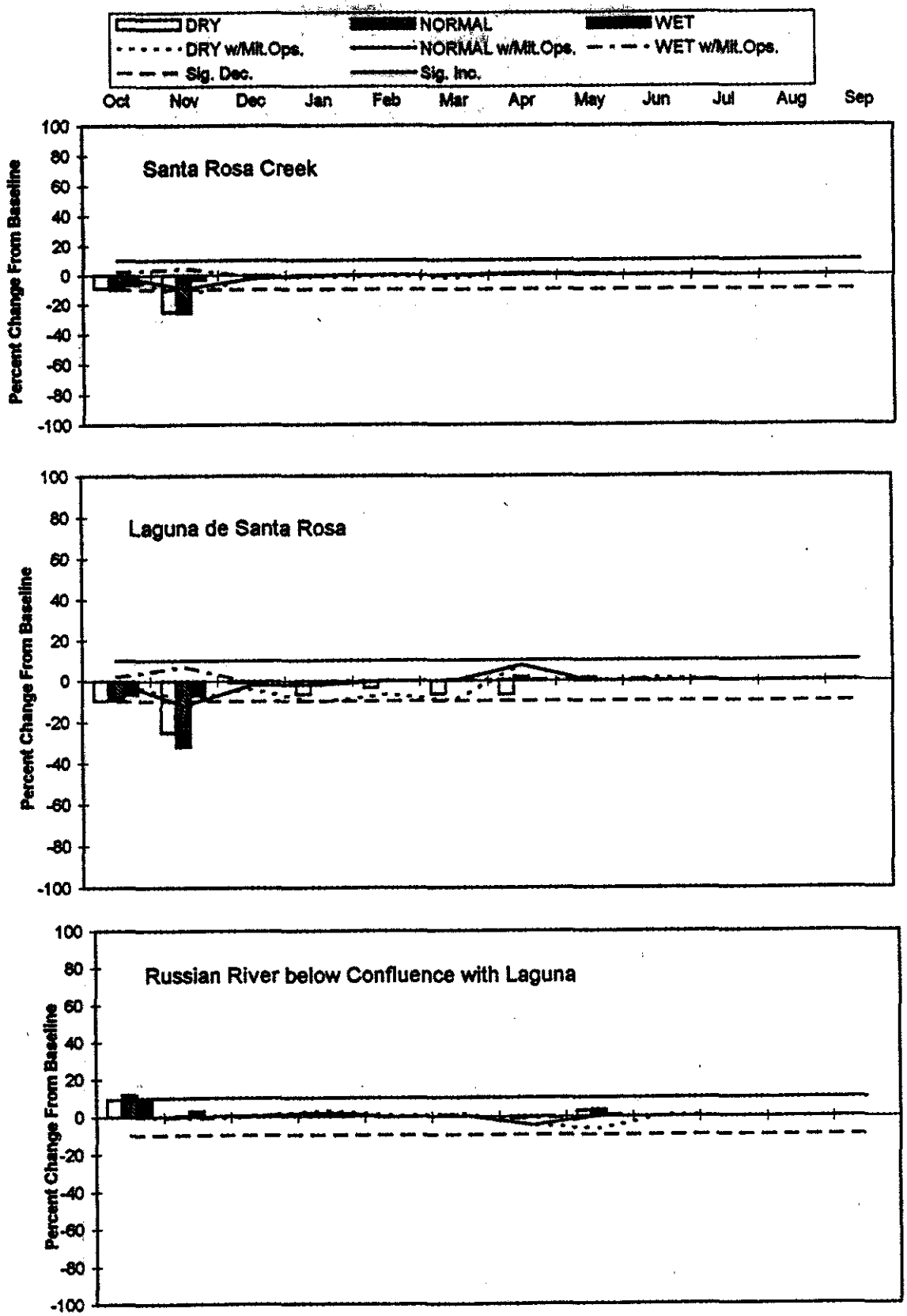

Figure 4-37. Discharge Impacts on Planktonic Algae - 20% Discharge to Russian River Existing Conditions Baseline - Project and Mitigation Operations

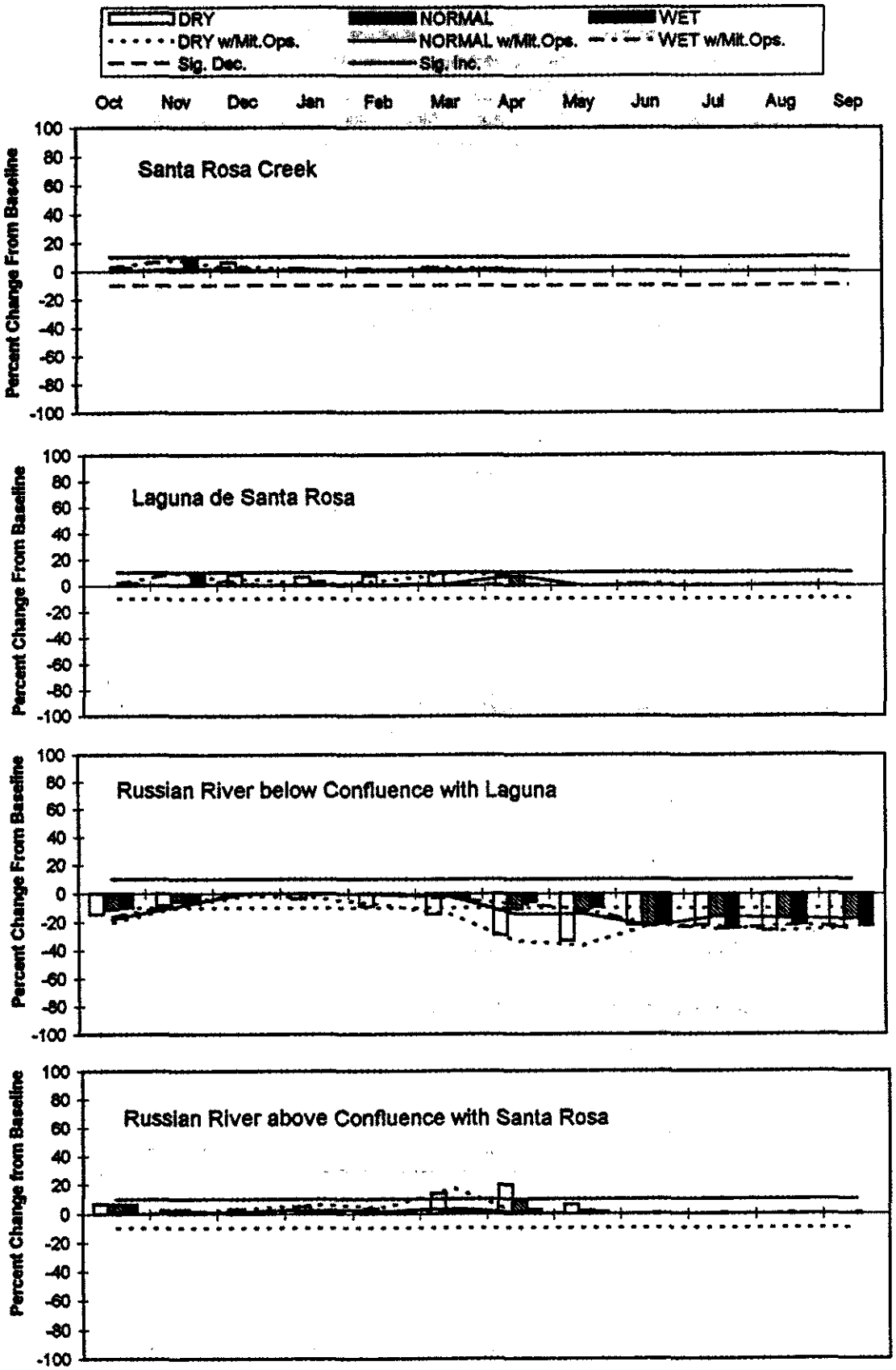

Figure 4-37. Discharge Impacts on Planktonic Algae - *No Project Alternative*
Existing Conditions Baseline - Project and Mitigation Operations

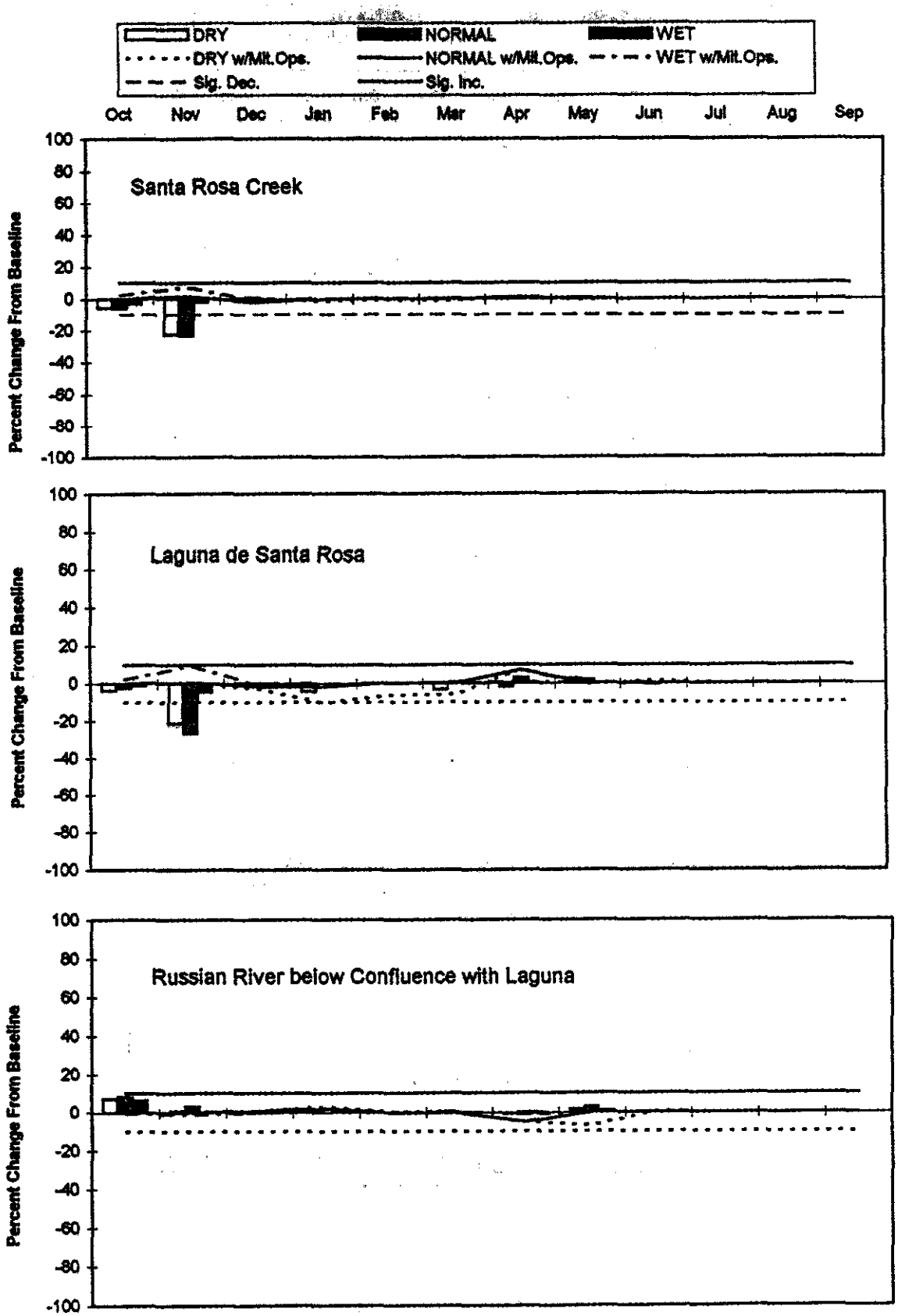

Figure 4-37. Discharge Impacts on Planktonic Algae - Geysers Alternative Existing Conditions Baseline - Project and Mitigation Operations

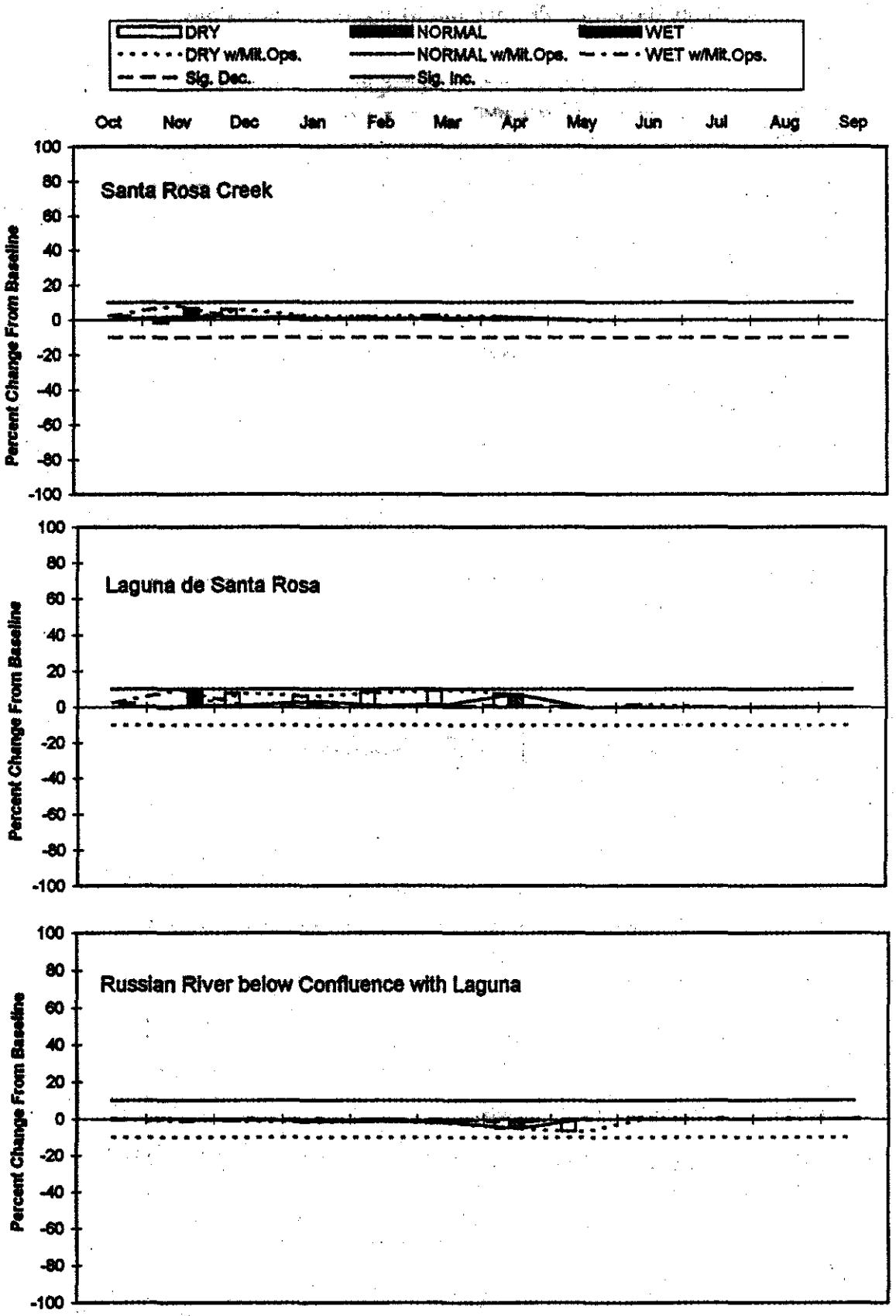

Figure 4-38. Discharge Impacts on Dissolved Oxygen - 20% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project and Mitigation Operations

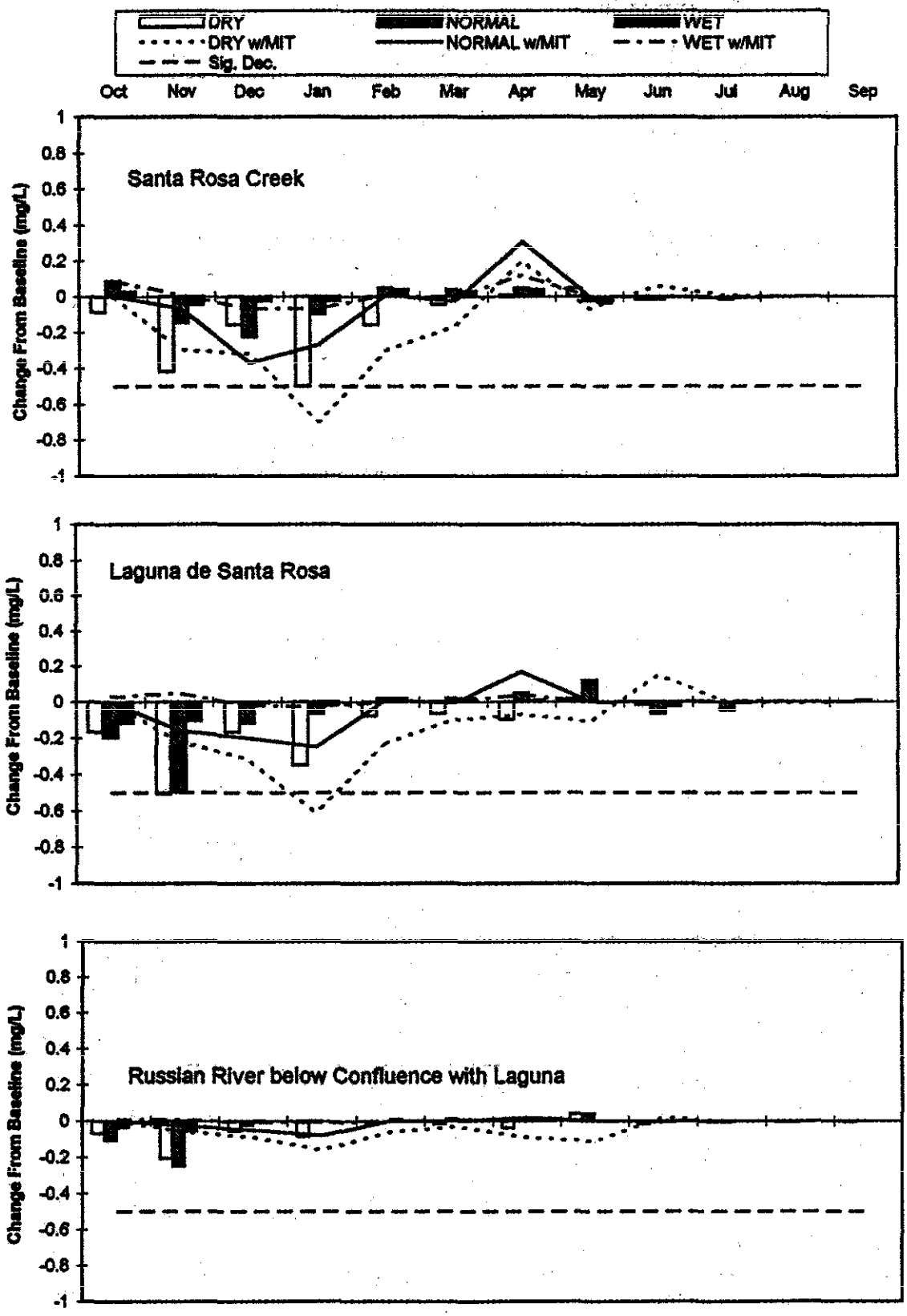

Figure 4-38. Discharge Inpacts on Dissolved Oxygen - No Project Alternative Existing Conditions Baseline - Project and Mitigation Operations

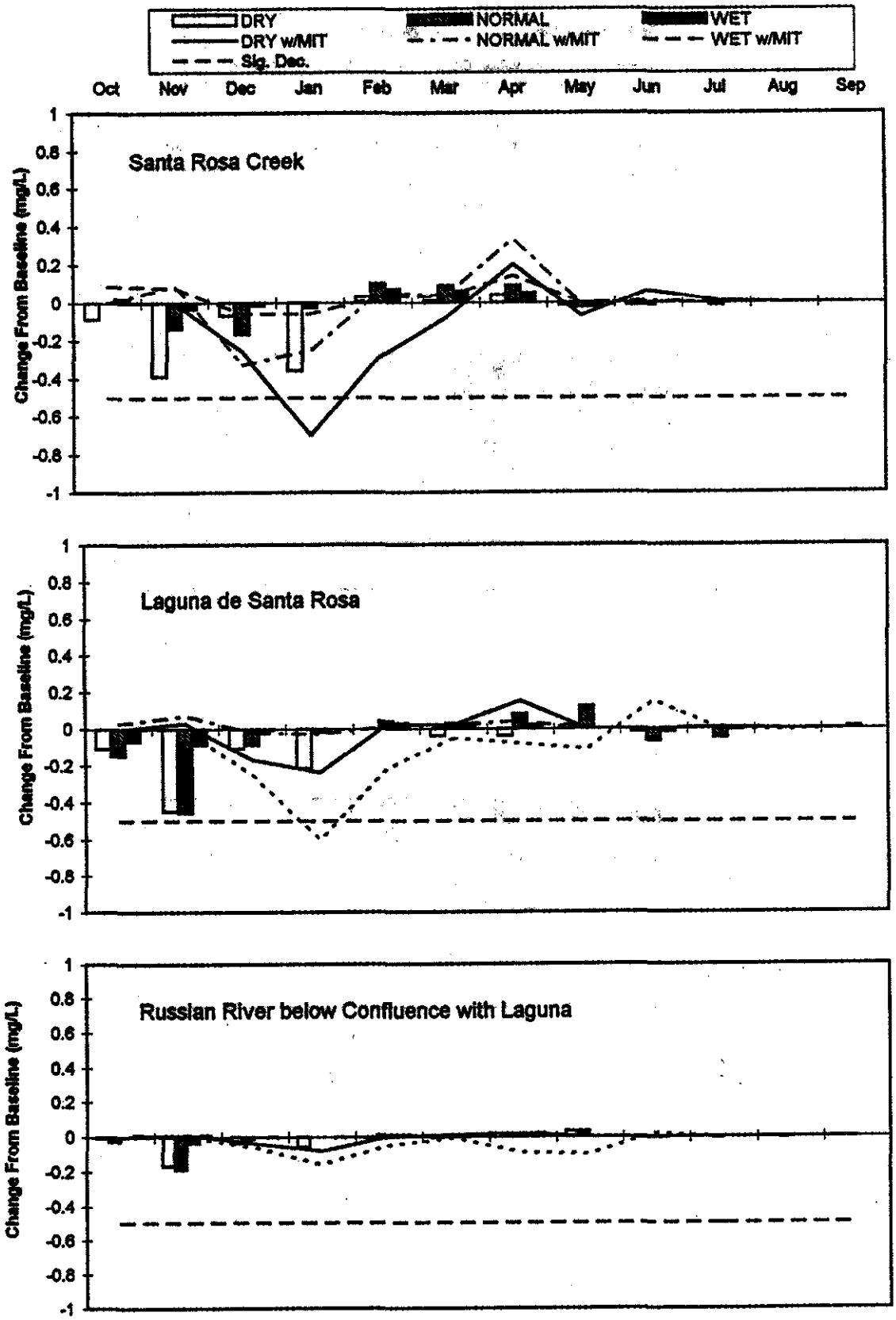

Figure 4-39. Discharge Impacts on Ammonia - 10% Discharge to Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

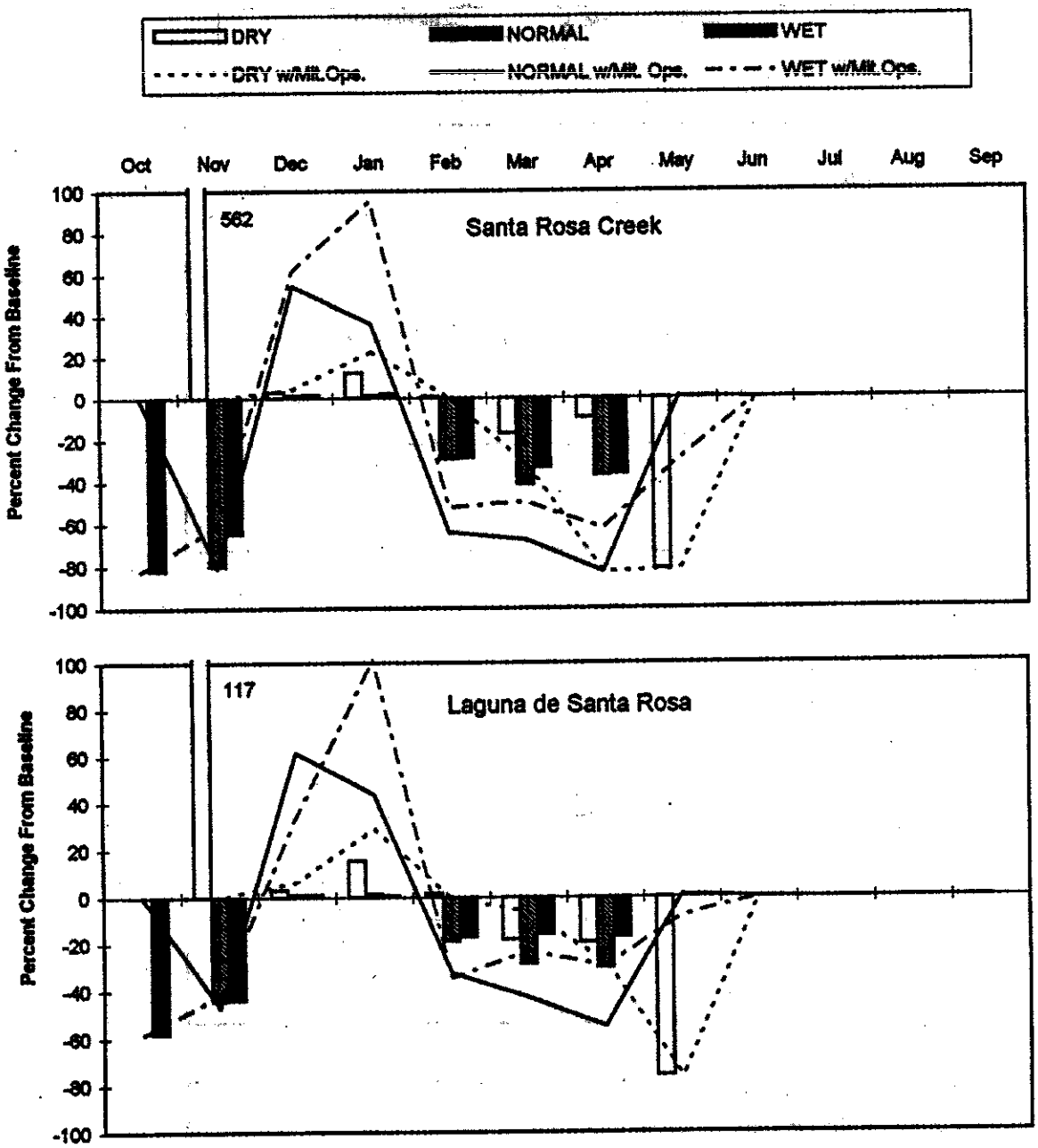

Figure 4-39. Discharge Impacts on Ammonia - 20% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

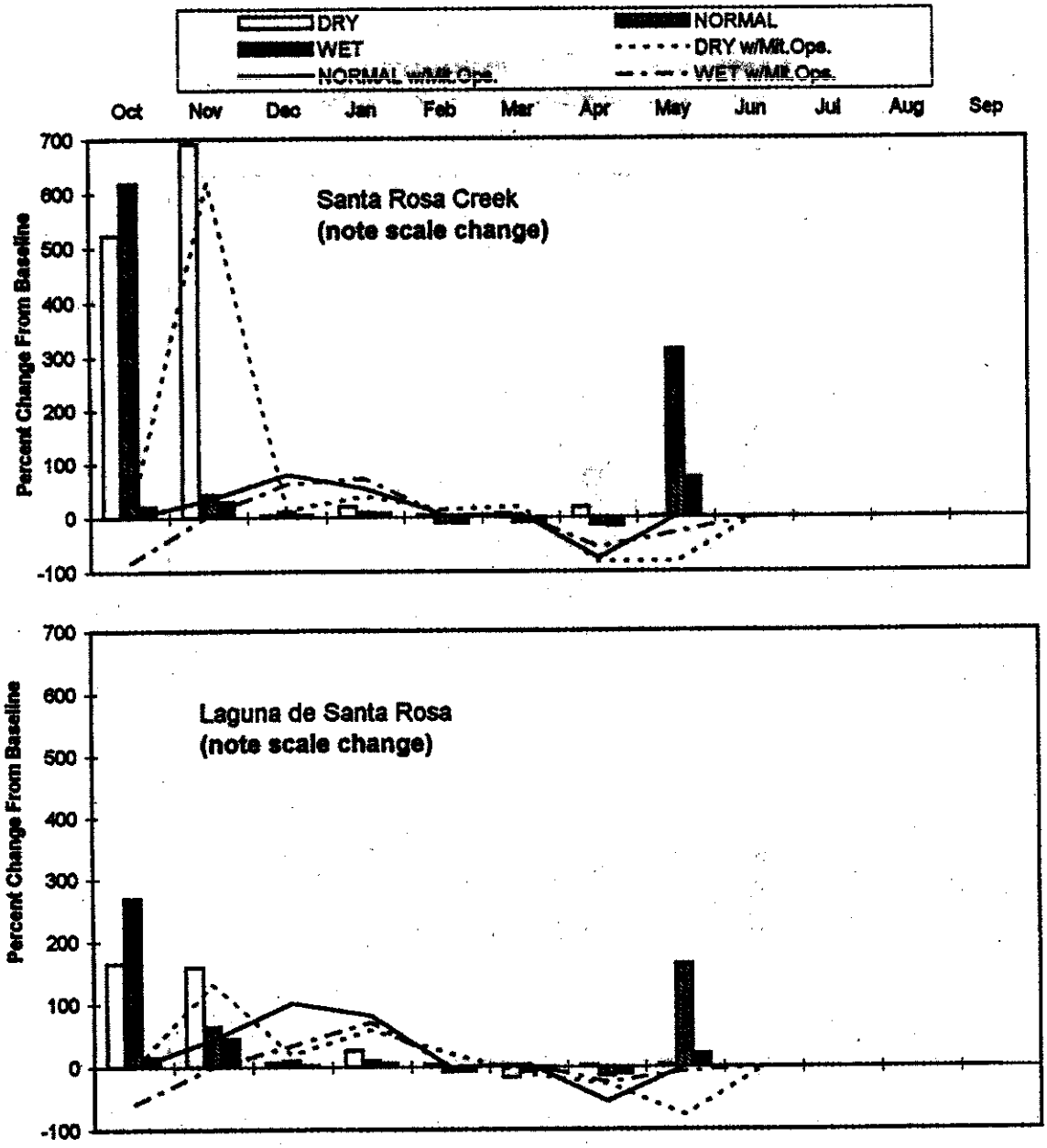

Figure 4-39. Discharge Impacts on Ammonia - Geysers Alternative Existing Conditions Baseline - Project and Mitigation Operations

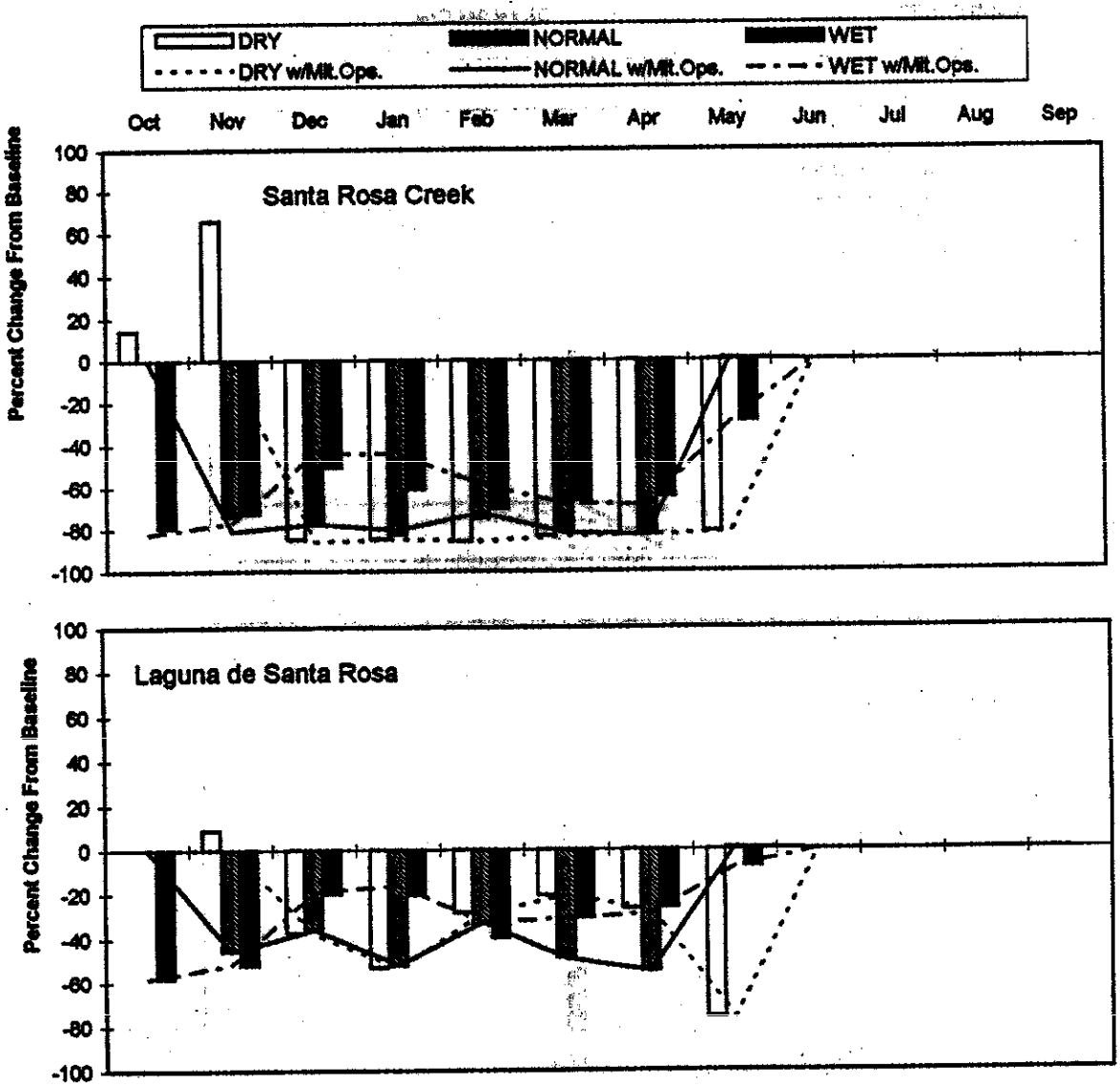

Figure 4-39. Discharge Impacts on Ammonia - No Project Alternative Existing Conditons Baseline - Project and Mitigation Operations

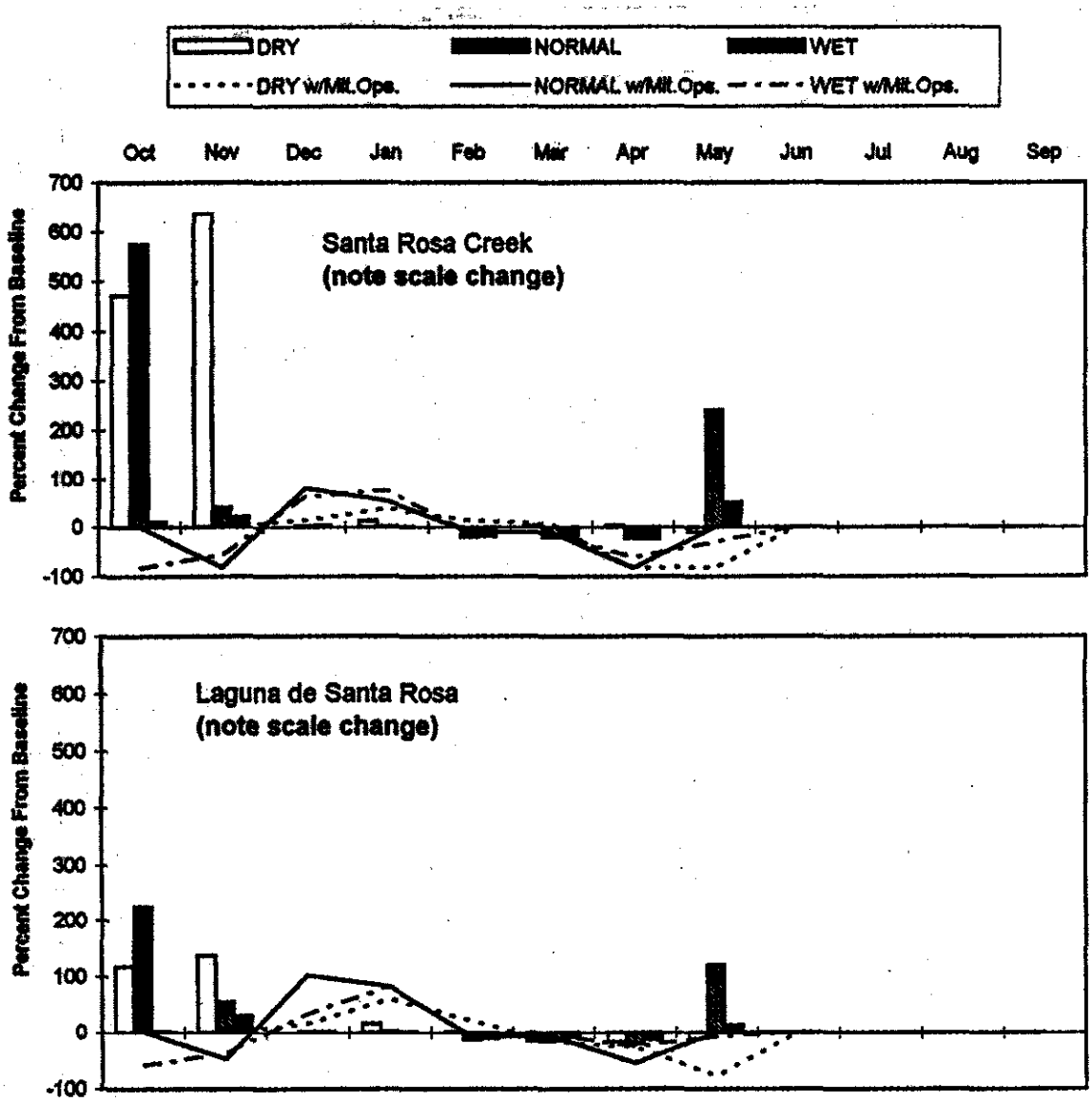

Figure 4-40. Distribution of Daily Average Reclaimed Water Concentration During the Discharge Season In Santa Rosa Creek in a Very Dry Year (1977) With Contingency Discharge Under Project and Mitigation Operations

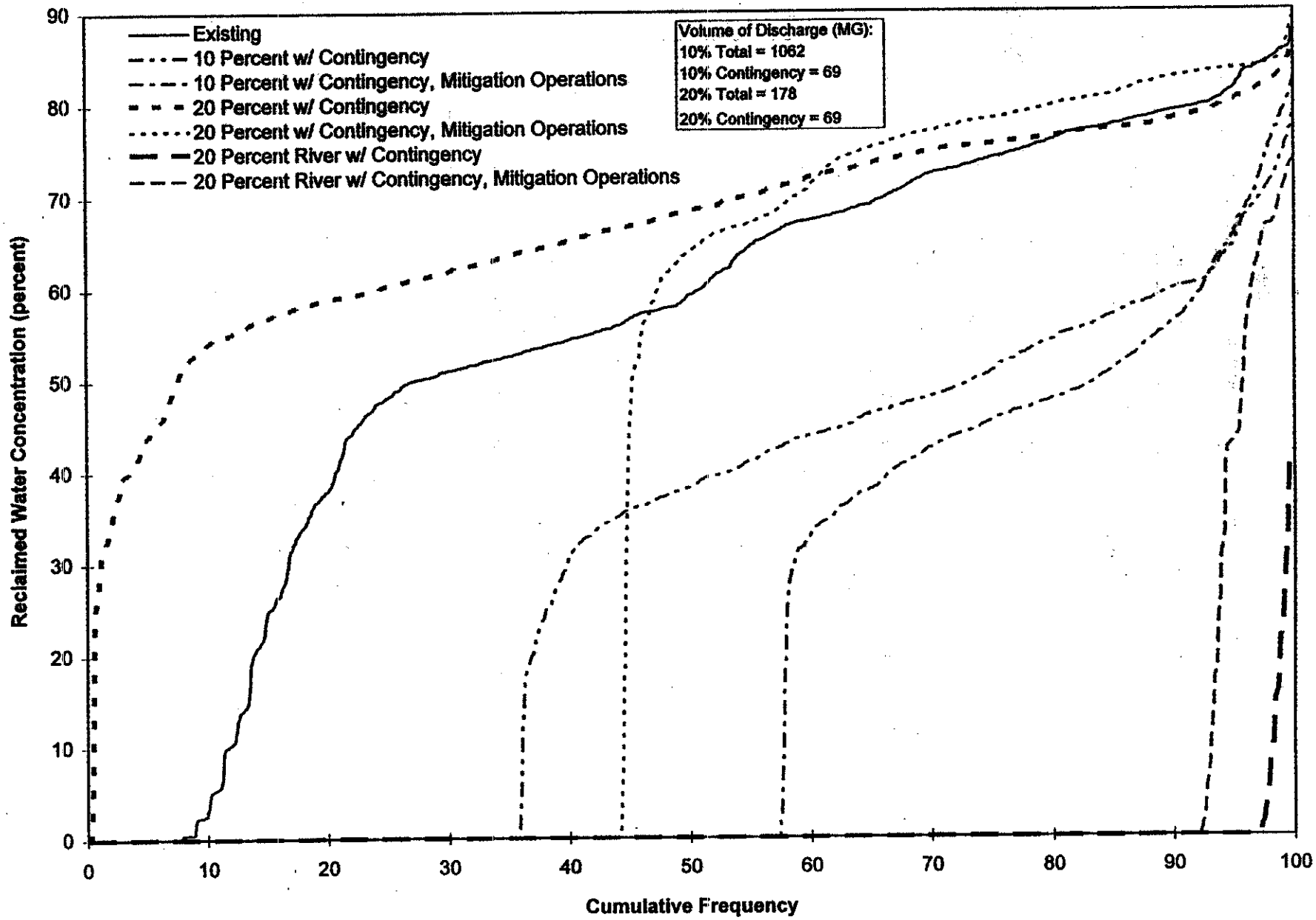

Figure 4-41. Distribution of Daily Average Reclaimed Water Concentration During the Discharge Season In the Laguna at River Road in a Very Dry Year (1977) With Contingency Discharge Under Project and Mitigation Operations

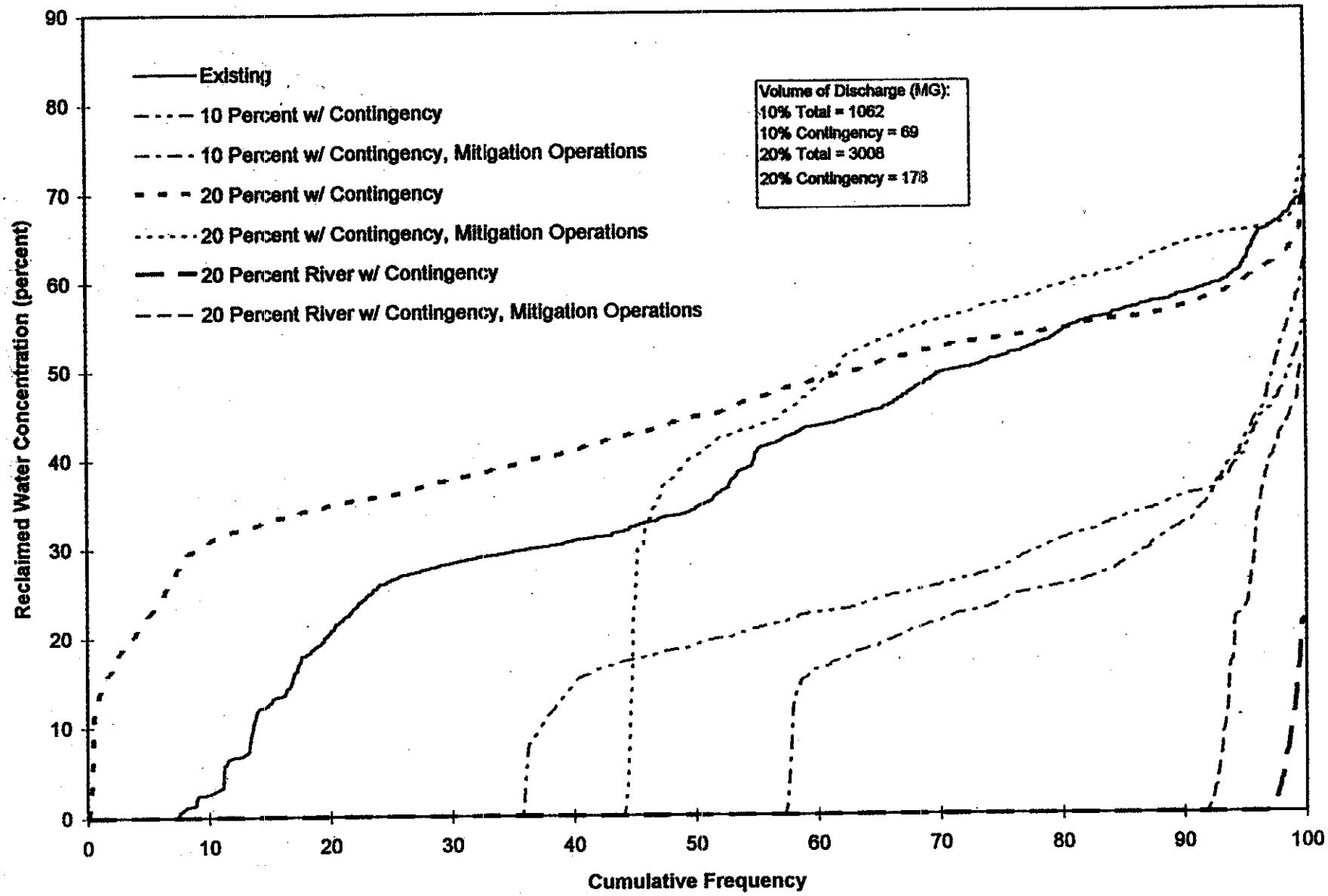

Figure 4-42. Distribution of Daily Average Reclaimed Water Concentration During the Discharge Season In the Russian River Below the Laguna in a Very Dry Year (1977) With Contingency Discharge Under Project and Mitigation Operations

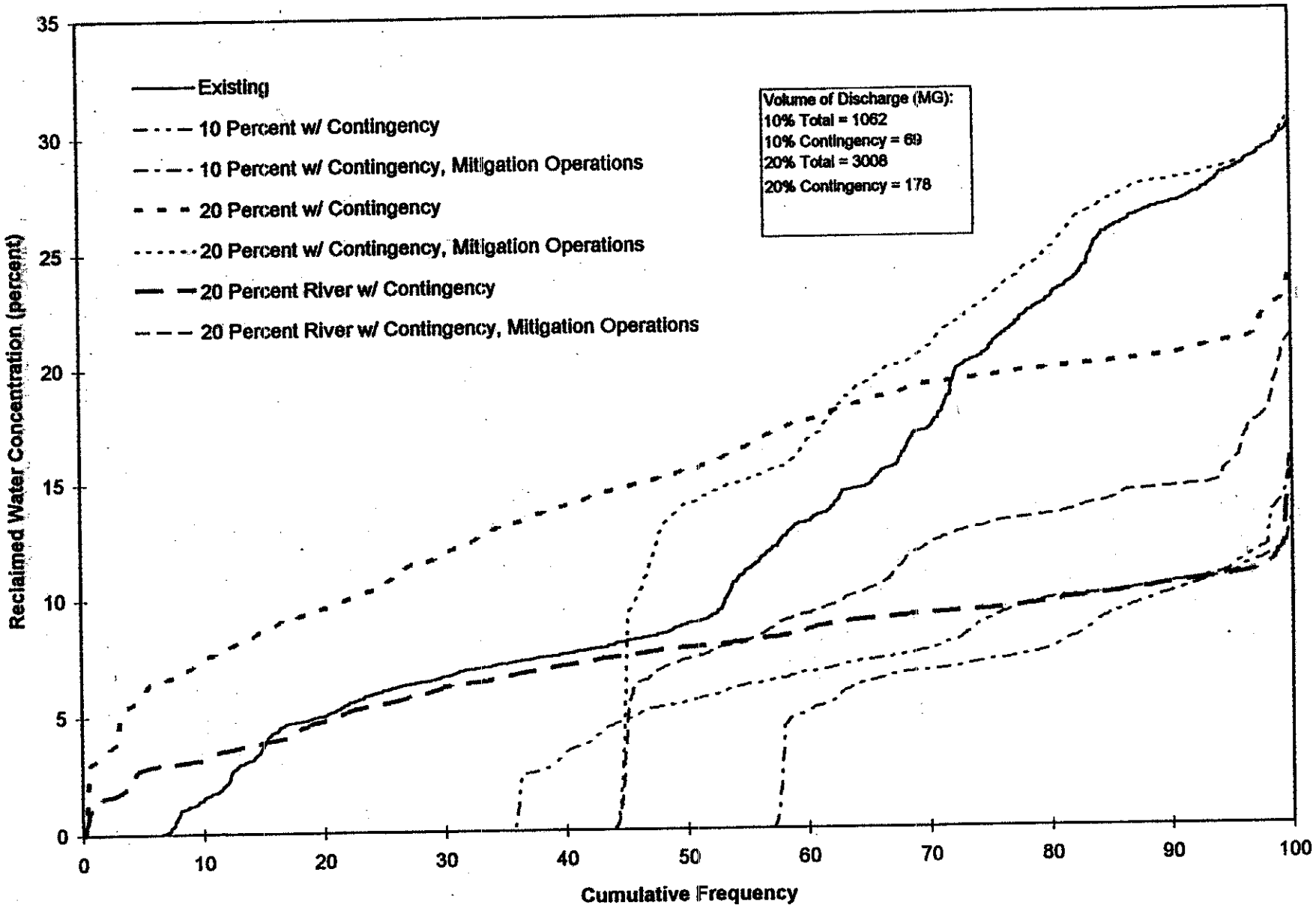

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Figure 4-43. Distribution of Daily Average Reclaimed Water Concentration During the Discharge Season In the Russian River Above the Laguna in a Very Dry Year (1977) With Contingency Discharge Under Project and Mitigation Operations

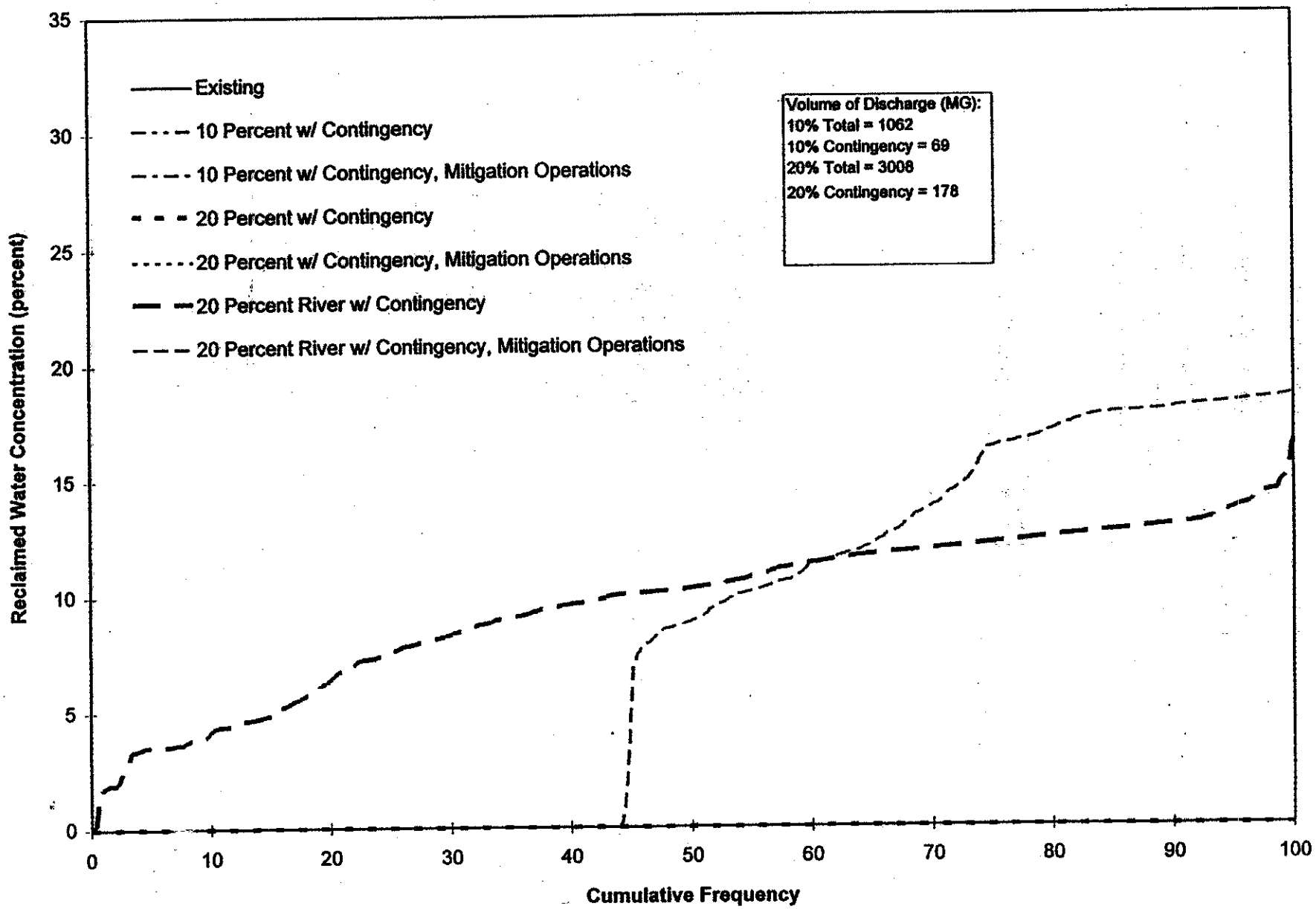

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Figure 4-44. Contingency Discharge Impacts on Benthic Algae - 10% Discharge Component

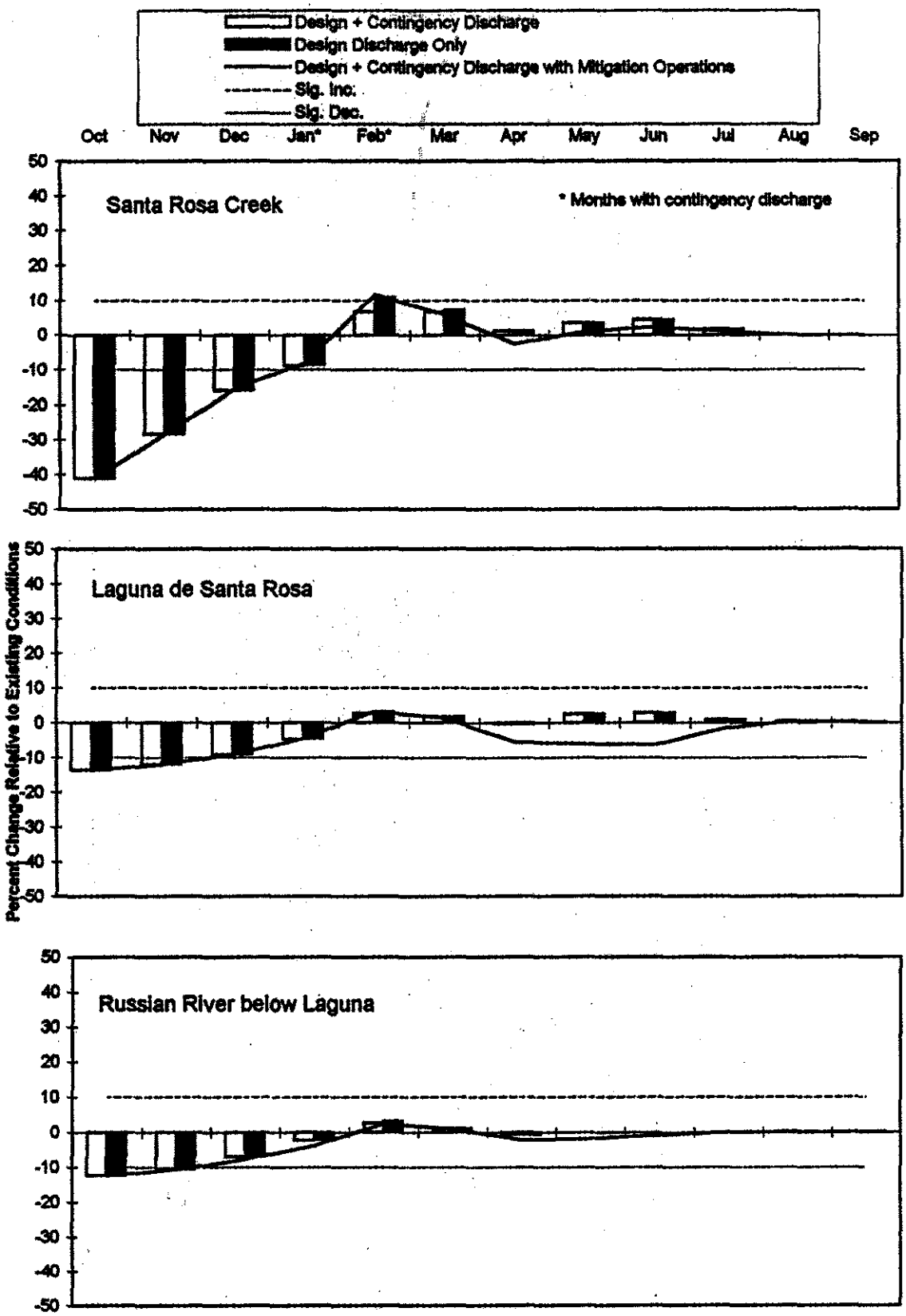

Figure 4-45. Contingency Discharge Impacts on Benthic Algae - 20% Discharge Component

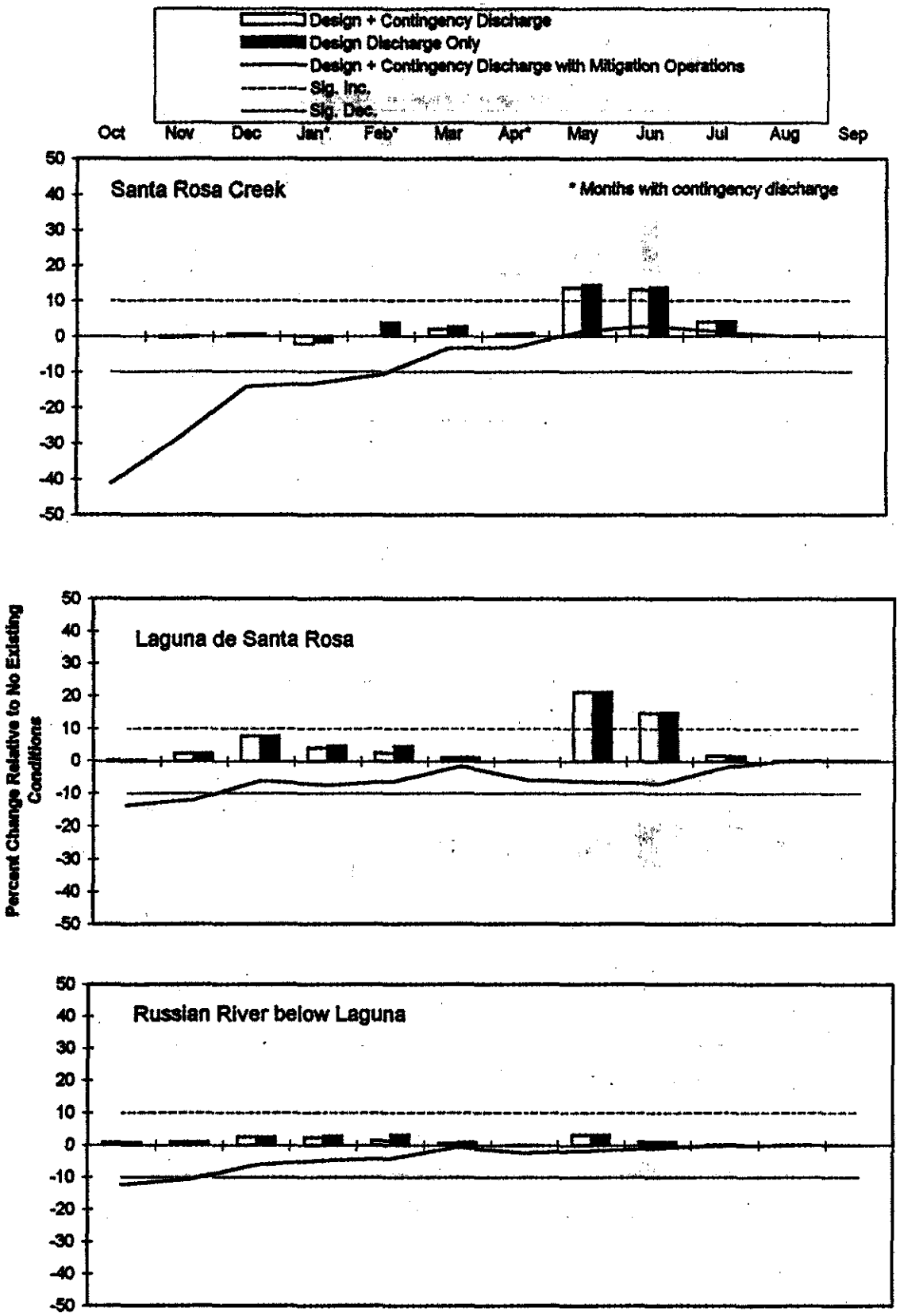

Figure 4-46. Contingency Discharge Impacts on Benthic Algae - 20% Russian River Discharge Component

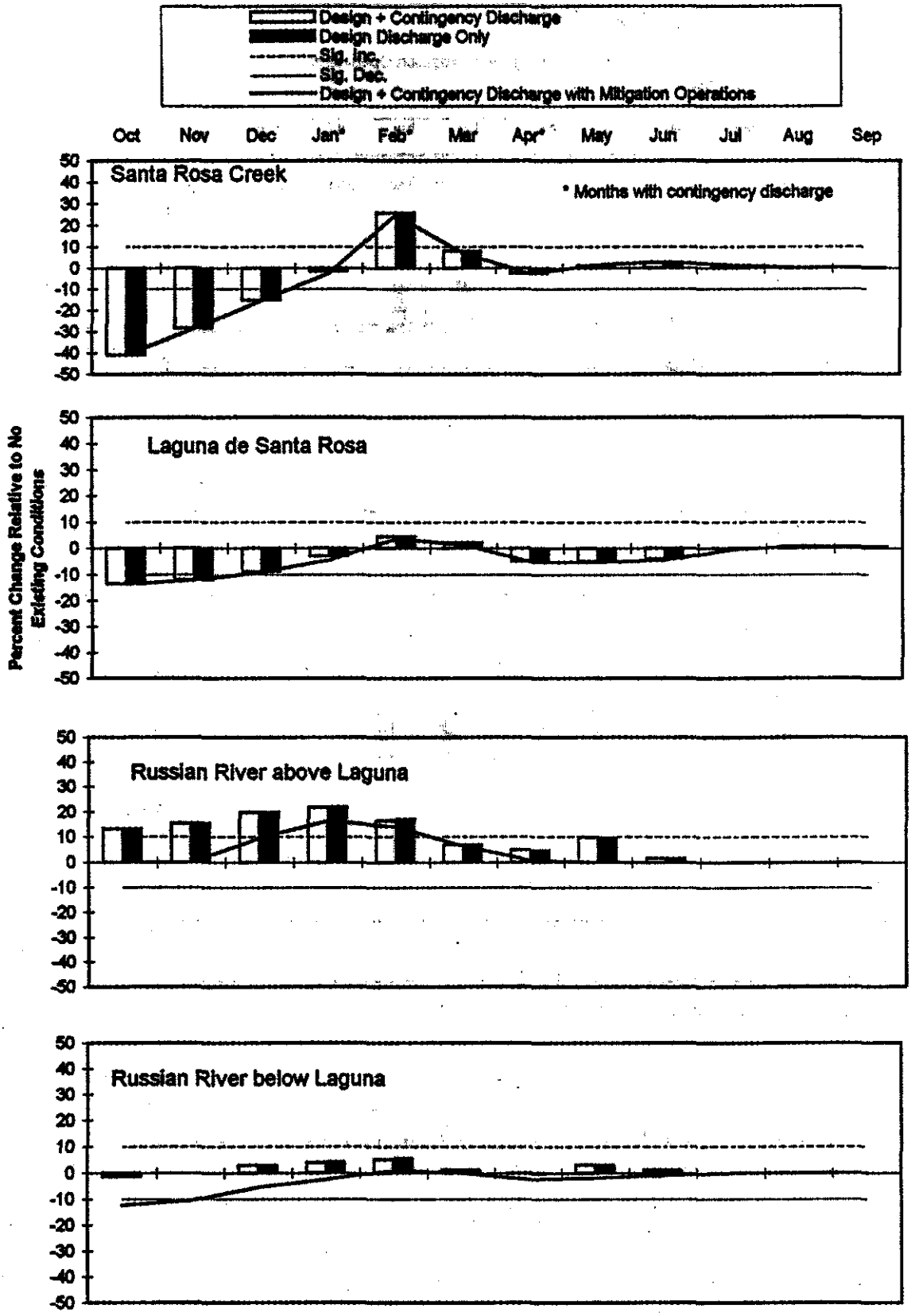

Figure 4-47. Contingency Discharge Impacts on Planktonic Algae - 10% Discharge Component

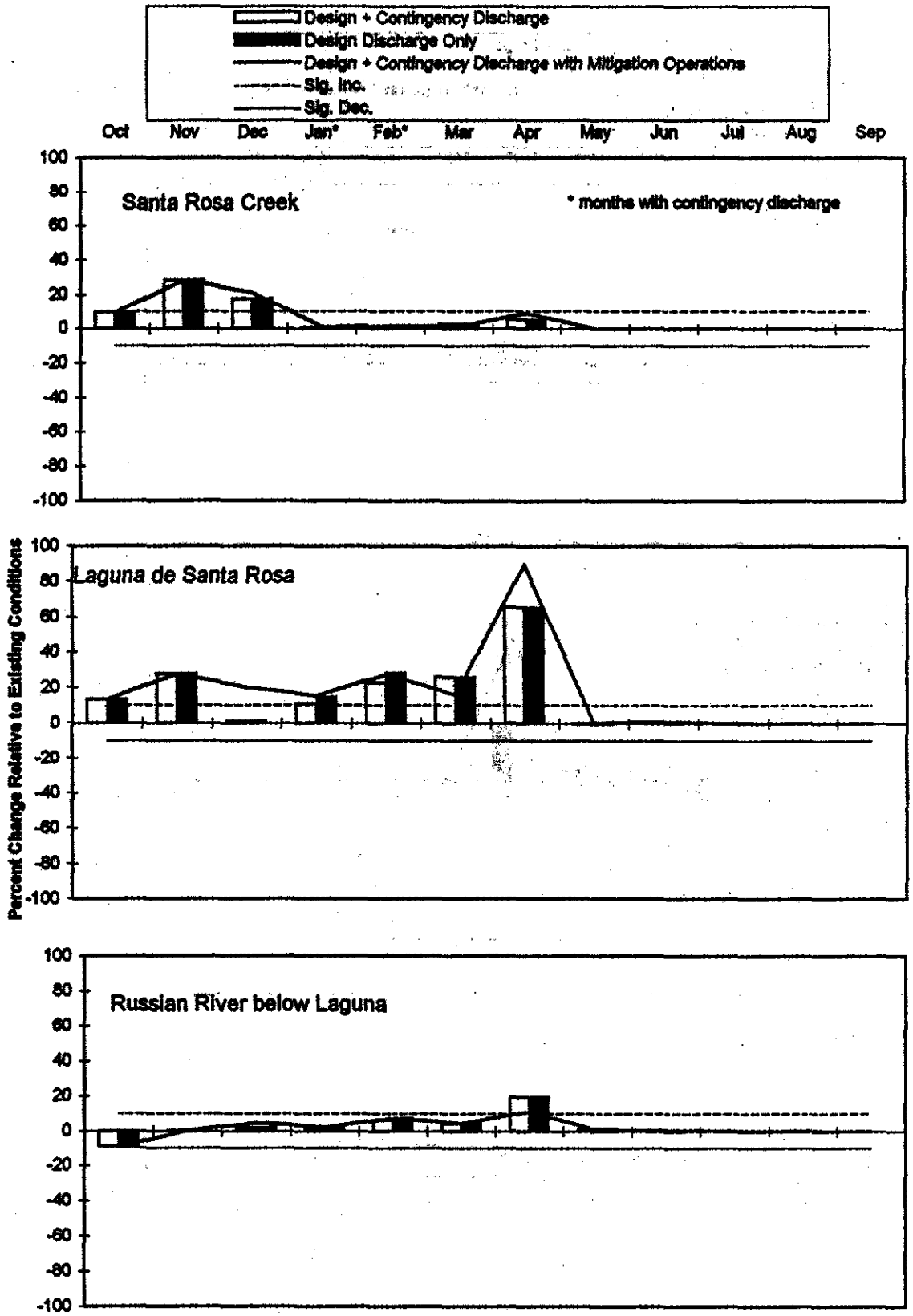

Figure 4-48. Contingency Discharge Impacts on Planktonic Algae - 20% Discharge Component

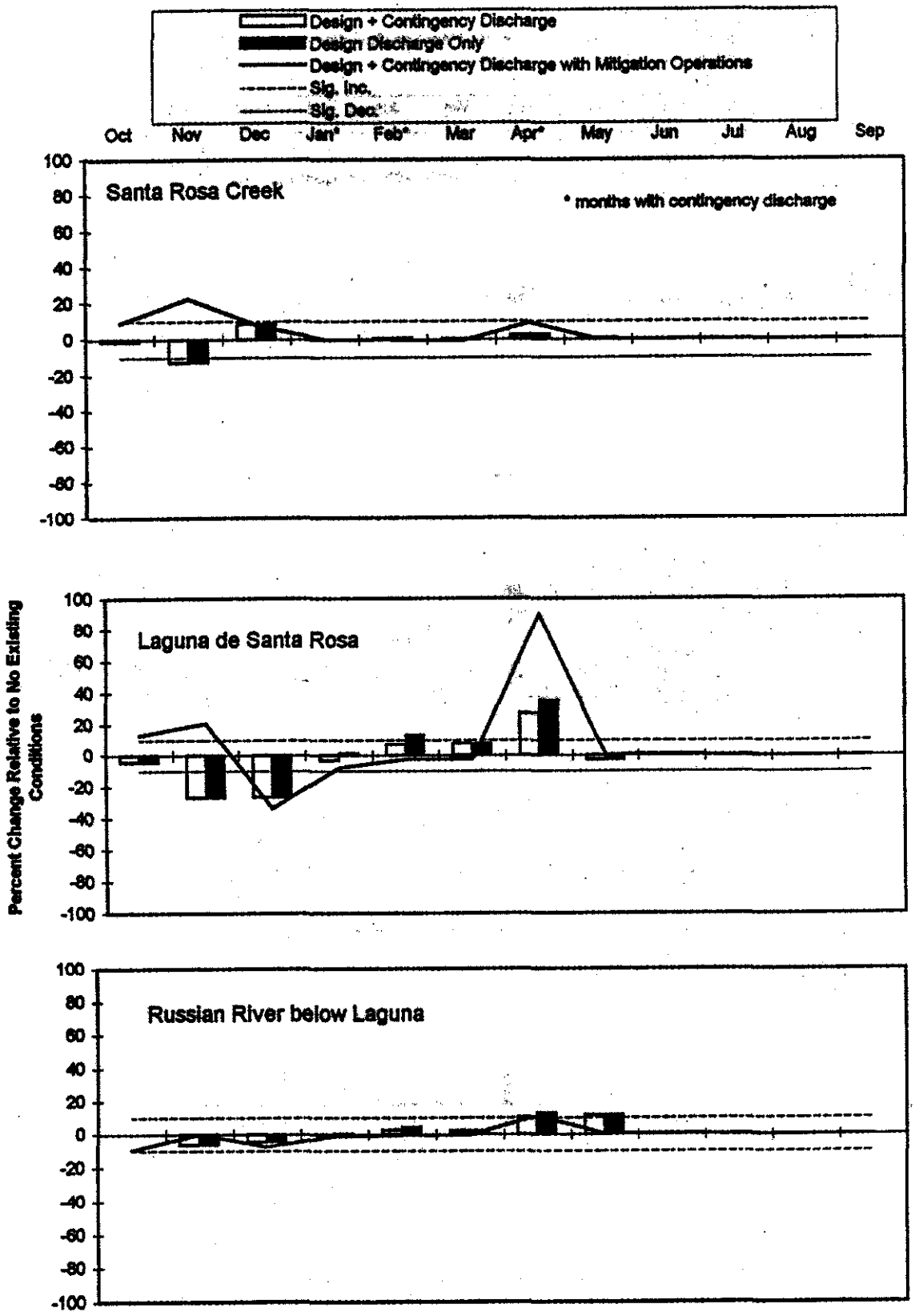

Figure 4-49. Contingency Discharge Impacts on Planktonic Algae - 20% Russian River Discharge Component

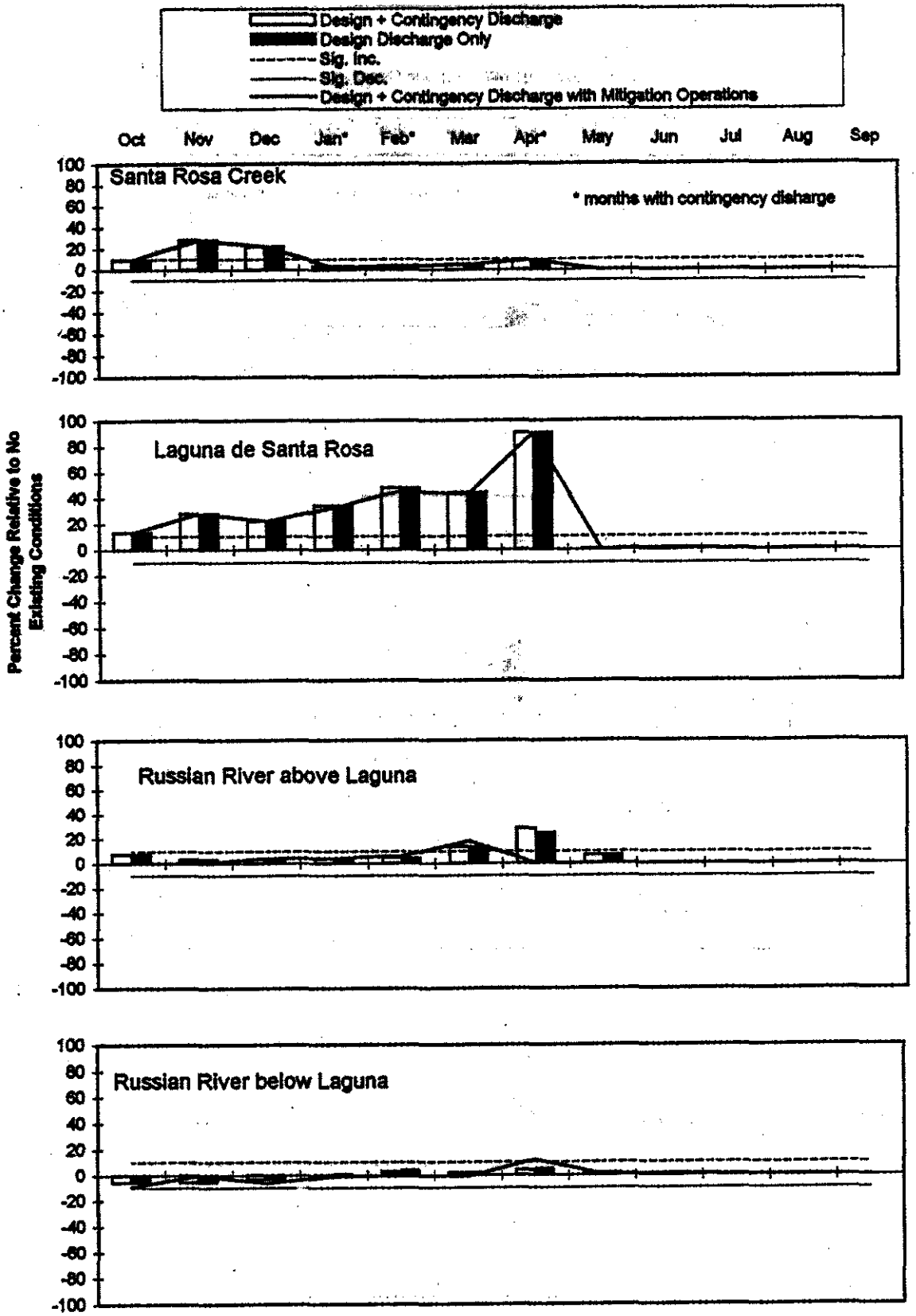

Figure 4-50. Contingency Discharge Impacts on Dissolved Oxygen - 10% Discharge Component

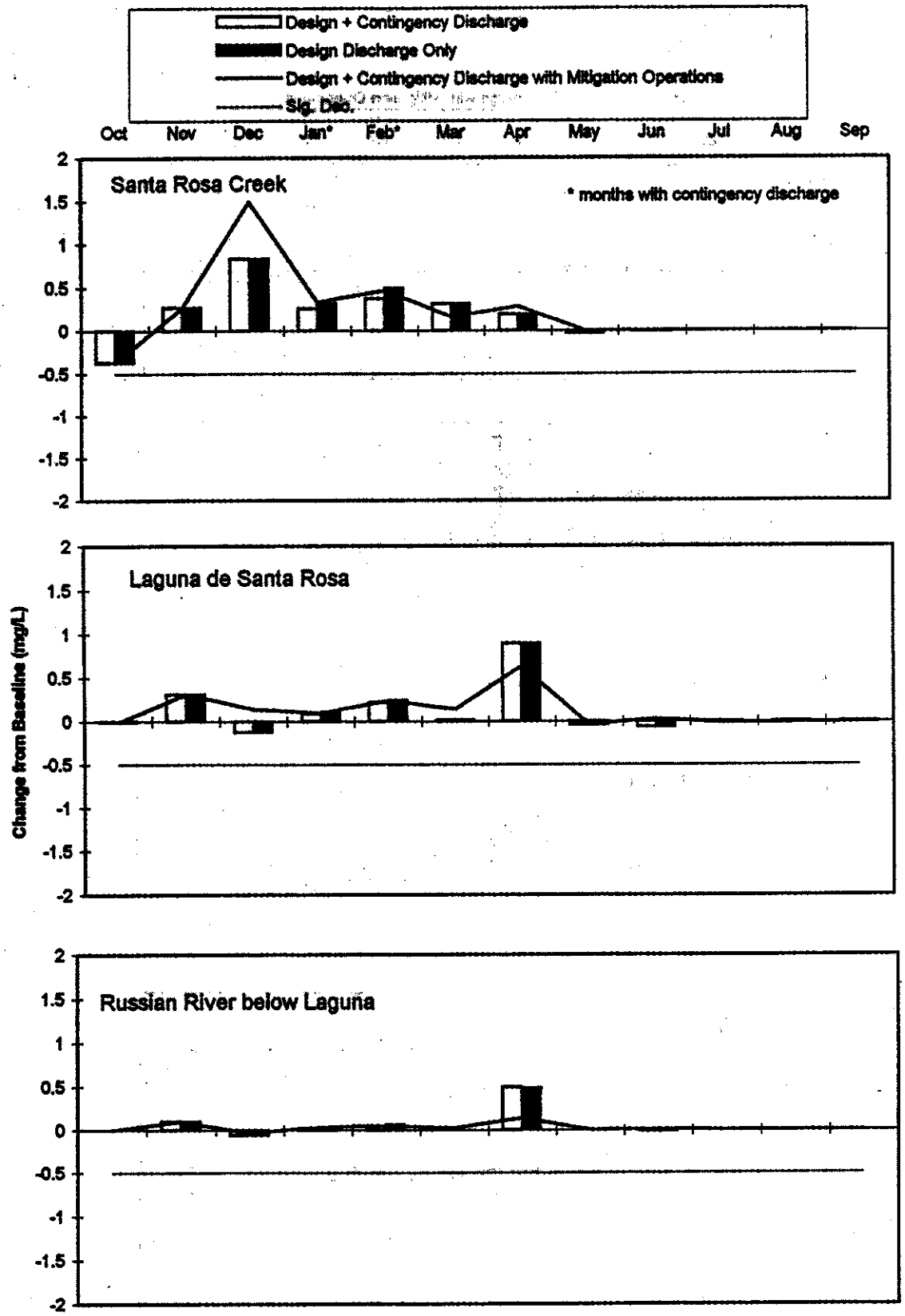

Figure 4-51. Contingency Discharge Impacts on Dissolved Oxygen - 20% Discharge Component

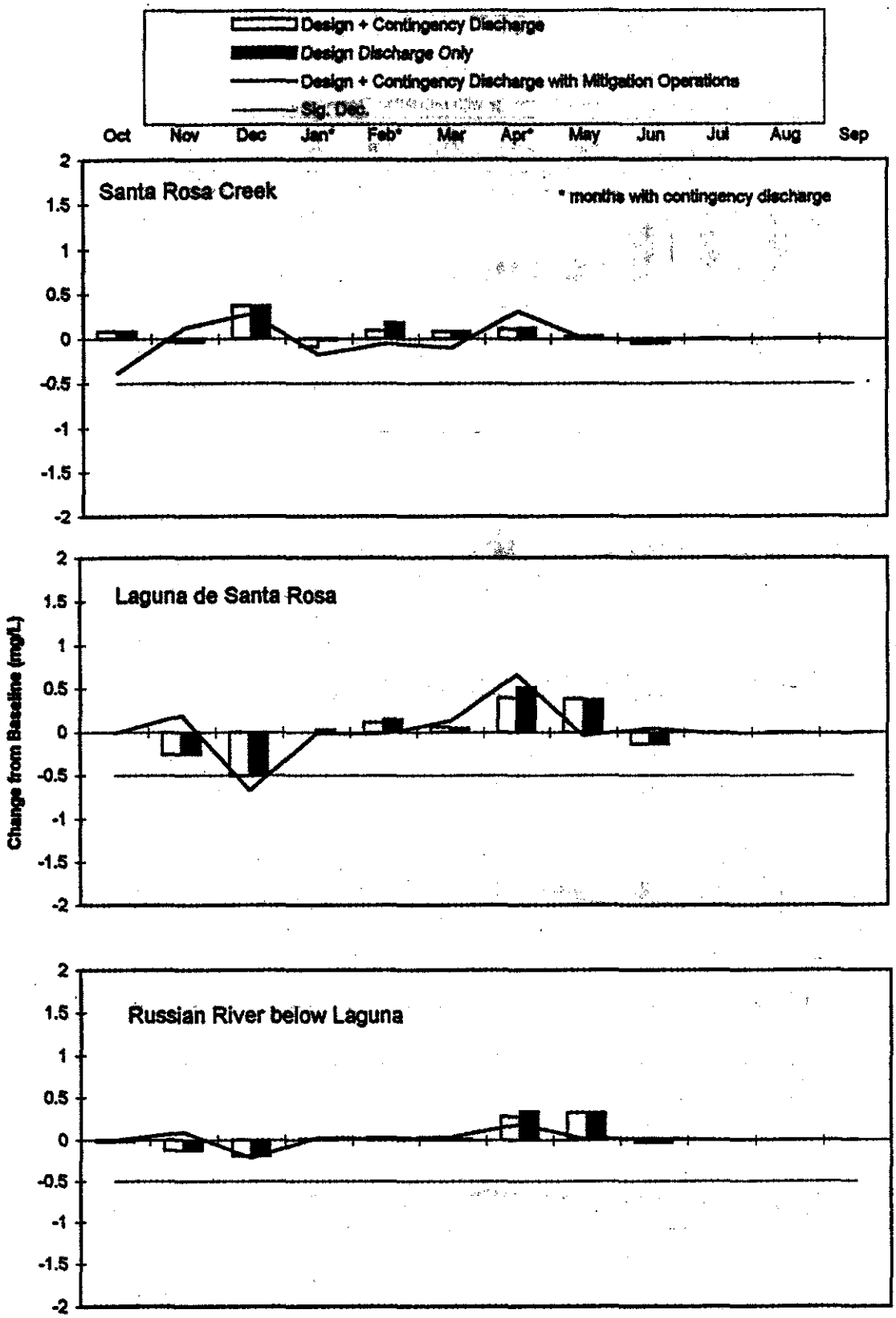

Figure 4-52. Contingency Discharge Impacts on Dissolved Oxygen - 20% Russian River Discharge Component

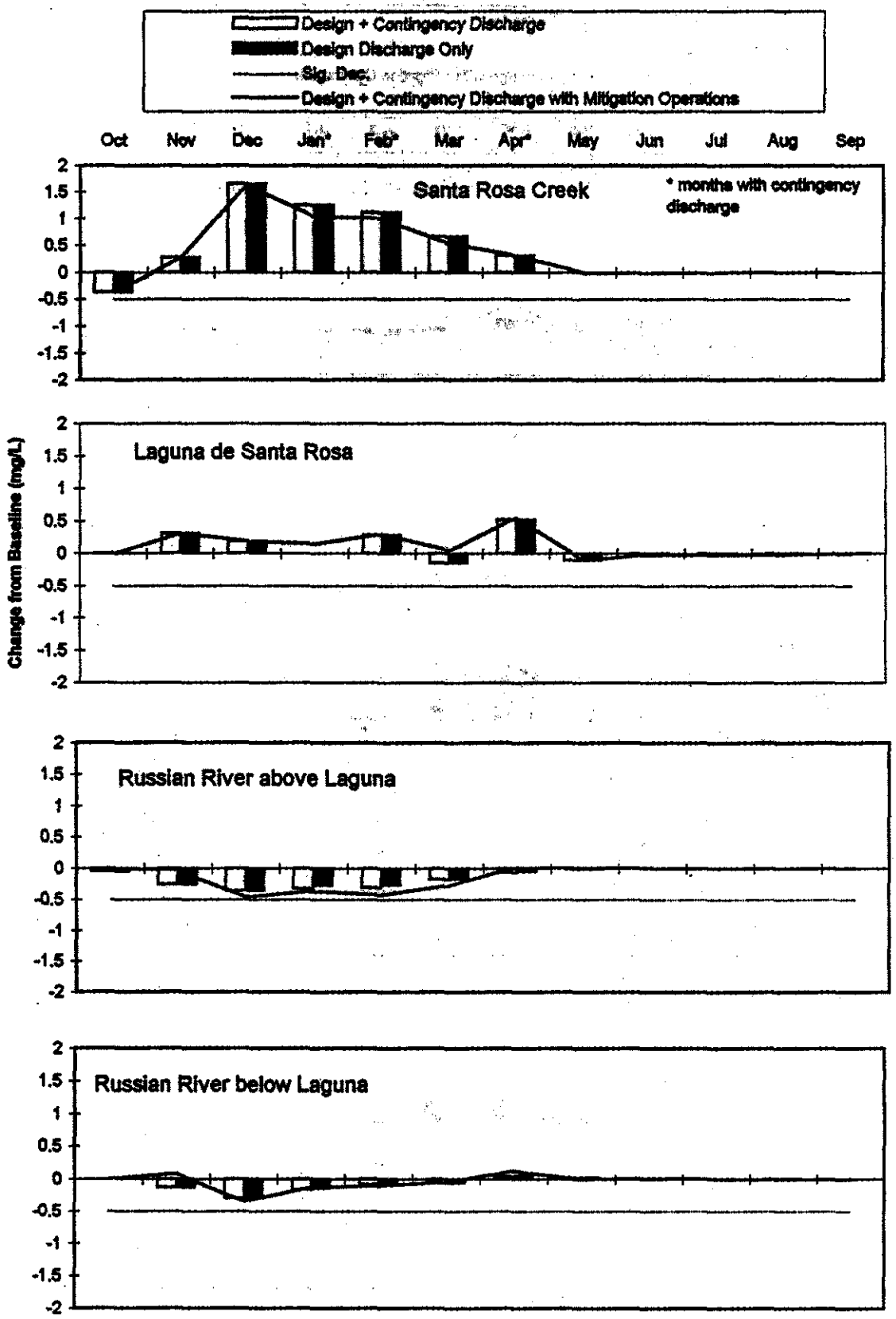

Figure 4-53. Contingency Discharge Impacts on Ammonia - 10% Discharge Component

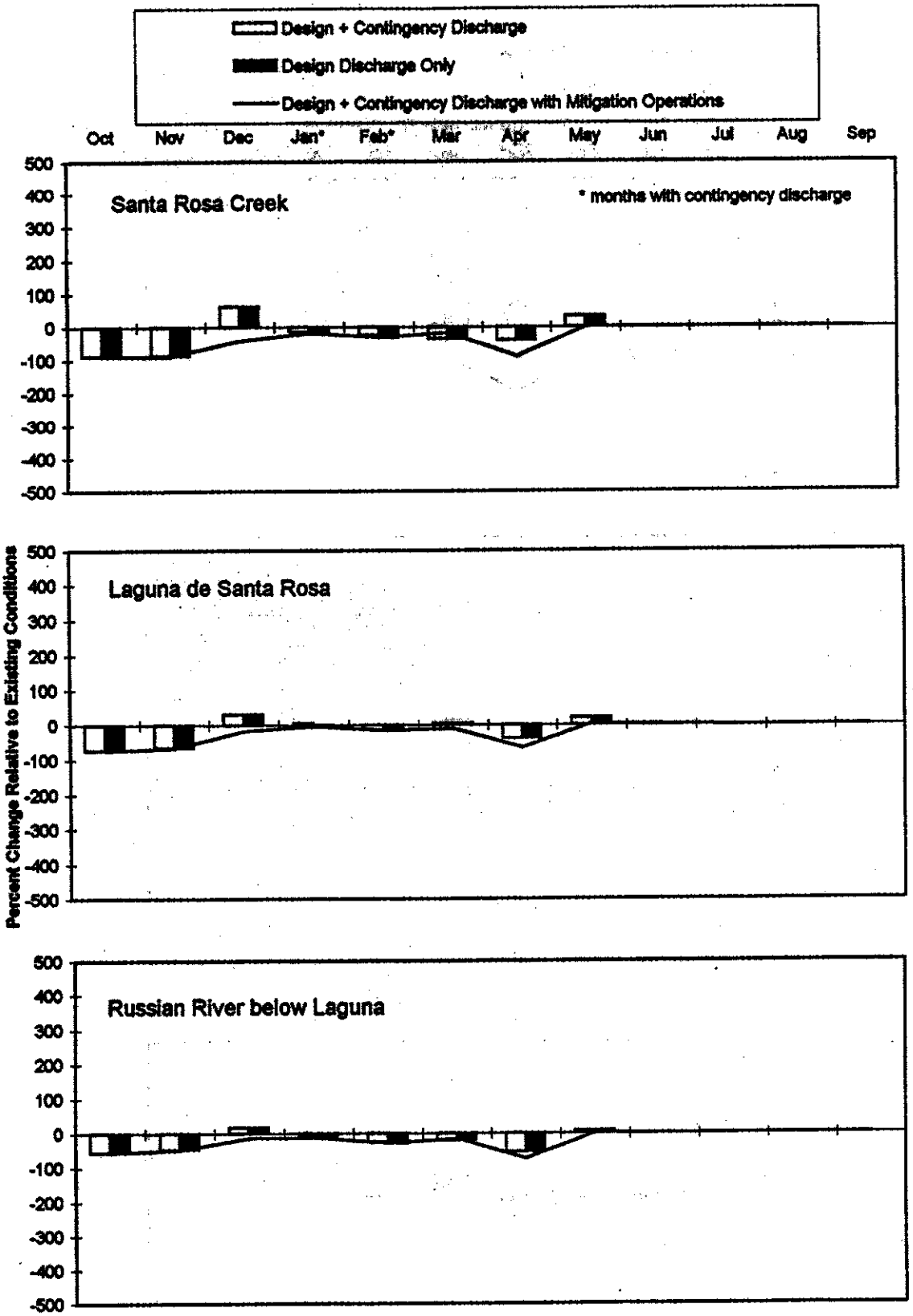

Figure 4-54. Contingency Discharge Impacts on Ammonia - 20% Discharge Component

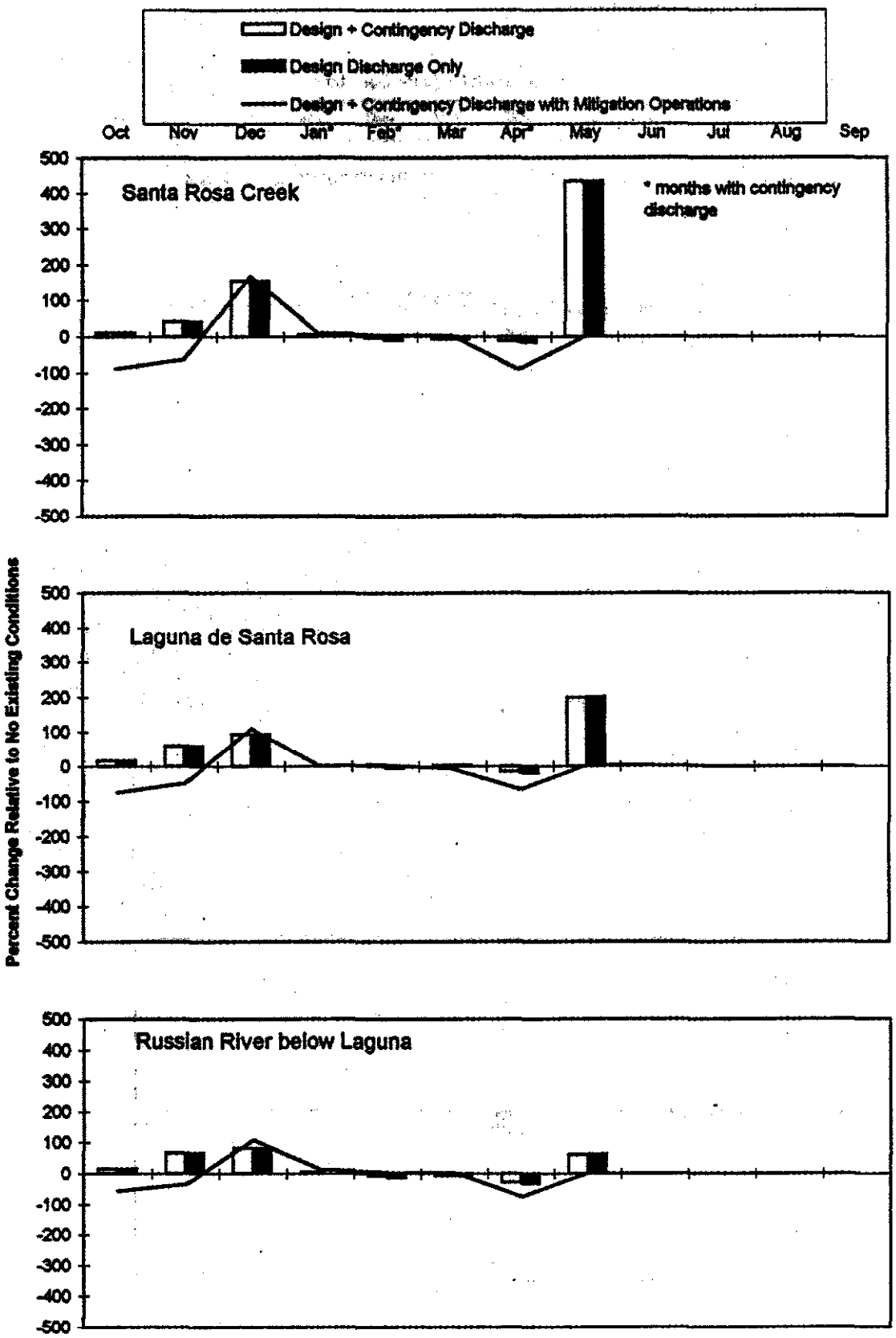

Figure 4-55. Contingency Discharge Impacts on Ammonia - 20% Russian River Discharge Component

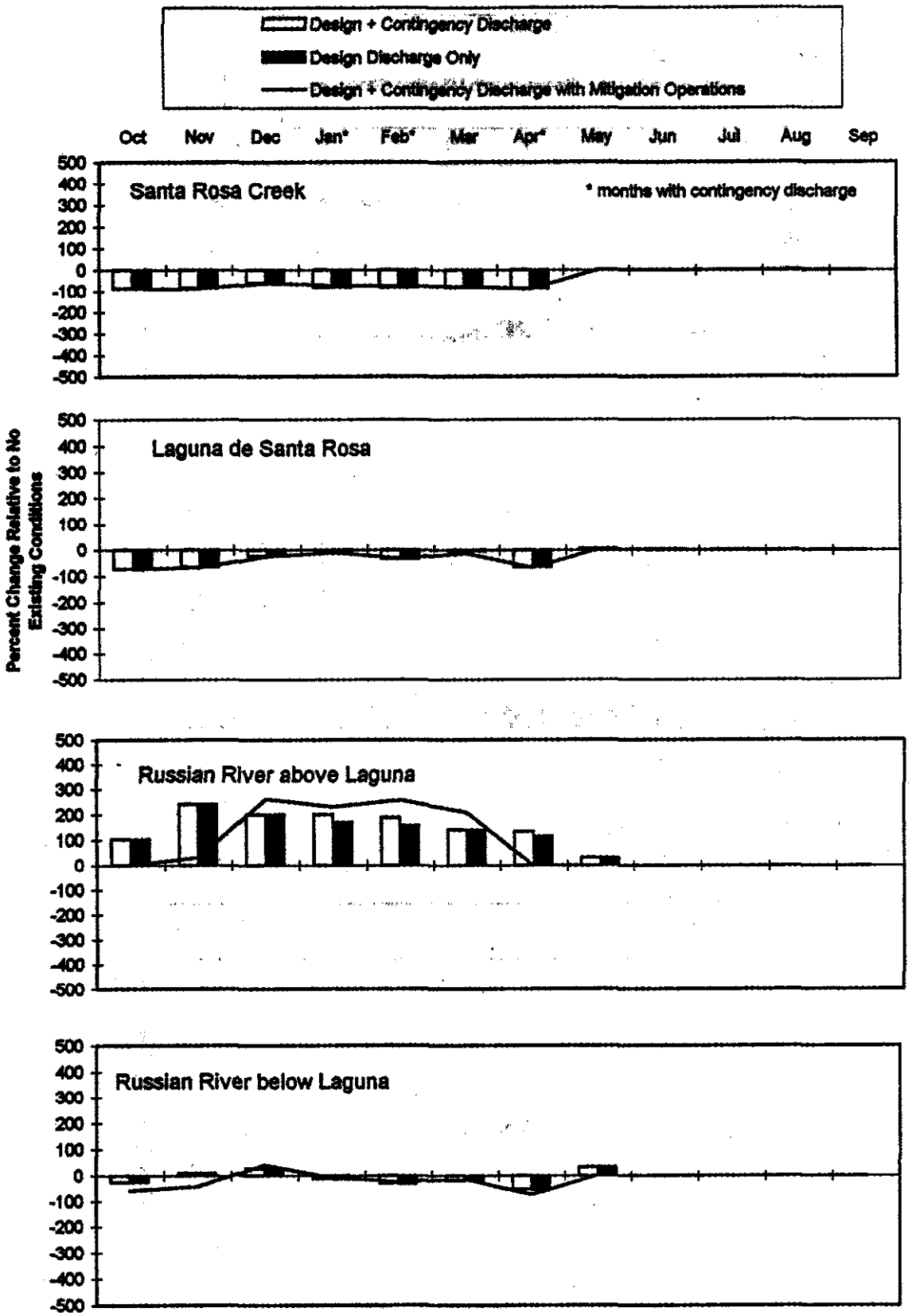

Figure 4-56. Contingency Discharge Impacts on Temperature - 10% Discharge Component

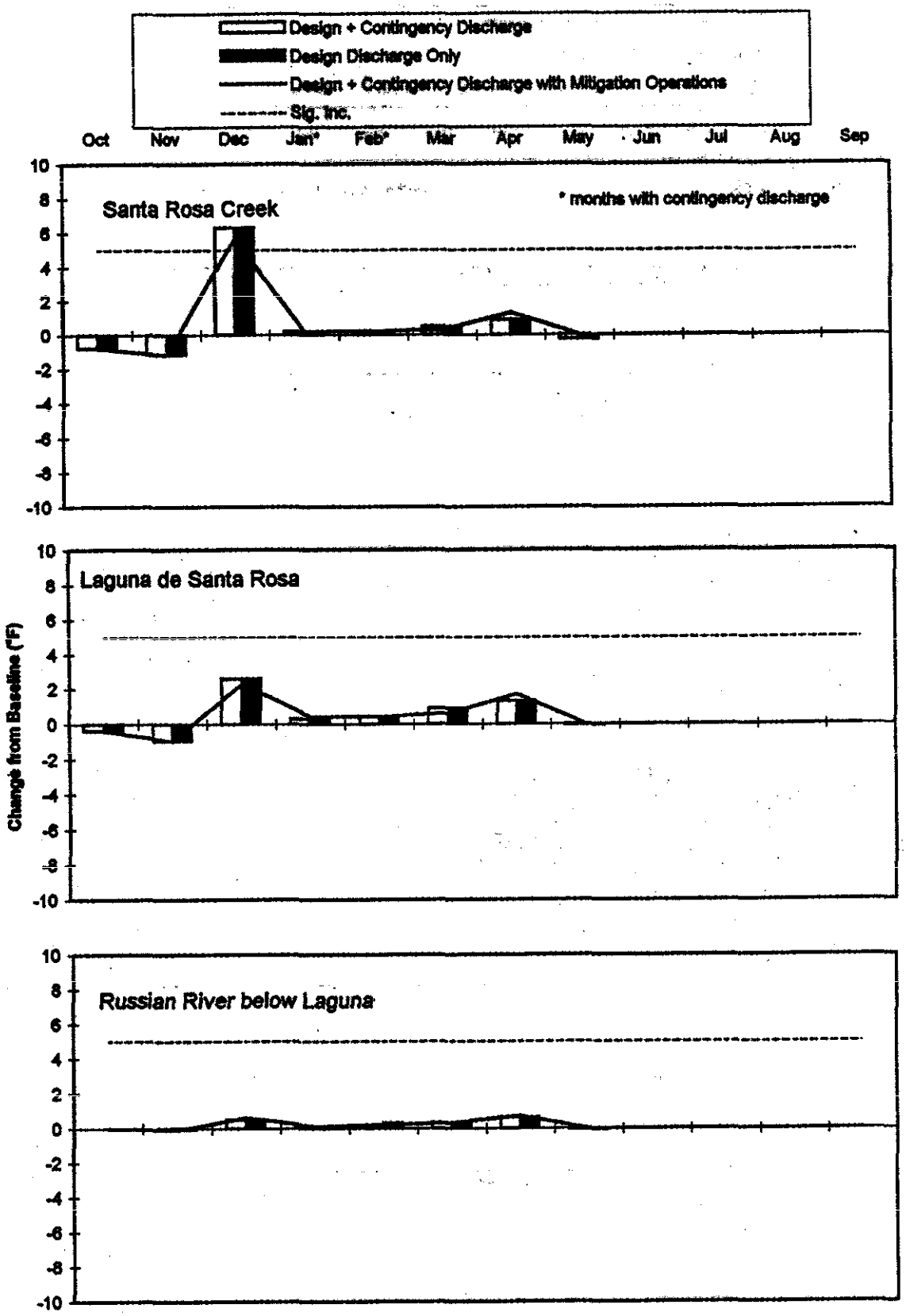

Figure 4-57. Contingency Discharge Impacts on Temperature - 20% Discharge Component

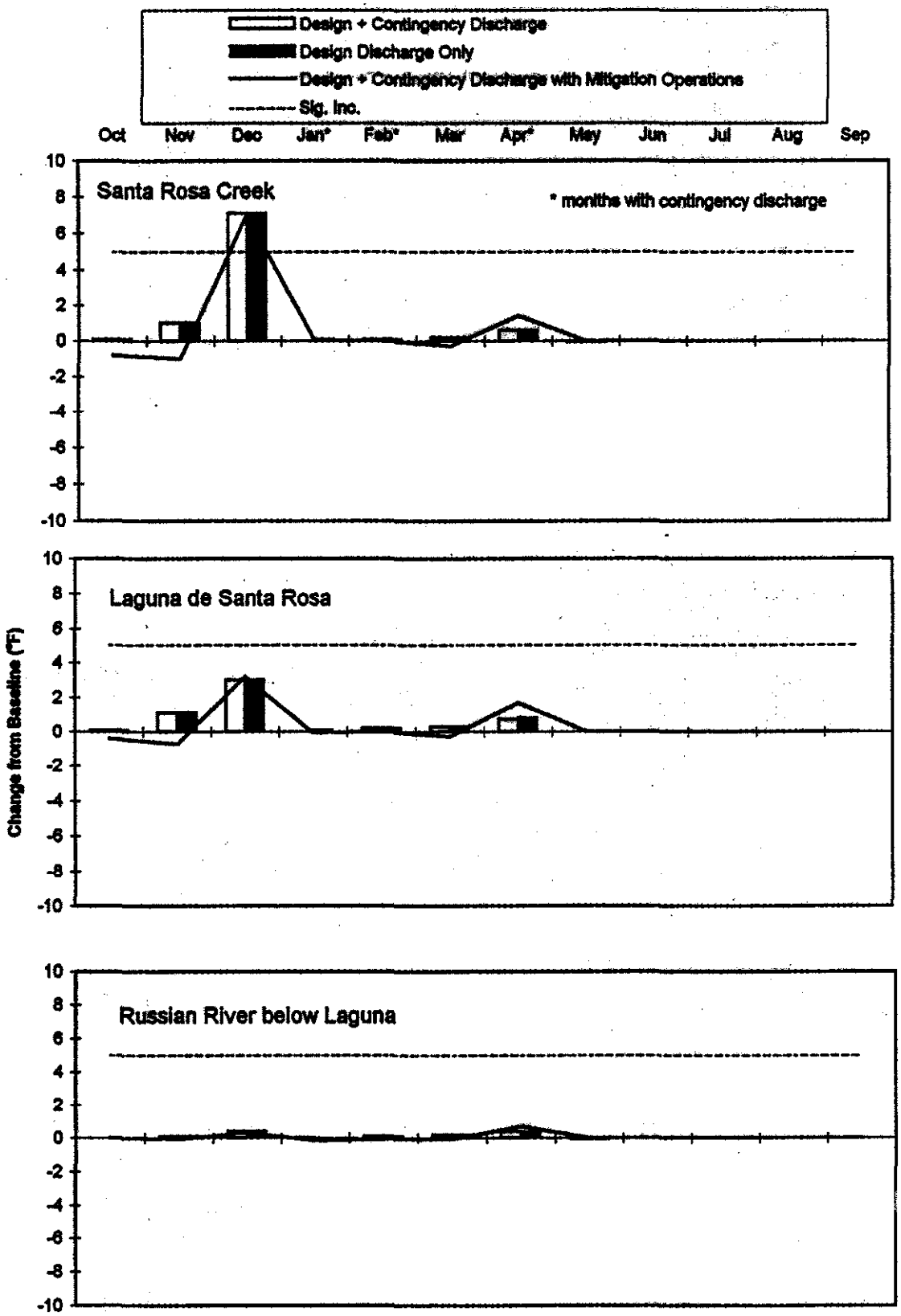

Figure 4-57. Contingency Discharge Impacts on Temperature - 20% Discharge Component

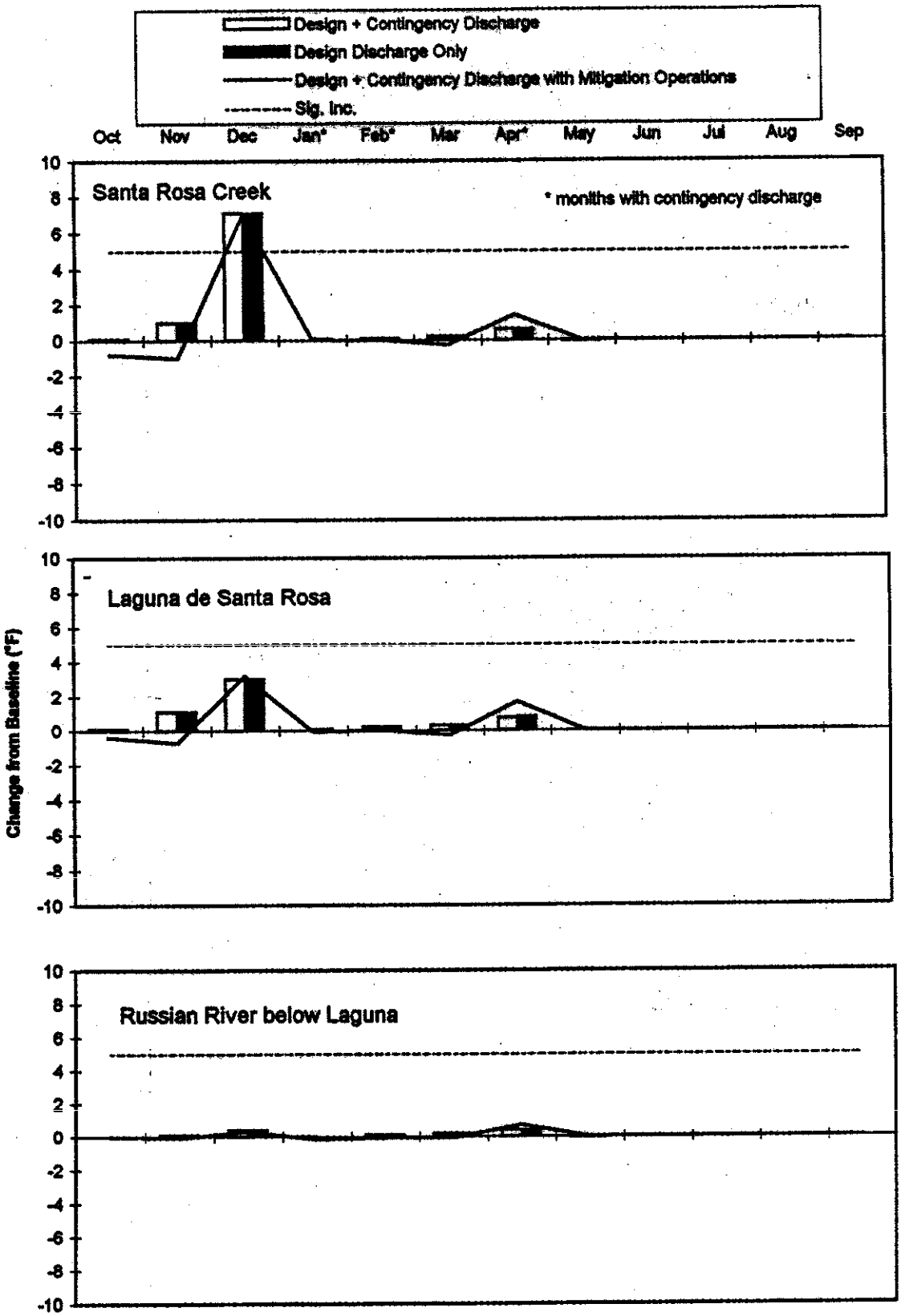

Figure 4-58. Contingency Discharge Impacts on Temperature - 20% Russian River Discharge Component

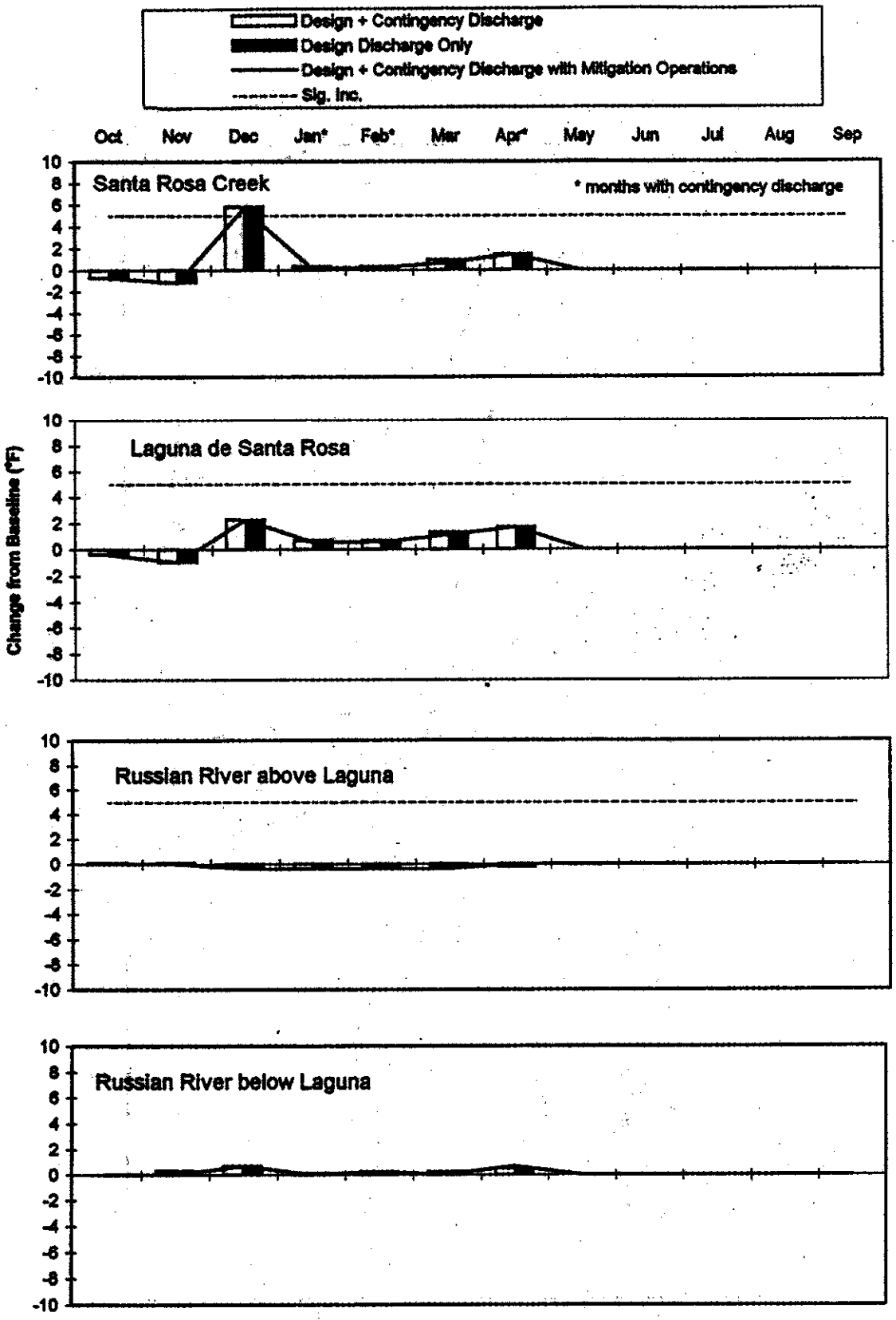

Figure 4-24. Distribution of Reclaimed Water Concentrations During the Discharge Season in a dry year (1976)
Santa Rosa Creek - Mitigation Operation

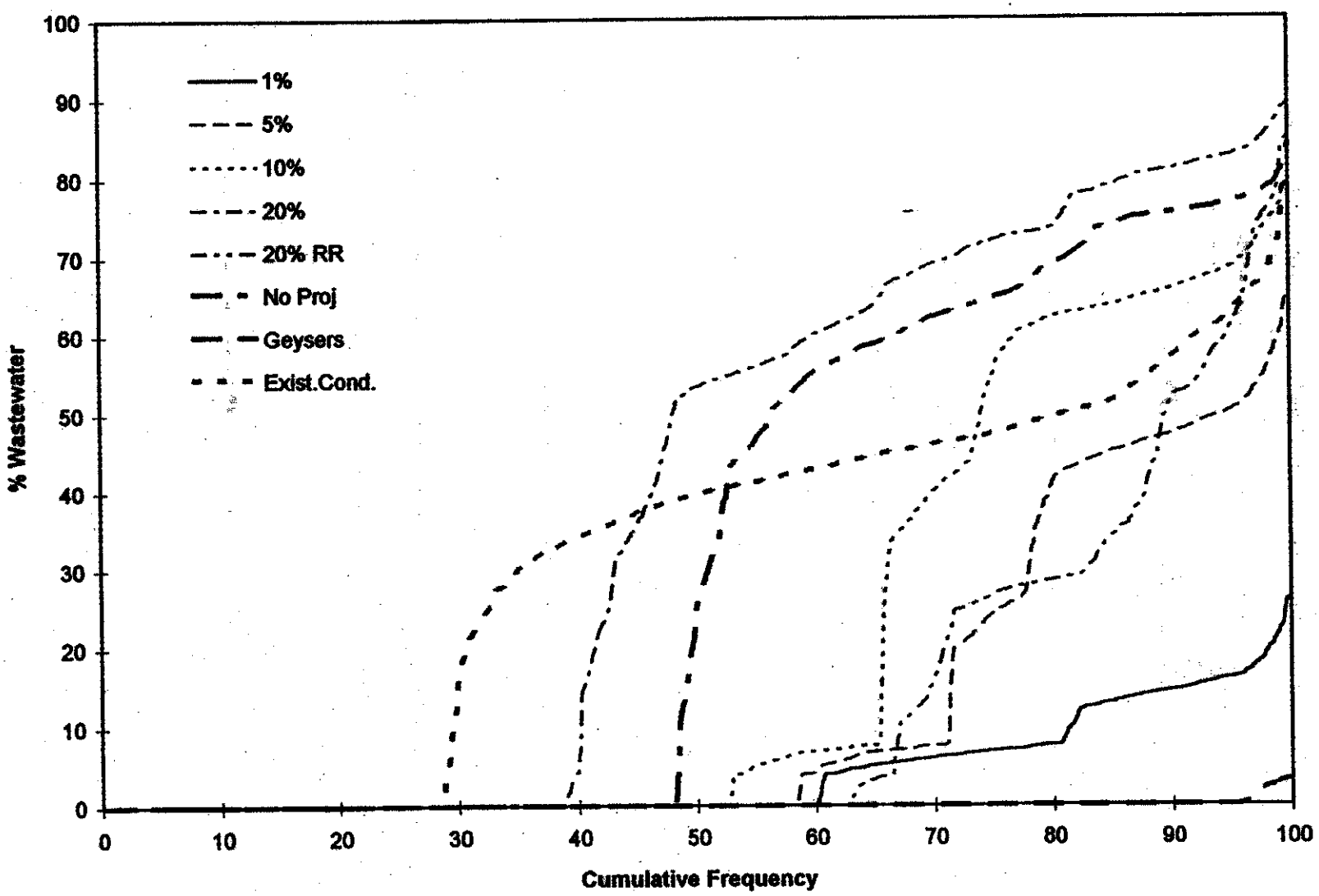

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Figure 4-25. Distribution of Reclaimed Water Concentrations During the Discharge Season in a normal year (1961)
Santa Rosa Creek - Mitigation Operation

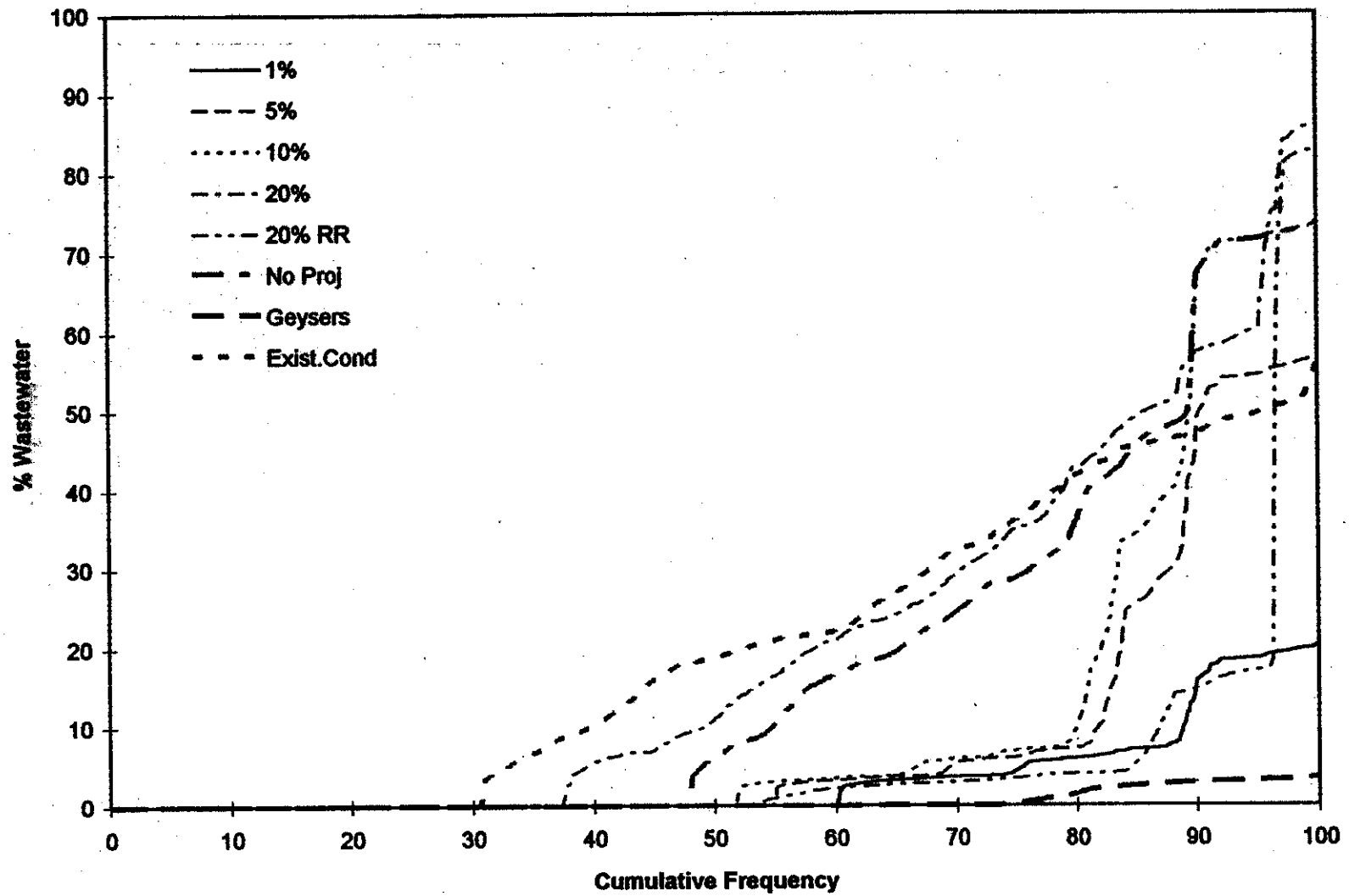

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Figure 4-26. Distribution of Reclaimed Water Concentrations During the Discharge Season in a wet year (1982)
Santa Rosa Creek - Mitigation Operation

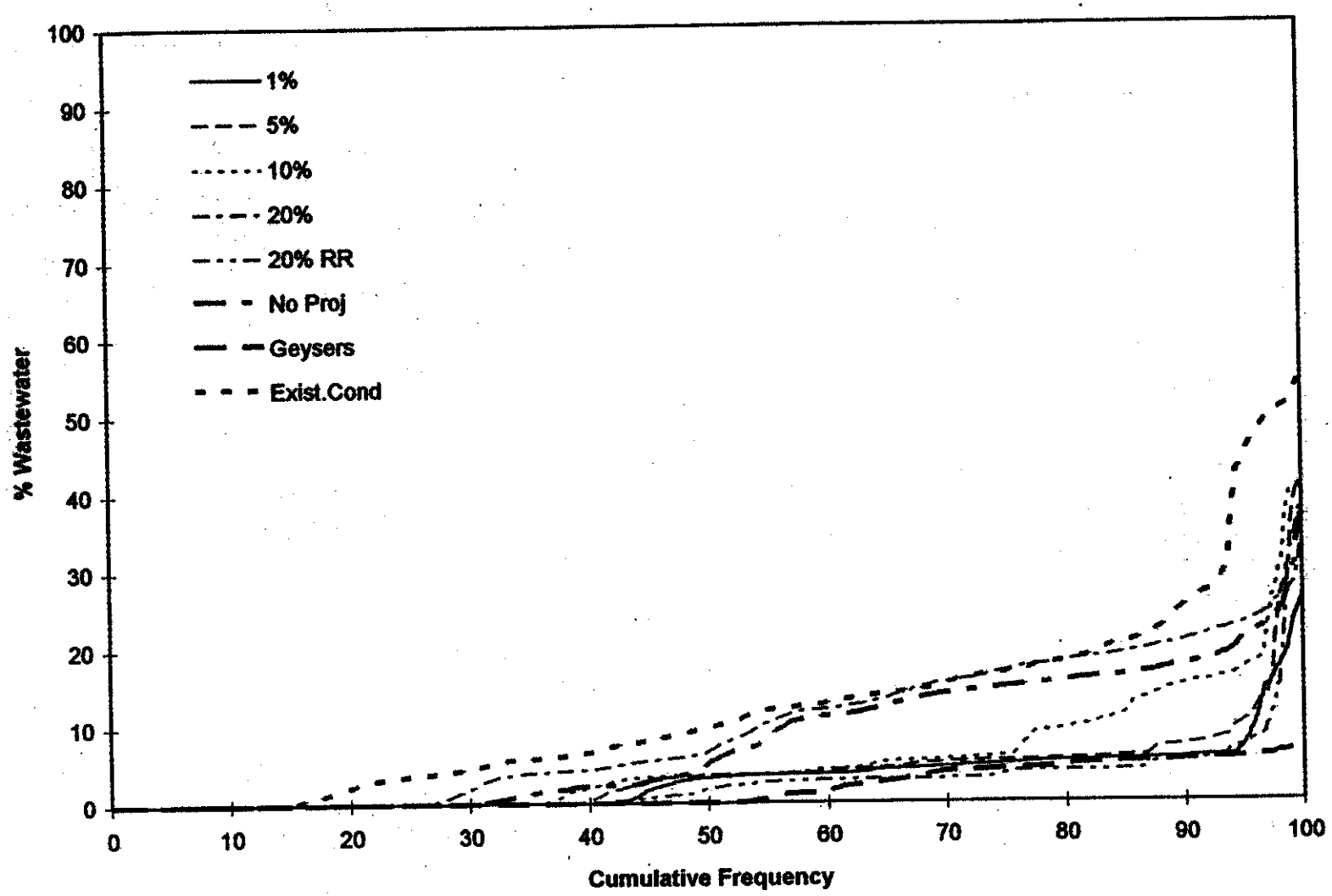

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Figure 4-28. Distribution of Reclaimed Water Concentrations During the Discharge Season in a normal year (1961)

Laguna de Santa Rosa - Mitigation Operation

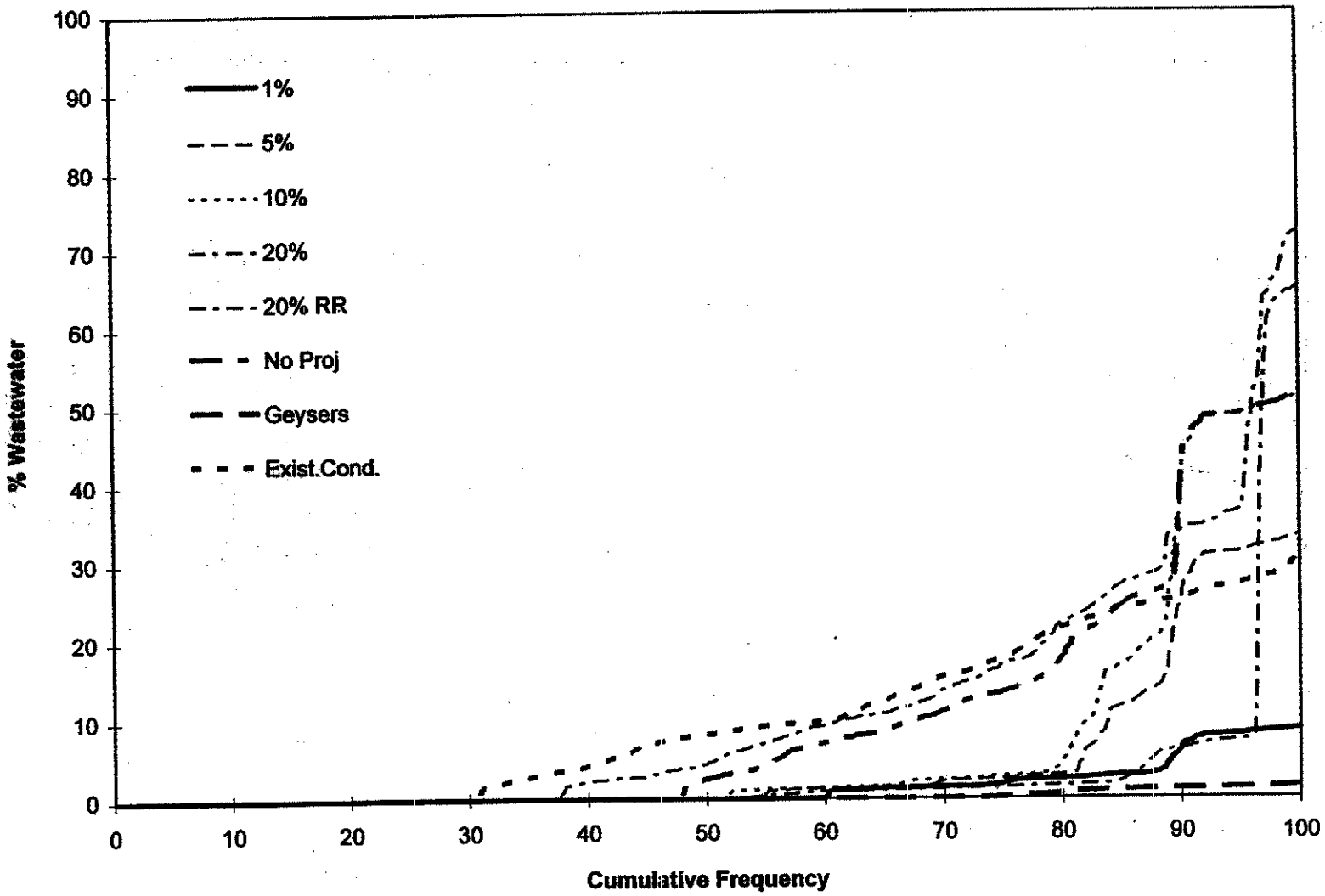

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Figure 4-27. Distribution of Reclaimed Water Concentrations During the Discharge Season in a dry year (1976)
Laguna de Santa Rosa - Mitigation Operation

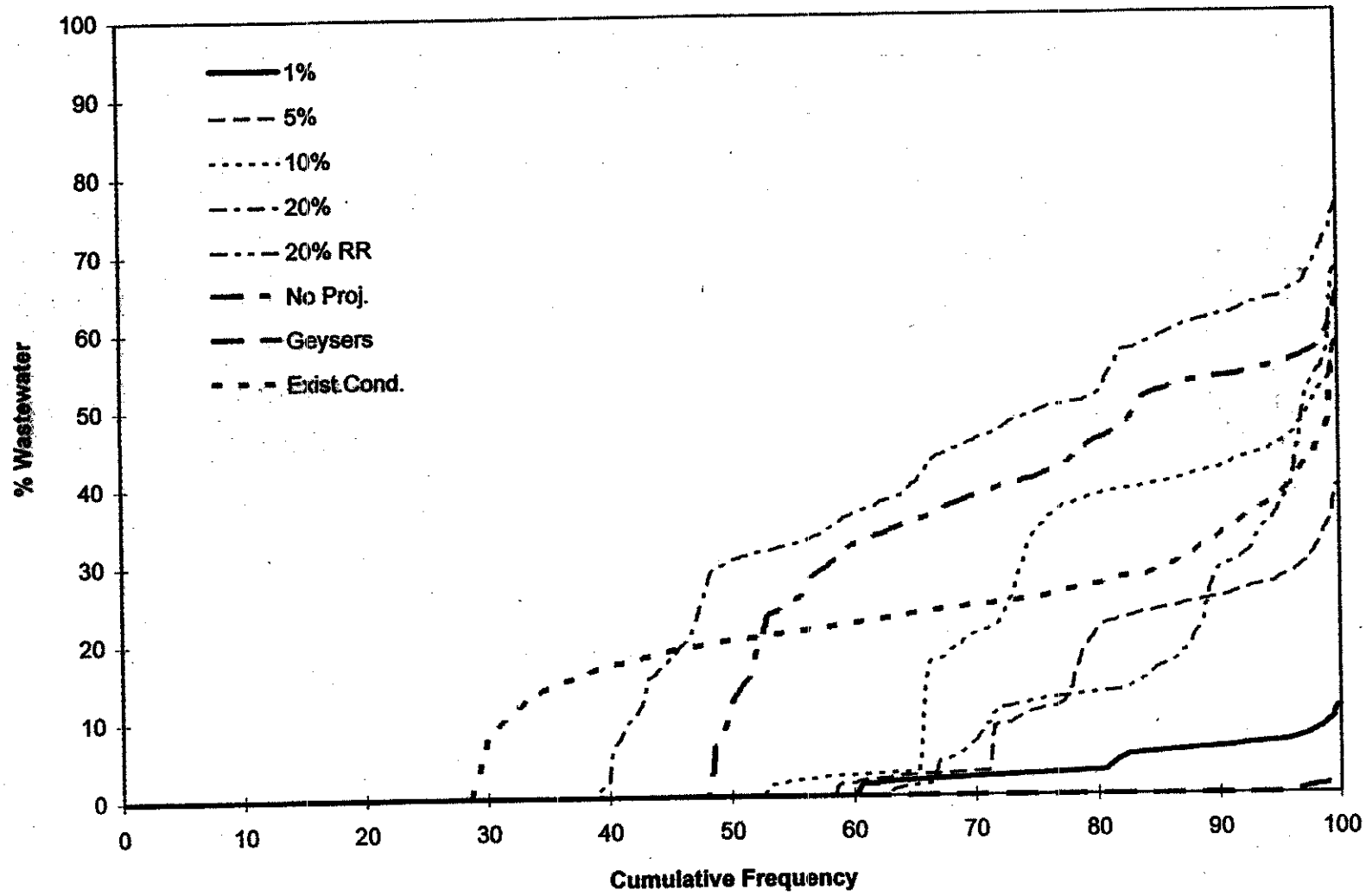

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Figure 4-29. Distribution of Reclaimed Water Concentrations During the Discharge Season in a wet year (1982)
Laguna de Santa Rosa - Mitigation Operation

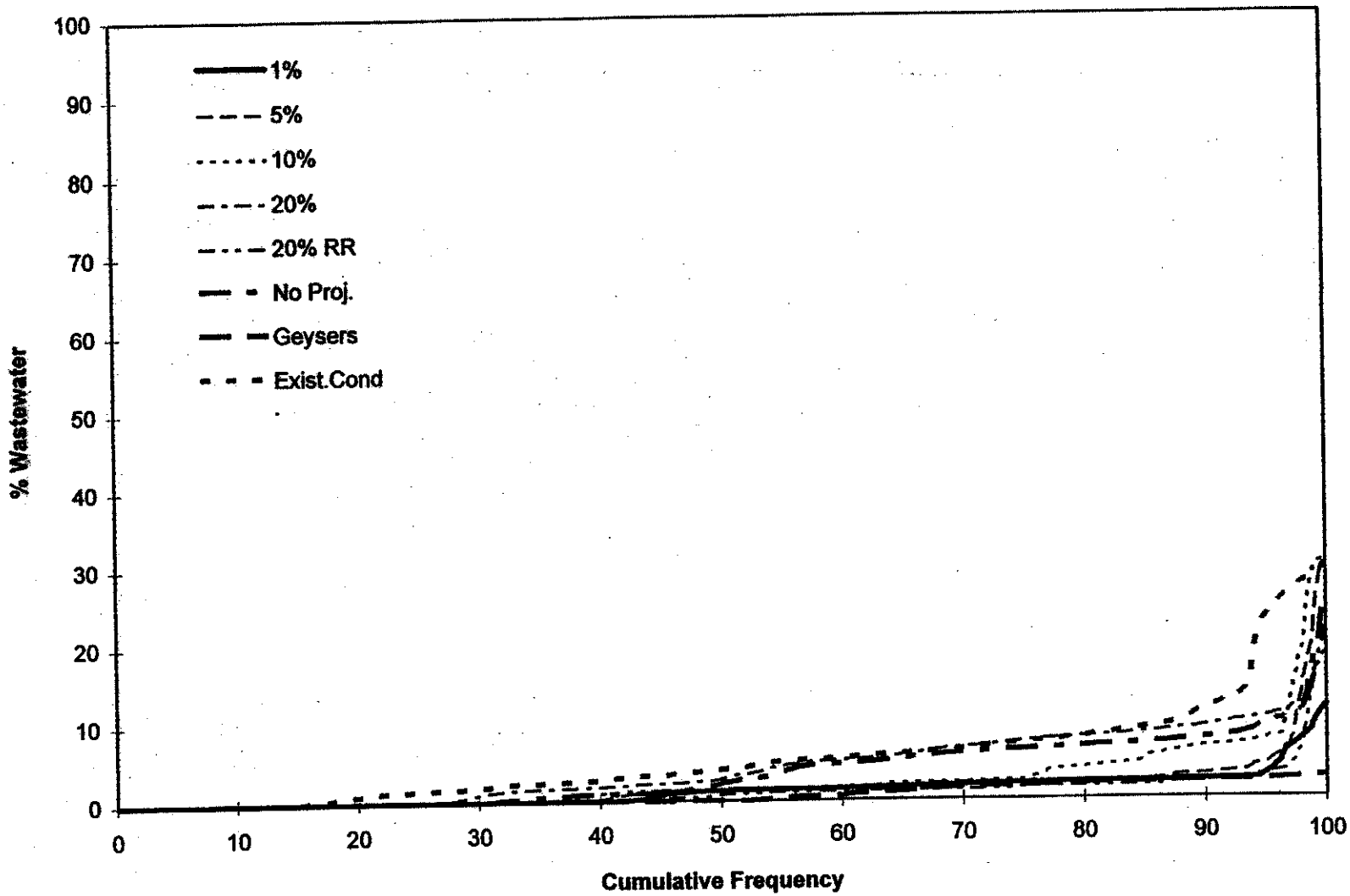

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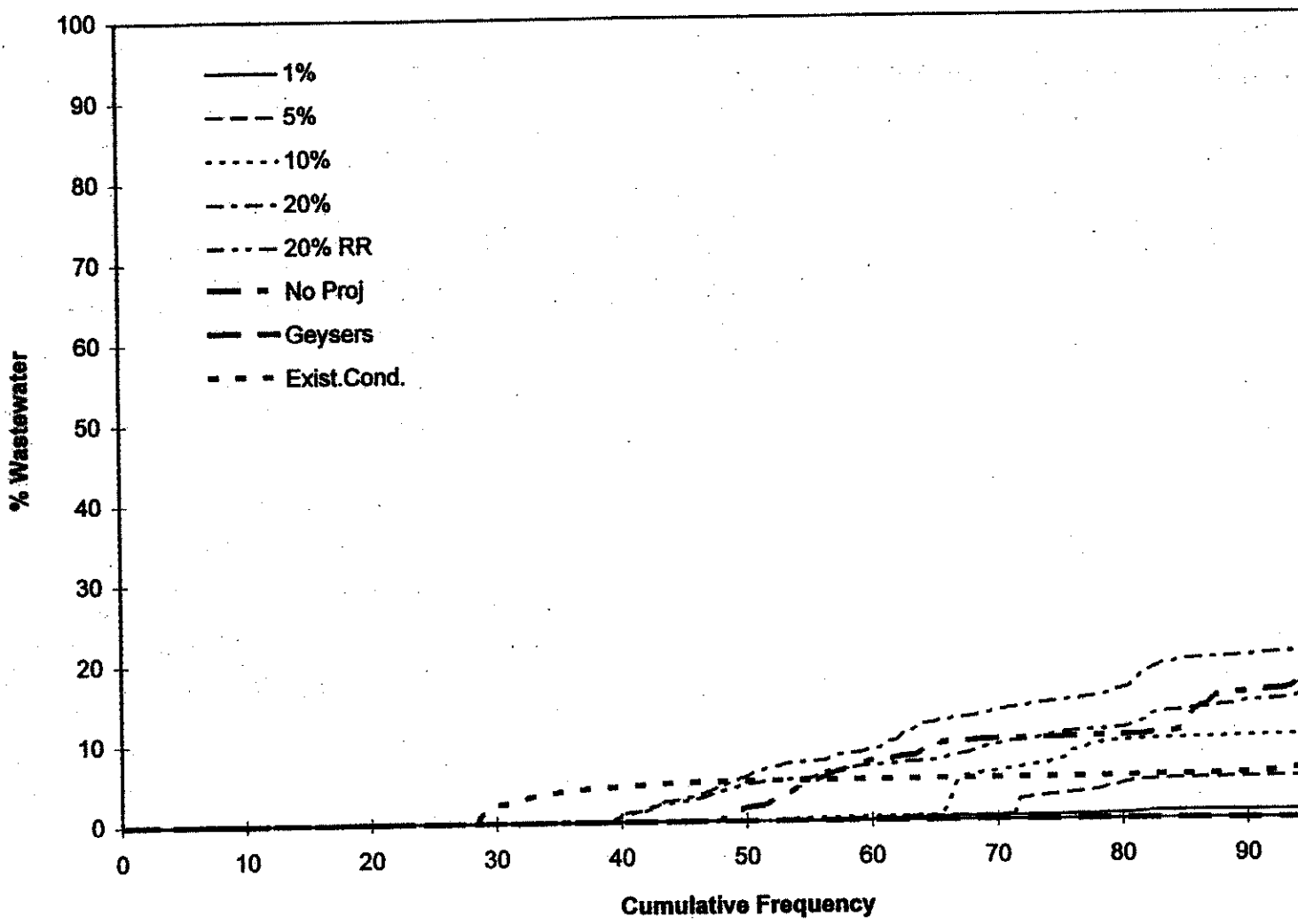
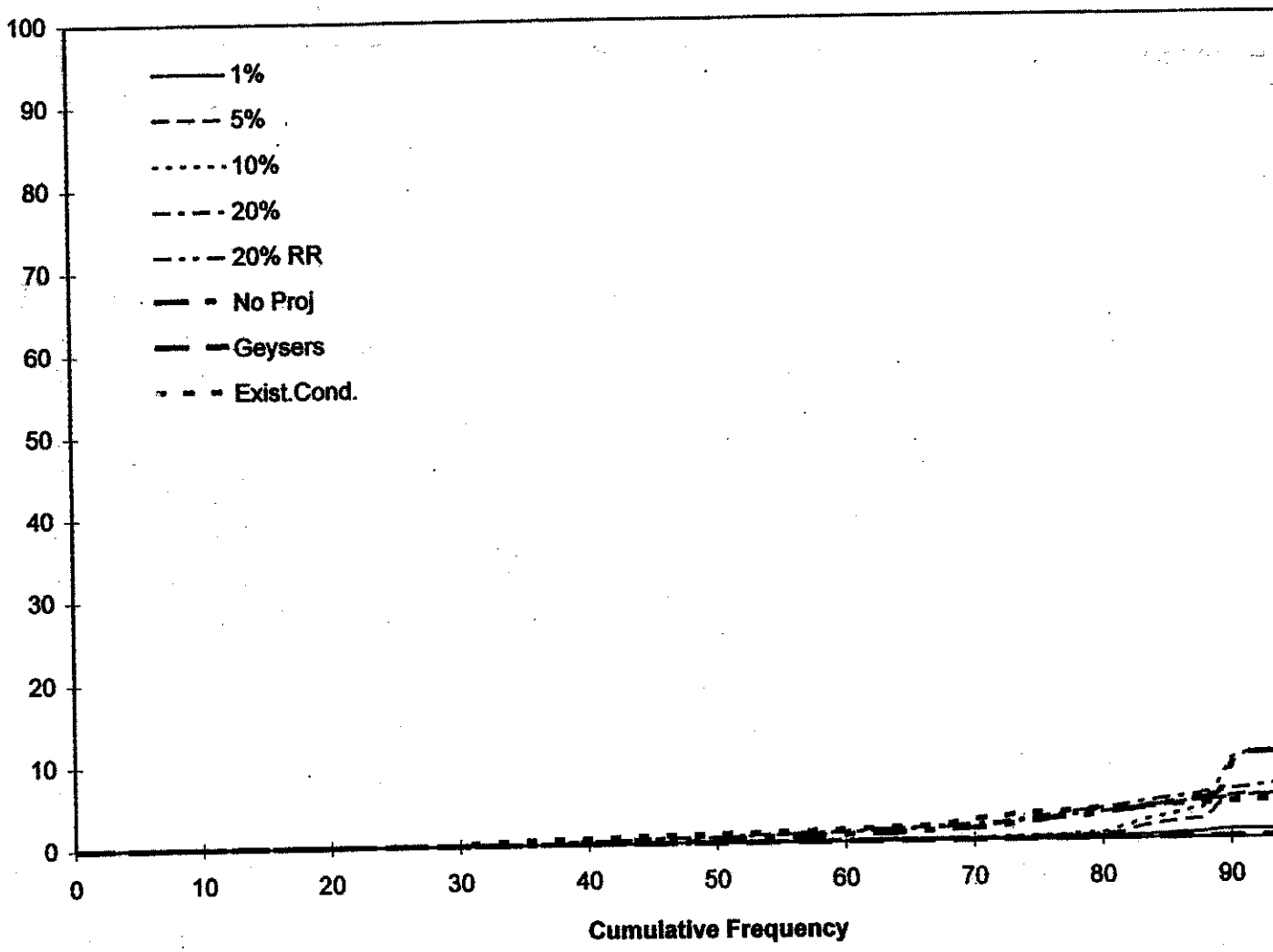
Figure 4-30. Distribution of Reclaimed Water Concentrations During the Discharge Season i
Russian River Below Laguna - Mitigation Operation



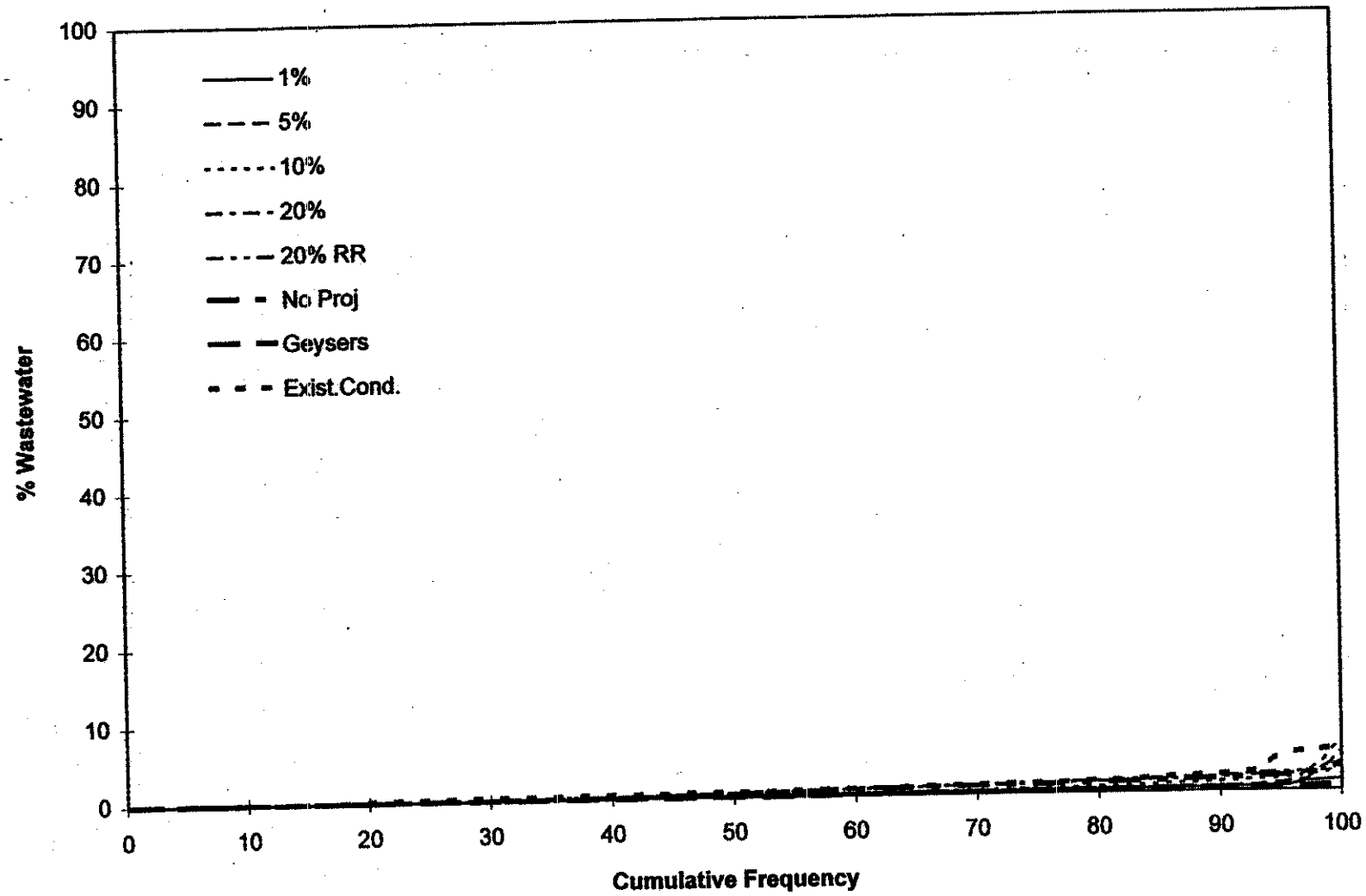
RRO76A.XLS

Figure 4-31. Distribution of Reclaimed Water Concentrations During the Discharg
in a normal year (1961)
Russian River Below Laguna - Mitigation Operation



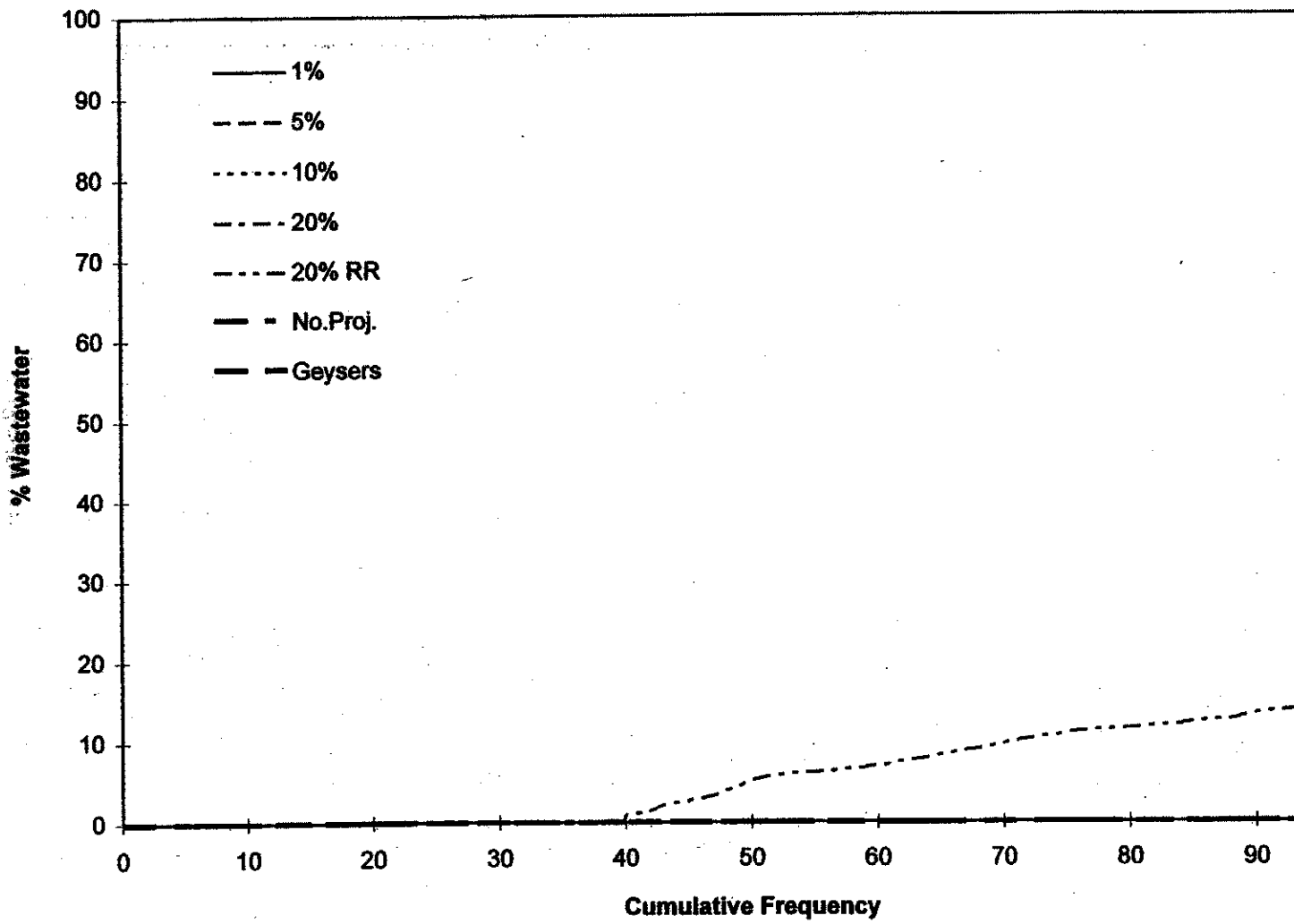
RRO61A.XLS

Figure 4-32. Distribution of Reclaimed Water Concentations During the Discharge Season in a wet year (1982)
Russian River Below Laguna - Mitigation Operations



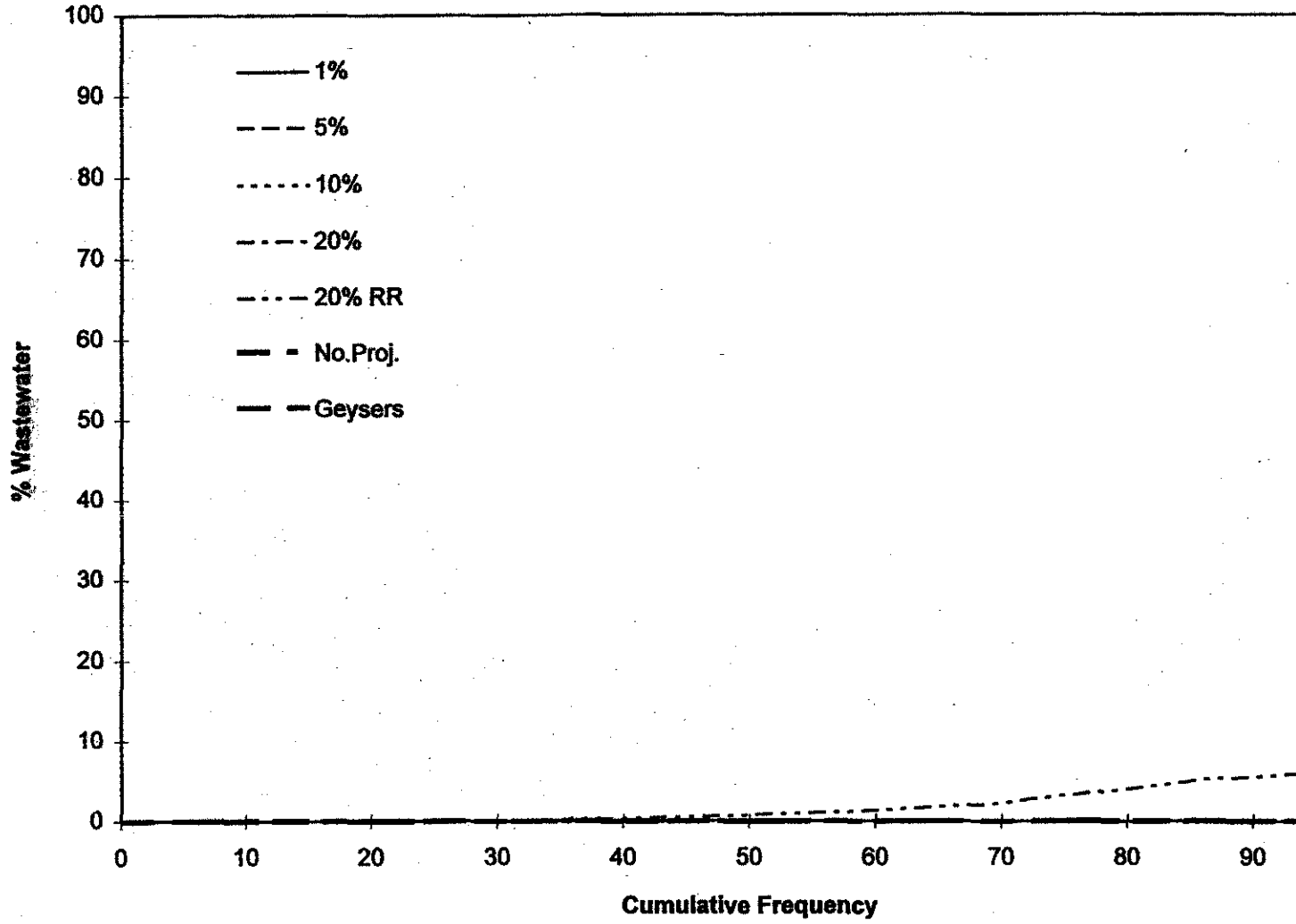
RRO82A.XLS

Figure 4-33. Distribution of Reclaimed Water Concentrations During the Discharge Season
Russian River Above Laguna - Mitigation Operation



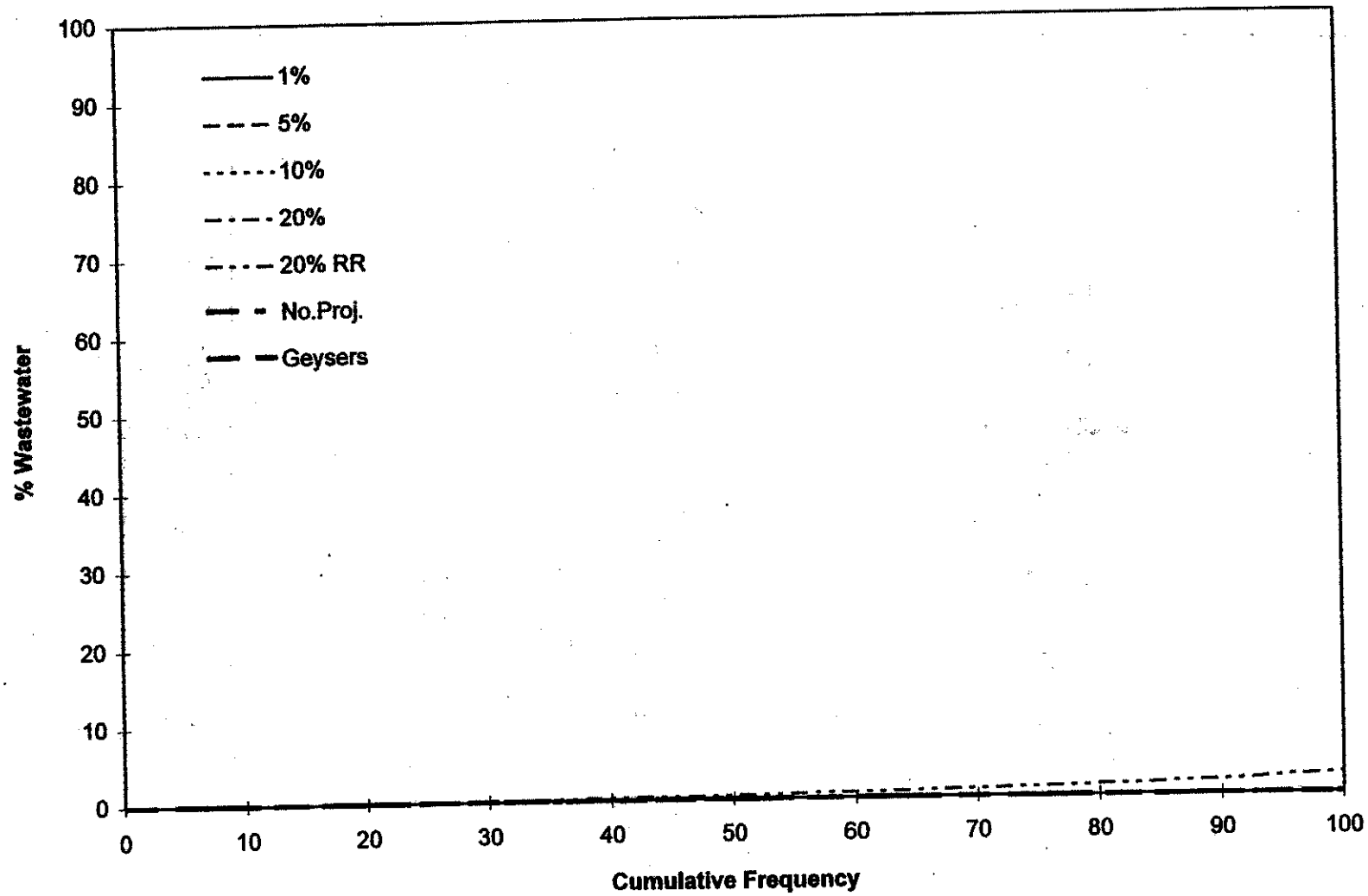
RRL76A.XLS

Figure 4-34. Distribution of Reclaimed Water Concentrations During the Discha
in a normal year (1961)
Russian River Above Laguna - Mitigation Operation



RRL61A.XLS

Figure 4-35. Distribution of Reclaimed Water Concentrations During the Discharge Season in a wet year (1982)
Russian River Above Laguna - Mitigation Operation



RRL82A.XLS

Figure 4-36. Discharge Impacts on Benthic Algae - 1% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

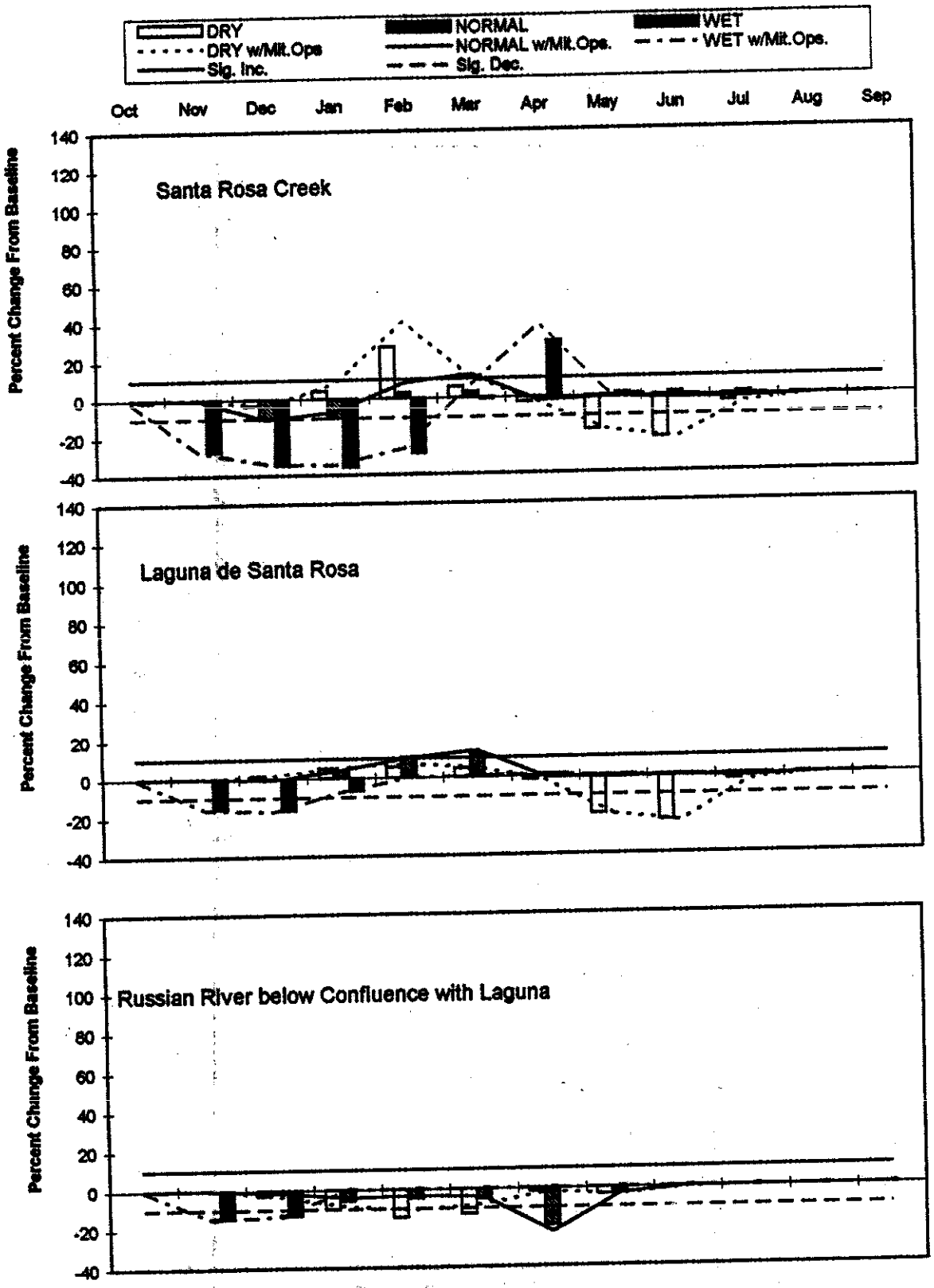


Figure 4-36. Discharge Impacts on Benthic Algae - 5% Discharge to Laguna de Santa Rosa
Existing Conditions Baseline - Project and Mitigation Operations

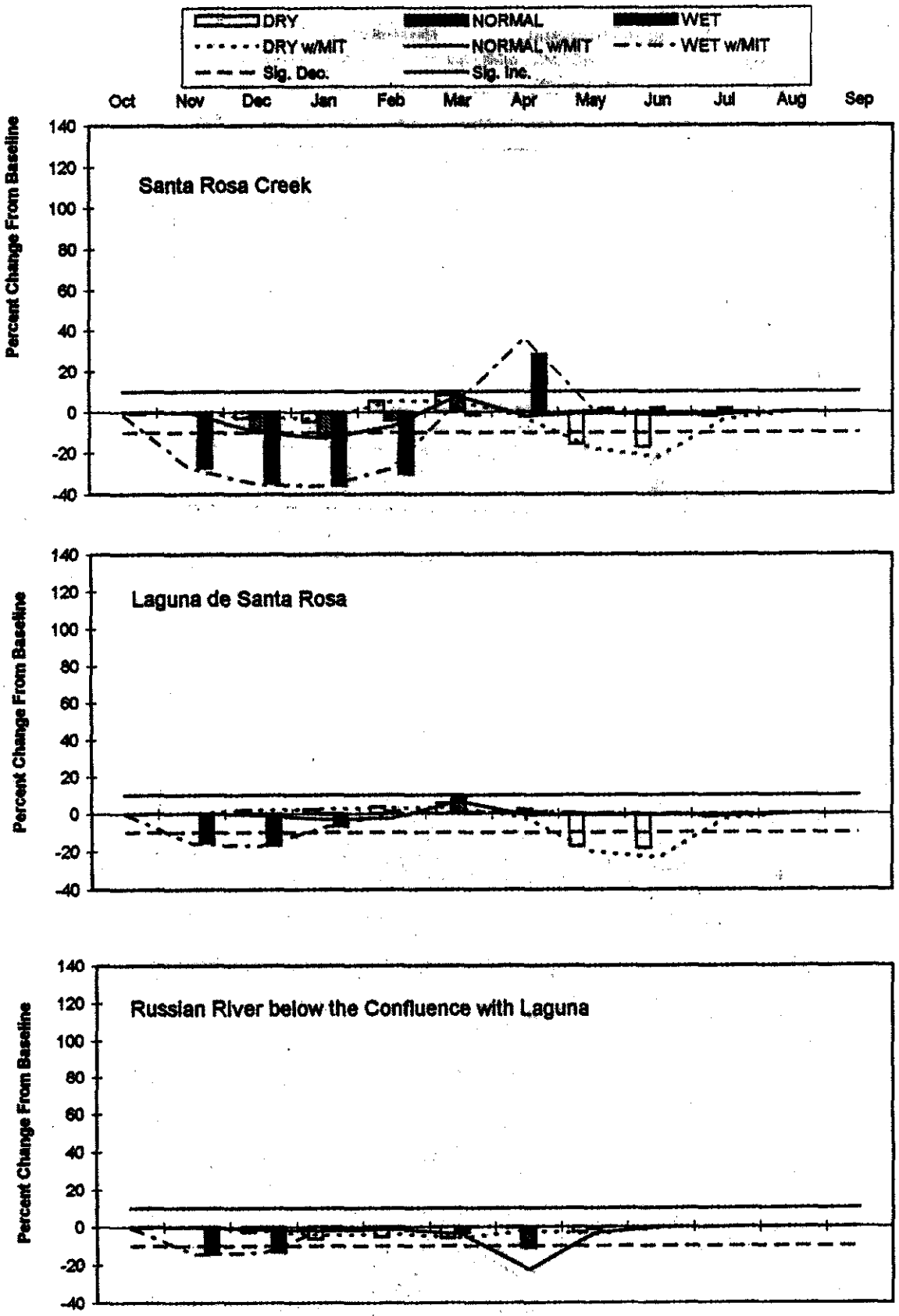


Figure 4-36. Discharge Impacts on Benthic Algae - 10% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

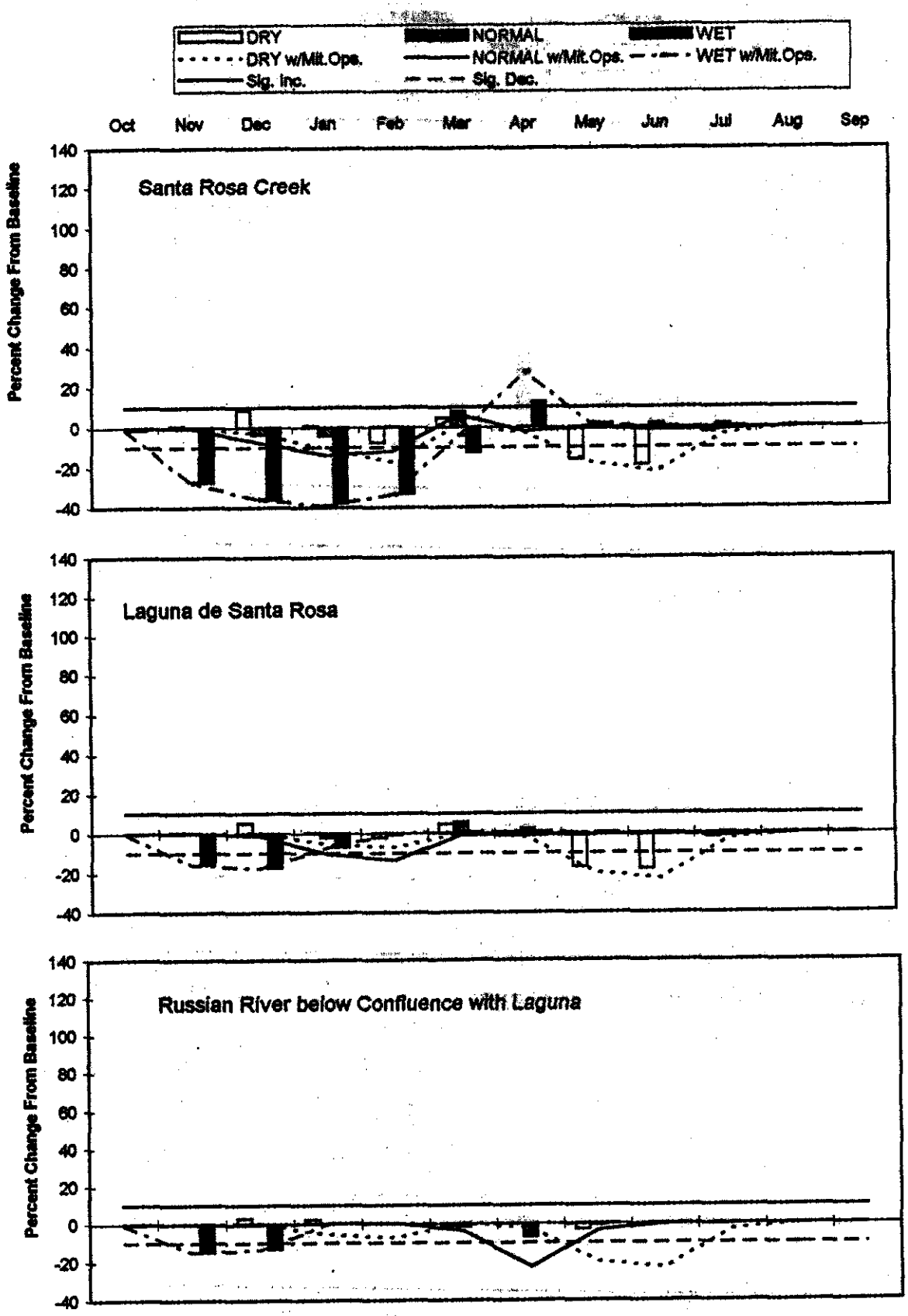


Figure 4-36. Discharge Impacts on Benthic Algae - 20% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

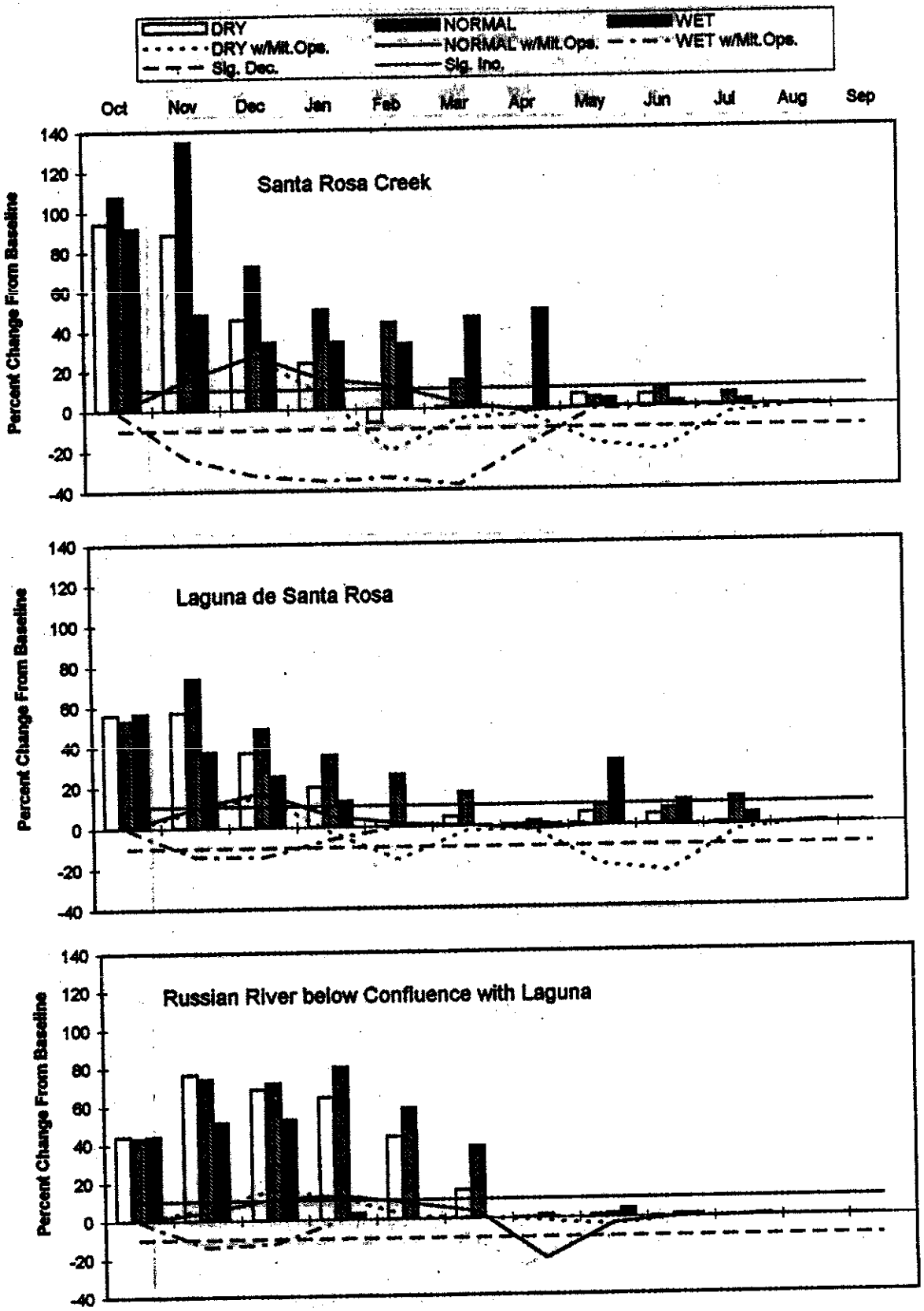


Figure 4-36. Discharge Impacts on Benthic Algae - No Project Alternative Existing Conditions Baseline - Project and Mitigation Operations

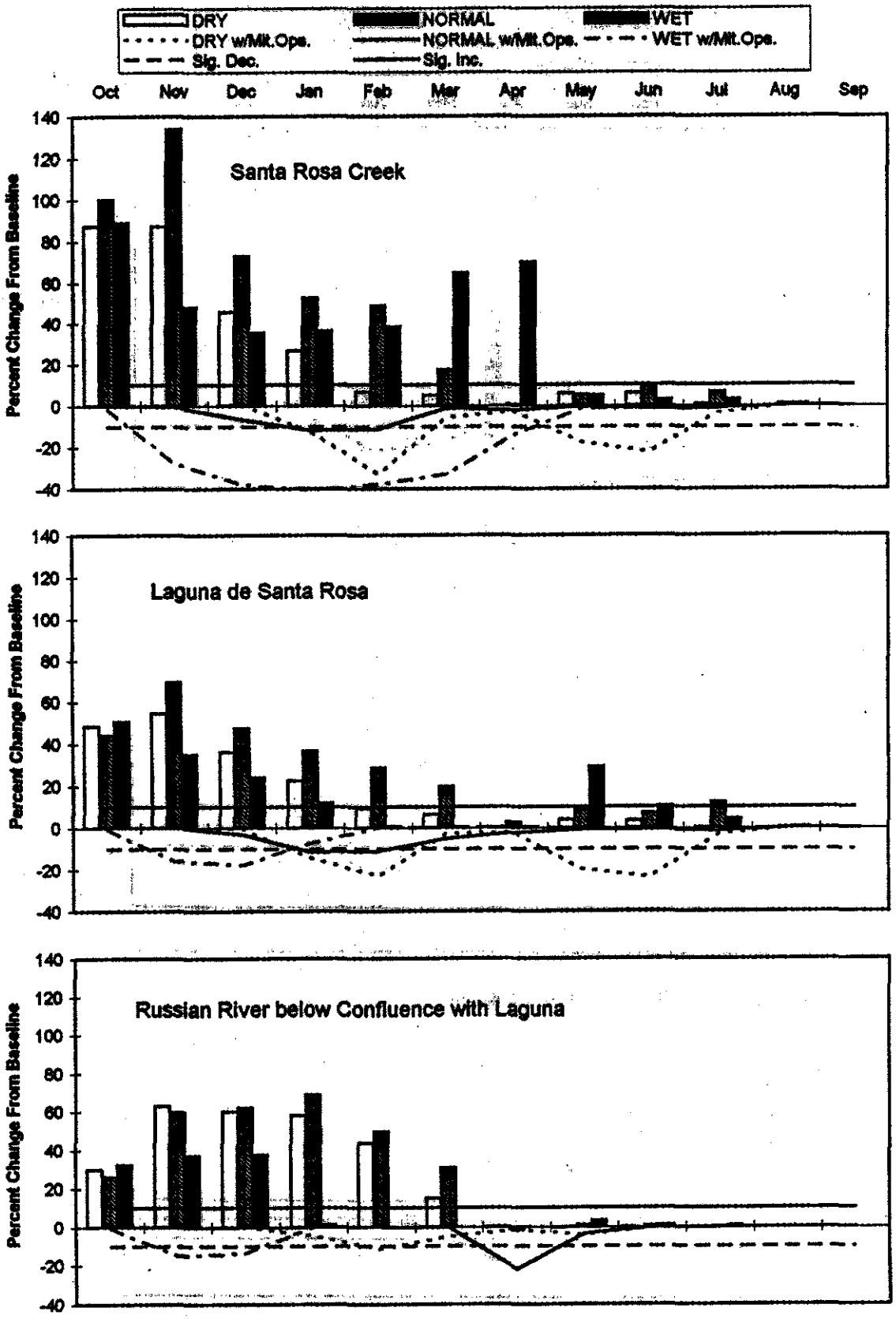


Figure 4-36. Discharge Impacts on Benthic Algae - Geysers Alternative Exising Conditions Baseline - Project and Mitigation Operations

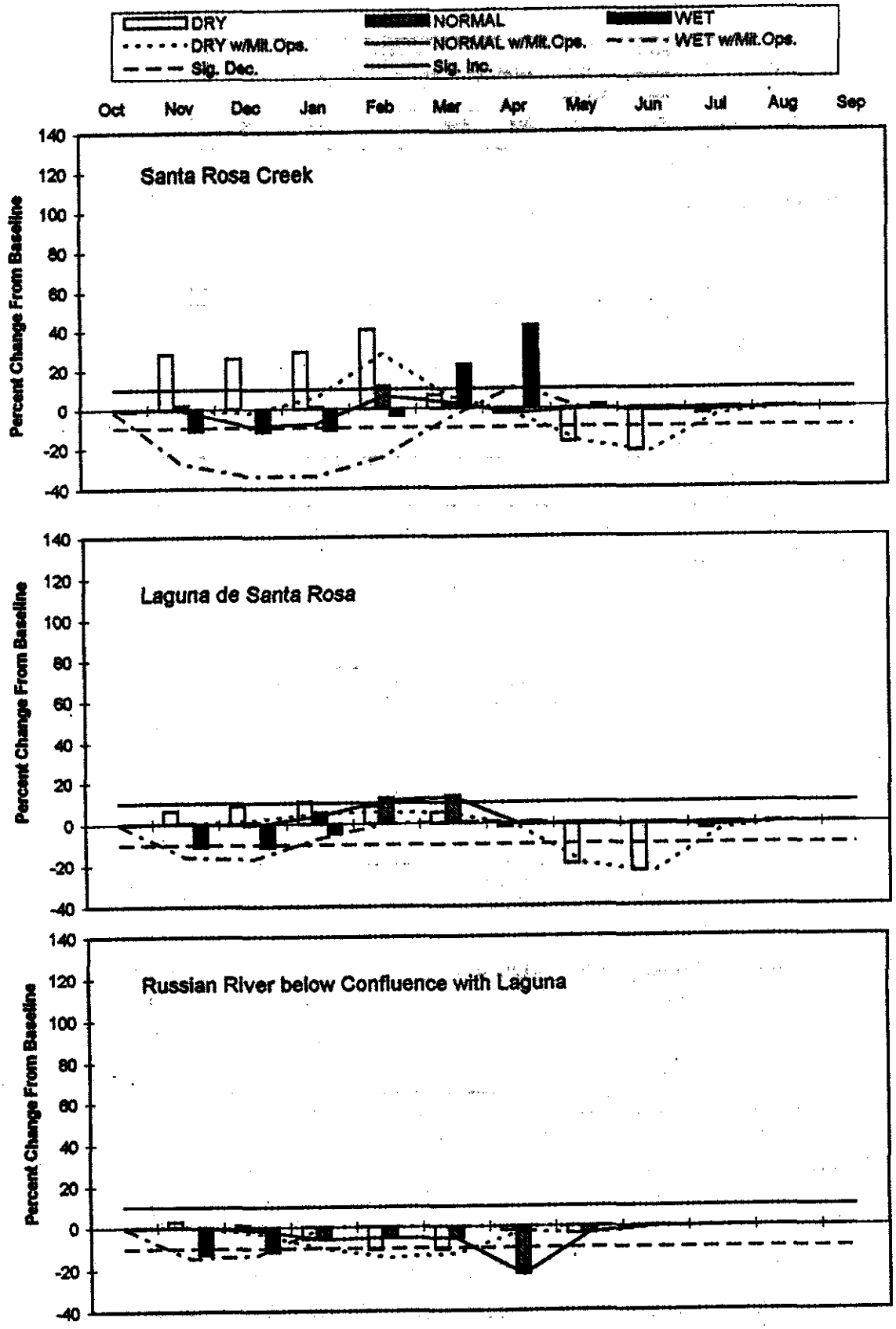


Figure 4-36. Discharge Impacts on Benthic Algae - 20% Discharge to Russian River Existing Conditions Baseline - Project and Mitigation Operations

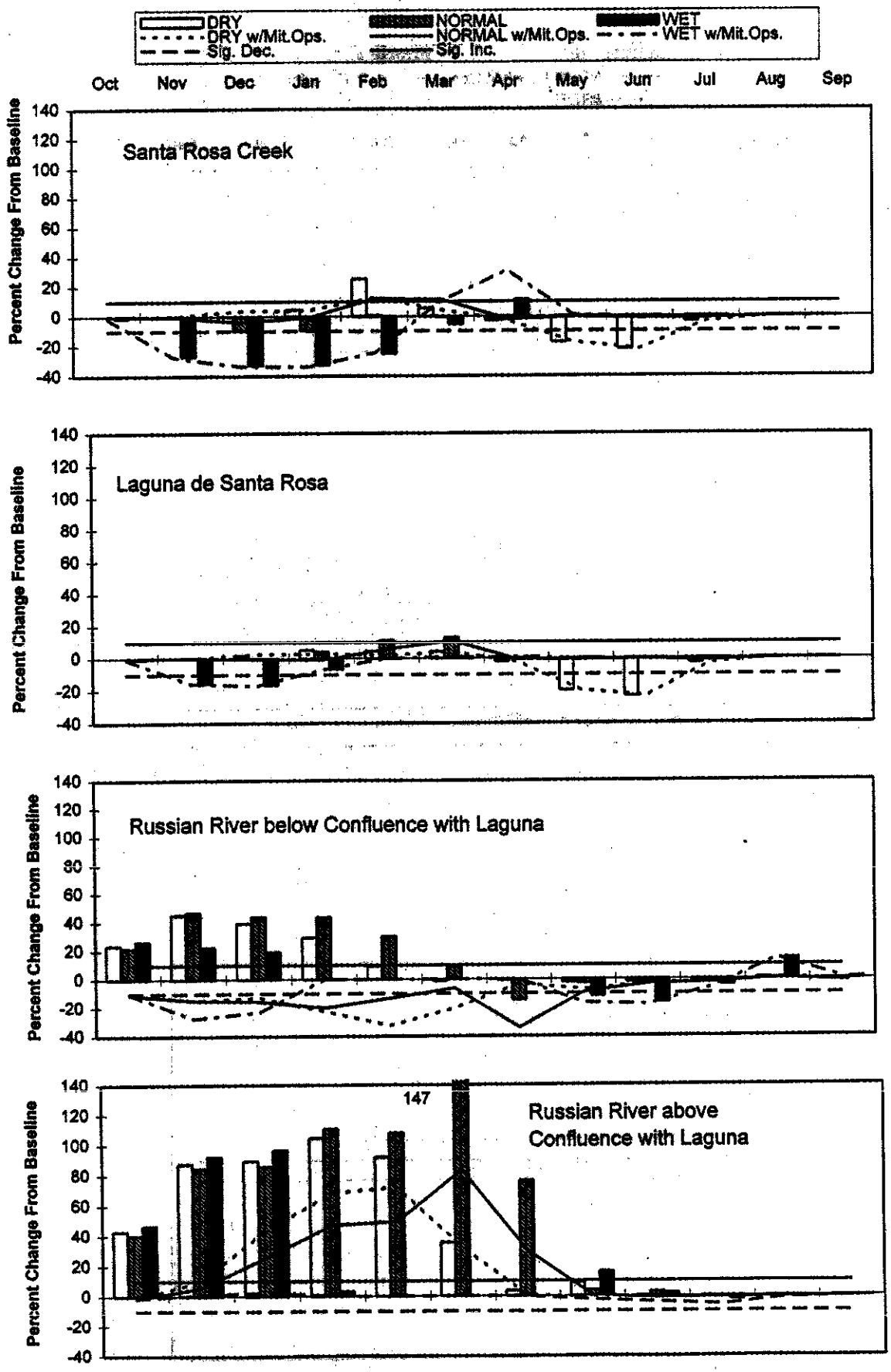


Figure 4-37. Discharge Impacts on Planktonic Algae - 1% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

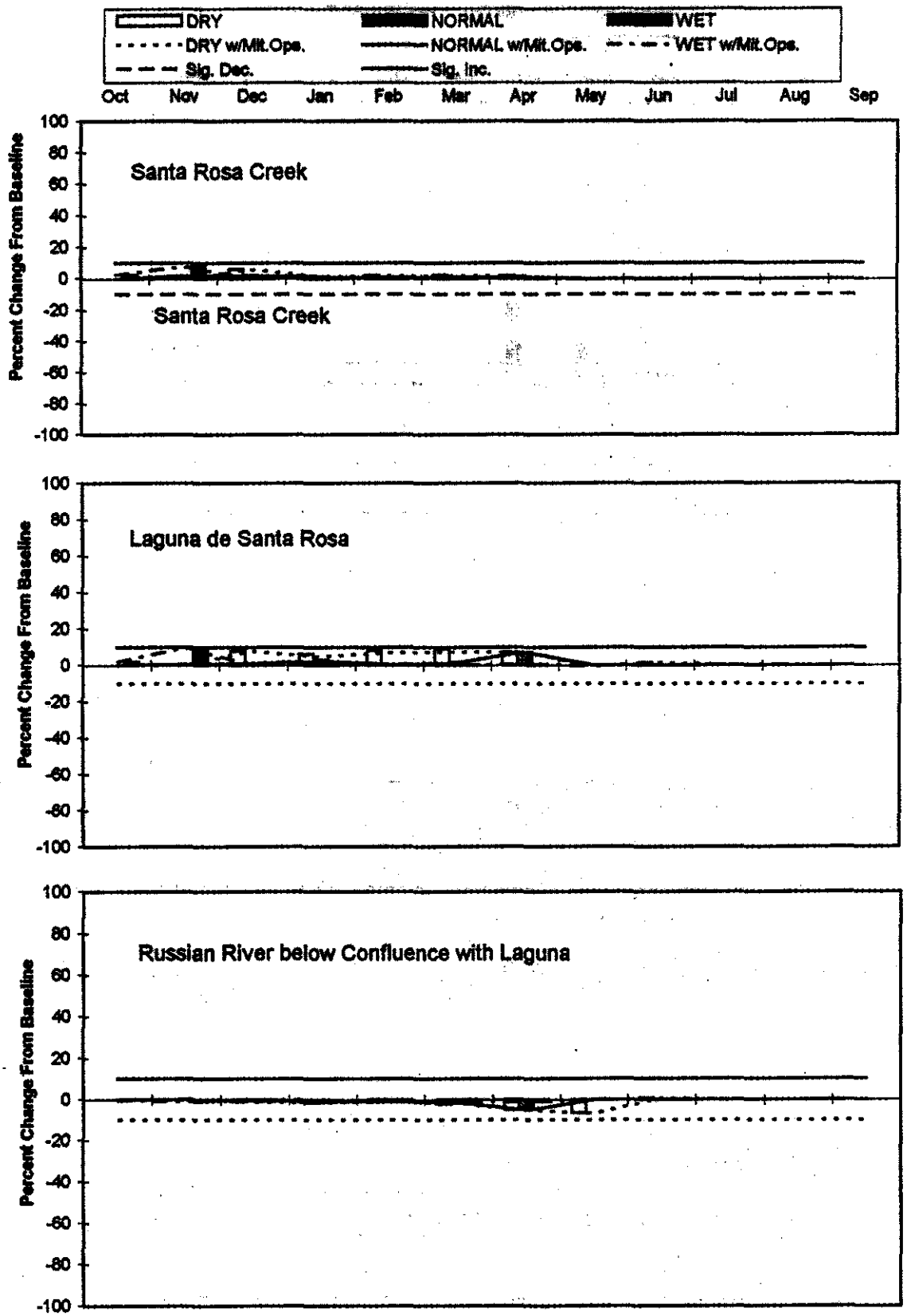


Figure 4-37. Discharge Impacts on Planktonic Algae - 5% Discharge to the Laguna de Santa Rosa
Existing Conditions Baseline - Project and Mitigation Operations

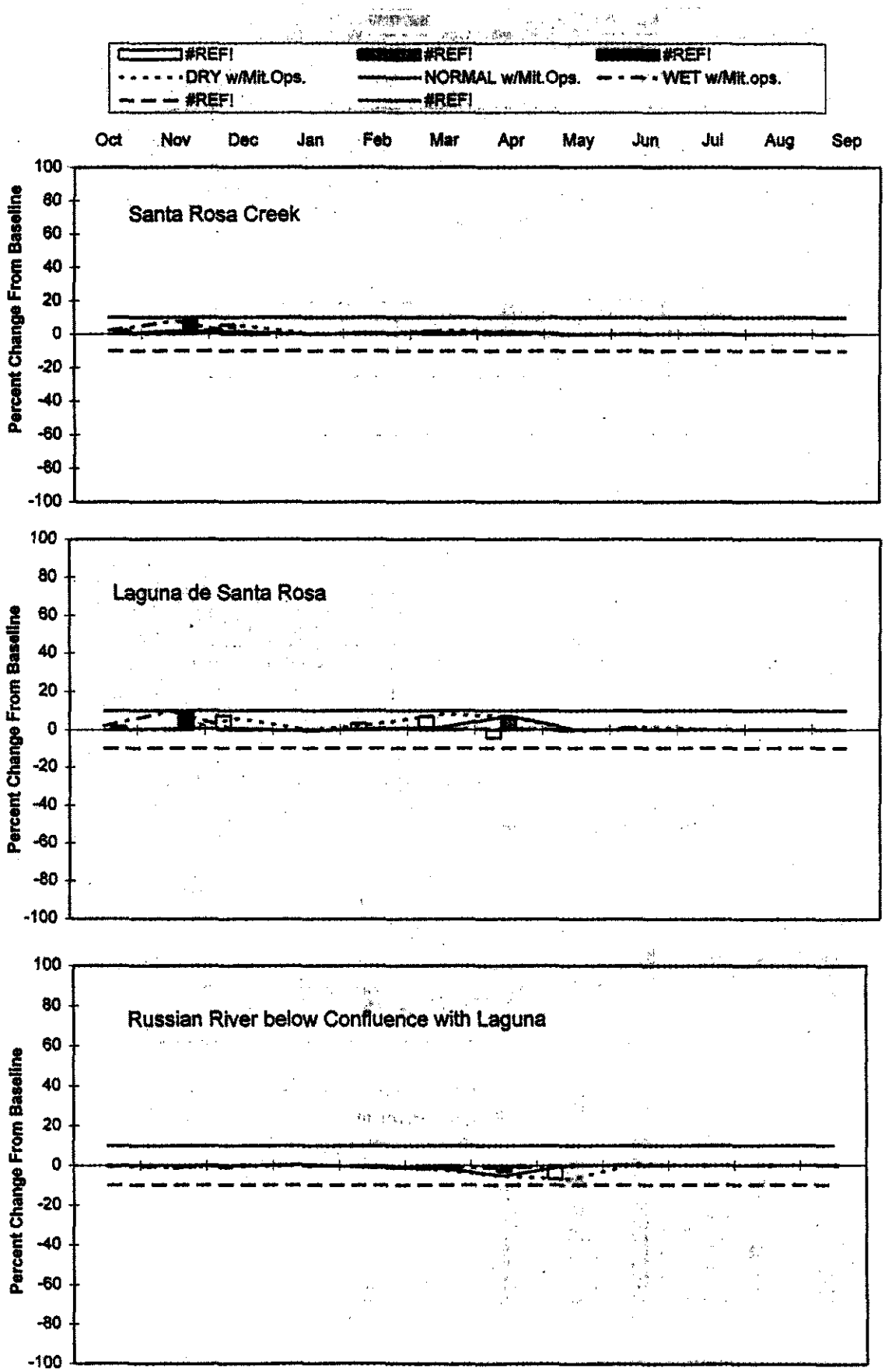


Figure 4-37. Discharge Impacts on Planktonic Algae - 10% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project and Mitigation Operations

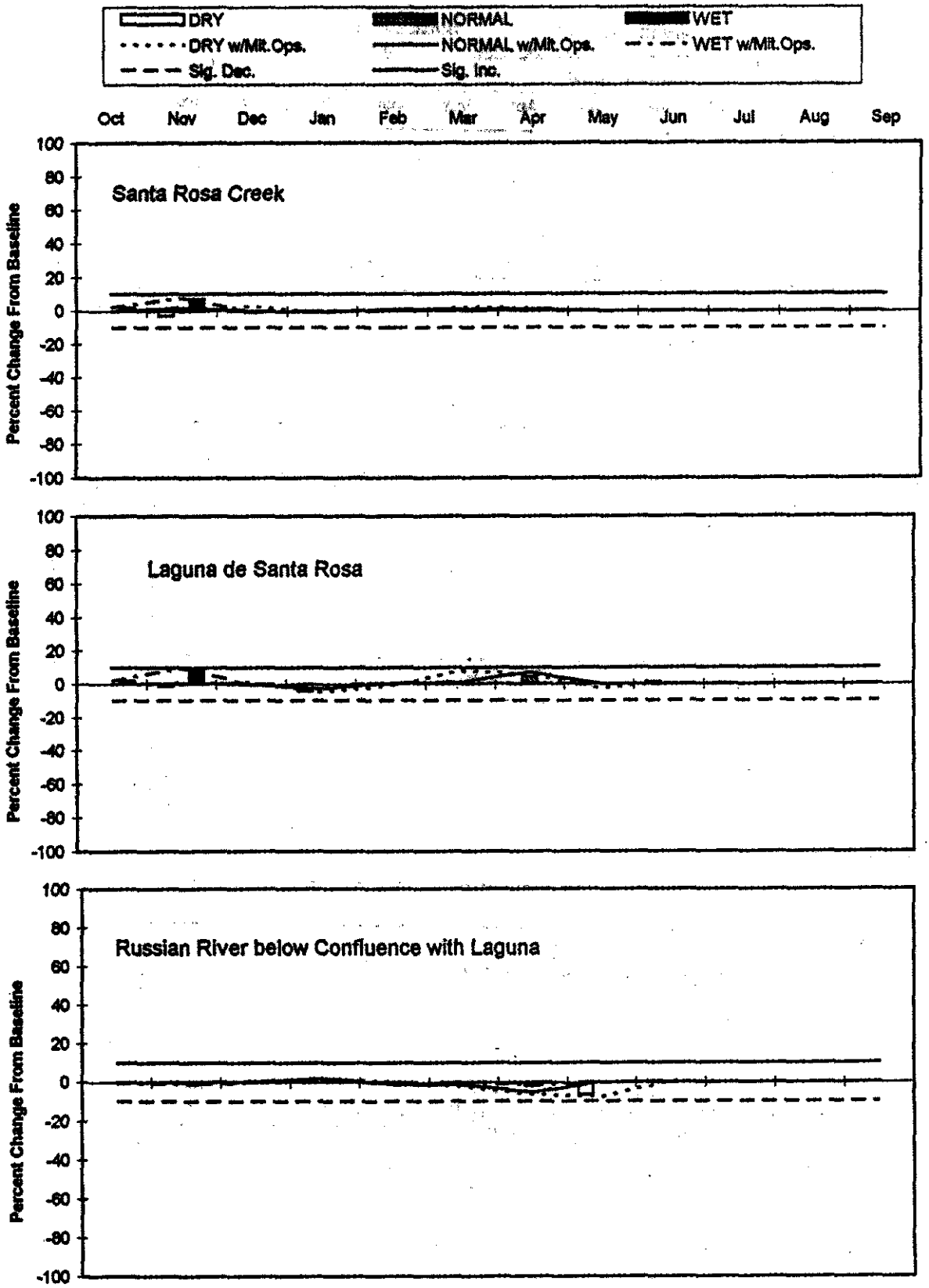


Figure 4-37. Discharge Impacts on Planktonic Algae - 20% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project and Mitigation Operations

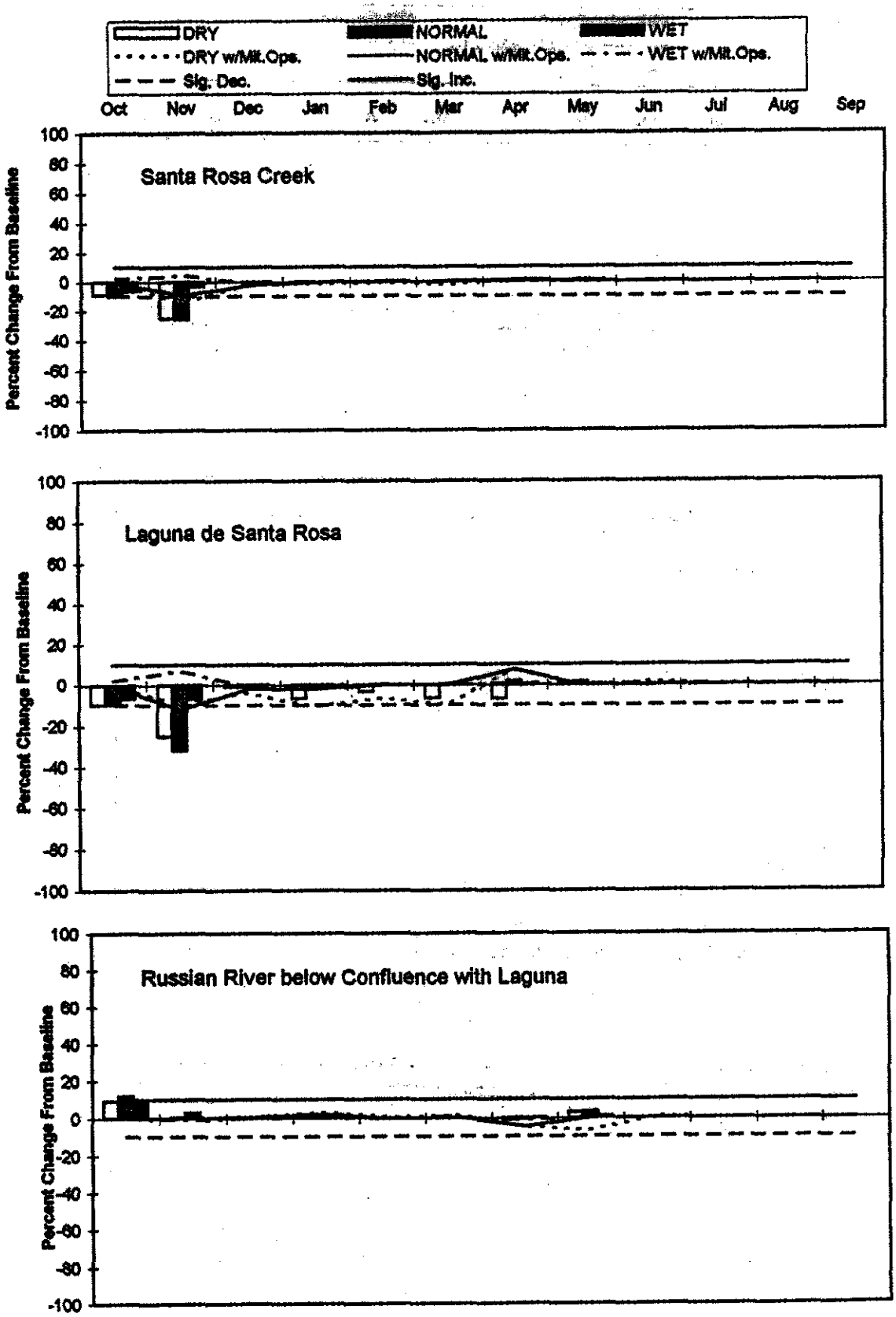


Figure 4-37. Discharge Impacts on Planktonic Algae - 20% Discharge to Russian River Existing Conditions Baseline - Project and Mitigation Operations

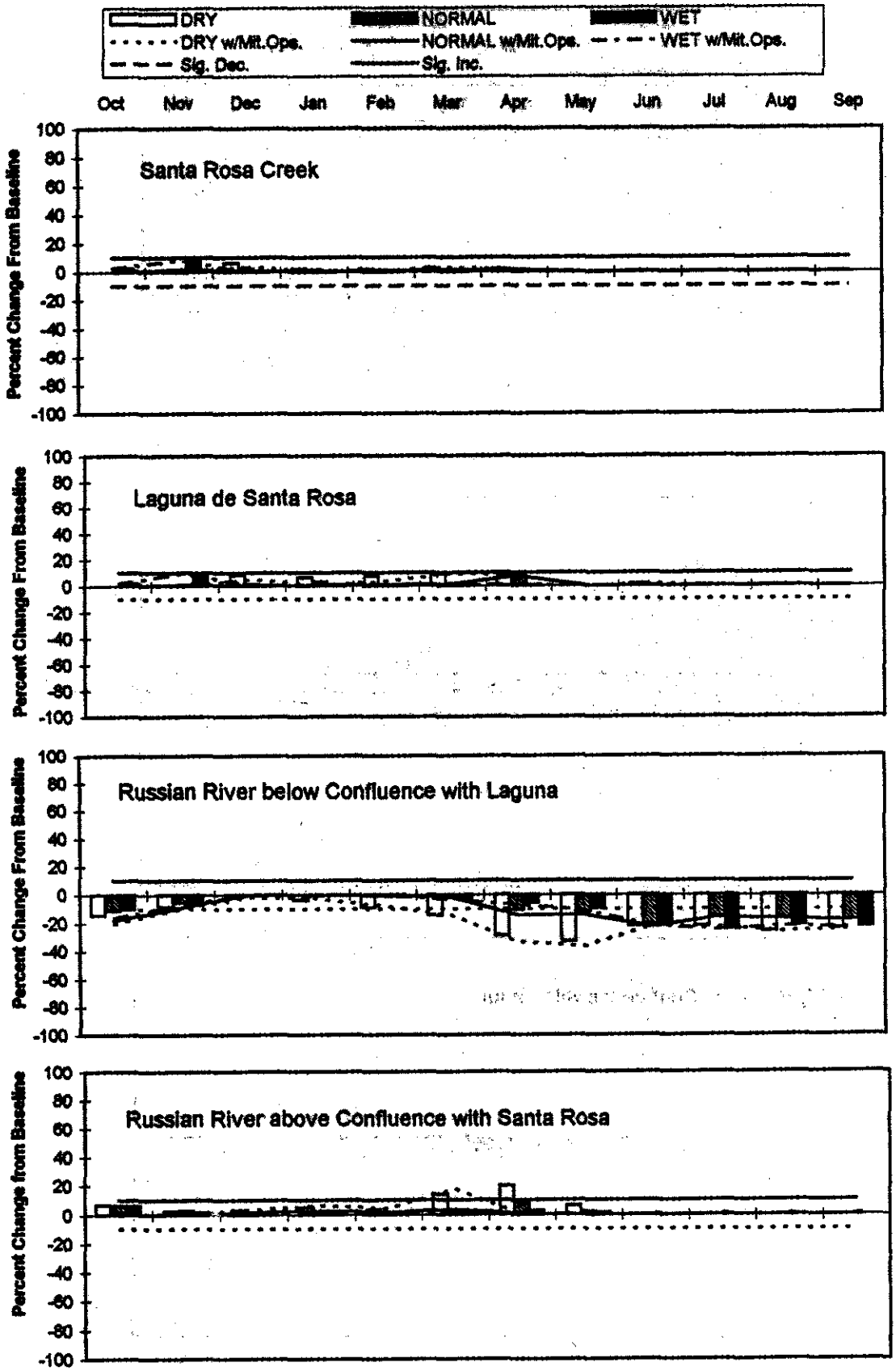


Figure 4-37. Discharge Impacts on Planktonic Algae - No Project Alternative Existing Conditions Baseline - Project and Mitigation Operations

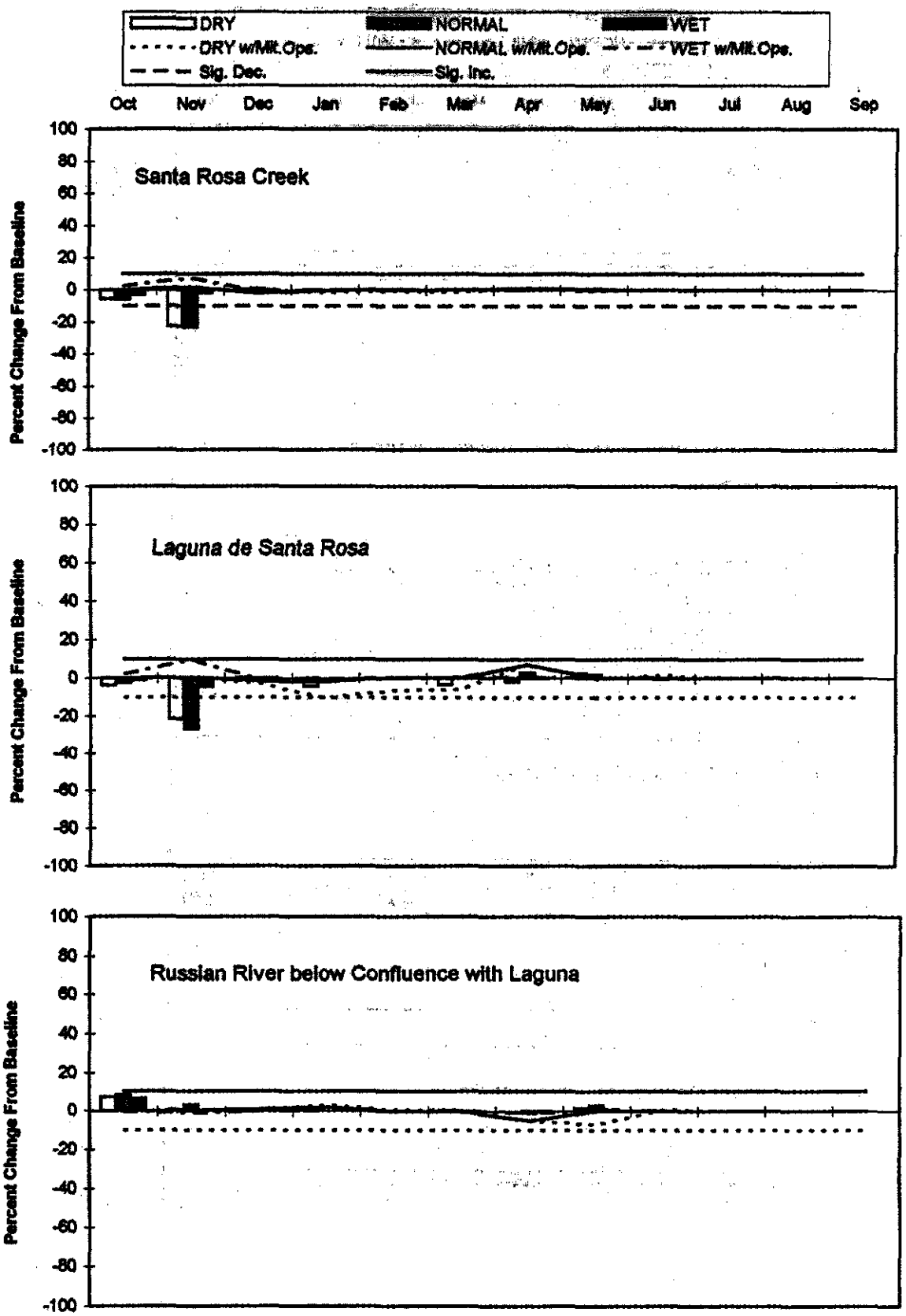


Figure 4-37. Discharge Impacts on Planktonic Algae - Geysers Alternative
Existing Conditions Baseline - Project and Mitigation Operations

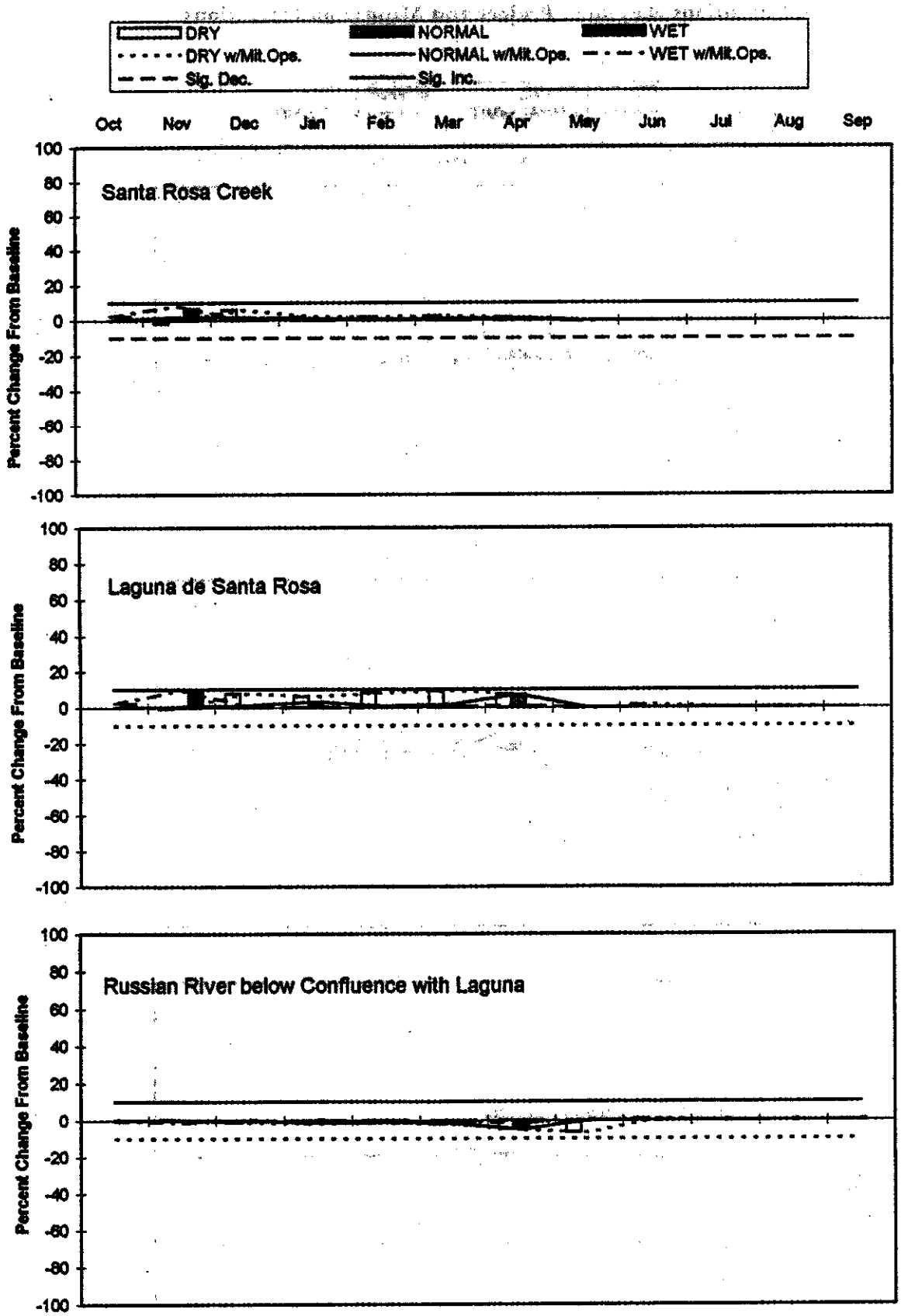


Figure 4-38. Discharge Impacts on Dissolved Oxygen - 20% Discharge to the Laguna de Santa Rosa

Existing Conditions Baseline - Project and Mitigation Operations

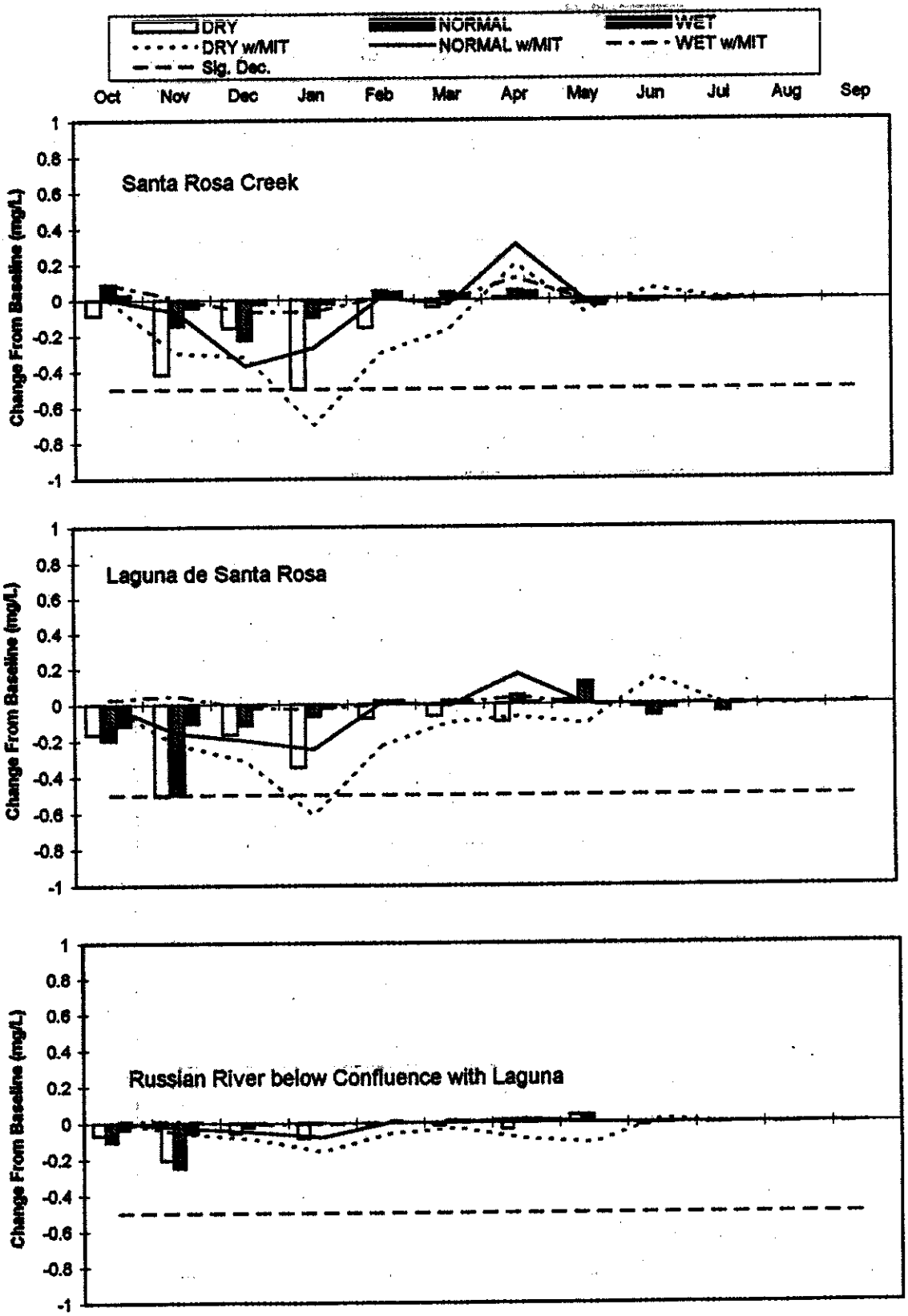


Figure 4-38. Discharge Inpacts on Dissolved Oxygen - No Project Alternative Existing Conditions Baseline - Project and Mitigation Operations

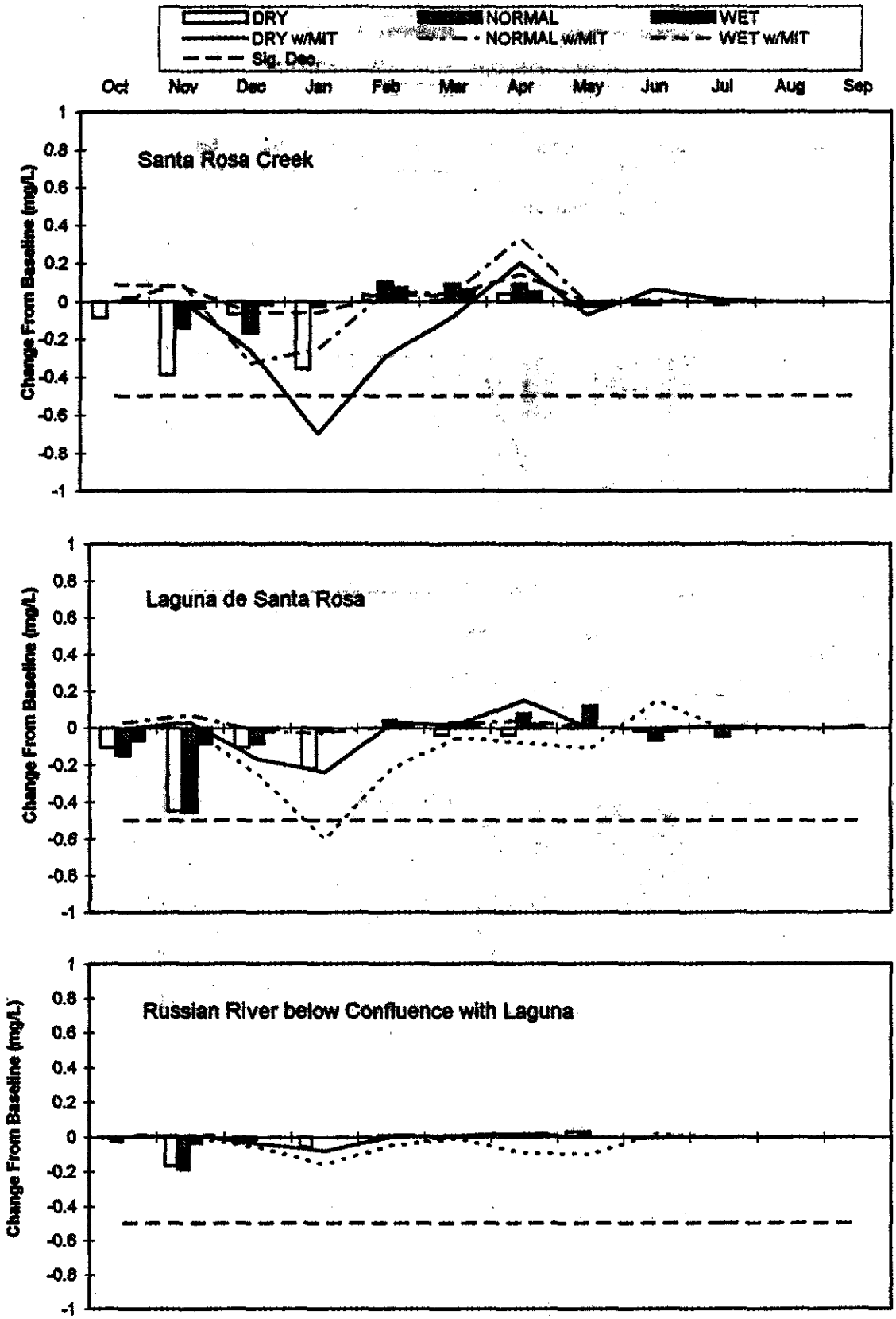


Figure 4-39. Discharge Impacts on Ammonia - 10% Discharge to Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

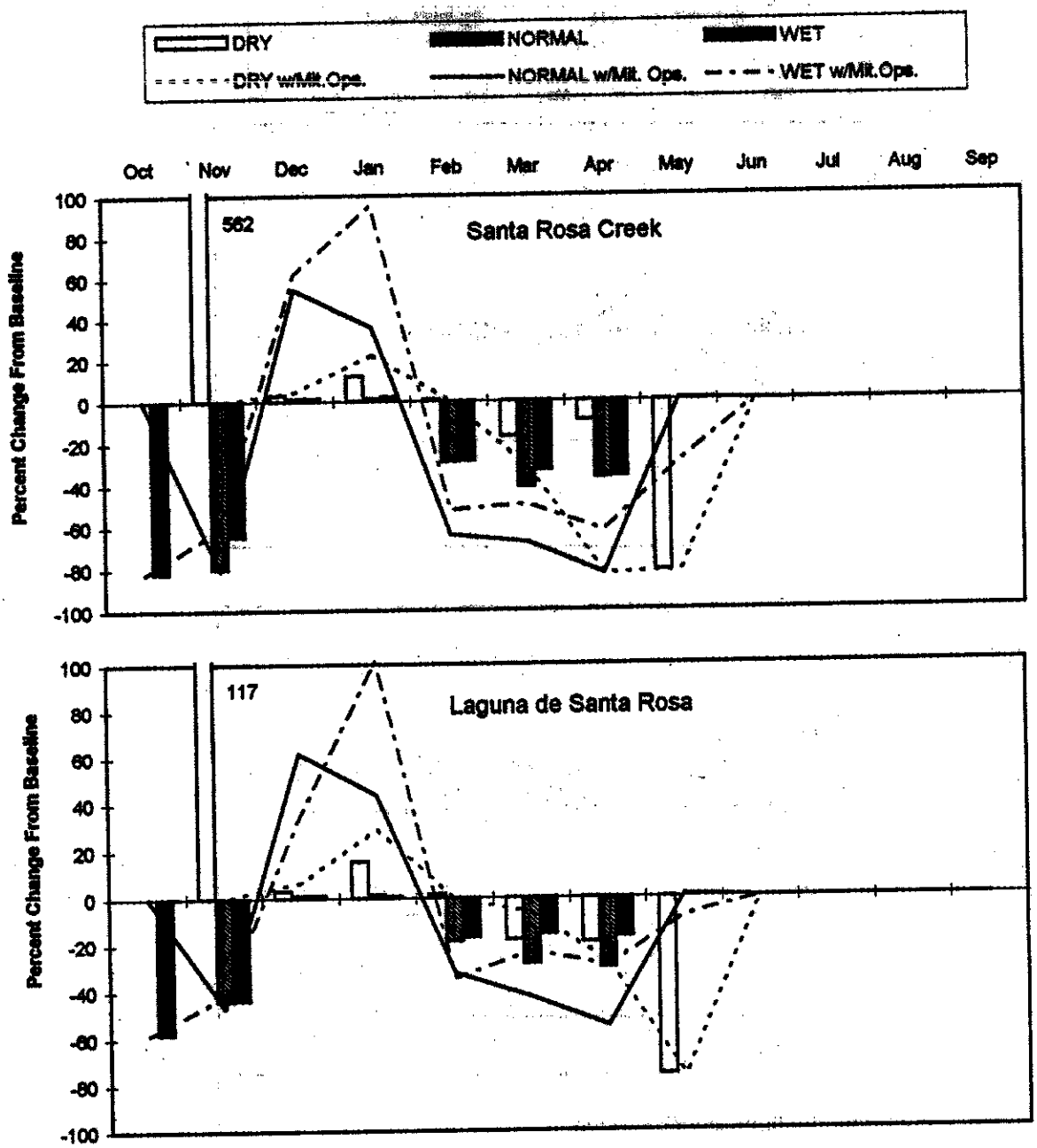


Figure 4-39. Discharge Impacts on Ammonia - 20% Discharge to the Laguna de Santa Rosa Existing Conditions Baseline - Project and Mitigation Operations

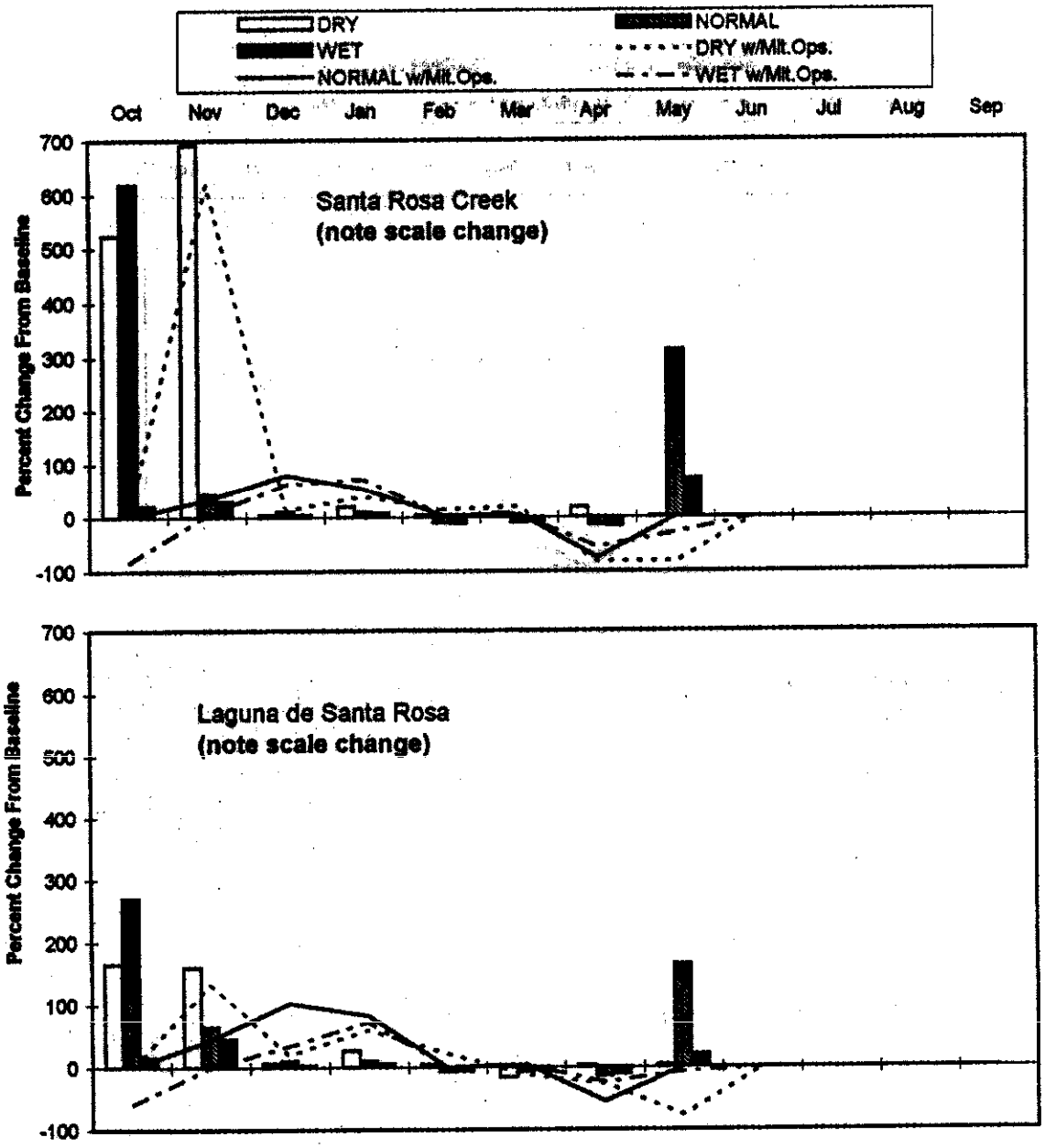


Figure 4-39. Discharge Impacts on Ammonia - No Project Alternative Existing Conditons Baseline - Project and Mitigation Operations

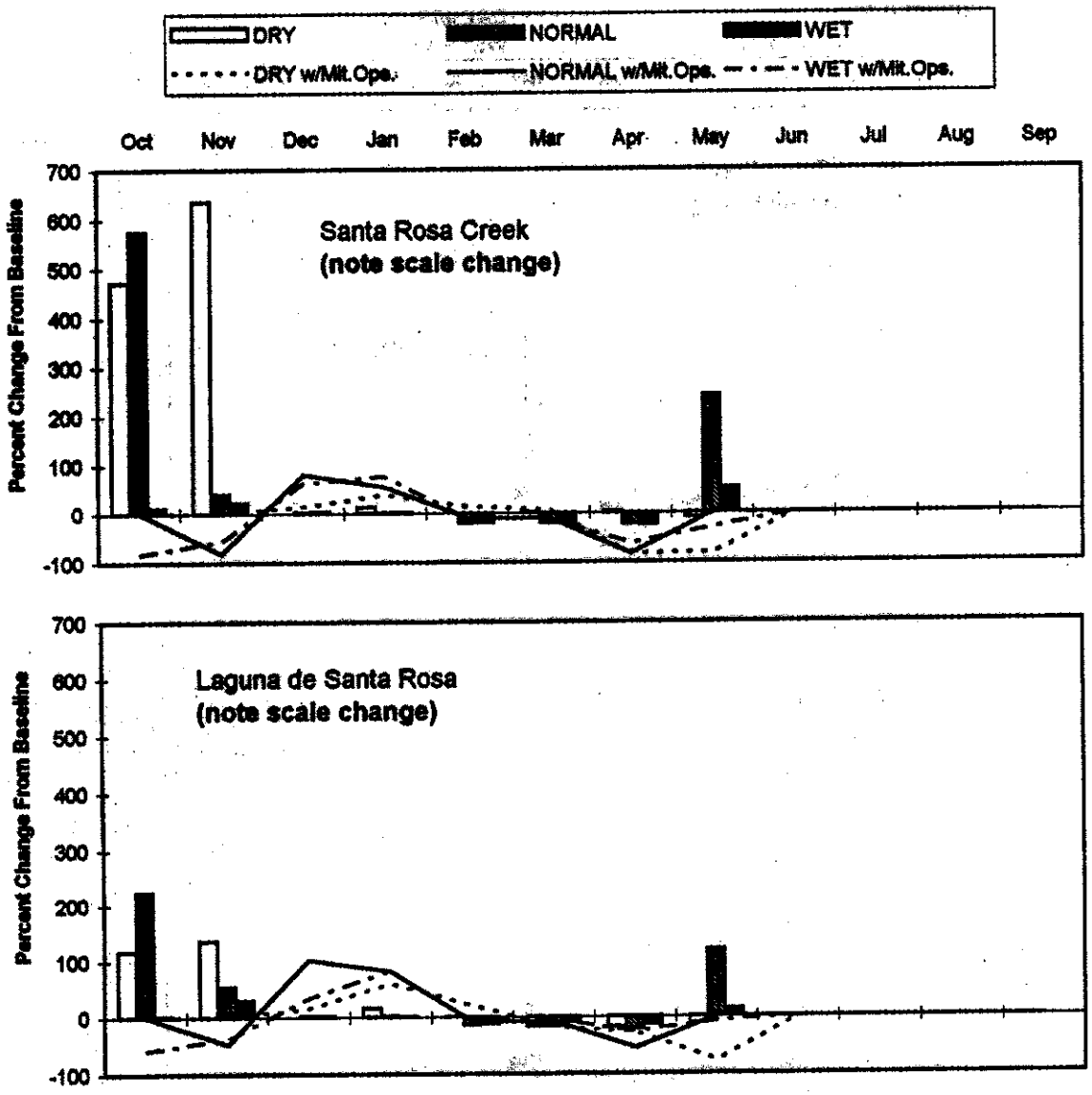


Figure 4-39. Discharge Impacts on Ammonia - Geysers Alternative Existing Conditions Baseline - Project and Mitigation Operations

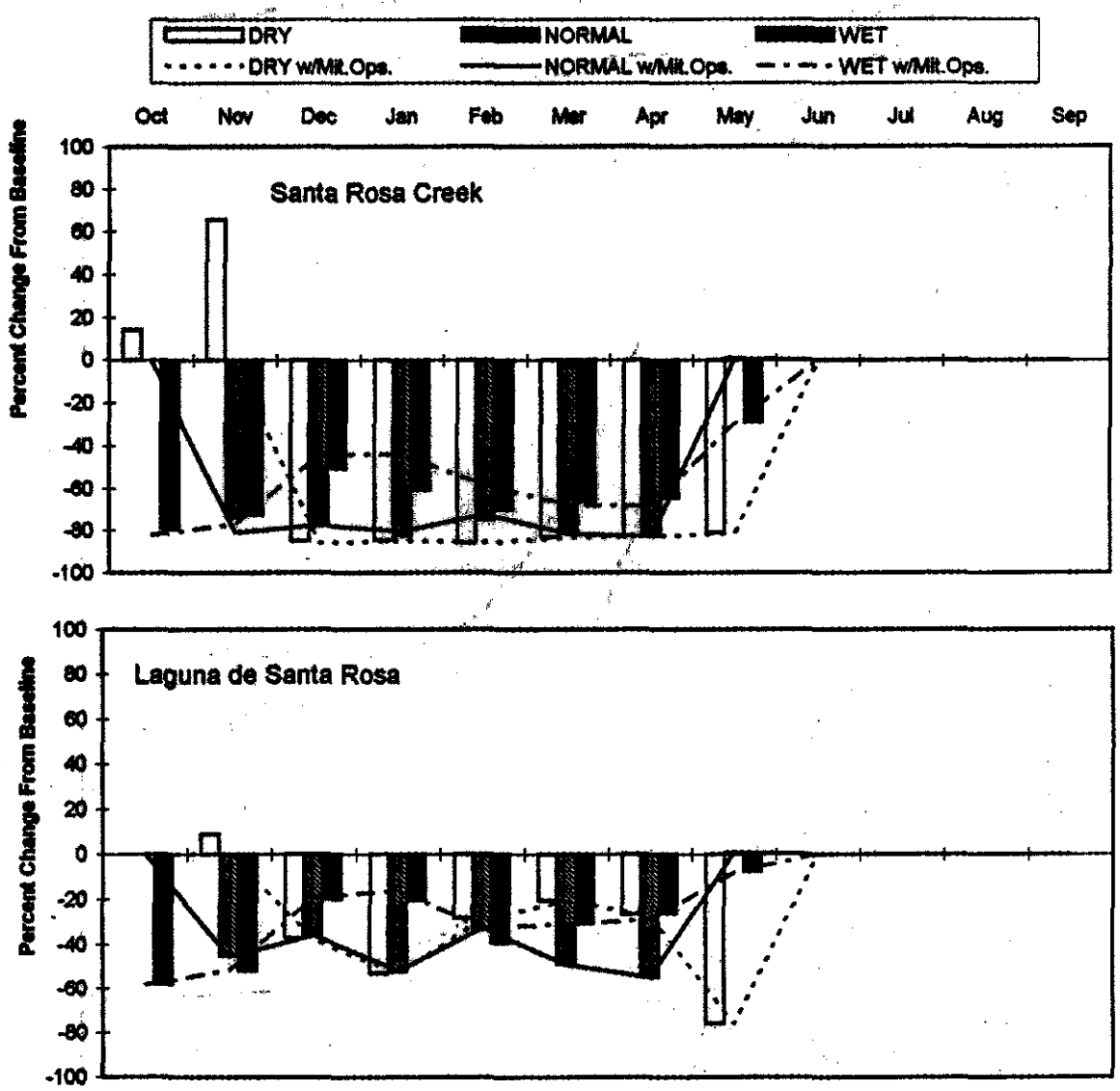


Figure 4-40. Distribution of Daily Average Reclaimed Water Concentration During the Discharge Season In Santa Rosa Creek in a Very Dry Year (1977) With Contingency Discharge Under Project and Mitigation Operations

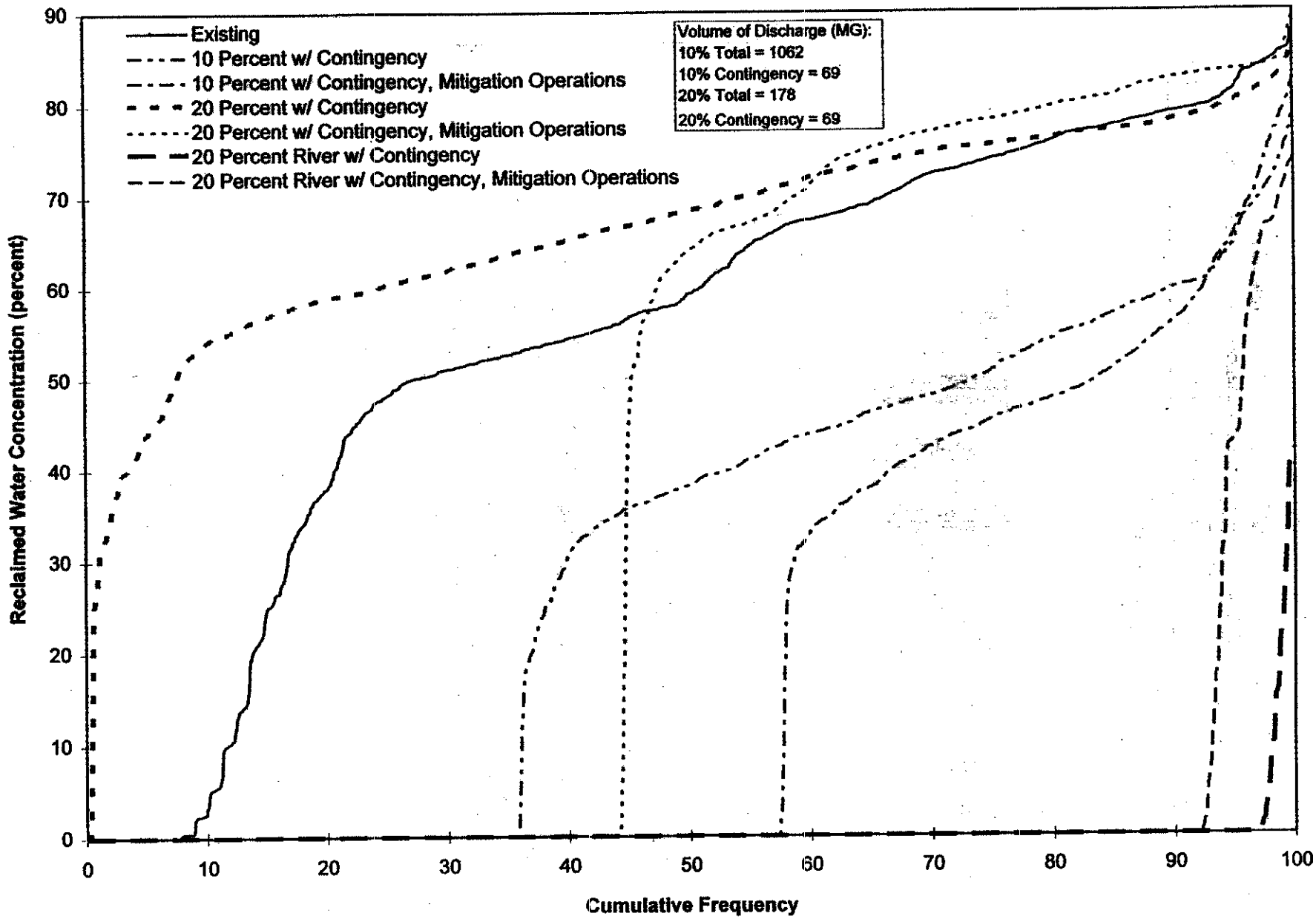


Figure 4-41. Distribution of Daily Average Reclaimed Water Concentration During the Discharge Season in the Laguna at River Road in a Very Dry Year (1977) With Contingency Discharge Under Project and Mitigation Operations

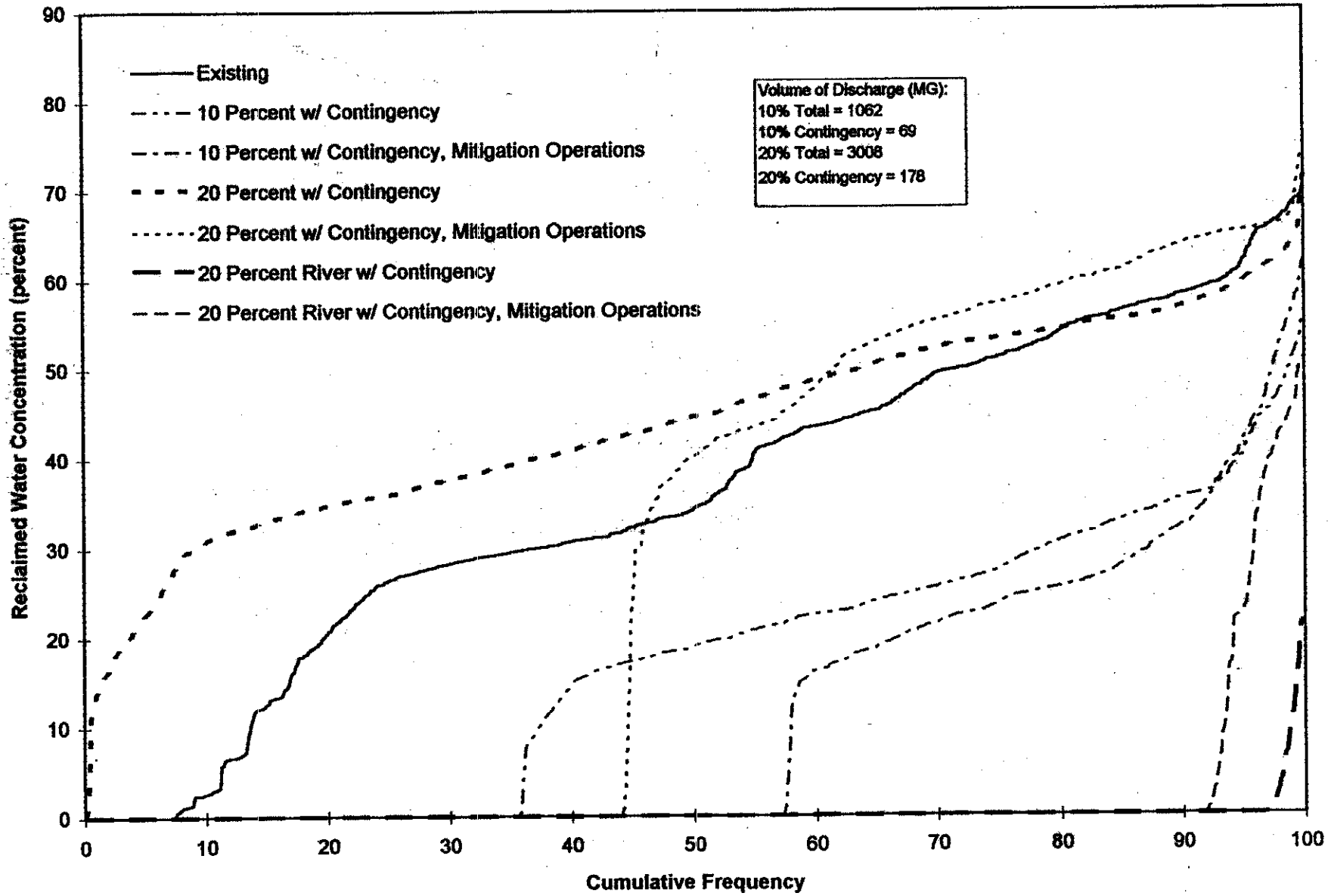


Figure 4-42. Distribution of Daily Average Reclaimed Water Concentration During Discharge Season In the Russian River Below the Laguna in a Very Dry Year (1977) Contingency Discharge Under Project and Mitigation Operations

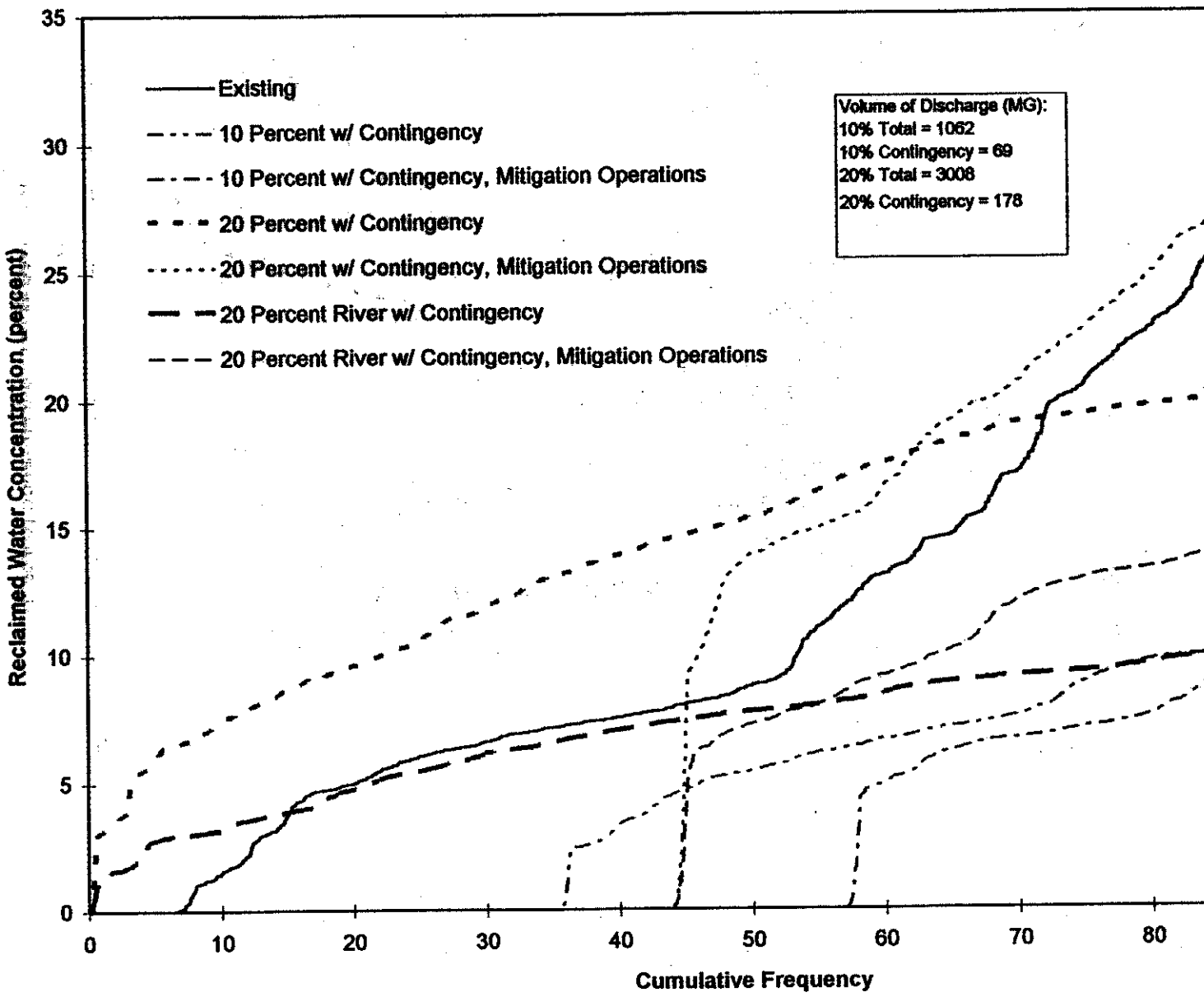


Figure 4-43. Distribution of Daily Average Reclaimed Water Concentration During the Discharge Season In the Russian River Above the Laguna in a Very Dry Year (1977) With Contingency Discharge Under Project and Mitigation Operations

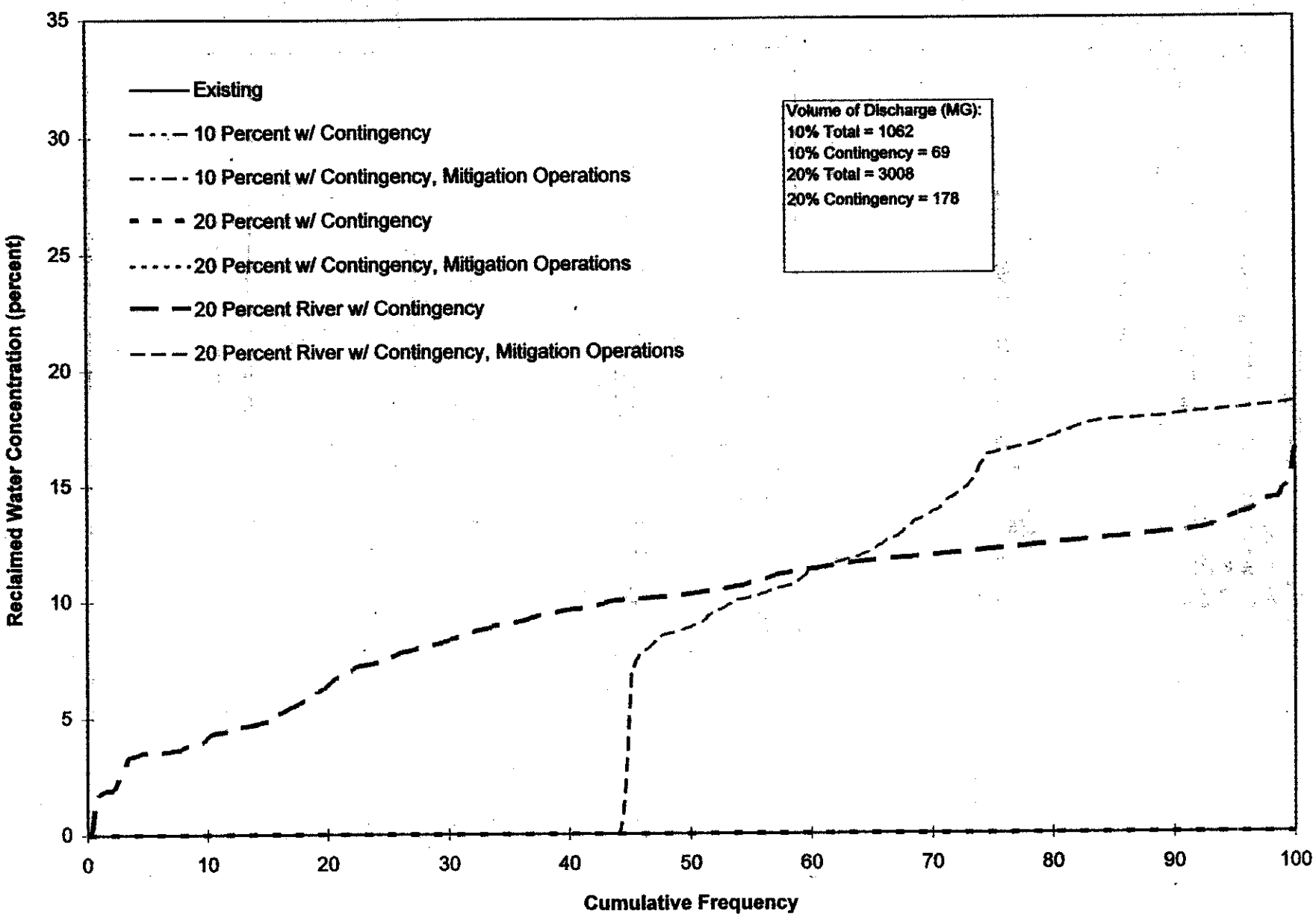


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Figure 4-44. Contingency Discharge Impacts on Benthic Algae - 10% Discharge Component

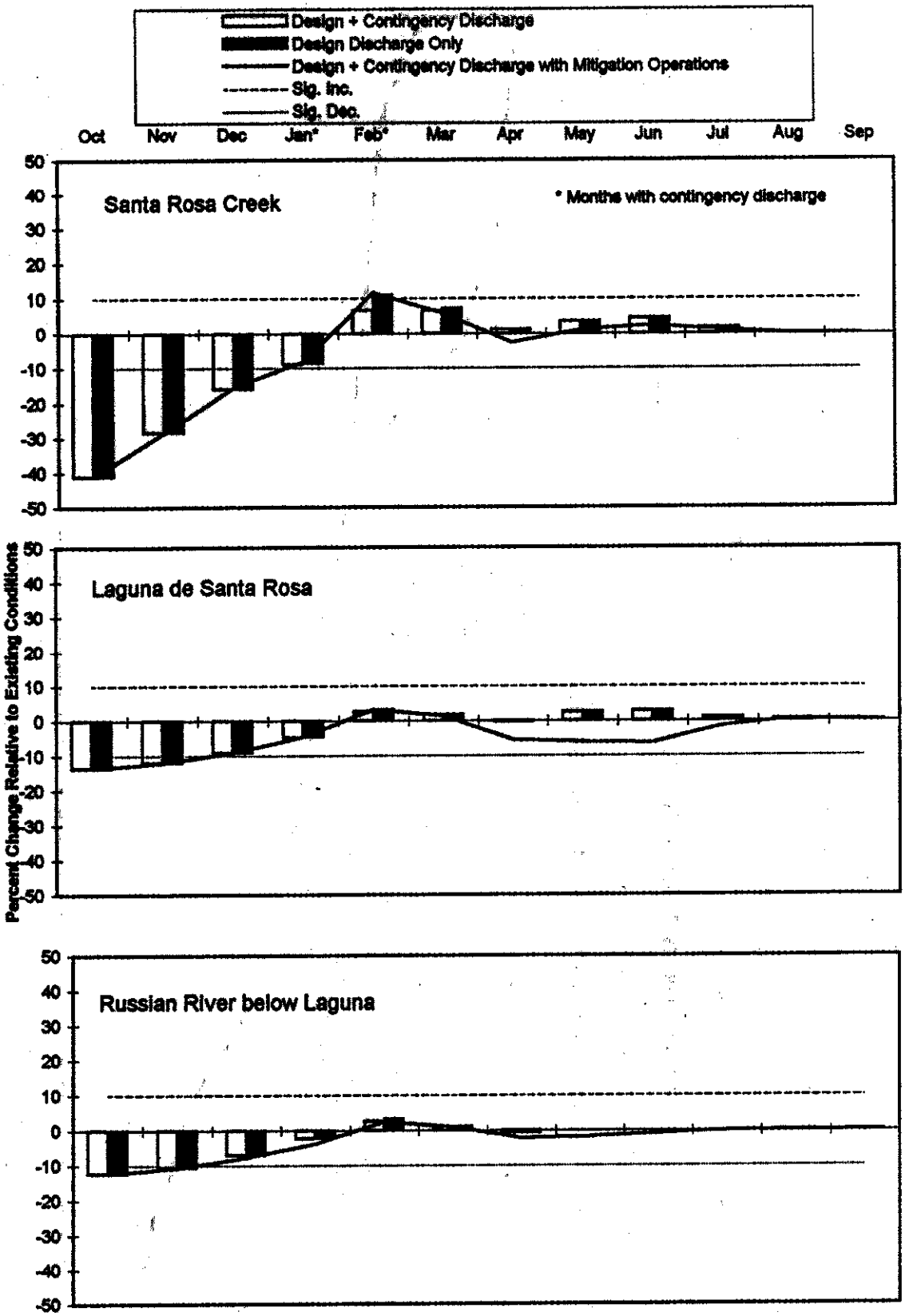

Figure 4-45. Contingency Discharge Impacts on Benthic Algae - 20% Discharge Component

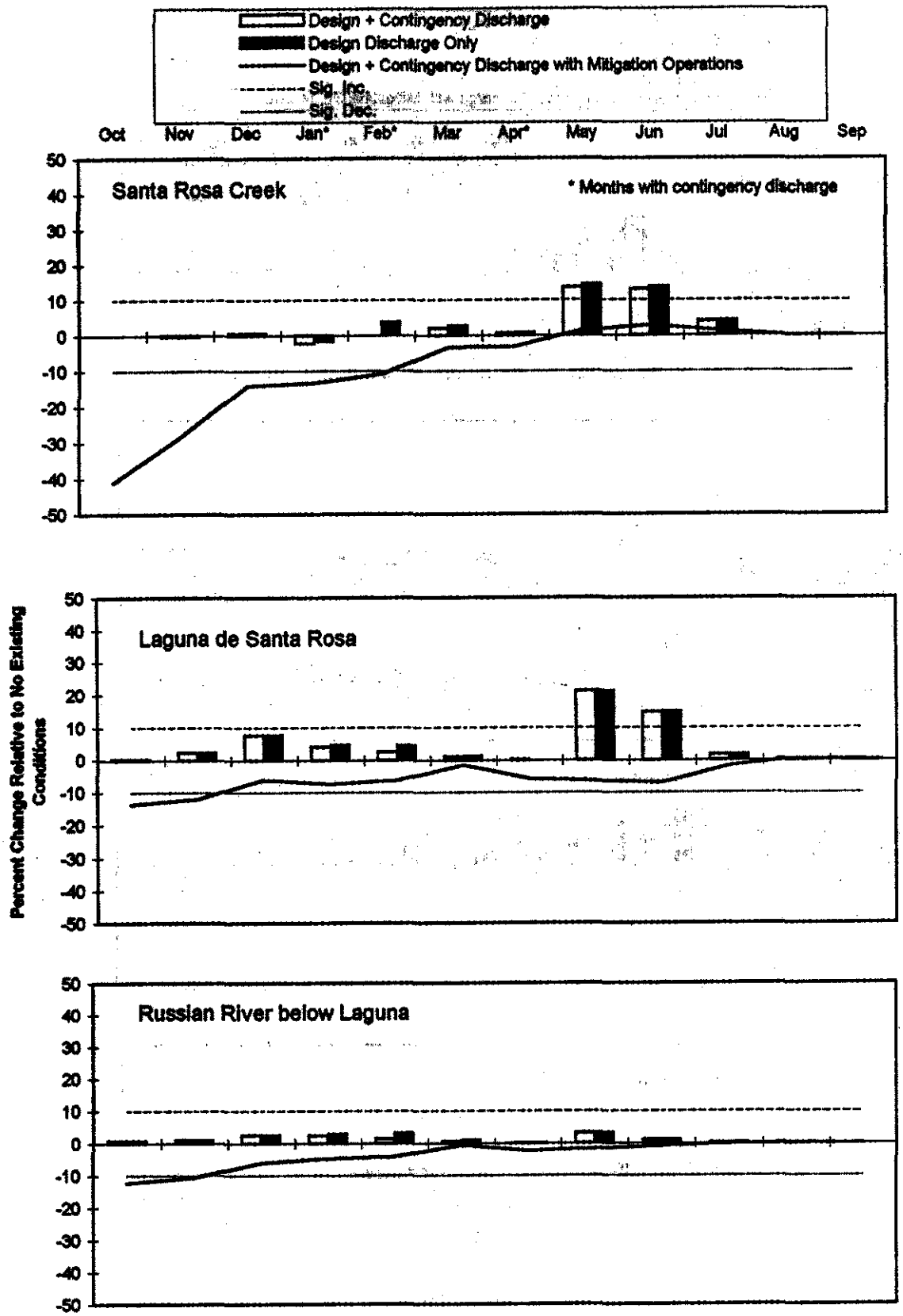

Figure 4-46. Contingency Discharge Impacts on Benthic Algae - 20% Russian River Discharge Component

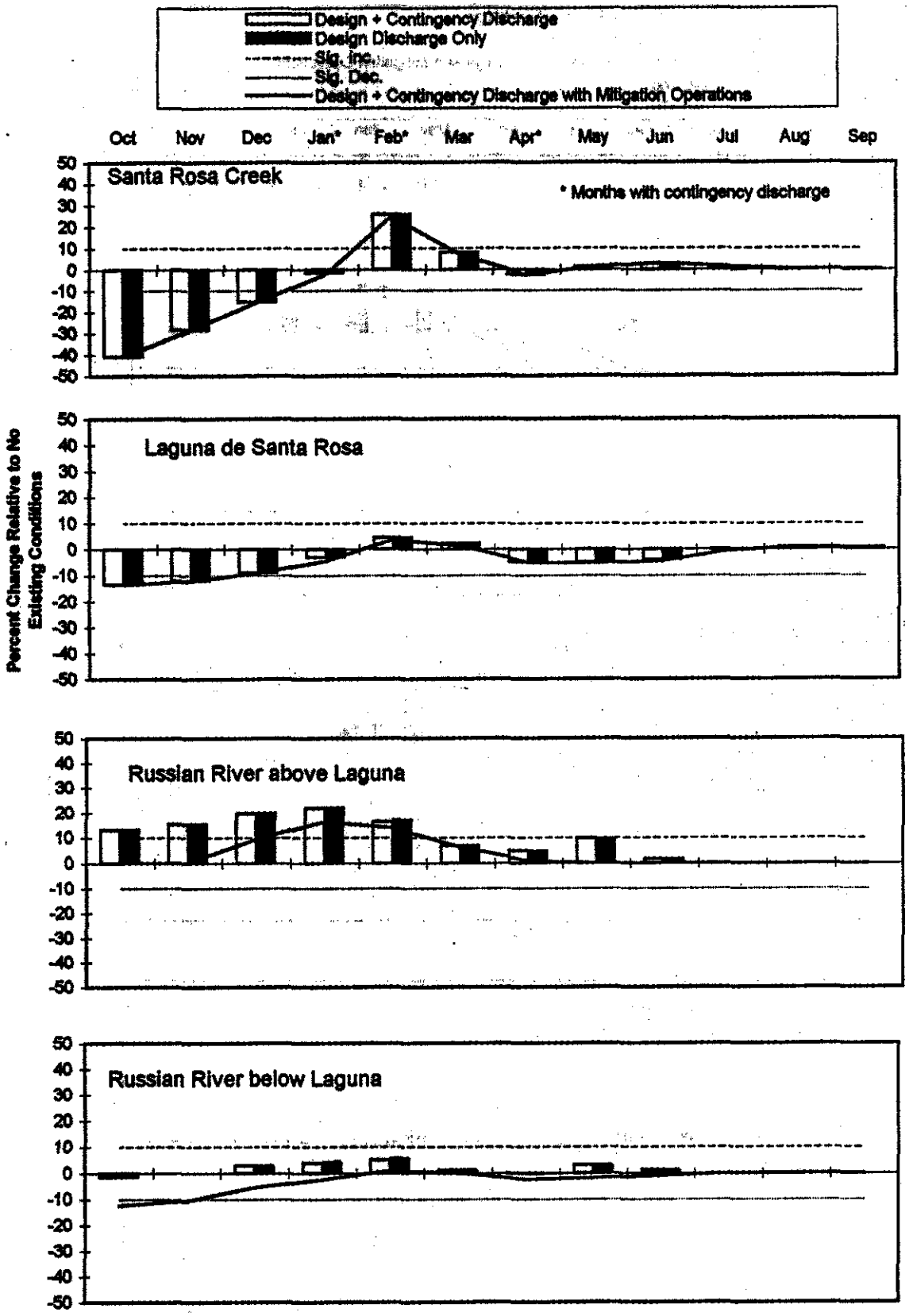

Figure 4-47. Contingency Discharge Impacts on Planktonic Algae - 10% Discharge Component

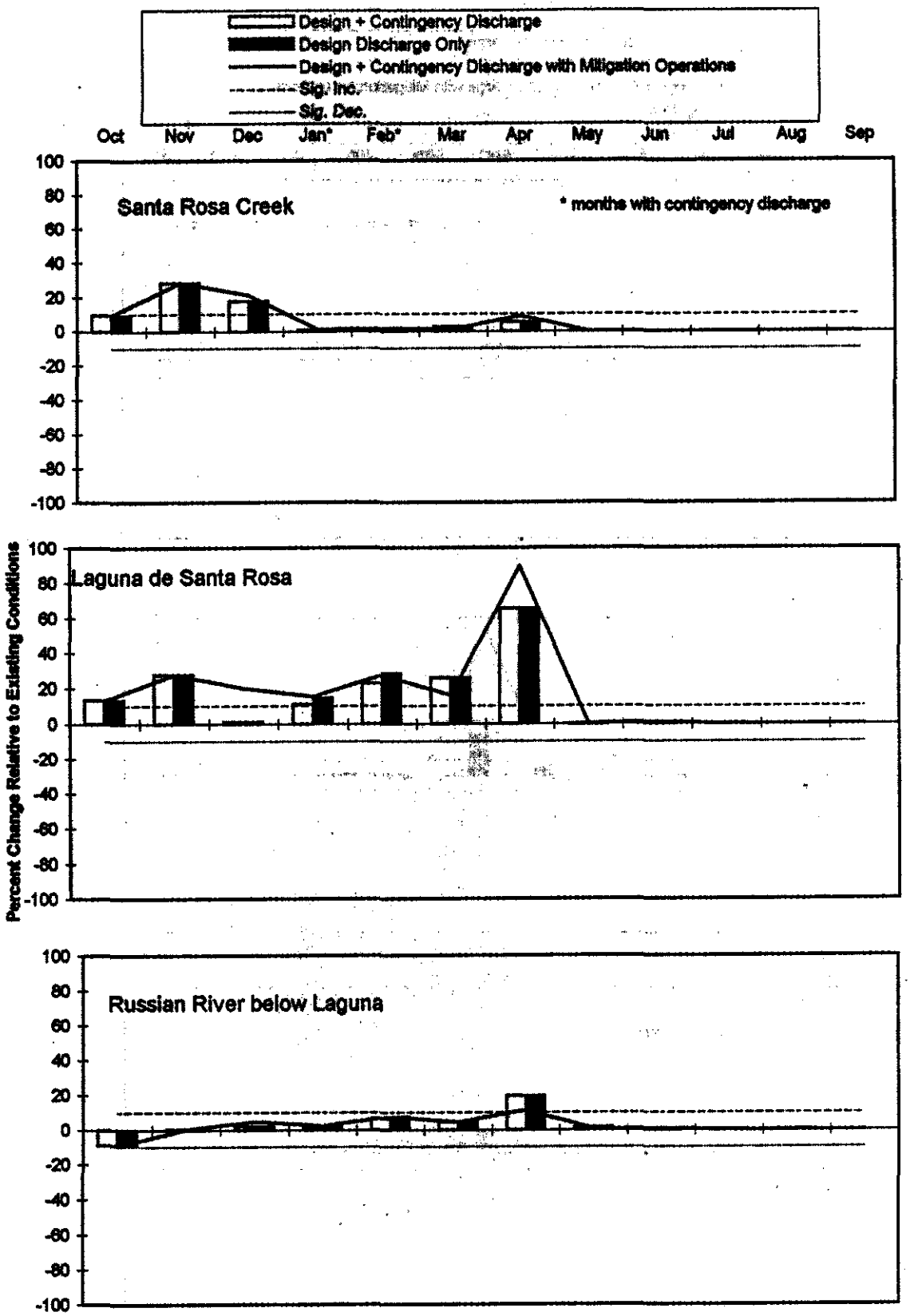

Figure 4-48. Contingency Discharge Impacts on Planktonic Algae - 20% Discharge Component

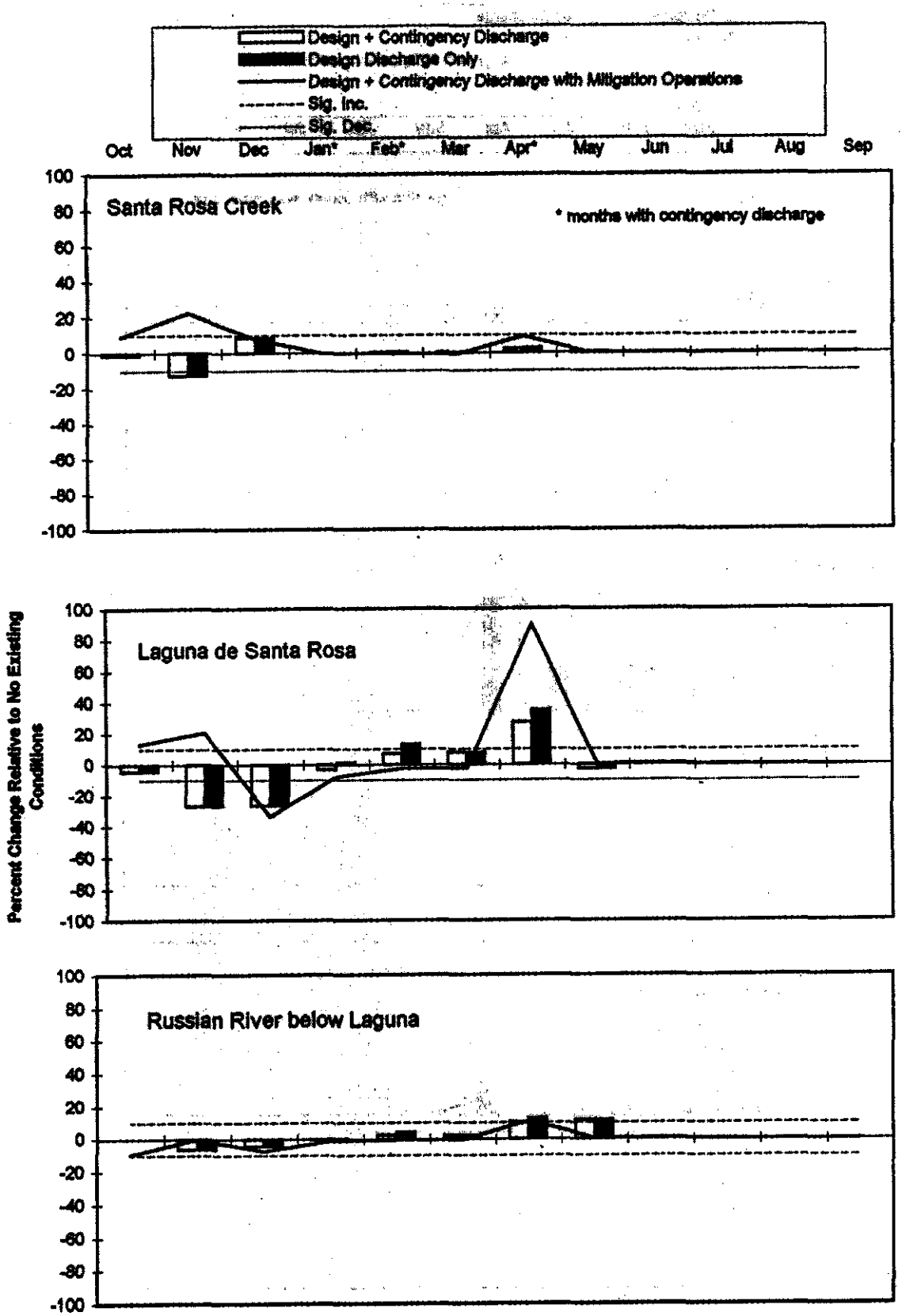

Figure 4-49. Contingency Discharge Impacts on Planktonic Algae - 20% Russian River Discharge Component

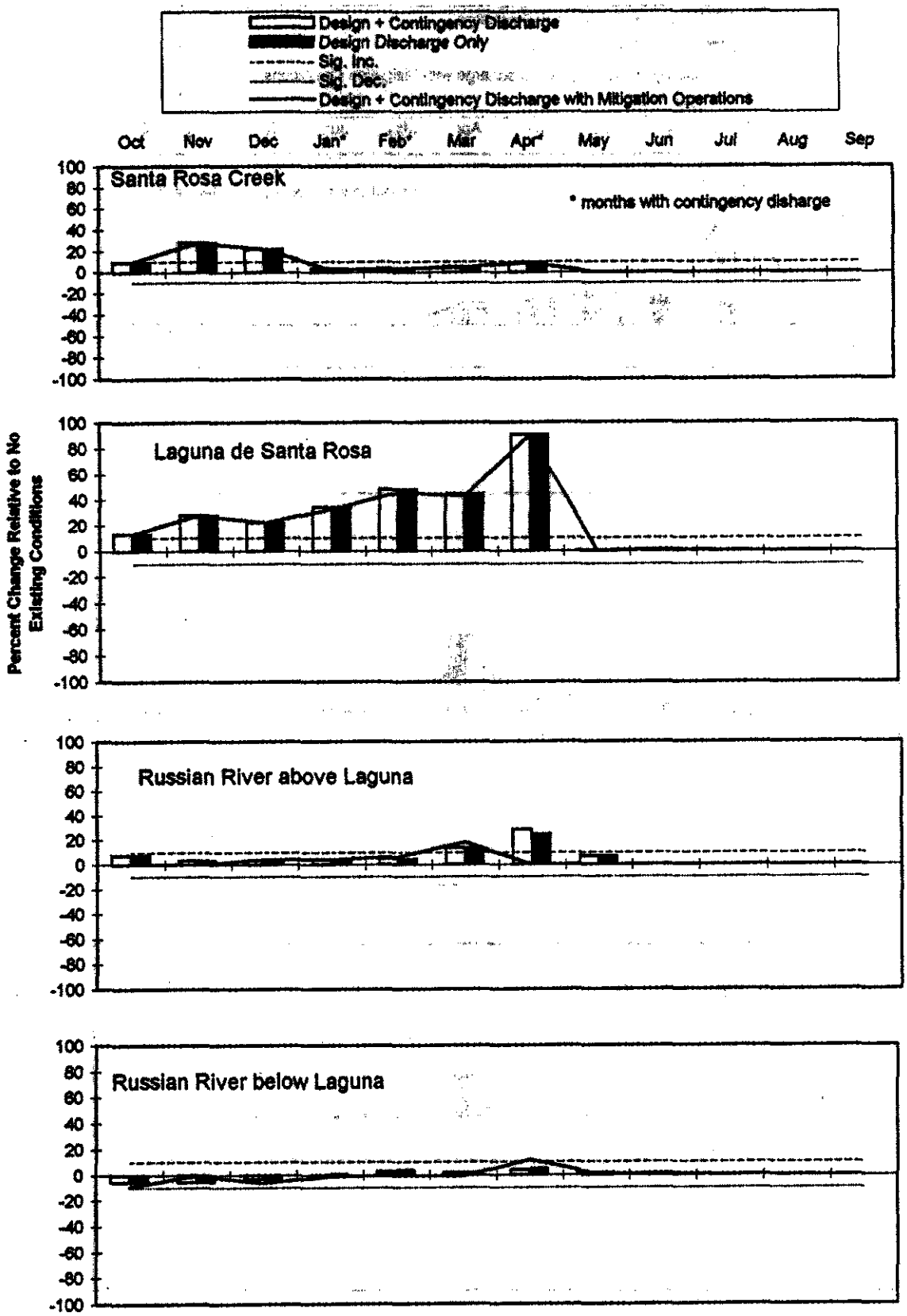

Figure 4-50. Contingency Discharge Impacts on Dissolved Oxygen - 10% Discharge Component

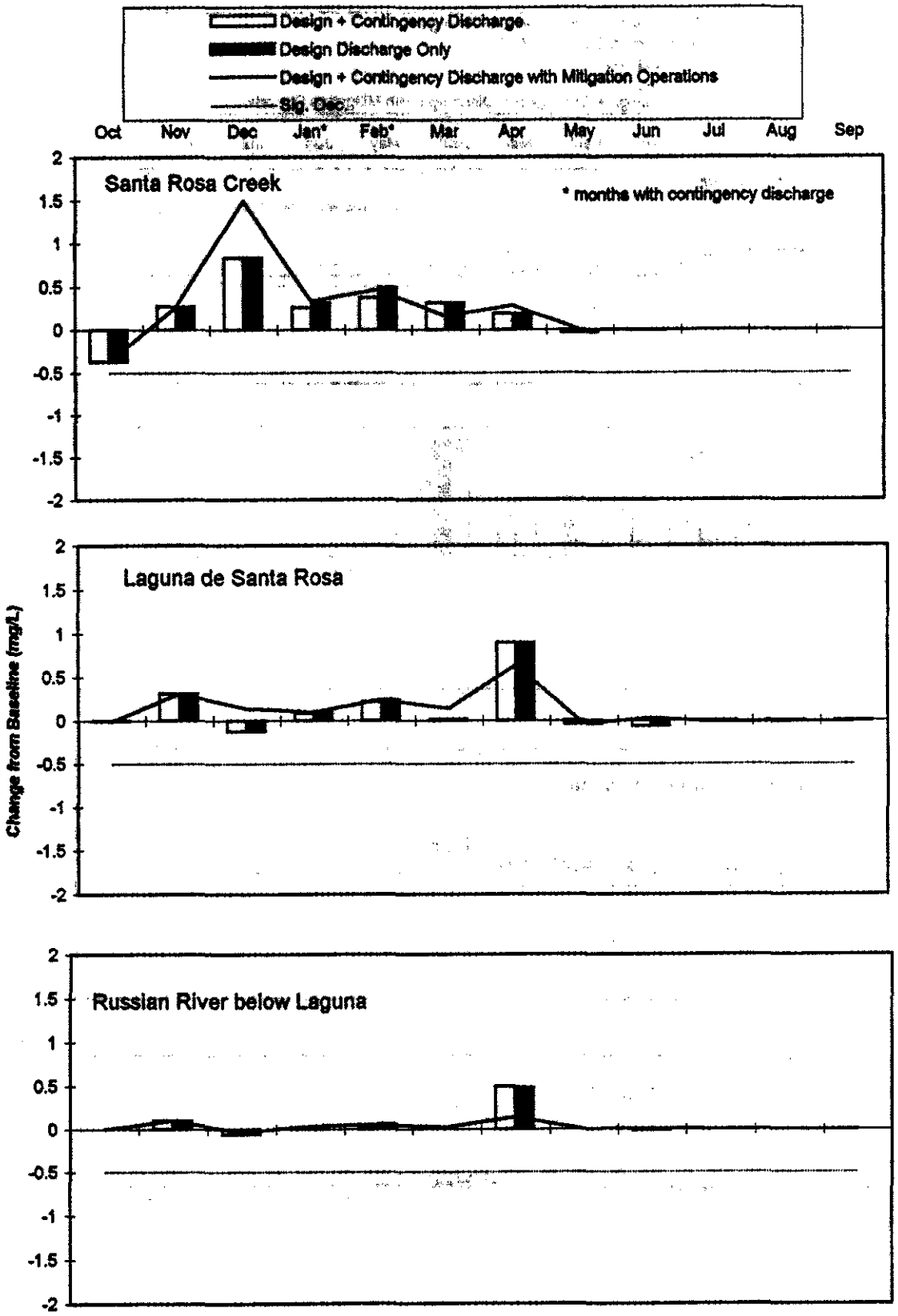

Figure 4-51. Contingency Discharge Impacts on Dissolved Oxygen - 20% Discharge Component

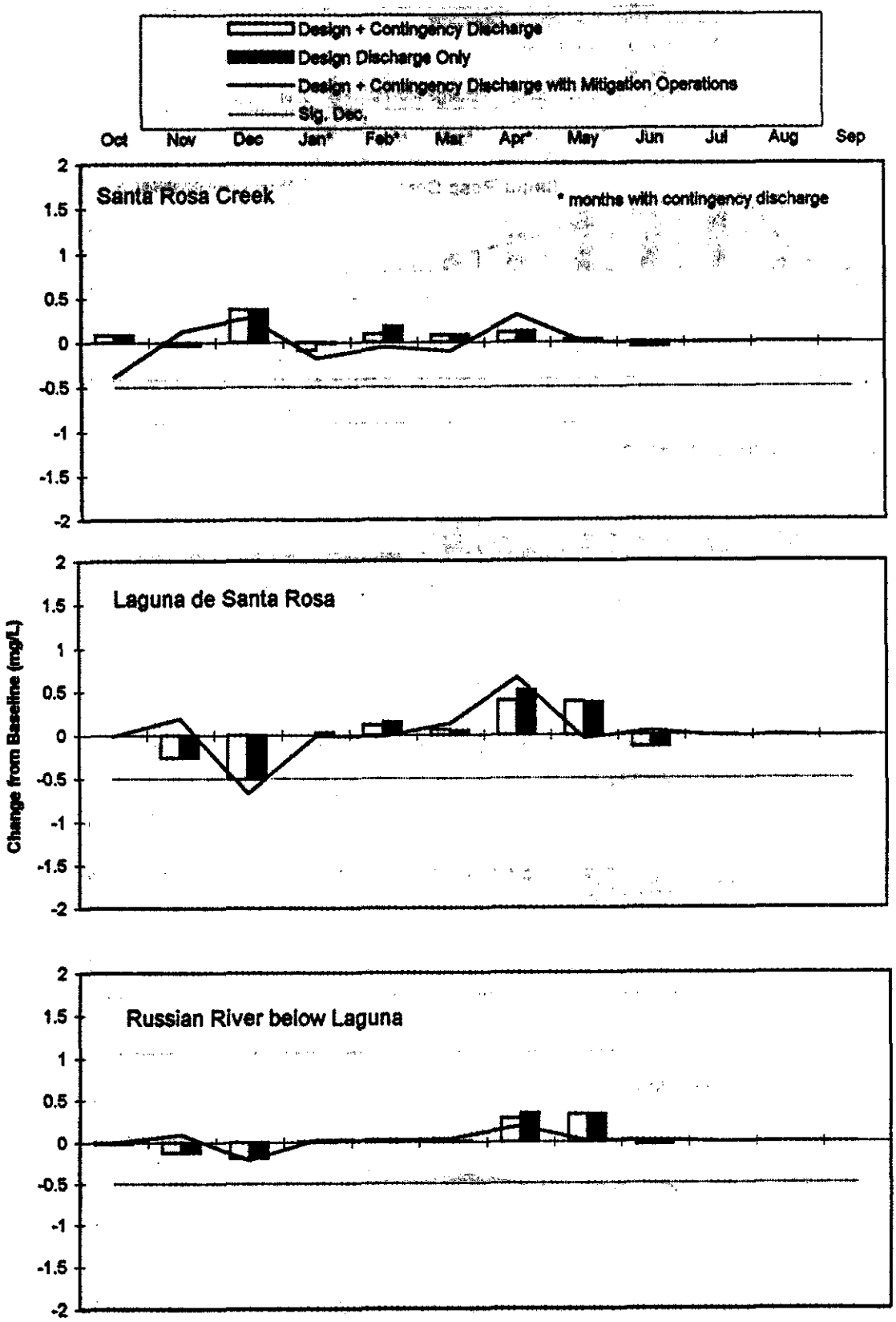

Figure 4-52. Contingency Discharge Impacts on Dissolved Oxygen - 20% Russian River Discharge Component

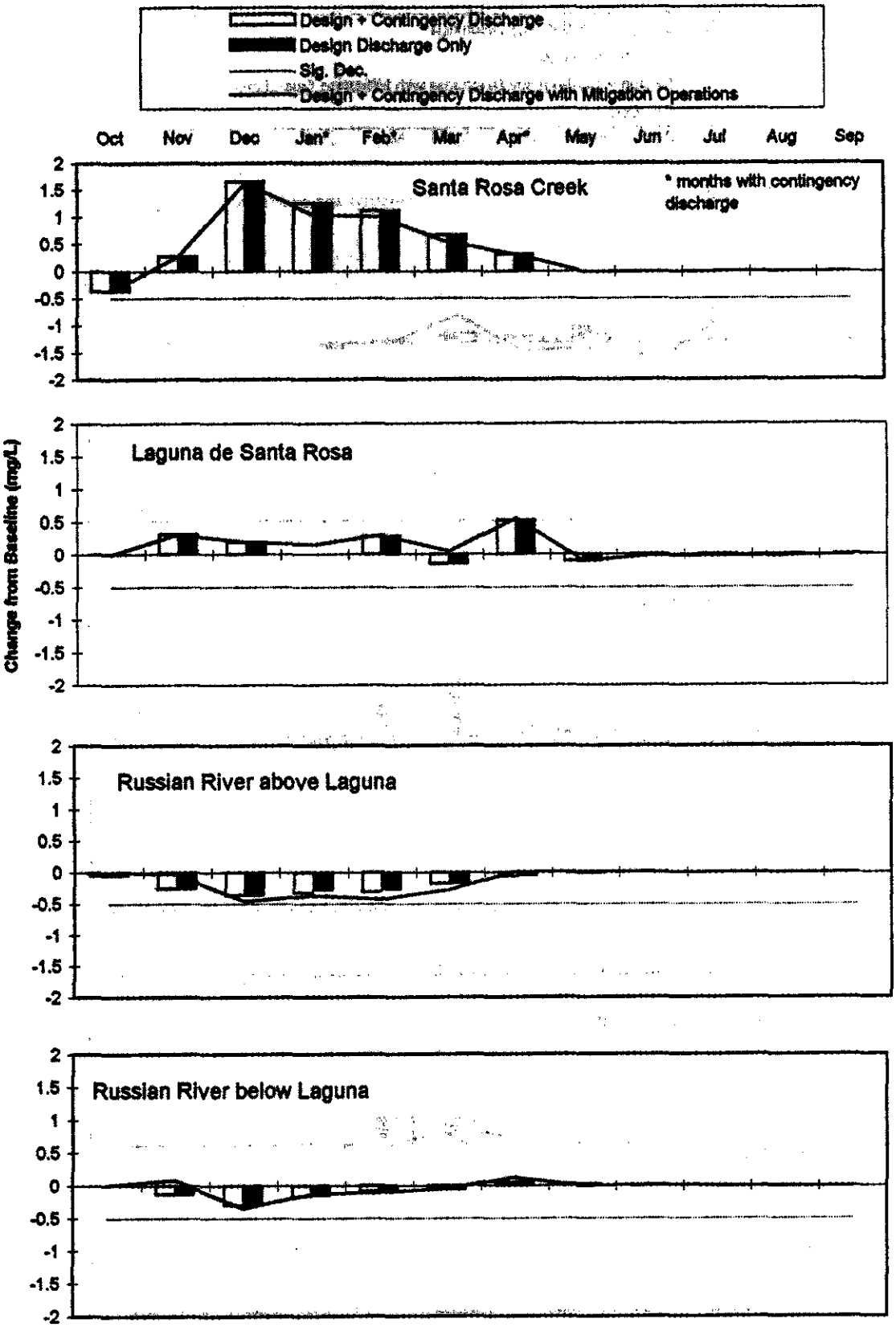

Figure 4-53. Contingency Discharge Impacts on Ammonia - 10% Discharge Component

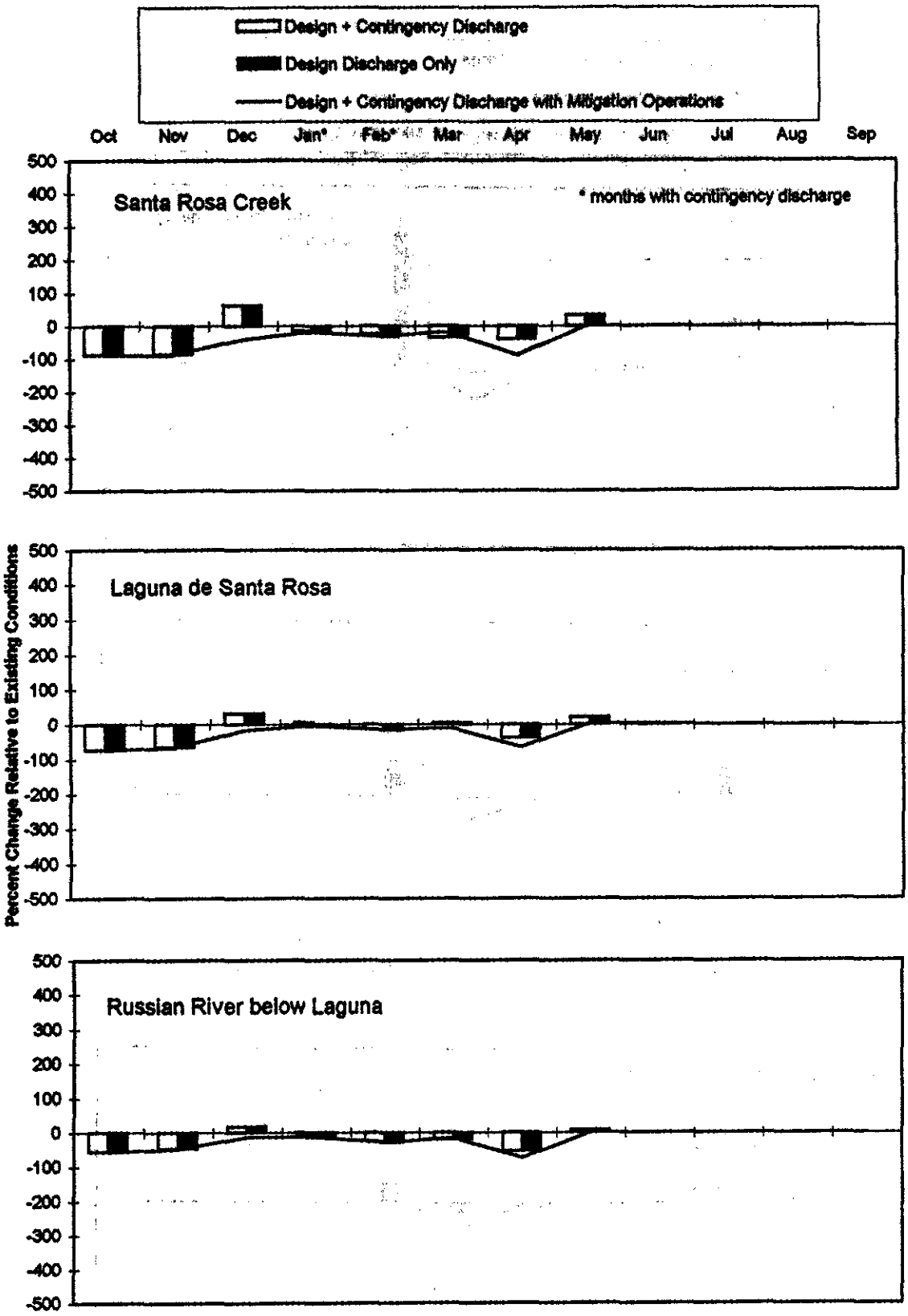

Figure 4-54. Contingency Discharge Impacts on Ammonia - 20% Discharge Component

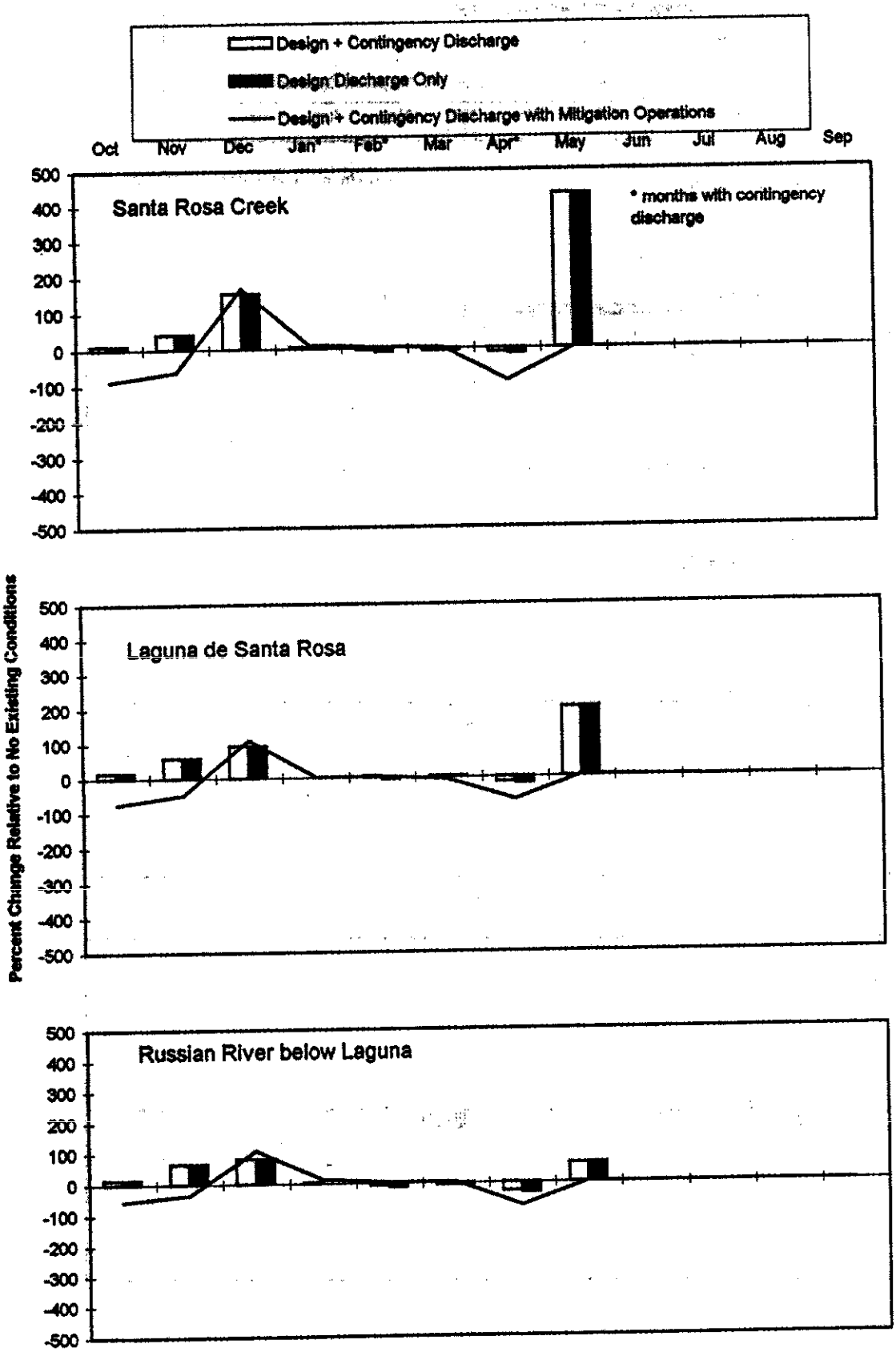

Figure 4-55. Contingency Discharge Impacts on Ammonia - 20% Russian River Discharge Component

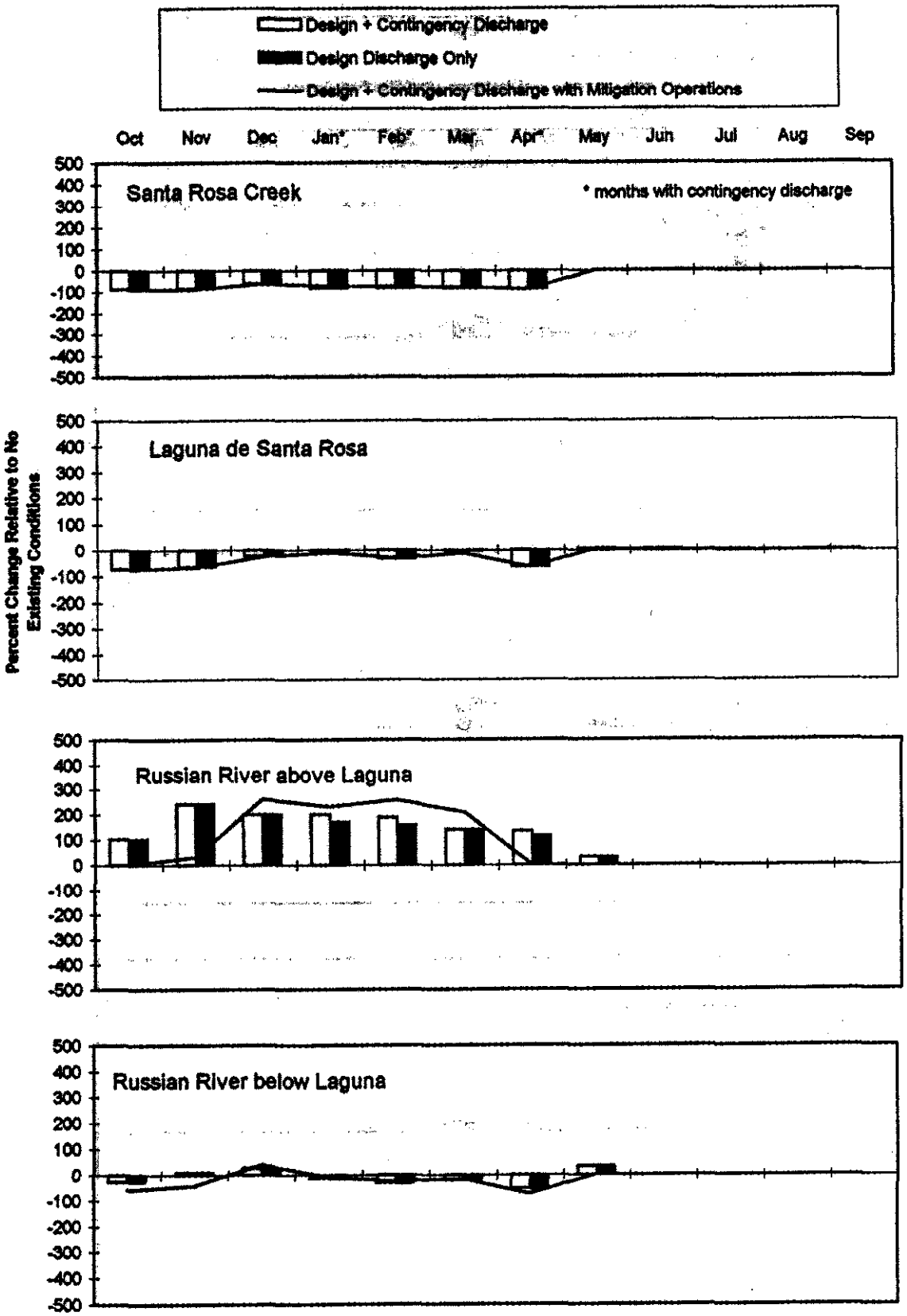

Figure 4-56. Contingency Discharge Impacts on Temperature - 10% Discharge Component

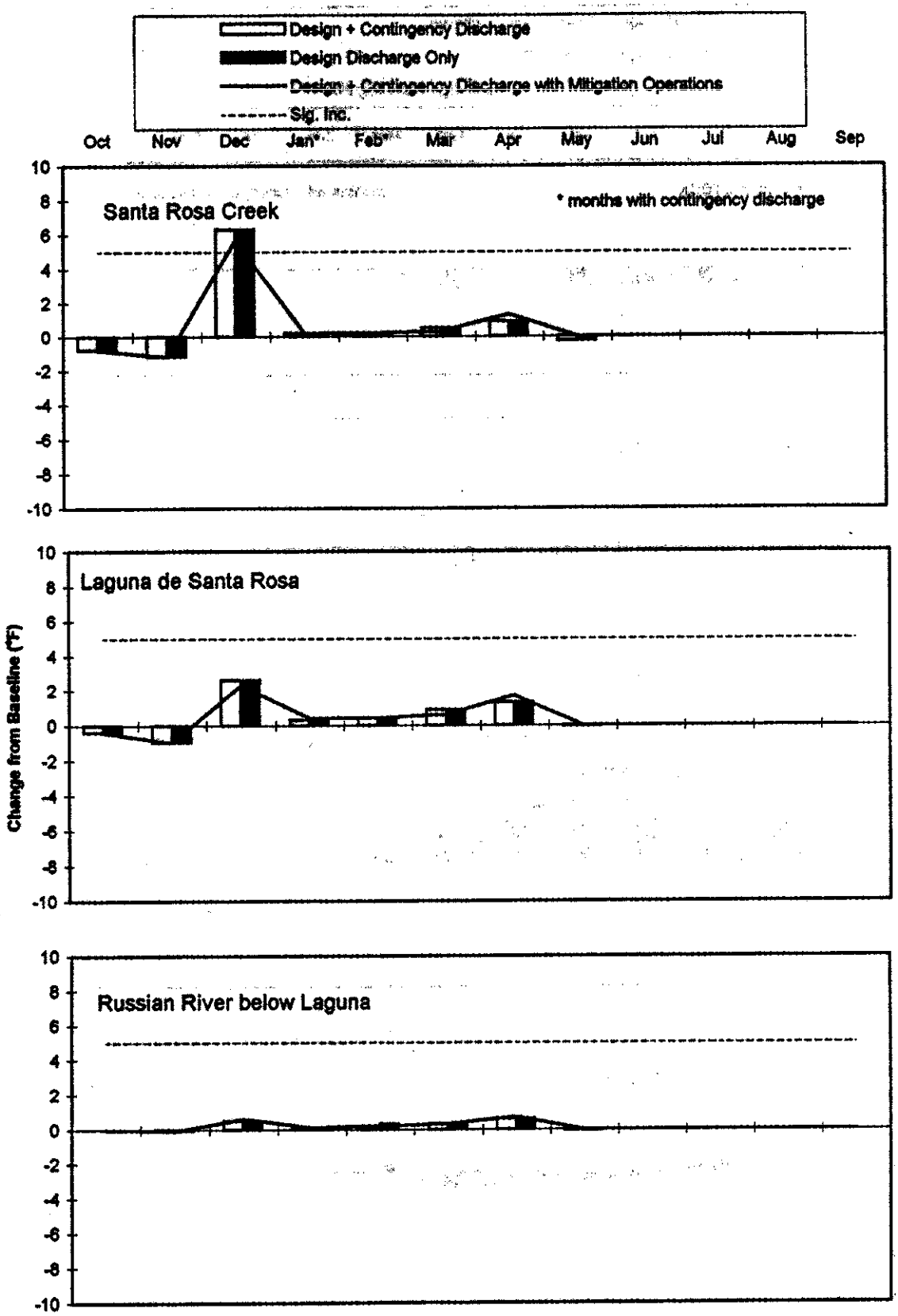

Figure 4-57. Contingency Discharge Impacts on Temperature - 20% Discharge Component

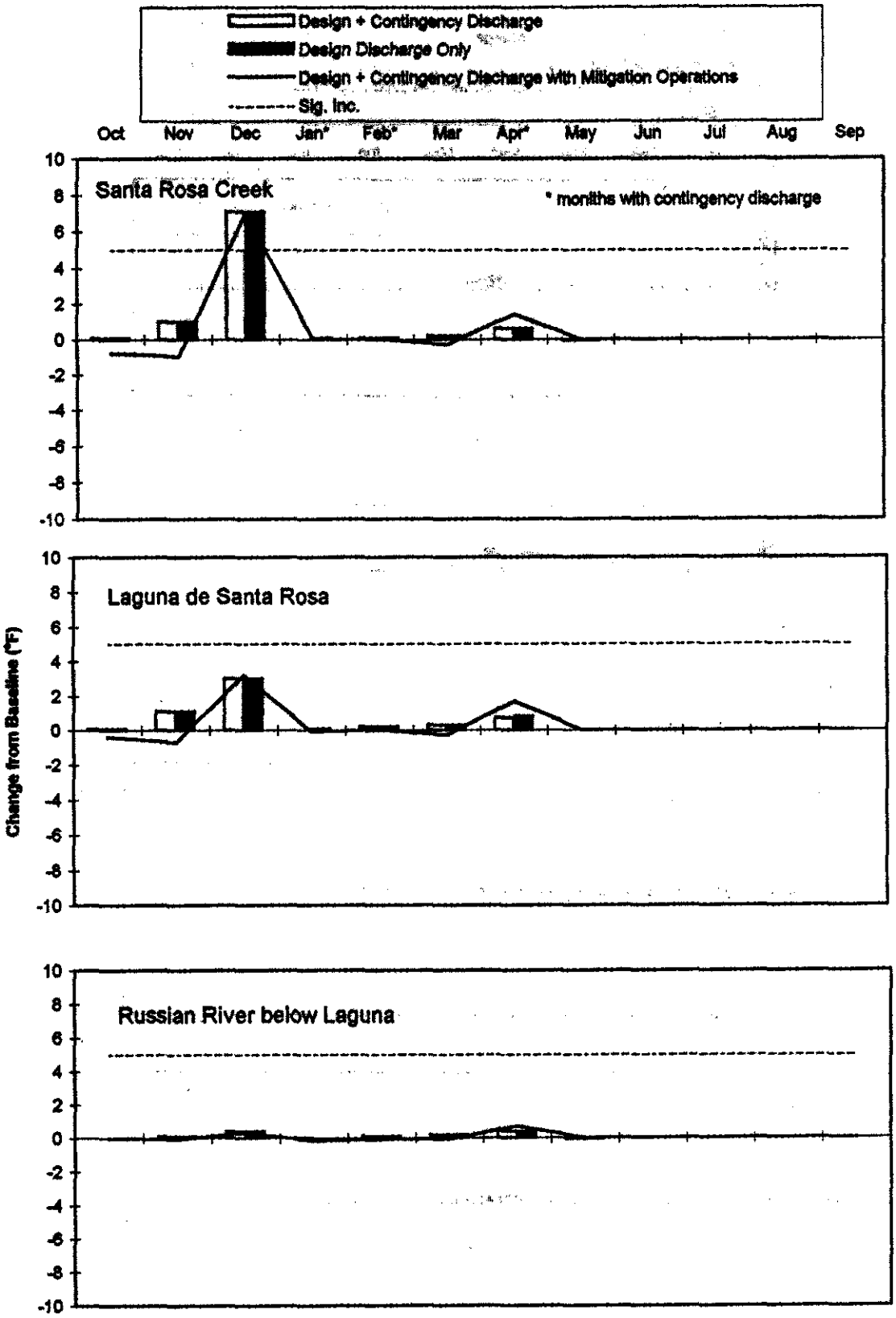

Figure 4-58. Contingency Discharge Impacts on Temperature - 20% Russian River Discharge Component

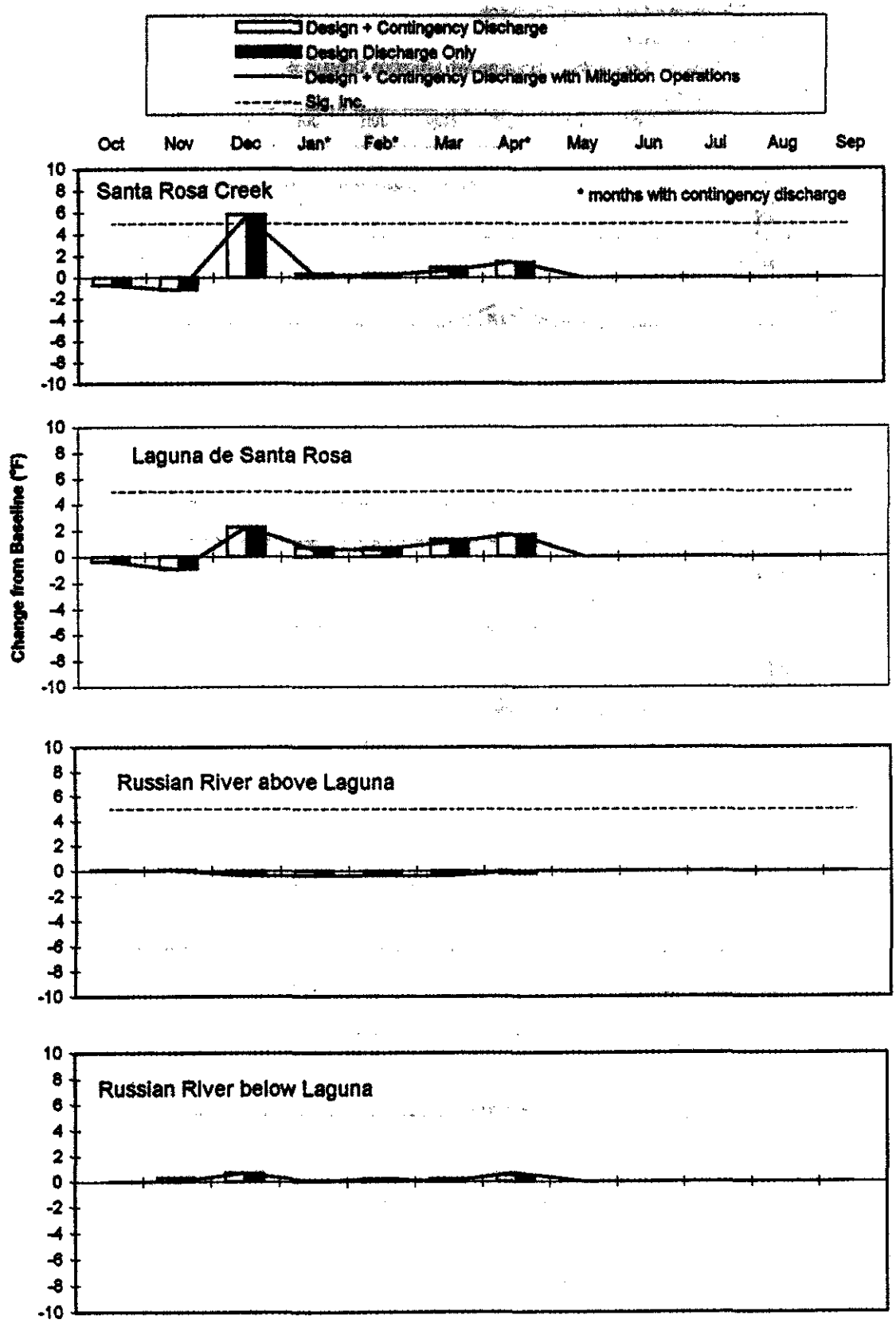

Figure 4-59. Cumulative Discharge Impacts on Benthic Algae - 1% Discharge Component

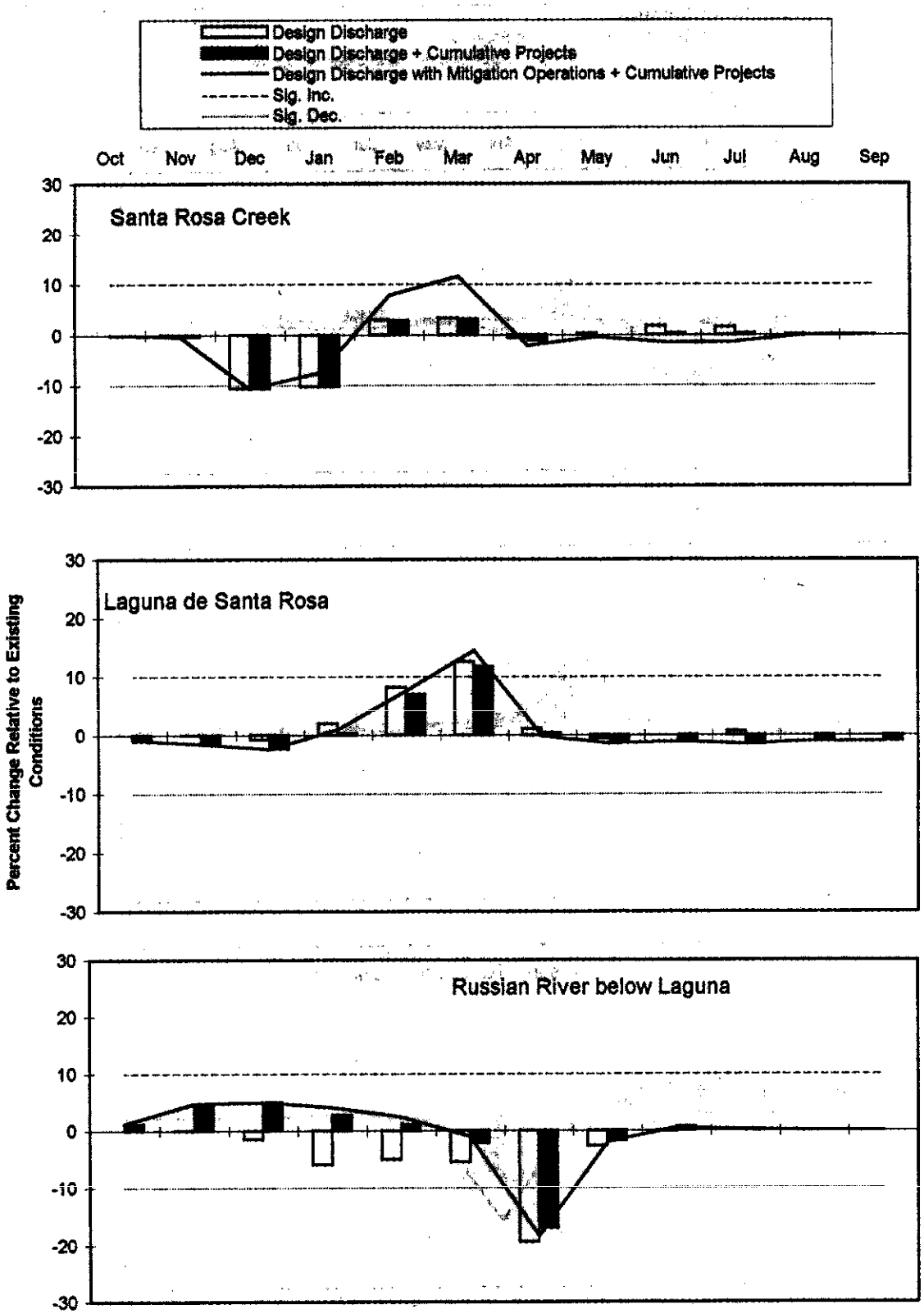

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Figure 4-59. Cumulative Discharge Impacts on Benthic Algae - 5% Discharge Component

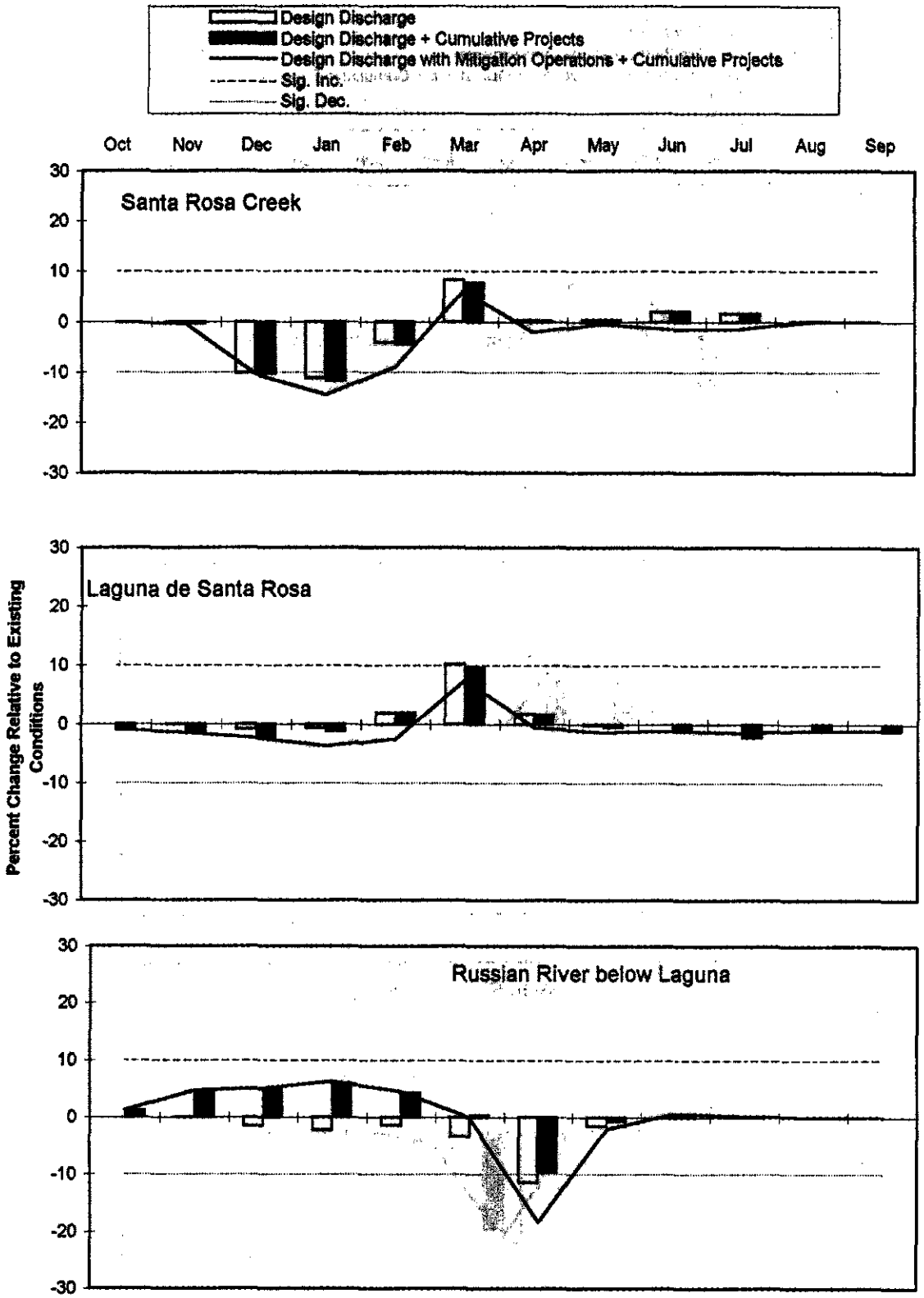

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Figure 4-59. Cumulative Discharge Impacts on Benthic Algae - 10% Discharge Component

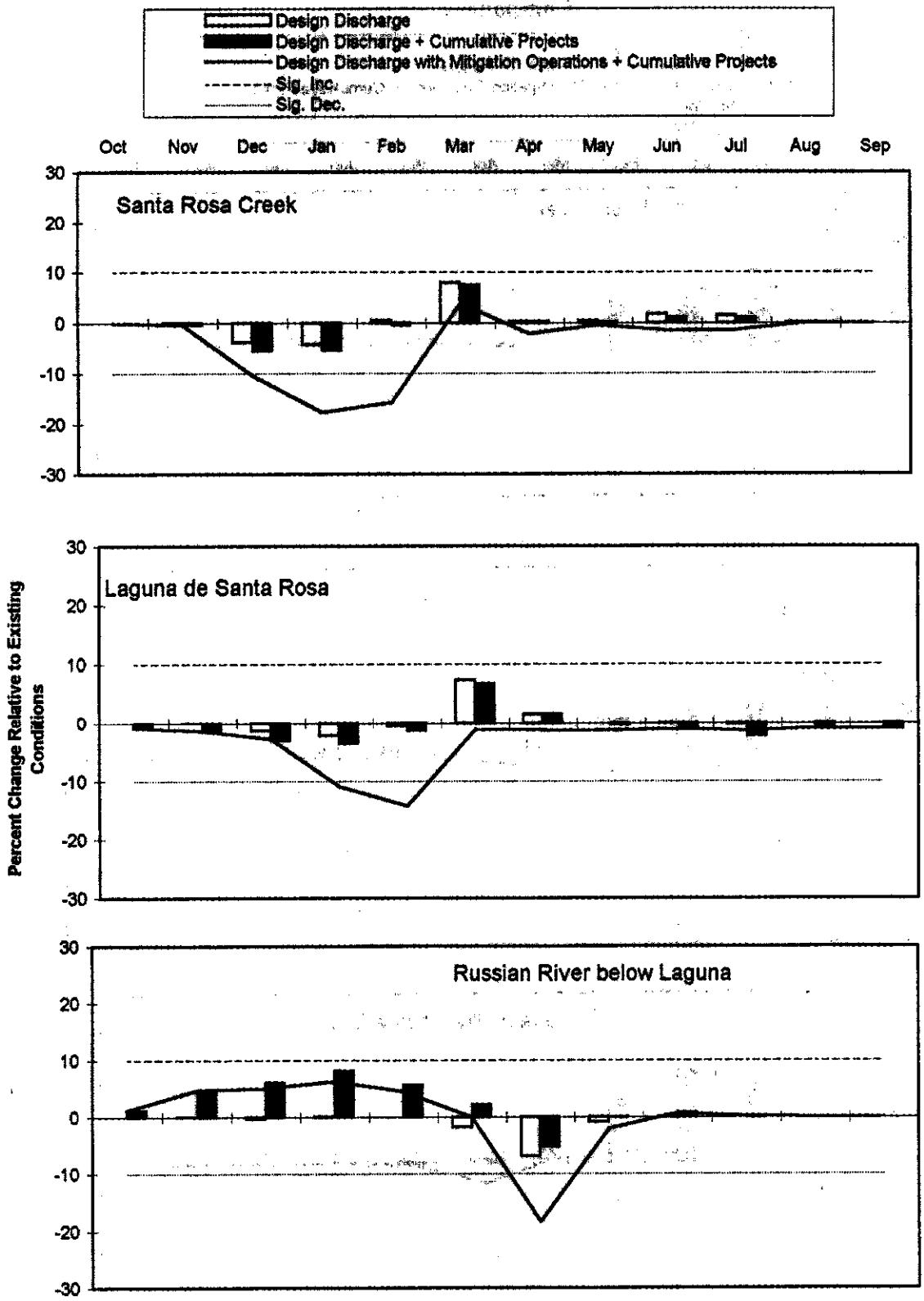

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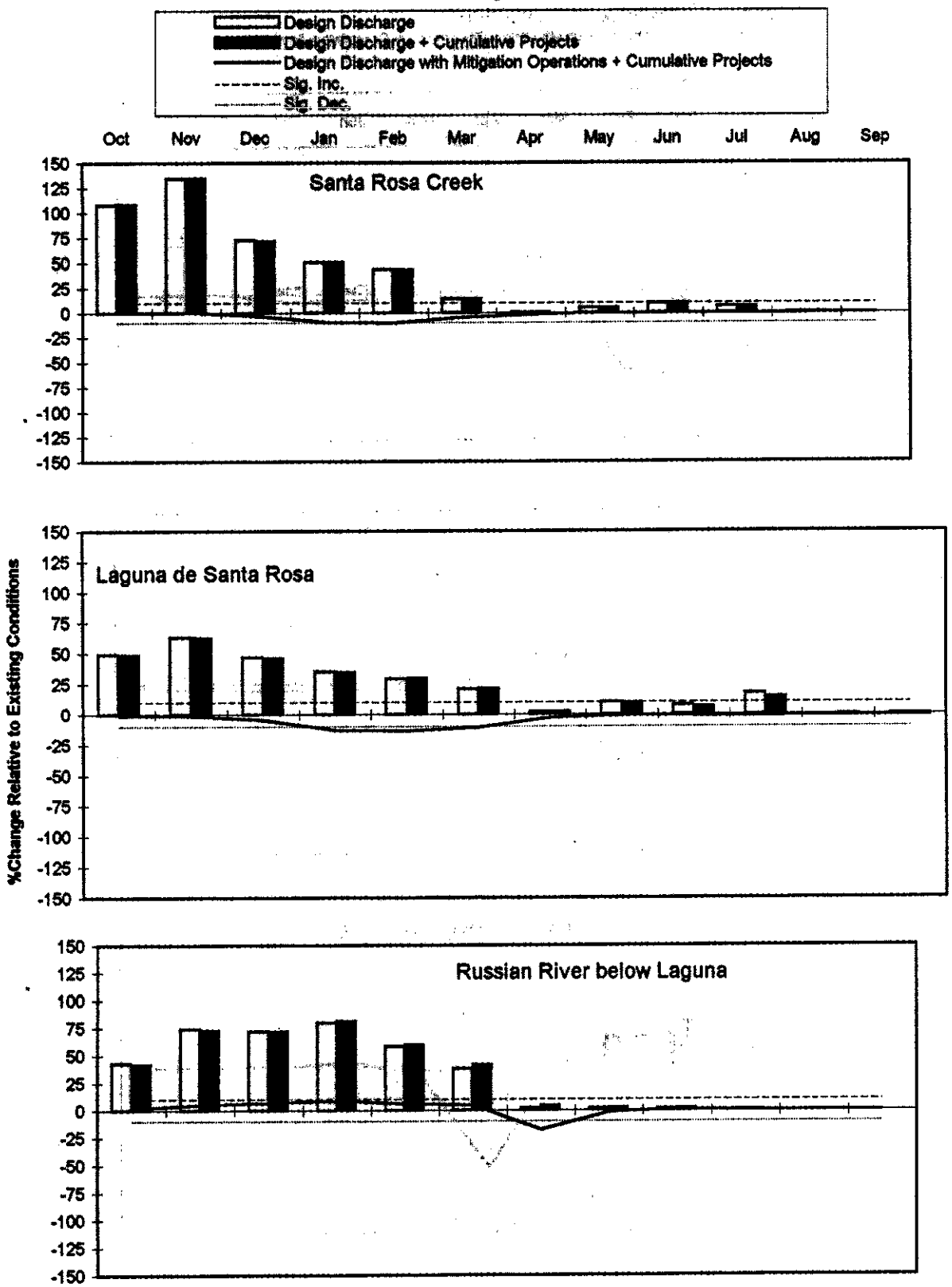
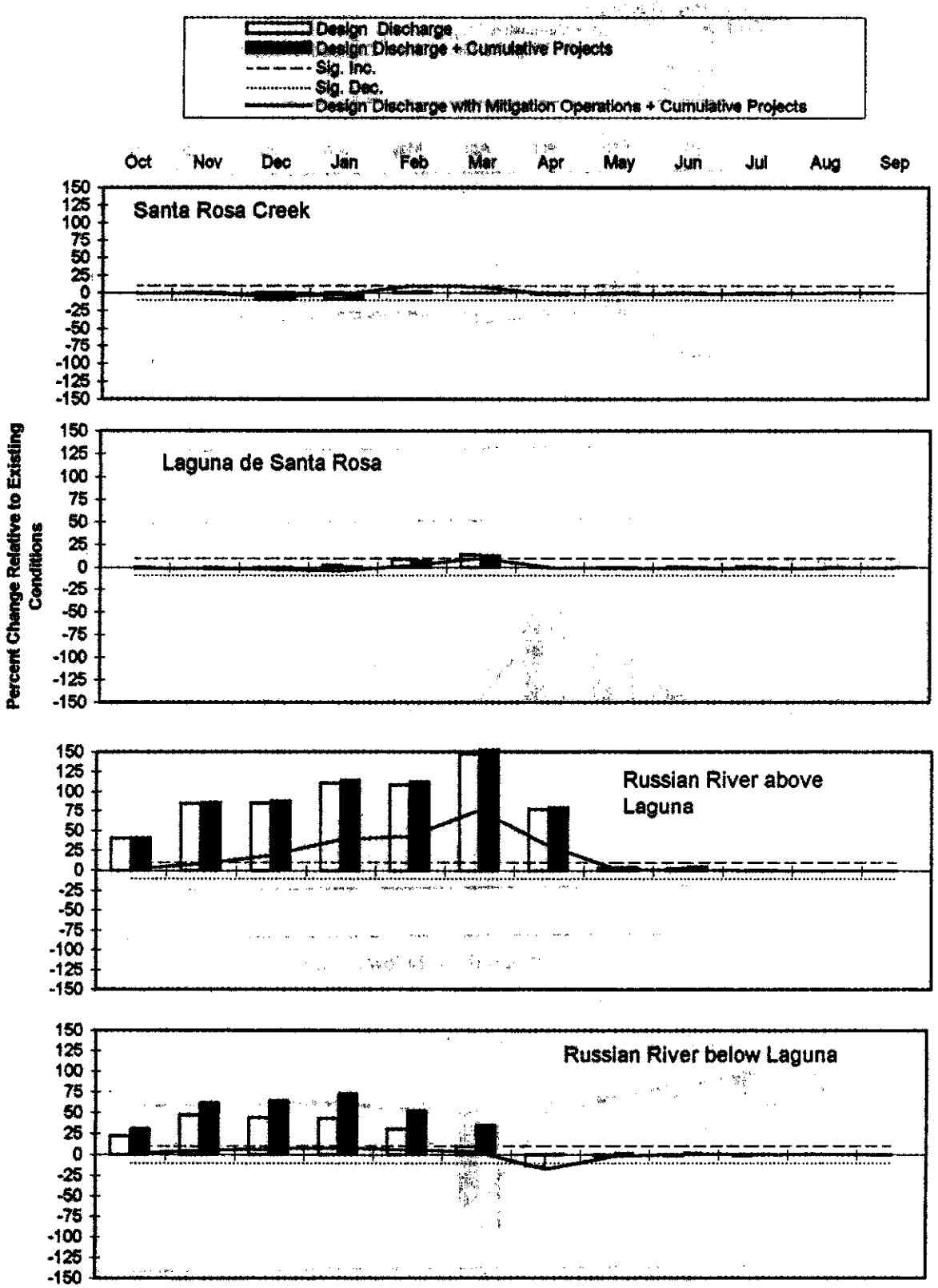
Figure 4-59. Cumulative Discharge Impacts on Benthic Algae - 20% Laguna Discharge Component



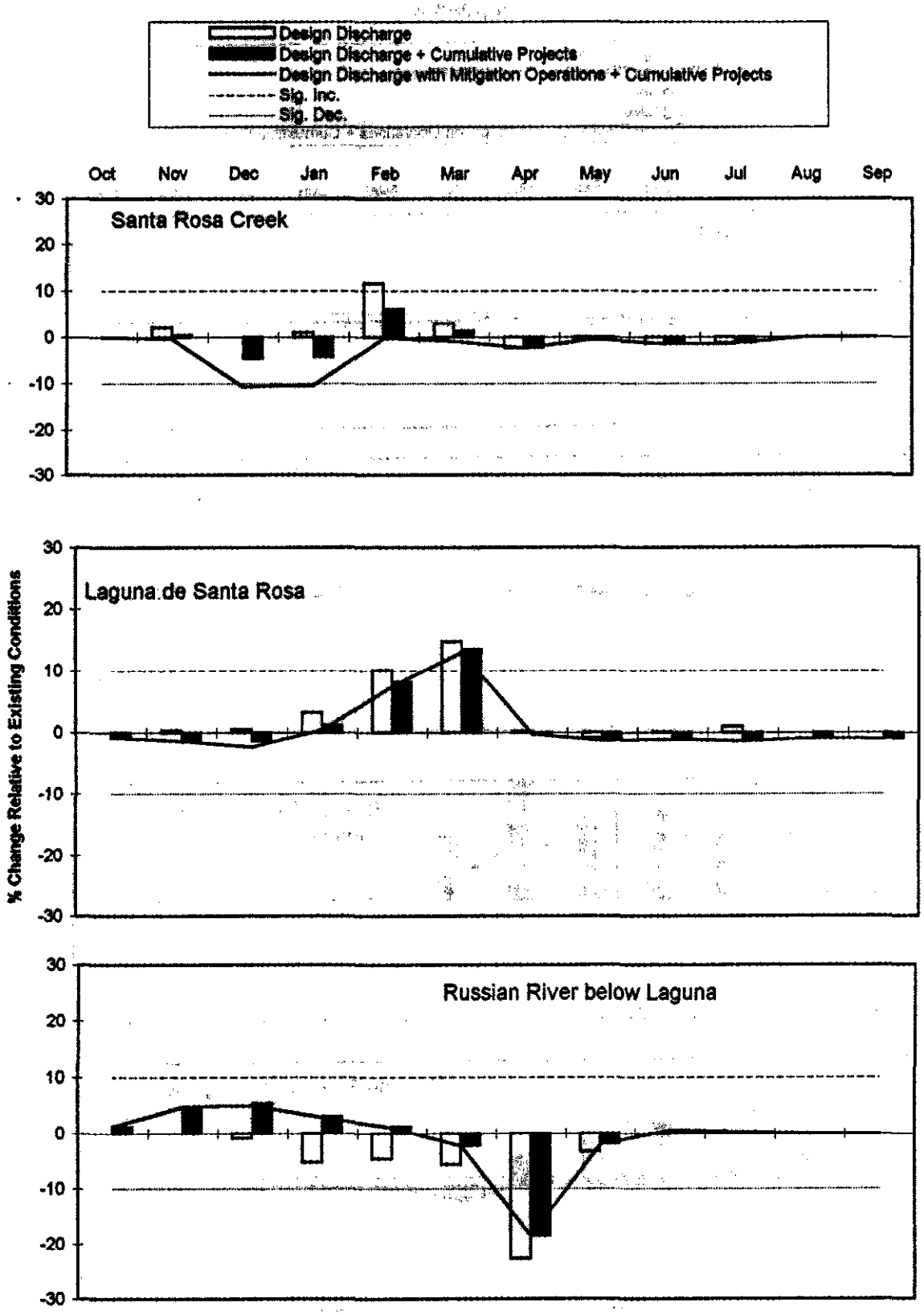
BACUM1.XLS

Figure 4-59. Cumulative Discharge Impacts on Benthic Algae - 20% Russian River Discharge Component



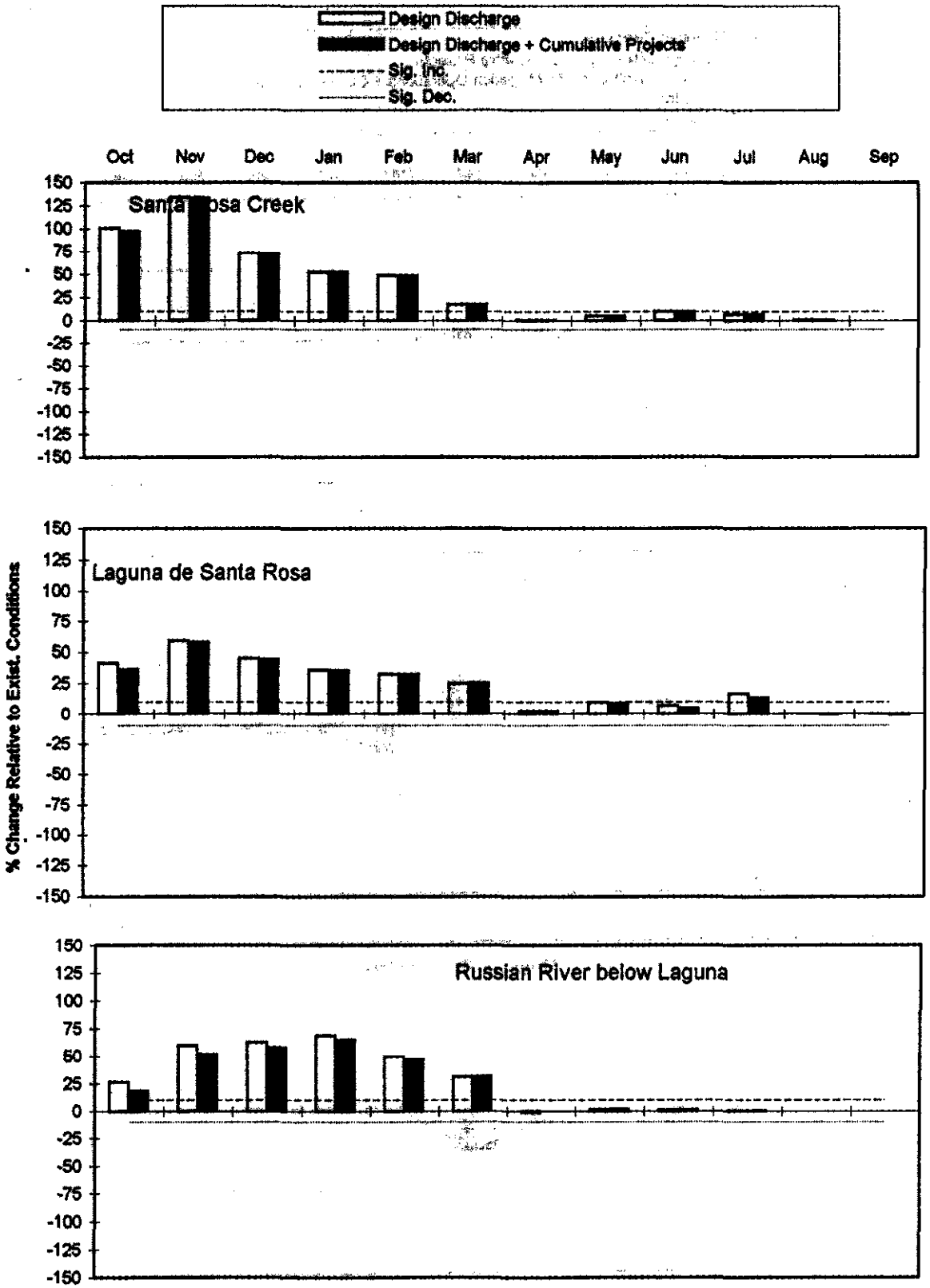
BACUM1.XLS

Figure 4-59. Cumulative Discharge Impacts on Benthic Algae - Geysers Discharge Component



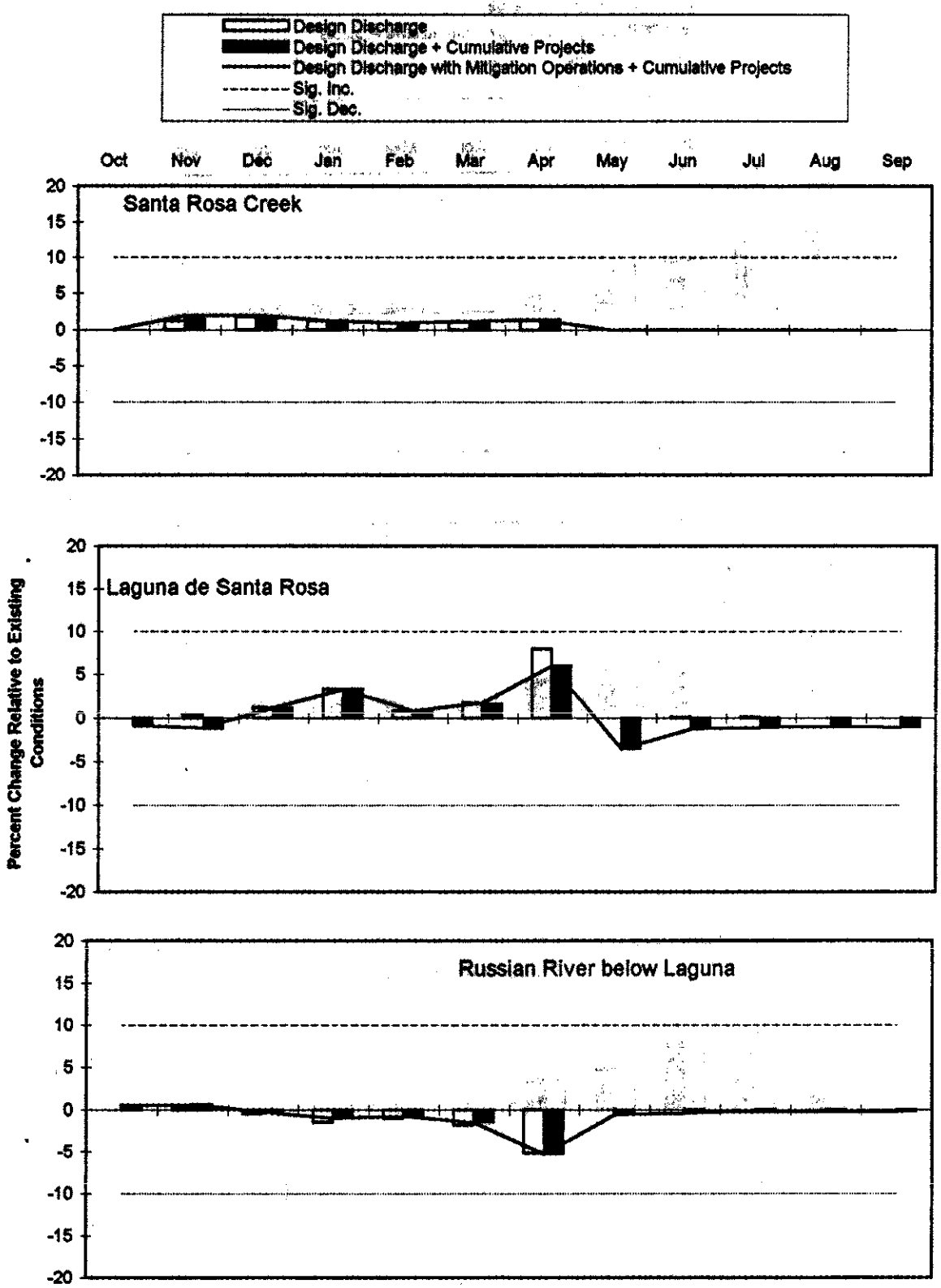
BACUM1.XLS

Figure 4-59. Cumulative Discharge Impacts on Benthic Algae - No Project Discharge Component



BACUM1.XLS

Figure 4-60. Cumulative Discharge Impacts on Planktonic Algae - 1% Discharge Component



PACUM.XLS

Figure 4-60. Cumulative Discharge Impacts on Planktonic Algae - 5% Discharge Component

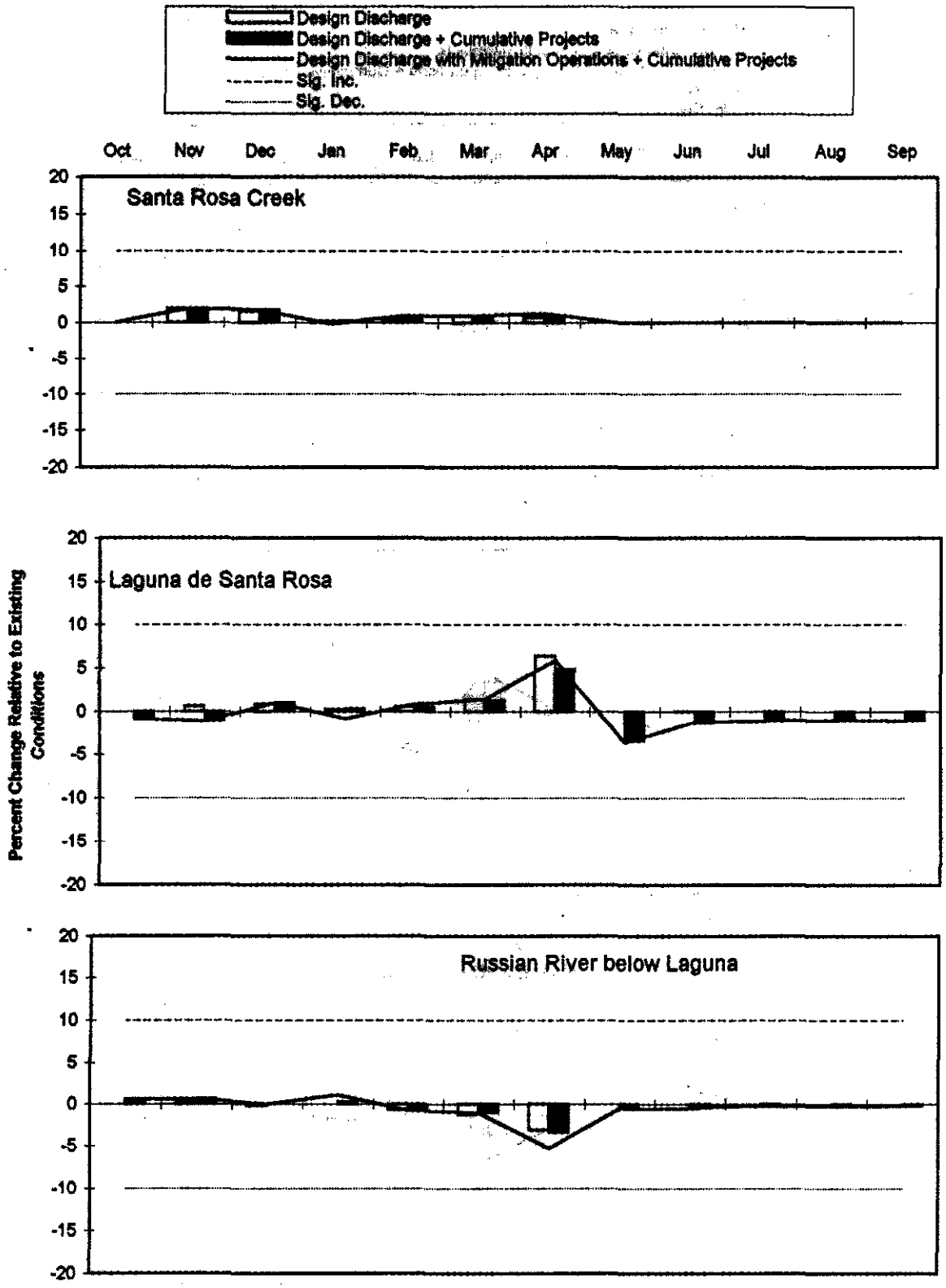


Figure 4-60. Cumulative Discharge Impacts on Planktonic Algae - 10% Discharge Component

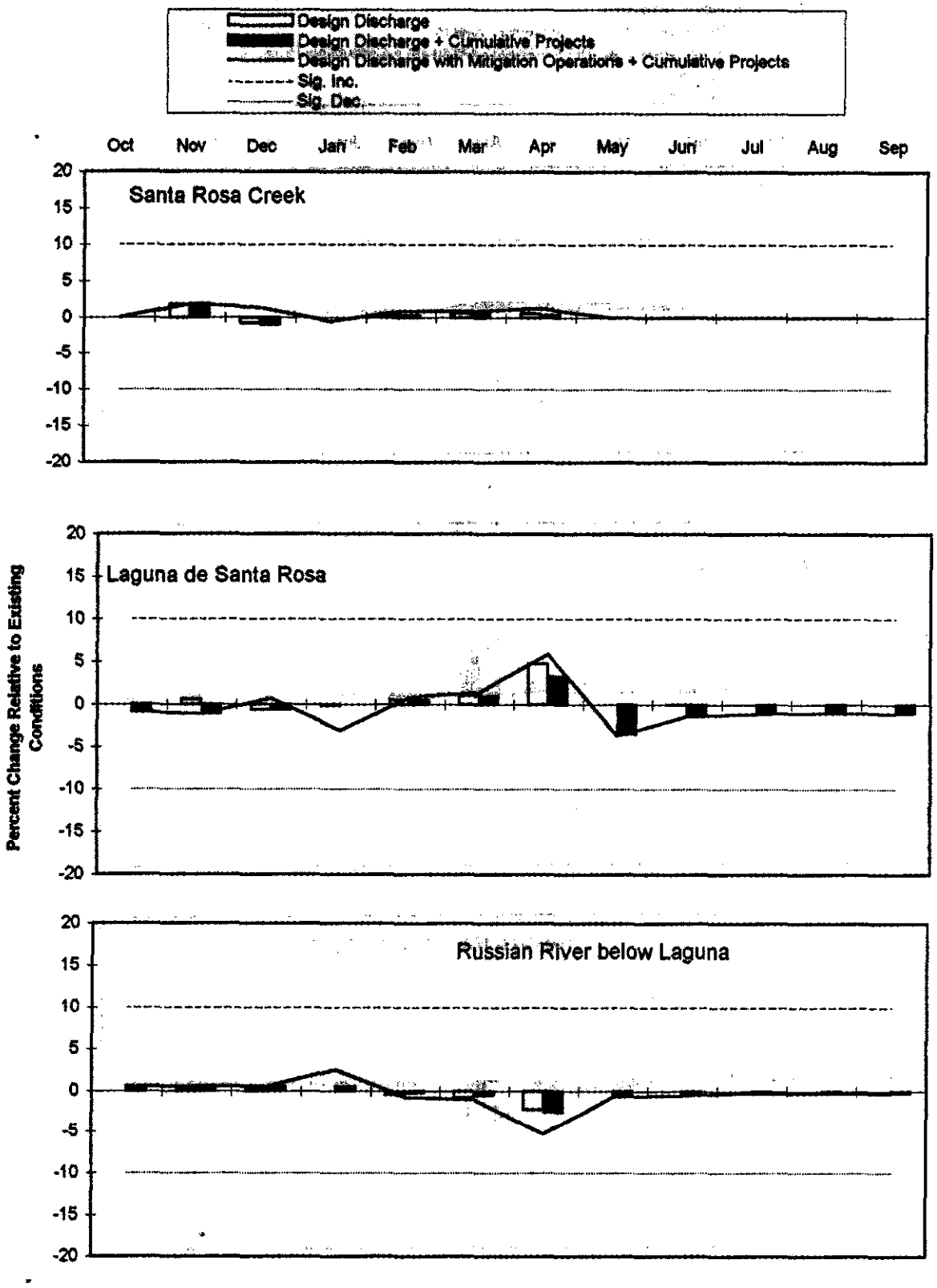


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Figure 4-60. Cumulative Discharge Impacts on Planktonic Algae - 20% Laguna Discharge Component

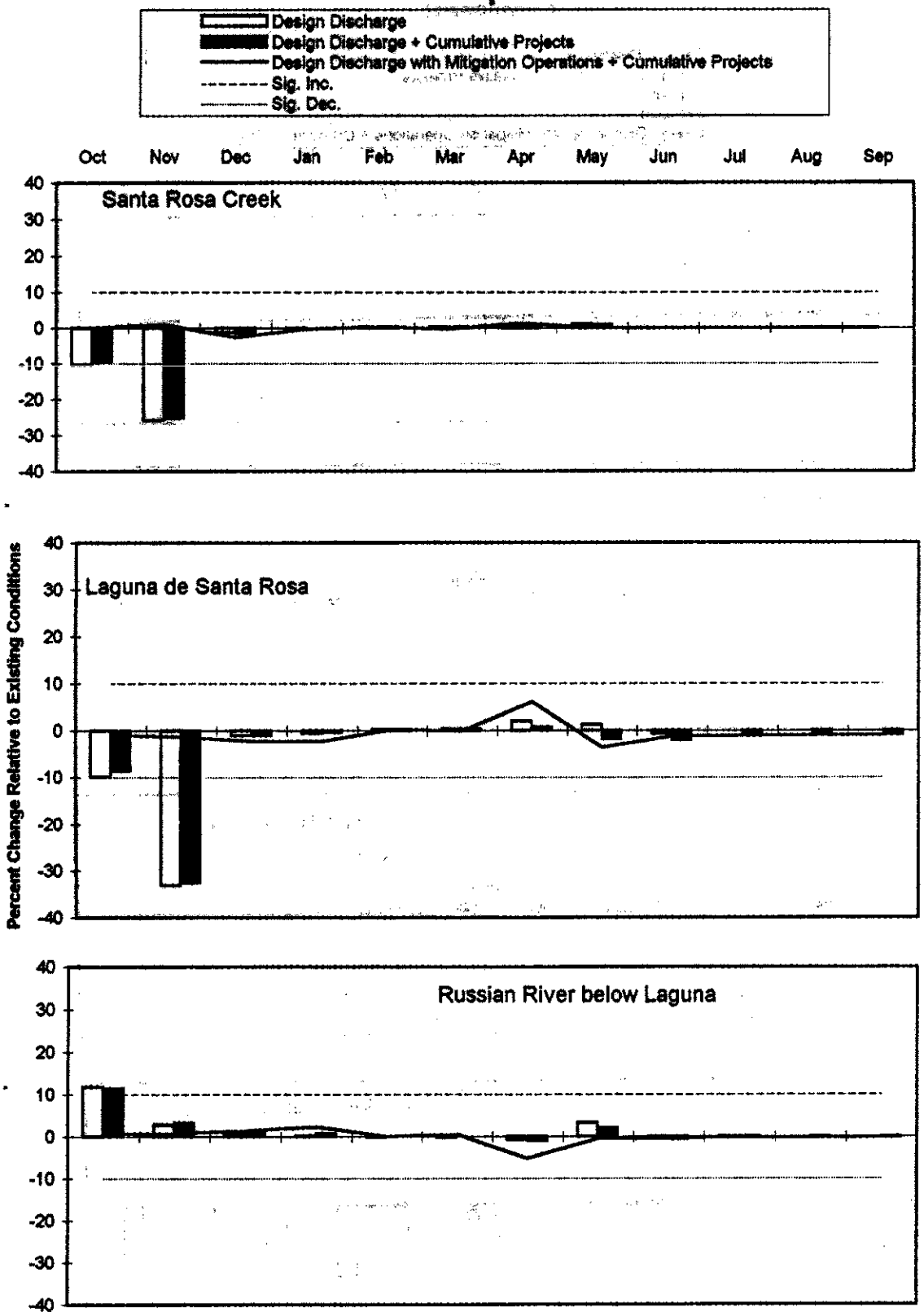

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Figure 4-60. Cumulative Discharge Impacts on Planktonic Algae - 20% Russian River Discharge Component

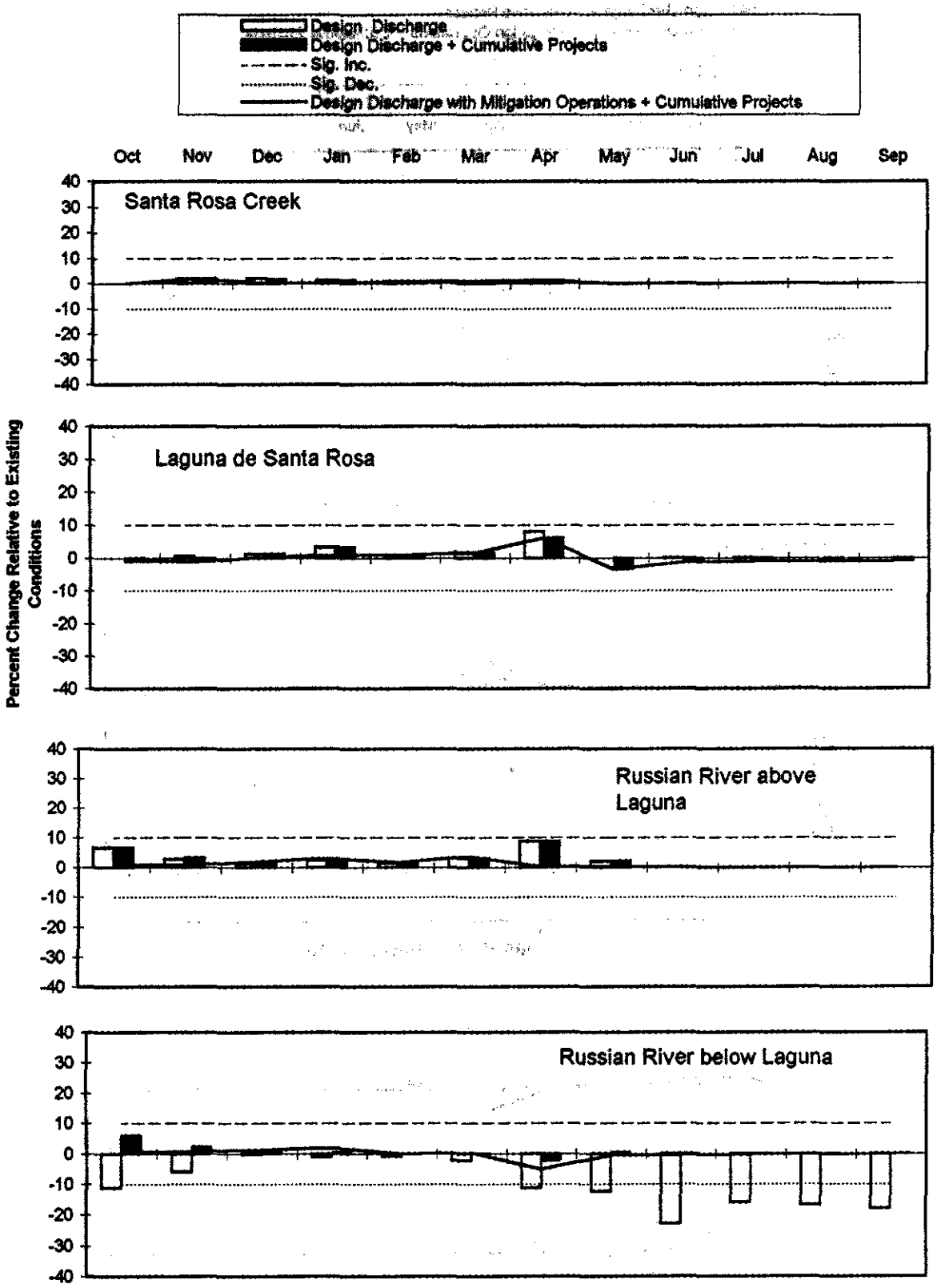

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Figure 4-60. Cumulative Discharge Impacts on Planktonic Algae - Geysers Discharge Component

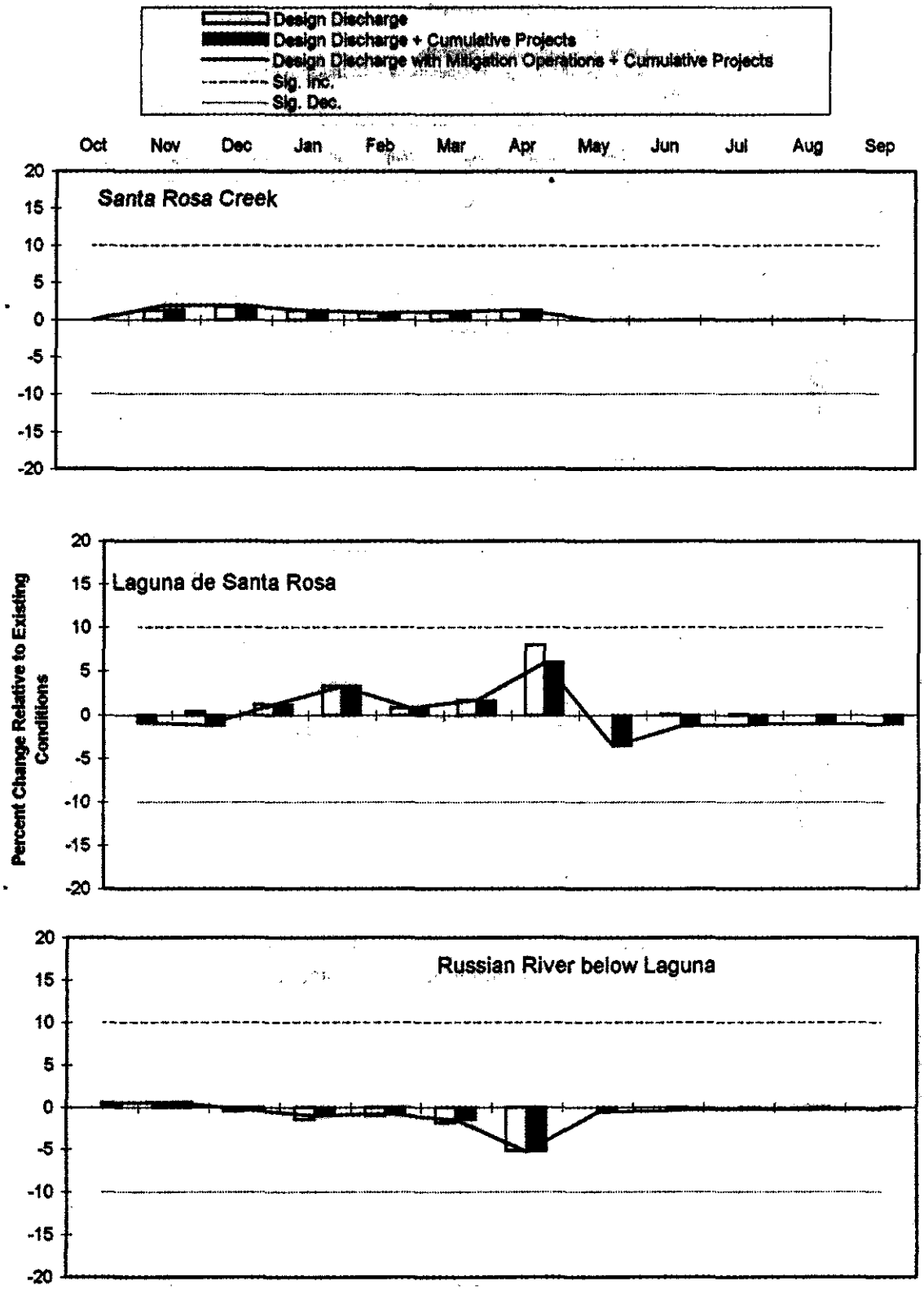

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Figure 4-60. Cumulative Discharge Impacts on Planktonic Algae - No Project Discharge Component

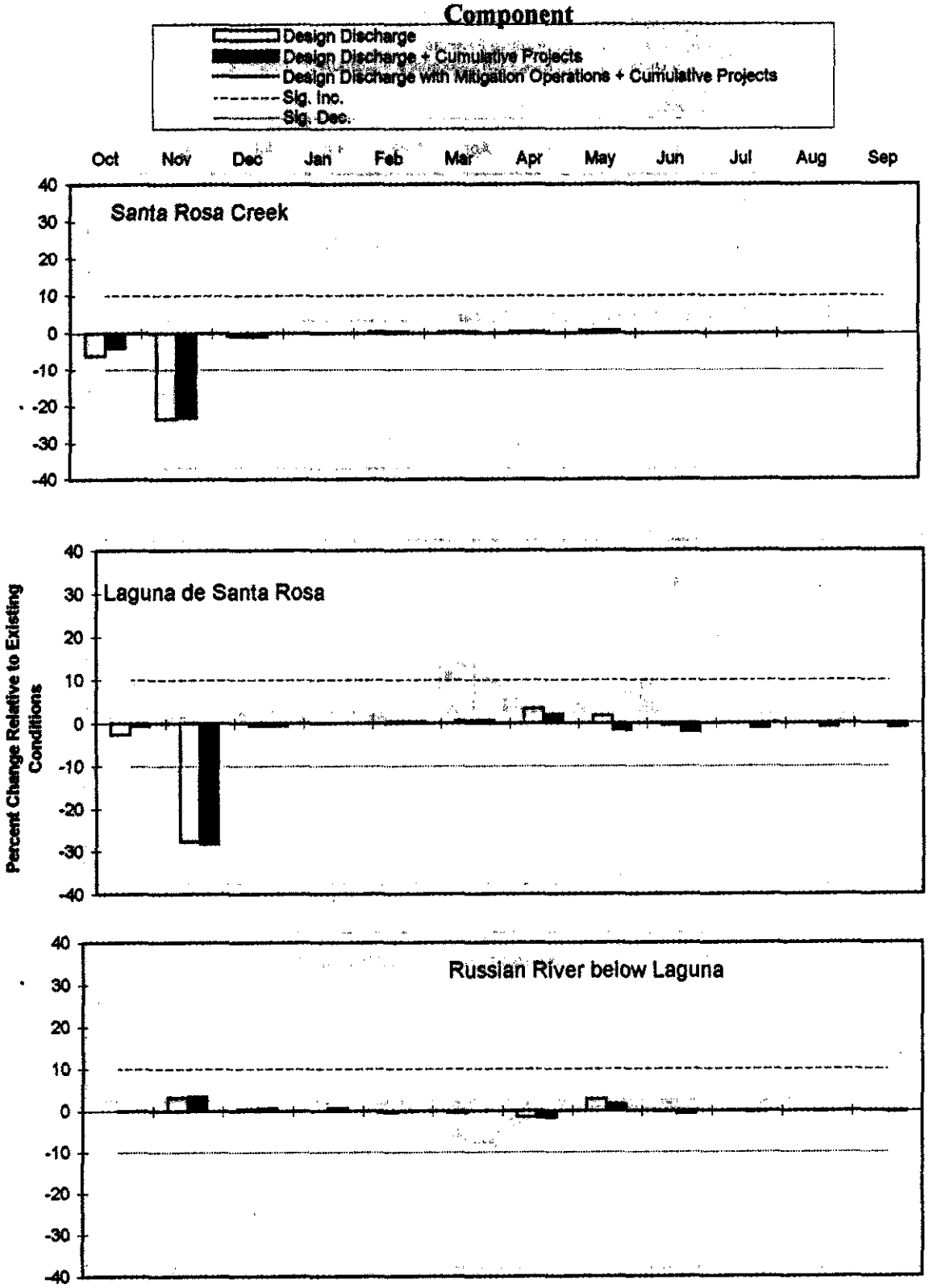

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Figure 4-61. Cumulative Discharge Impacts on Dissolved Oxygen - 1% Discharge Component

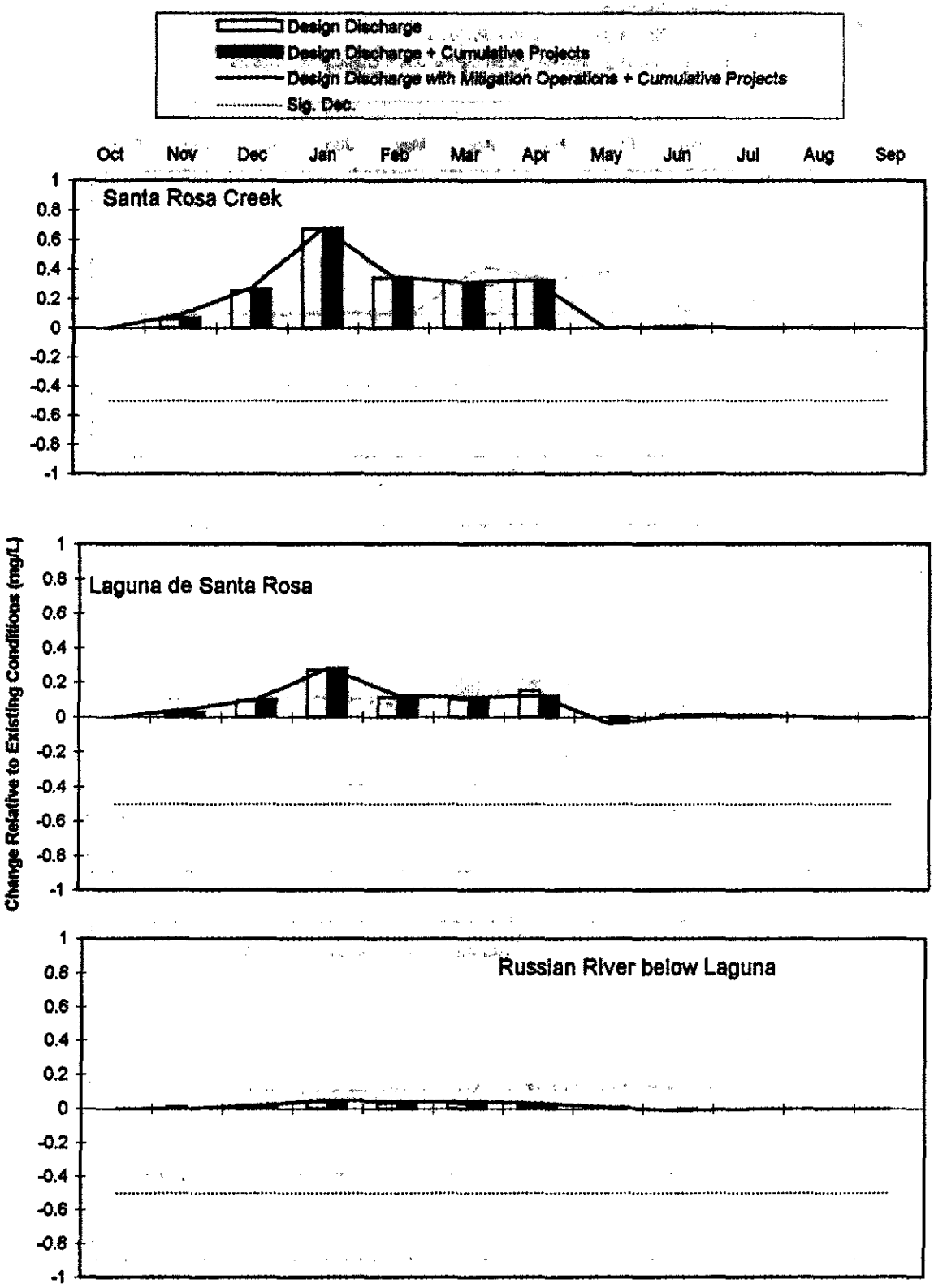

Figure 4-61. Cumulative Discharge Impacts on Dissolved Oxygen - 5% Discharge Component

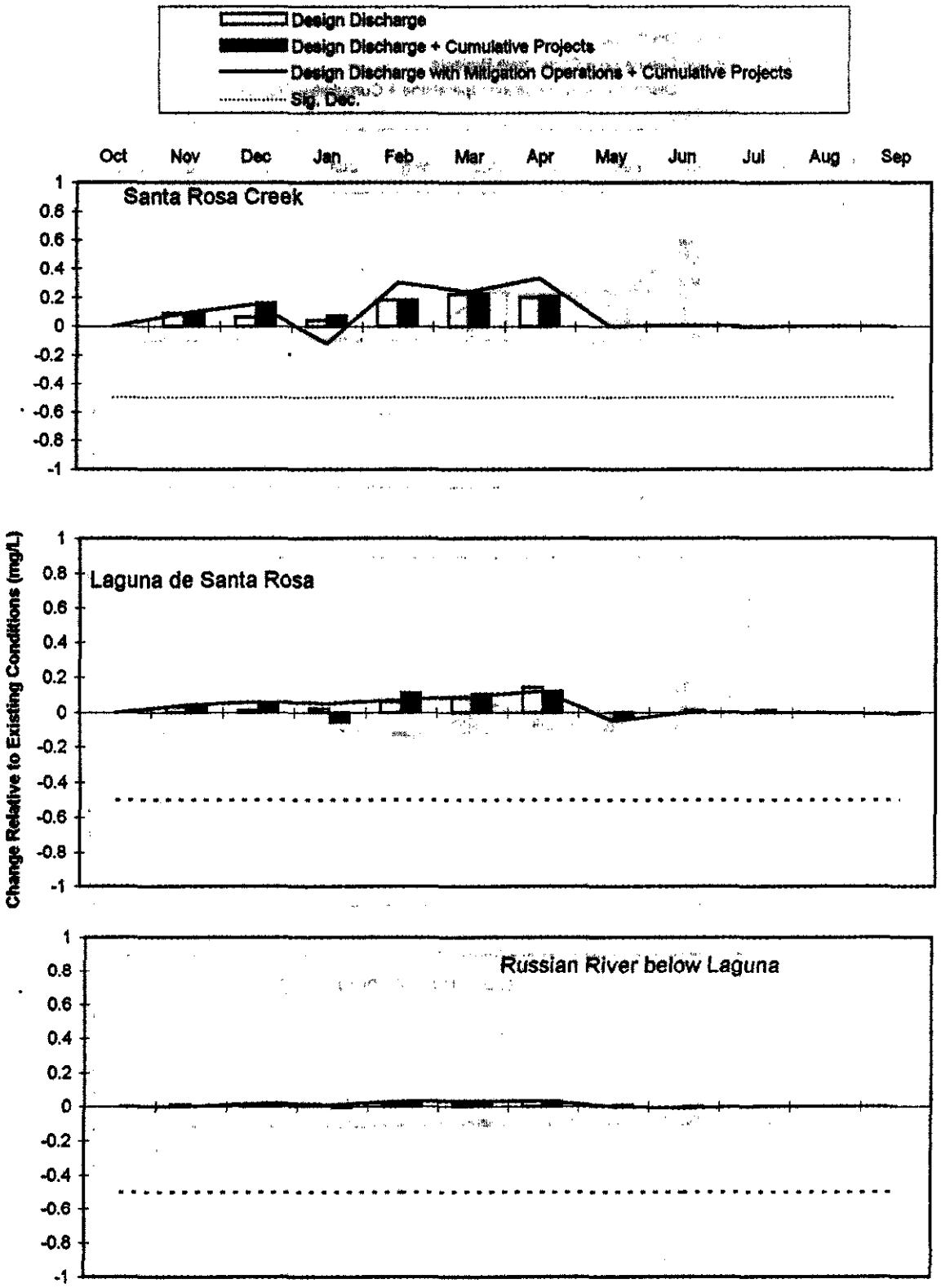

Figure 4-61. Cumulative Discharge Impacts on Dissolved Oxygen - 10% Discharge Component

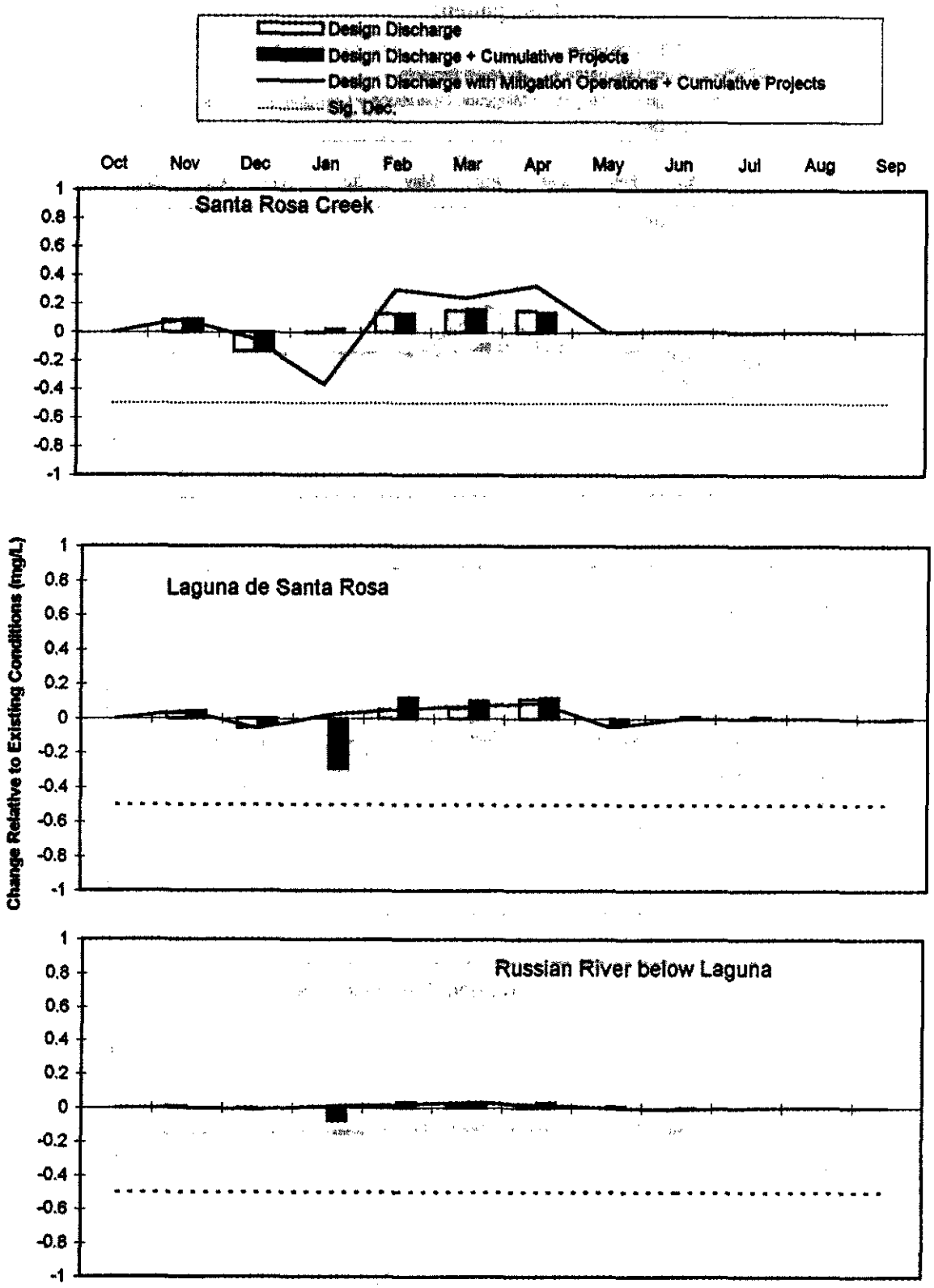

Figure 4-61. Cumulative Discharge Impacts on Dissolved Oxygen - 20% Laguna Discharge Component

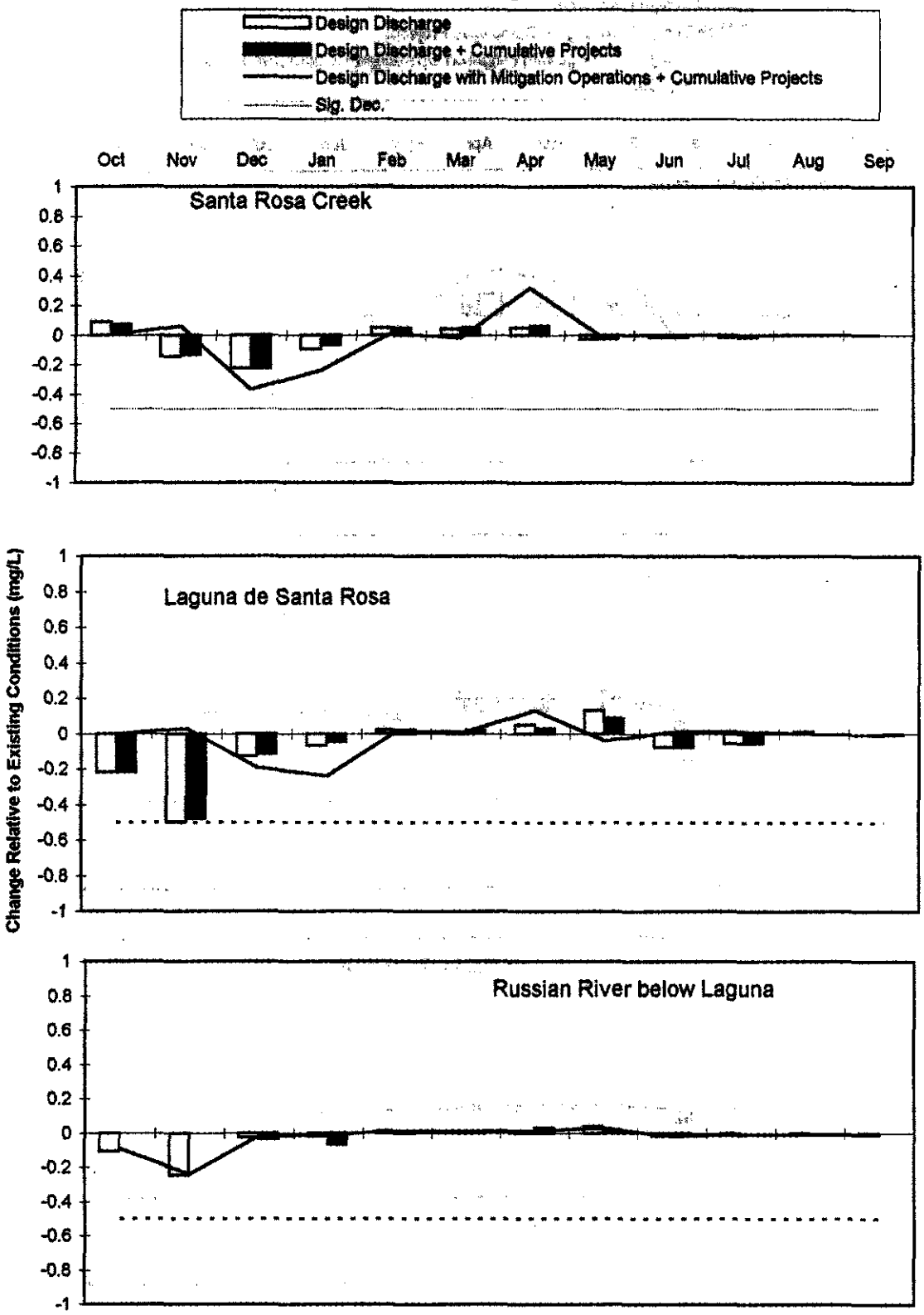

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Figure 4-61. Cumulative Discharge Impacts on Dissolved Oxygen - 20% Russian River Discharge Component

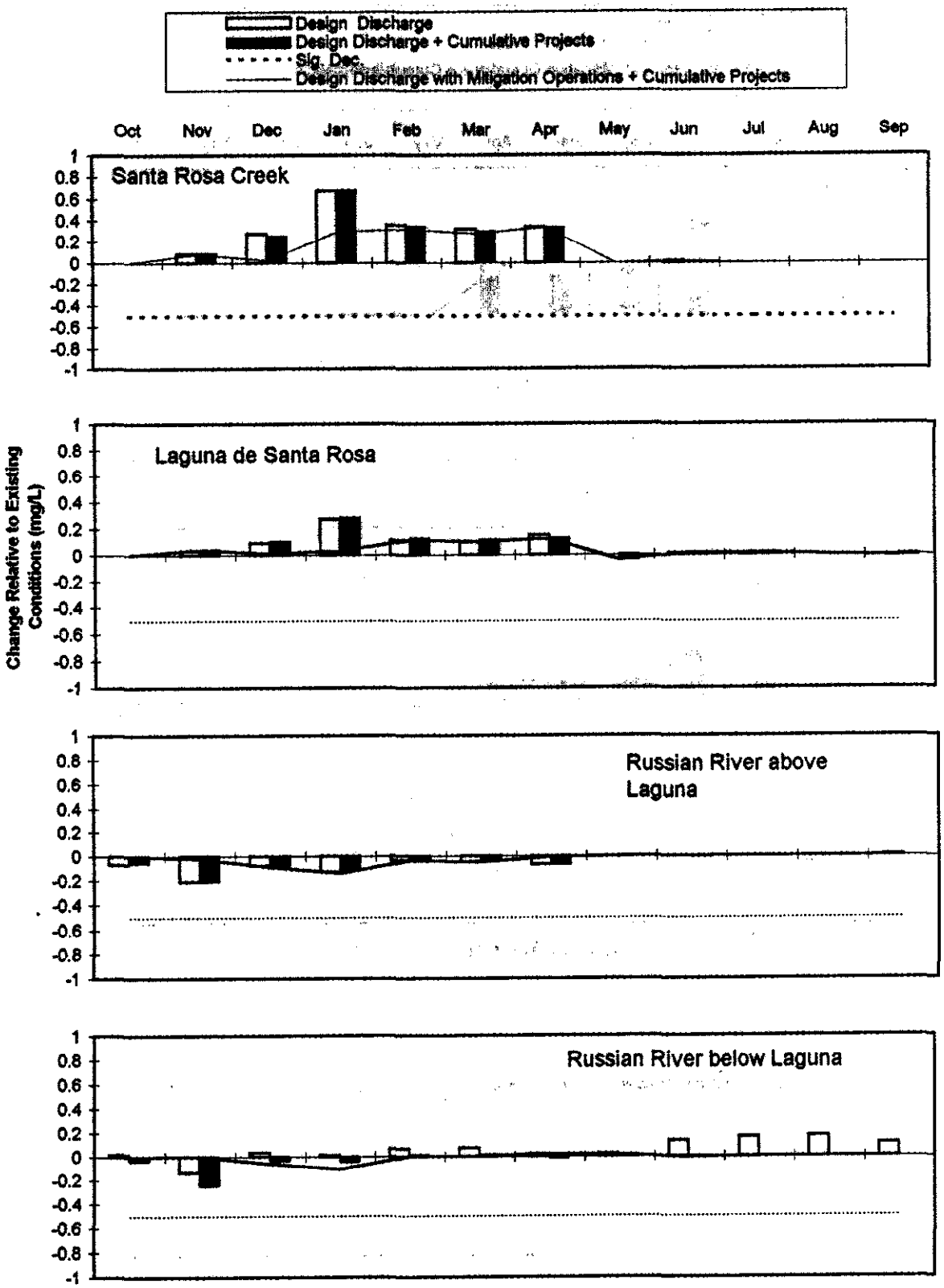

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Figure 4-61. Cumulative Discharge Impacts on Dissolved Oxygen - Geysers Discharge Component

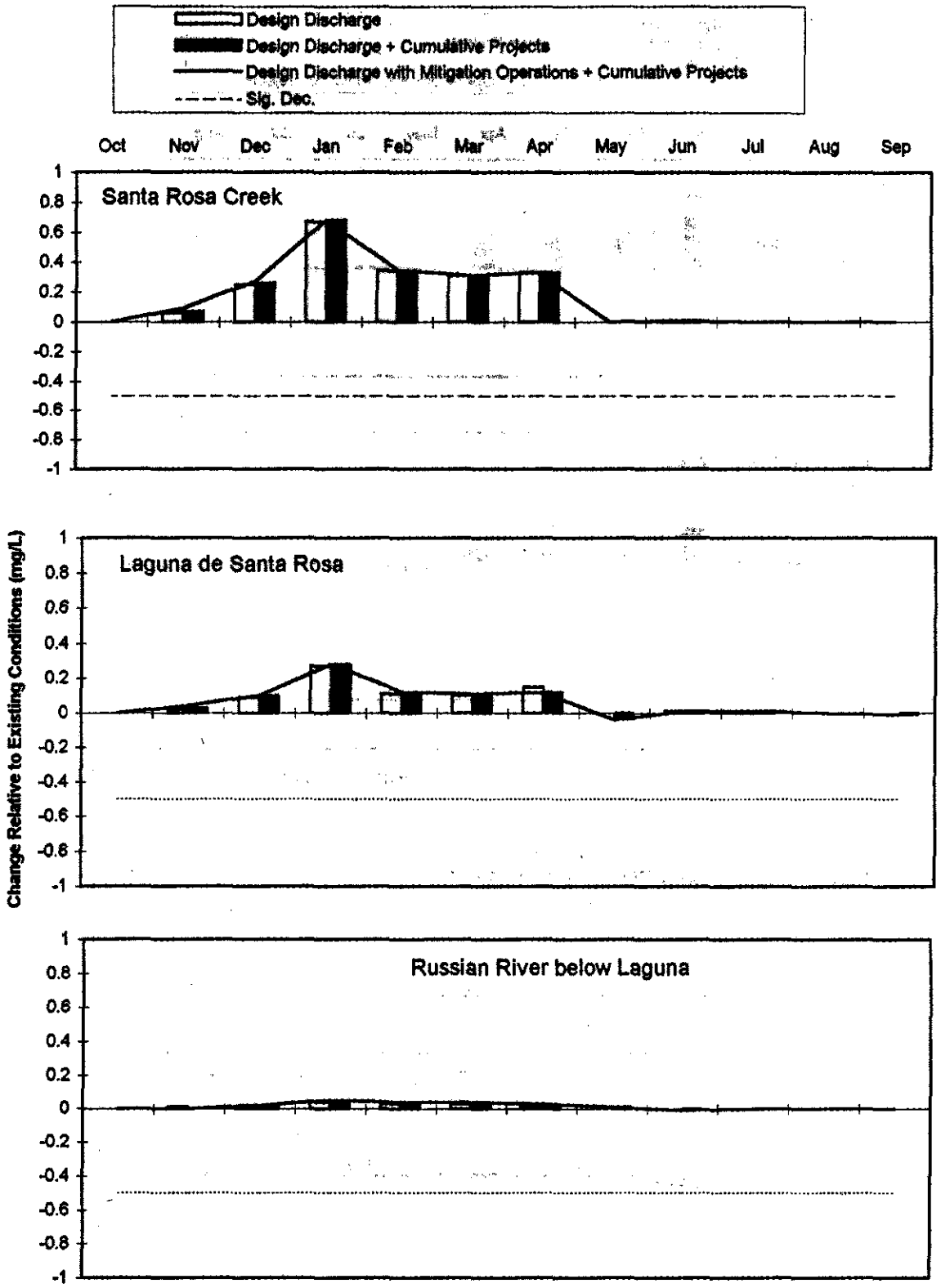


Figure 4-61. Cumulative Discharge Impacts on Dissolved Oxygen - No Project Discharge Component

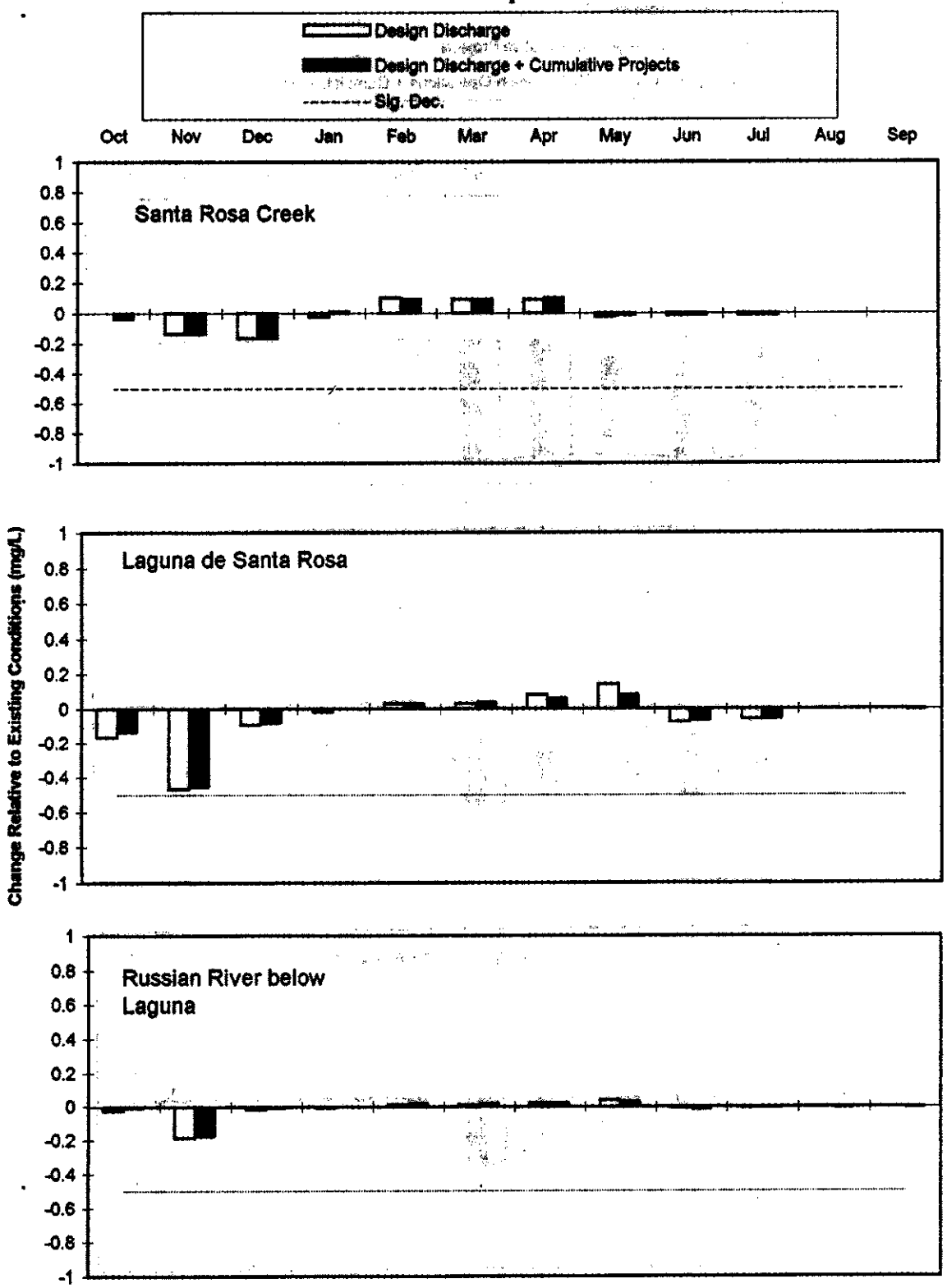
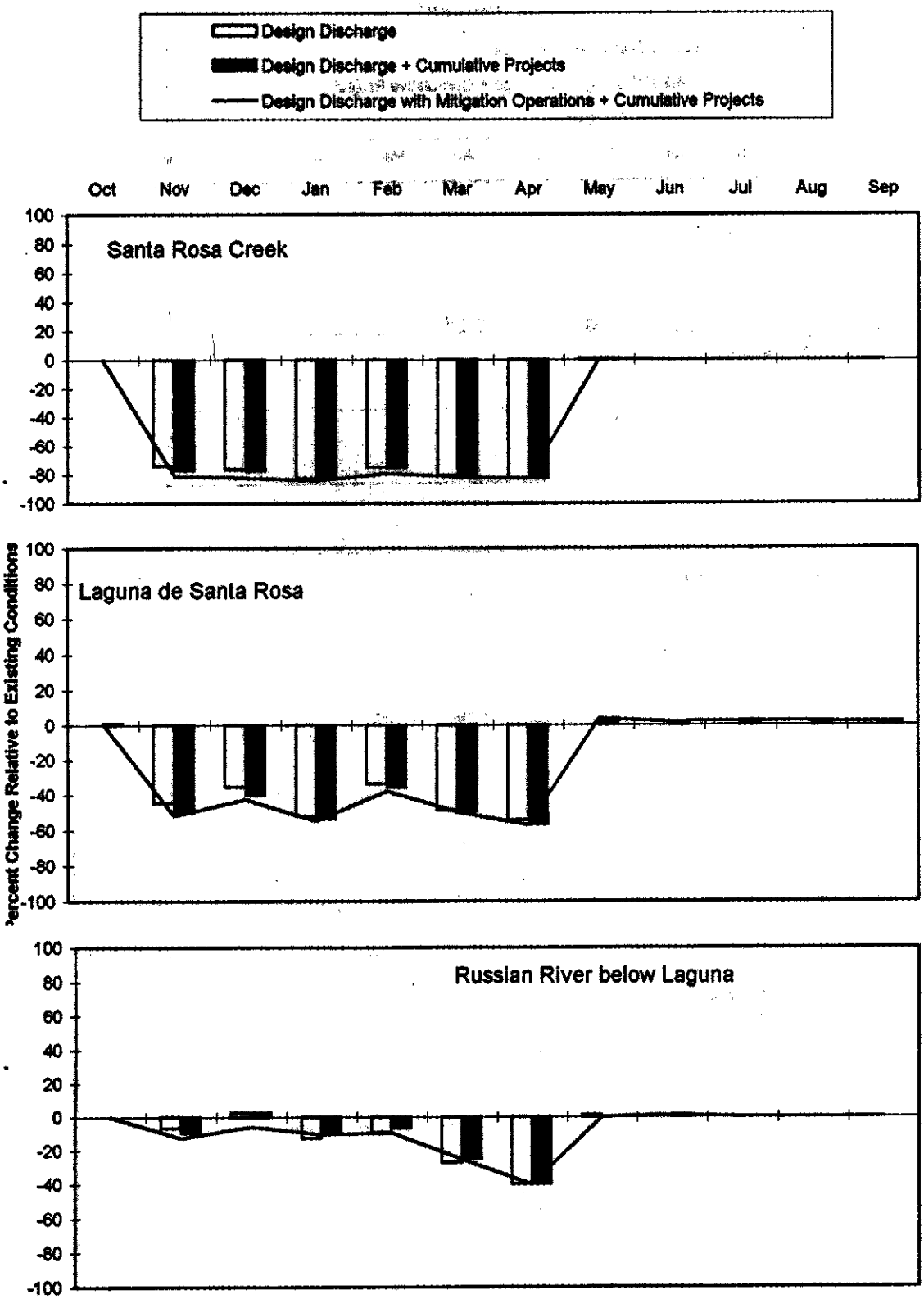
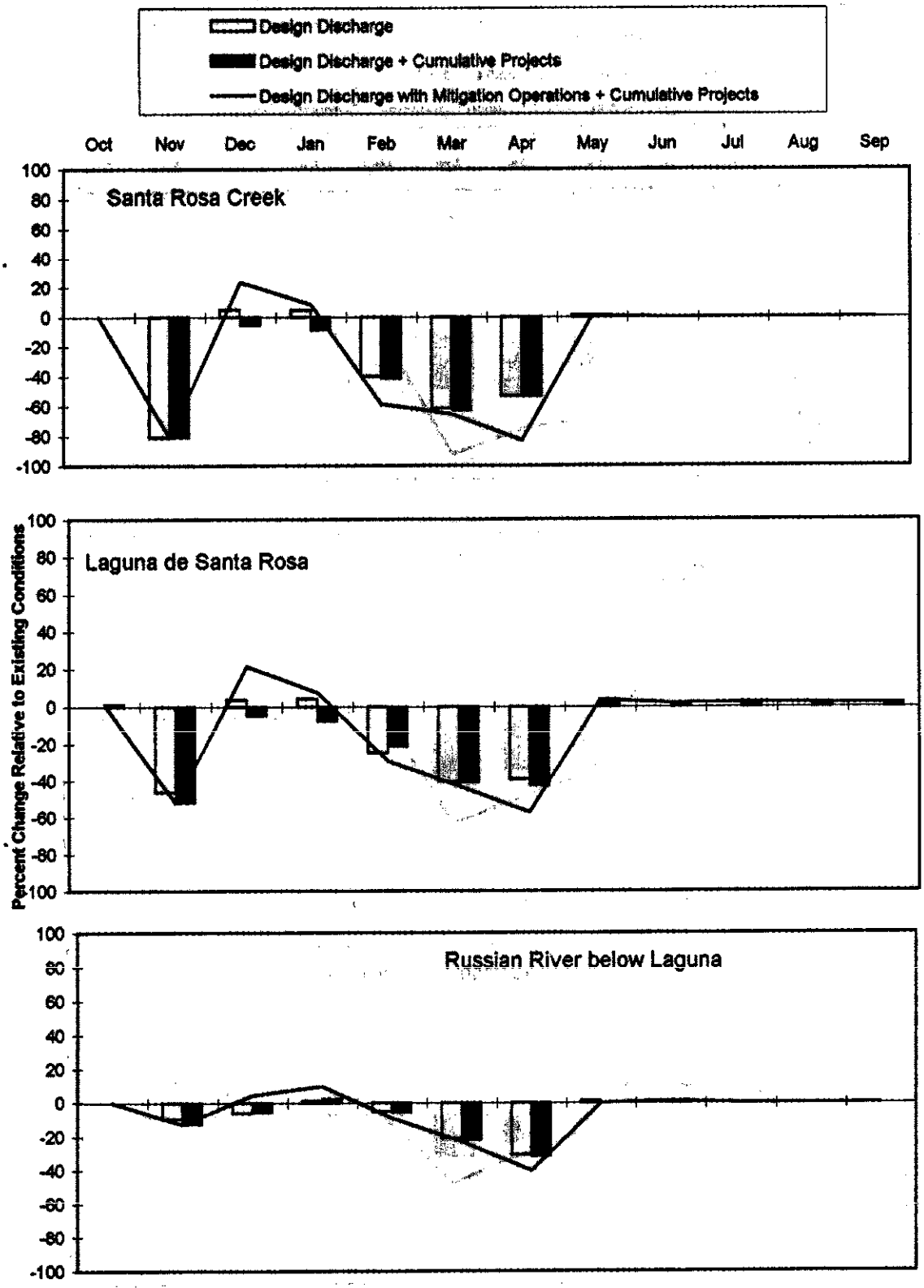


Figure 4-62. Cumulative Discharge Impacts on Ammonia - 1% Discharge Component



AMCUM.XLS

Figure 4-62. Cumulative Discharge Impacts on Ammonia - 5% Discharge Component



AMCUM.XLS

Figure 4-62. Cumulative Discharge Impacts on Ammonia - 10% Discharge Component

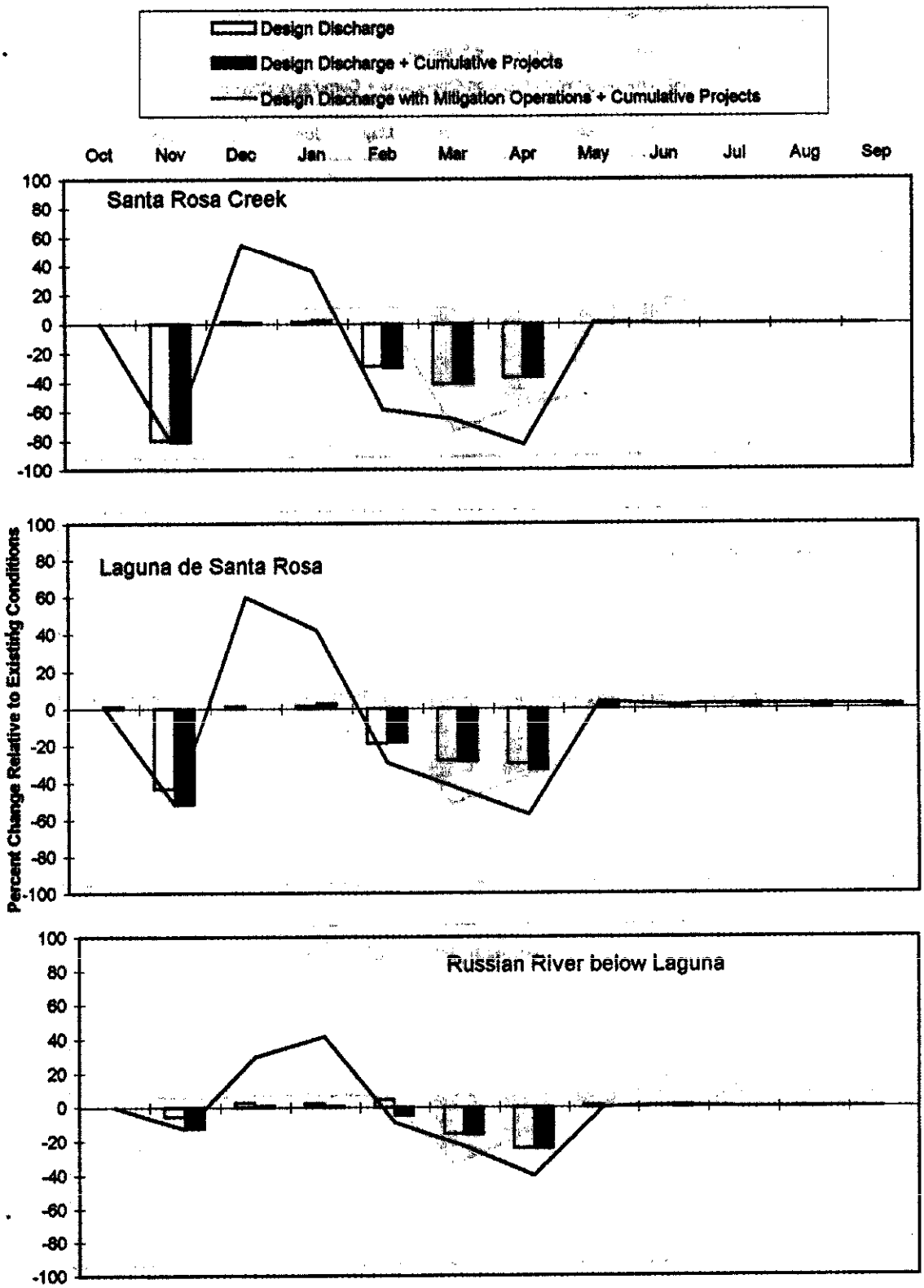


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Figure 4-62. Cumulative Discharge Impacts on Ammonia - 20% Laguna Discharge Component

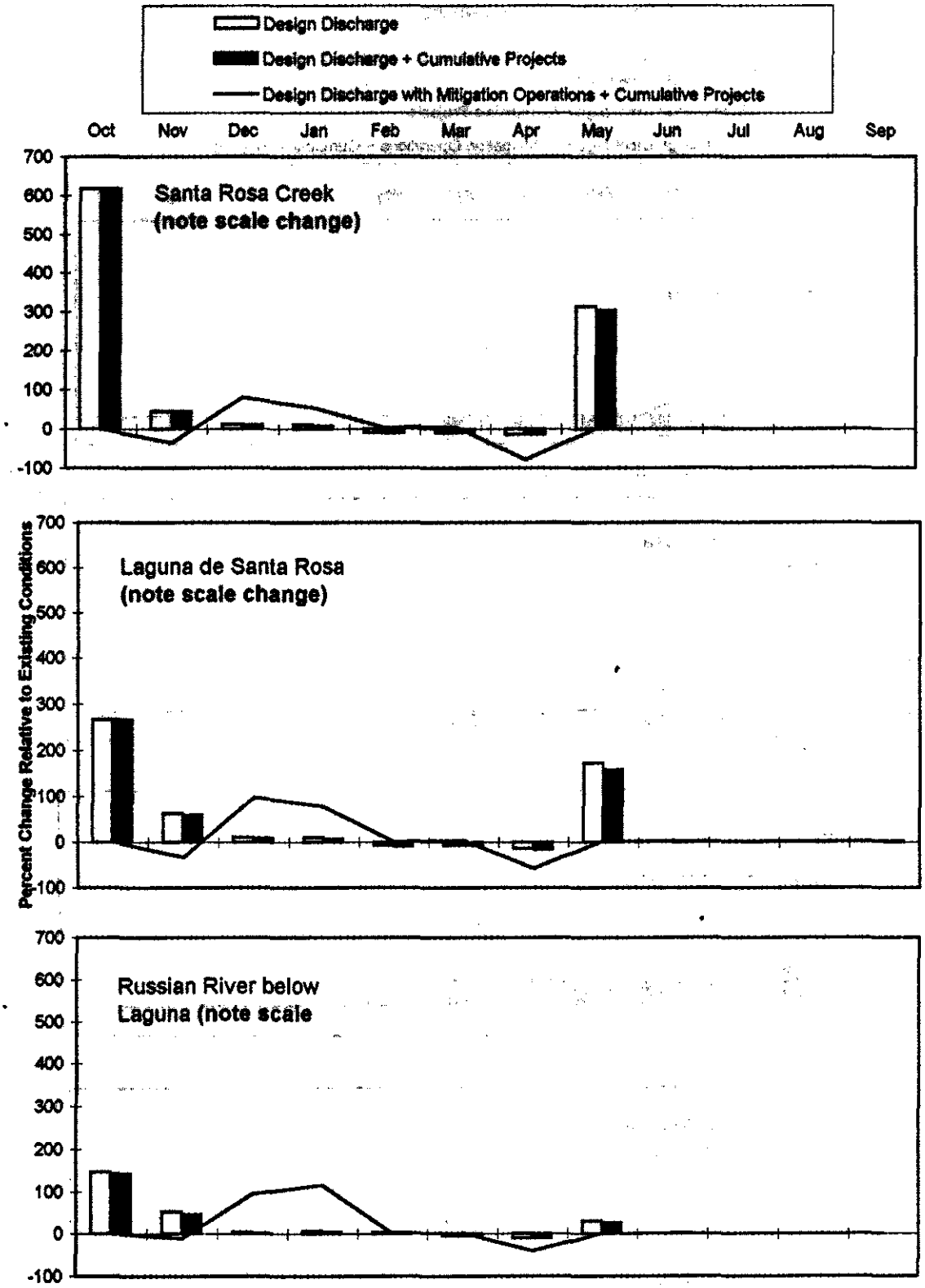

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Figure 4-62. Cumulative Discharge Impacts on Ammonia - 20% Russian River Discharge Component

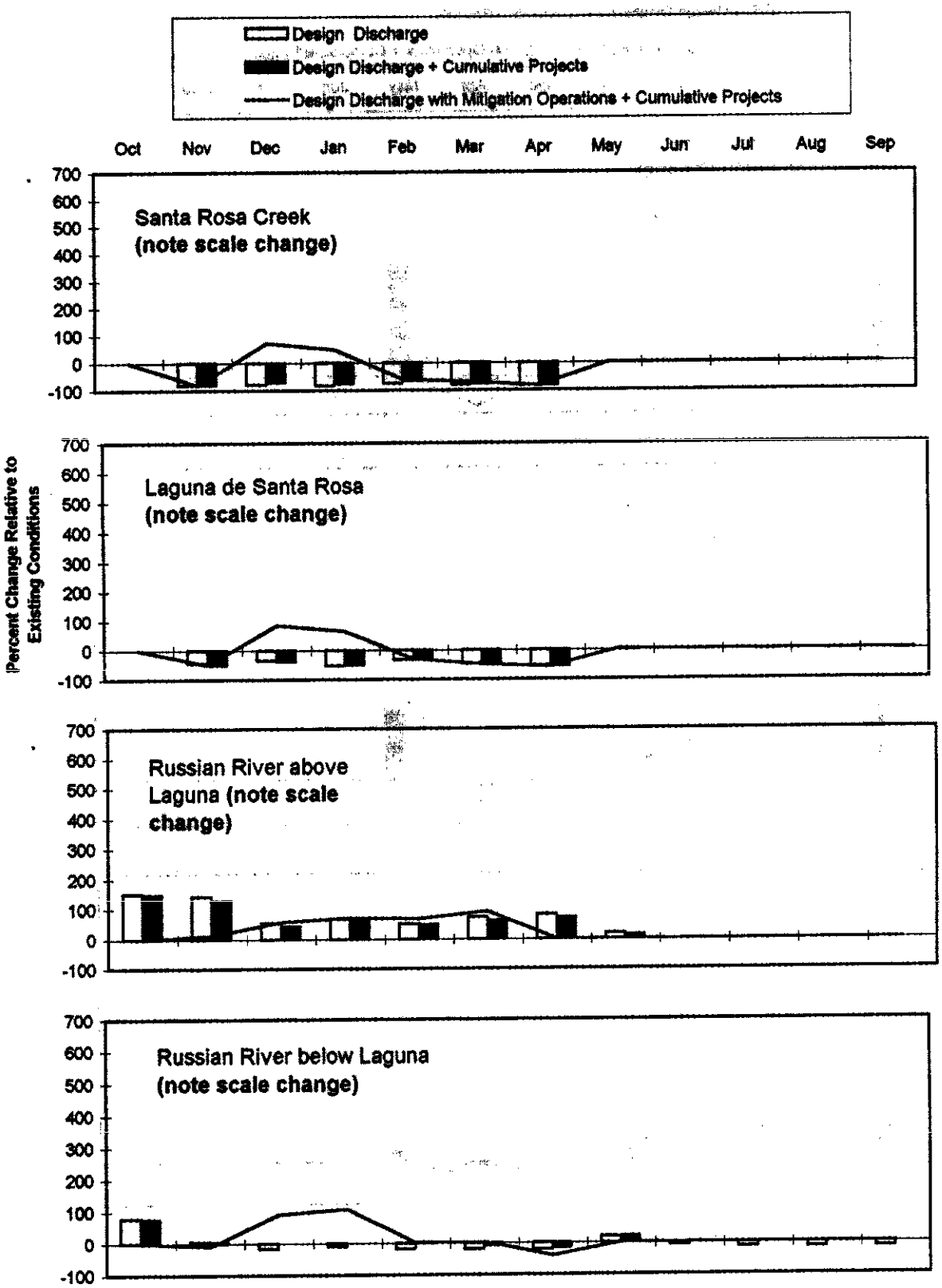

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Figure 4-62. Cumulative Discharge Impacts on Ammonia - Geysers Discharge Component

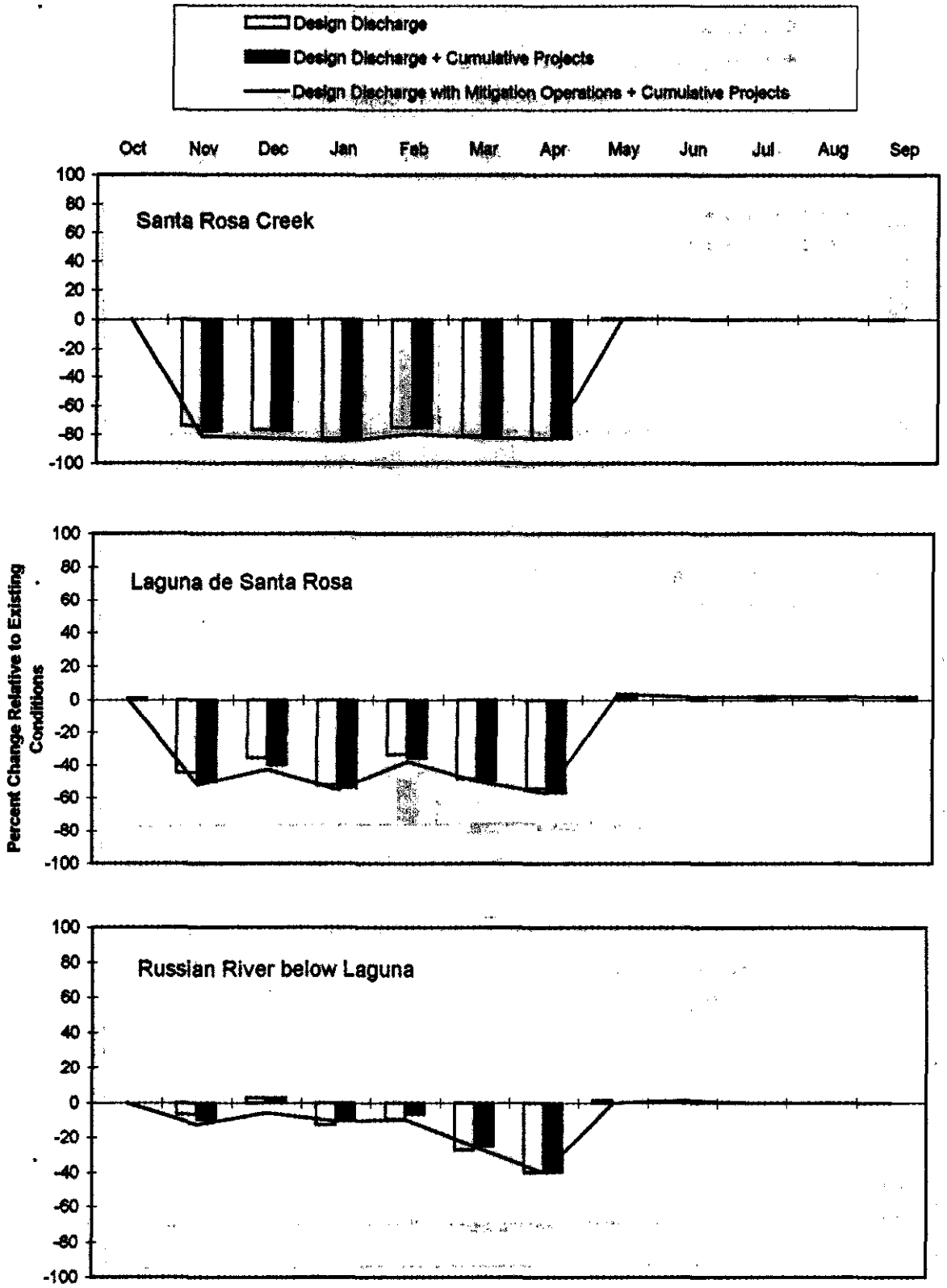

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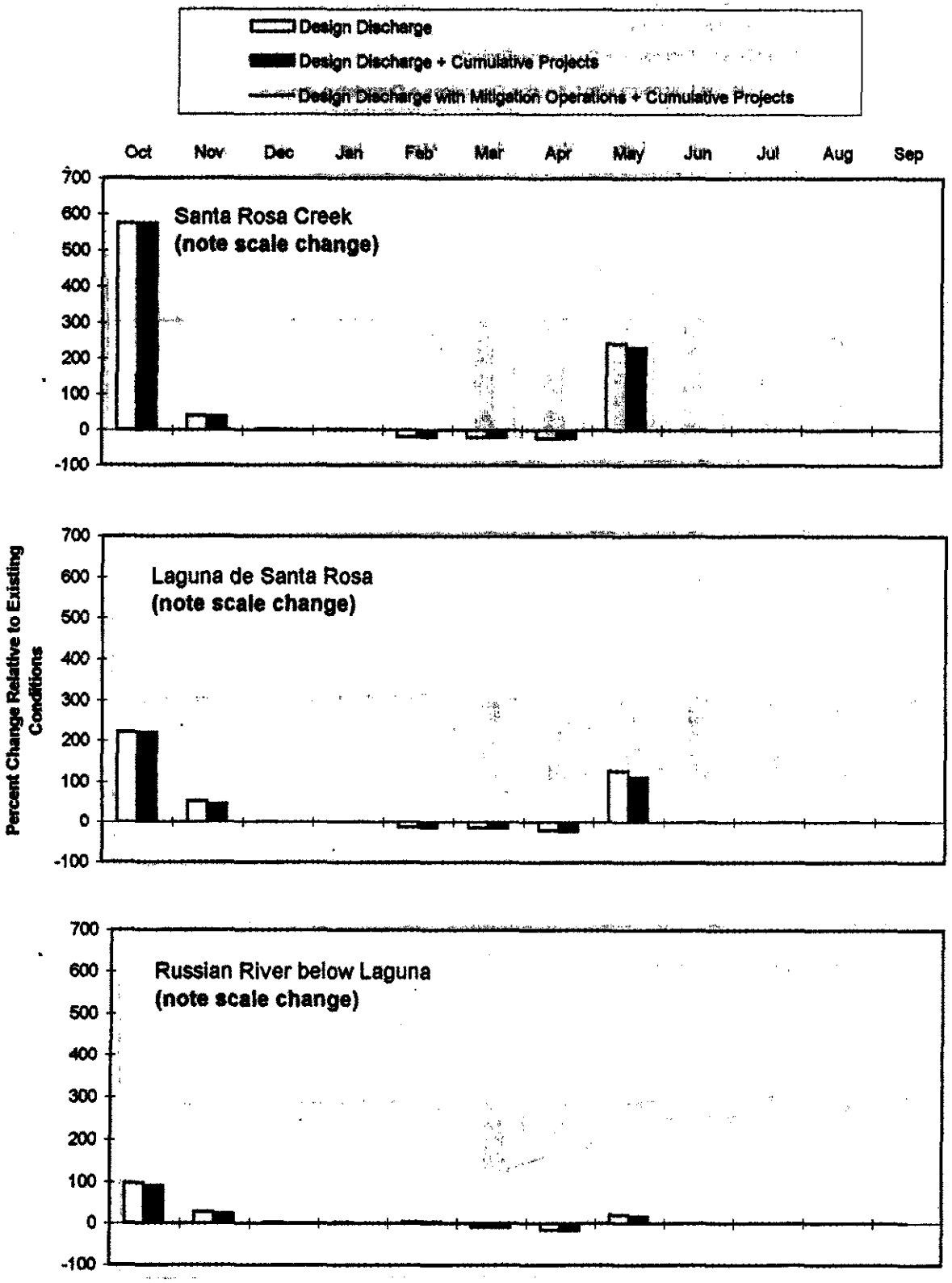
Figure 4-62. Cumulative Discharge Impacts on Ammonia - No Project Discharge Component



AMCUM.XLS

Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero Americano Average Hydrology Year with Cool Summer Irrigation - Bar Open
(Concentrations shown above each bar in mg/L)

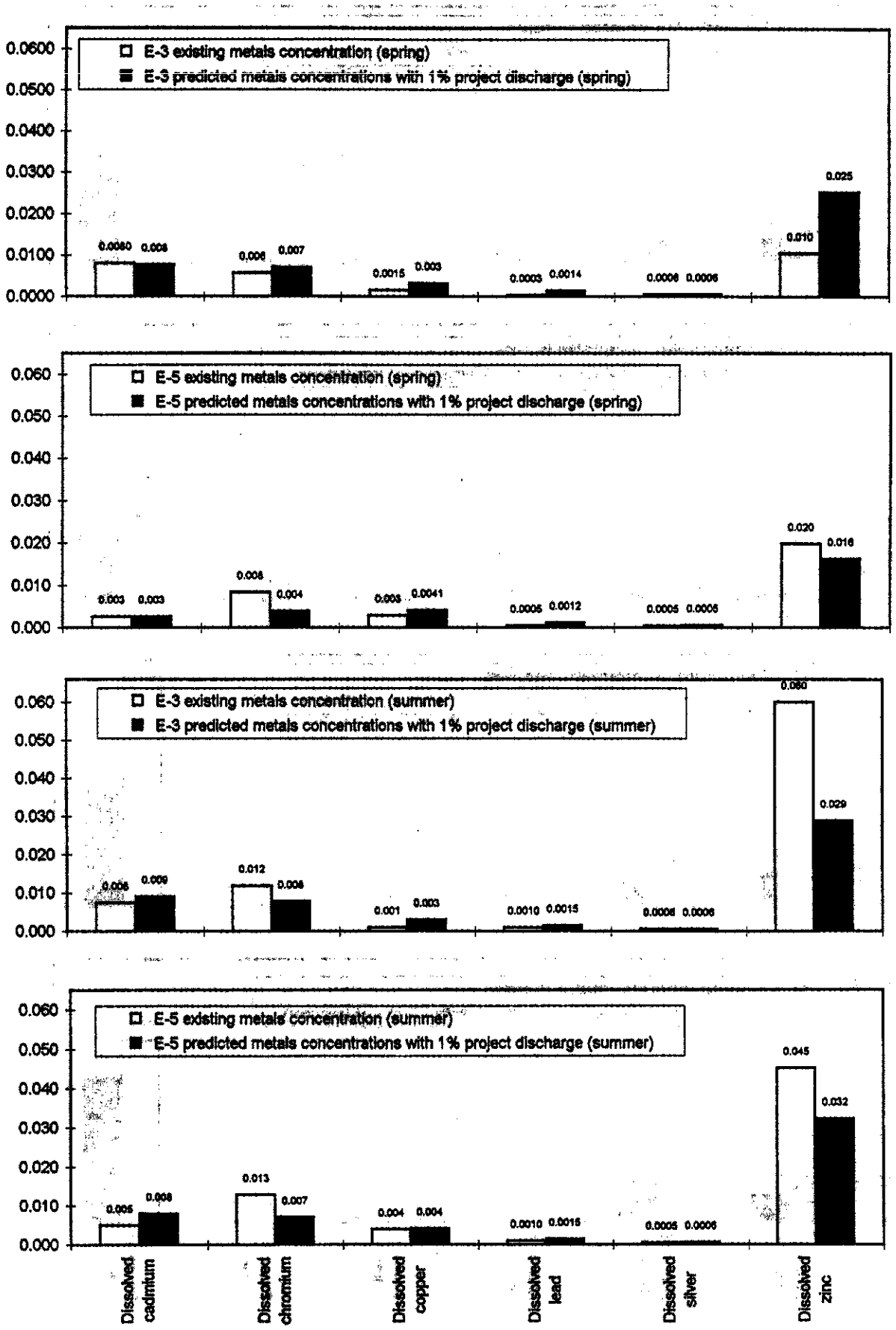


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero Americano Average Hydrology Year with Cool Summer Irrigation - Bar Closed
(Concentrations shown above each bar in mg/L)

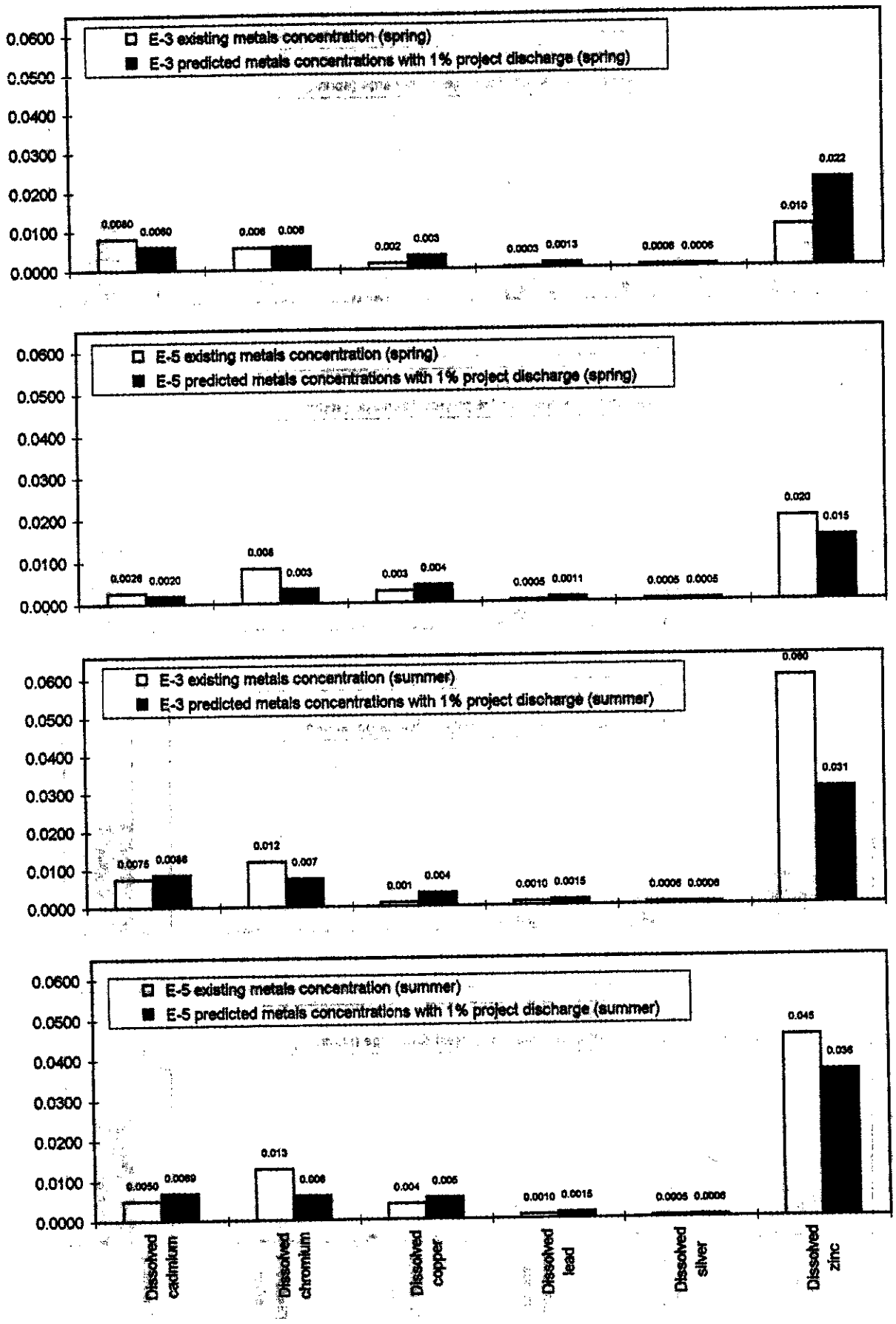


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero Americano
Wet Year - Bar Open
(Concentrations shown above each bar in mg/L)

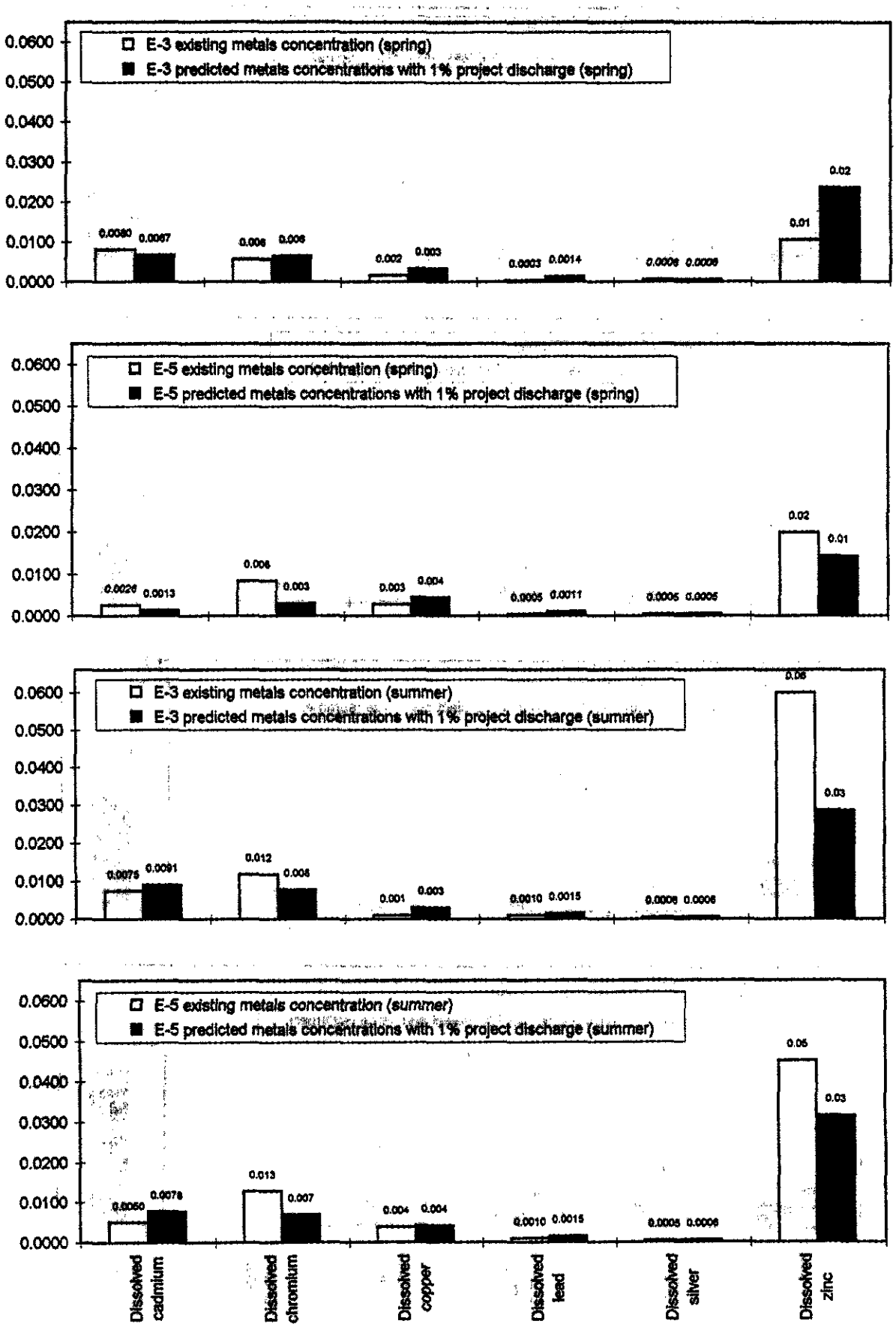


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero Americano Wet Year - Bar Closed

(Concentrations shown above each bar in mg/L)

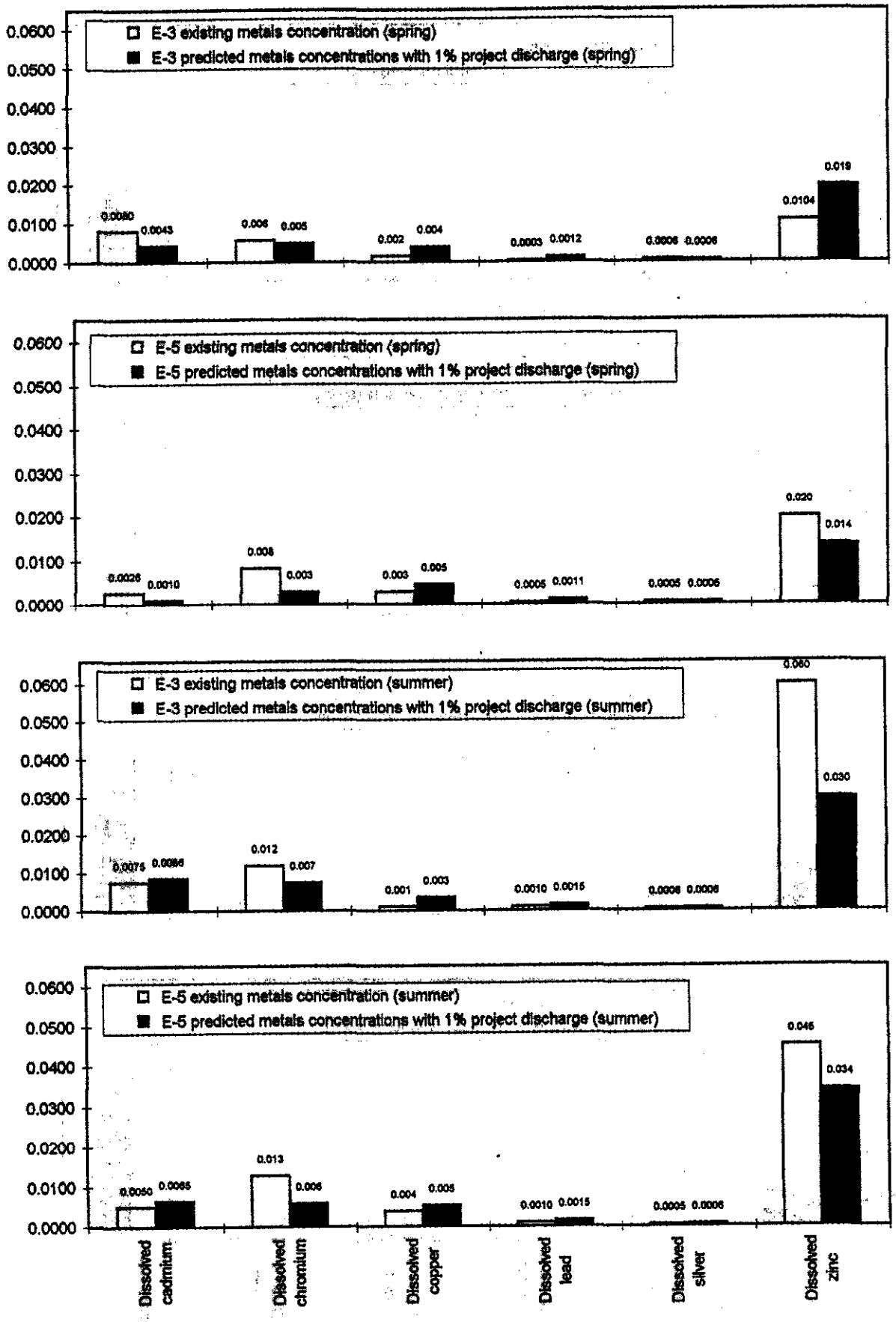


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero Americano Dry Hydrology Year with Winter Irrigation - Bar Open
(Concentrations shown above each bar in mg/L)

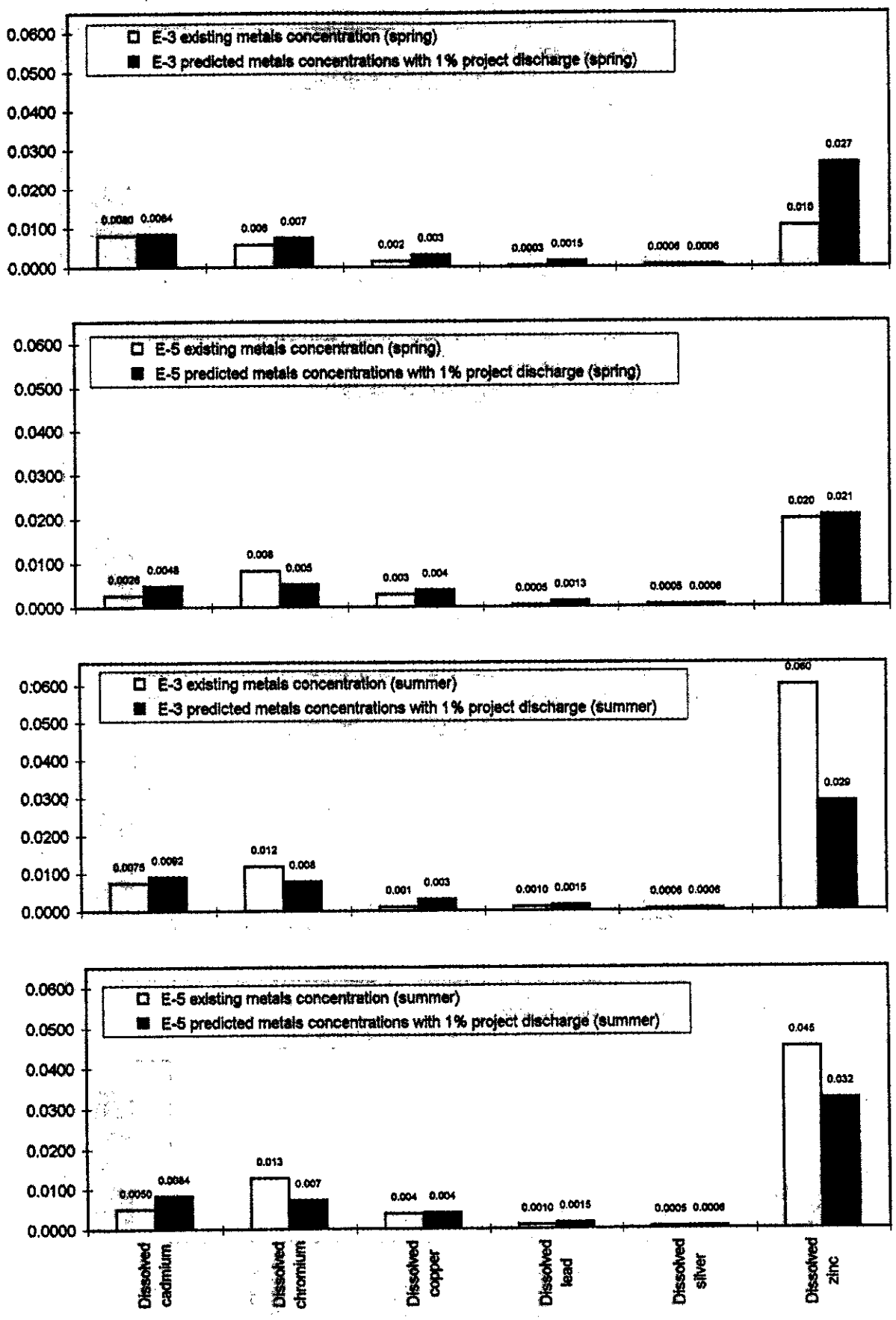


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero Americano Dry Hydrology Year with Winter Irrigation - Bar Closed
(Concentrations shown above each bar in mg/L)

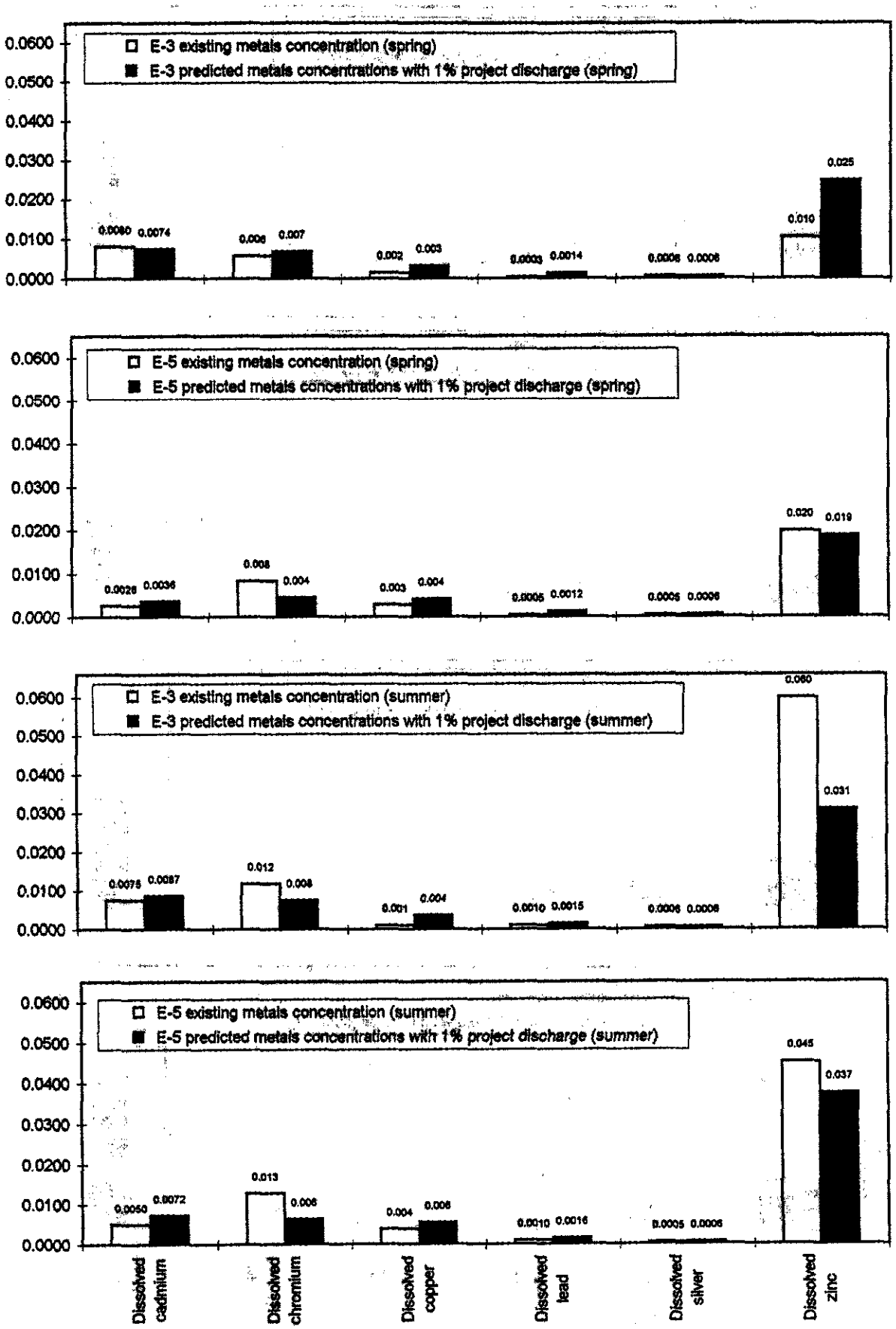


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero de San Antonio Average Hydrology Year with Cool Summer Irrigation - Bar Open
(Concentrations shown above each bar in mg/L)

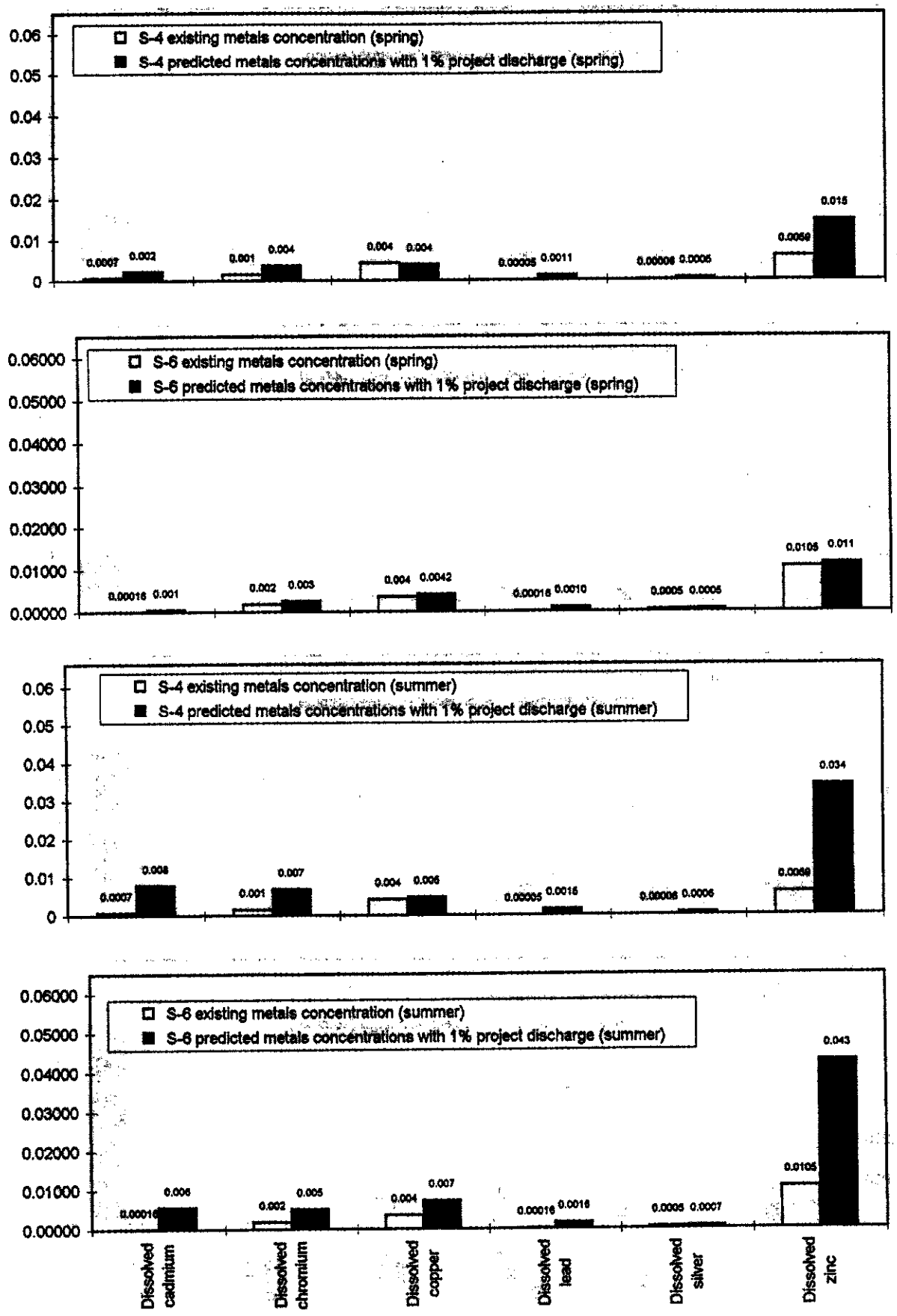


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero de San Antonio
Average Hydrology Year with Cool Summer Irrigation - Bar Closed
(Concentrations shown above each bar in mg/L)

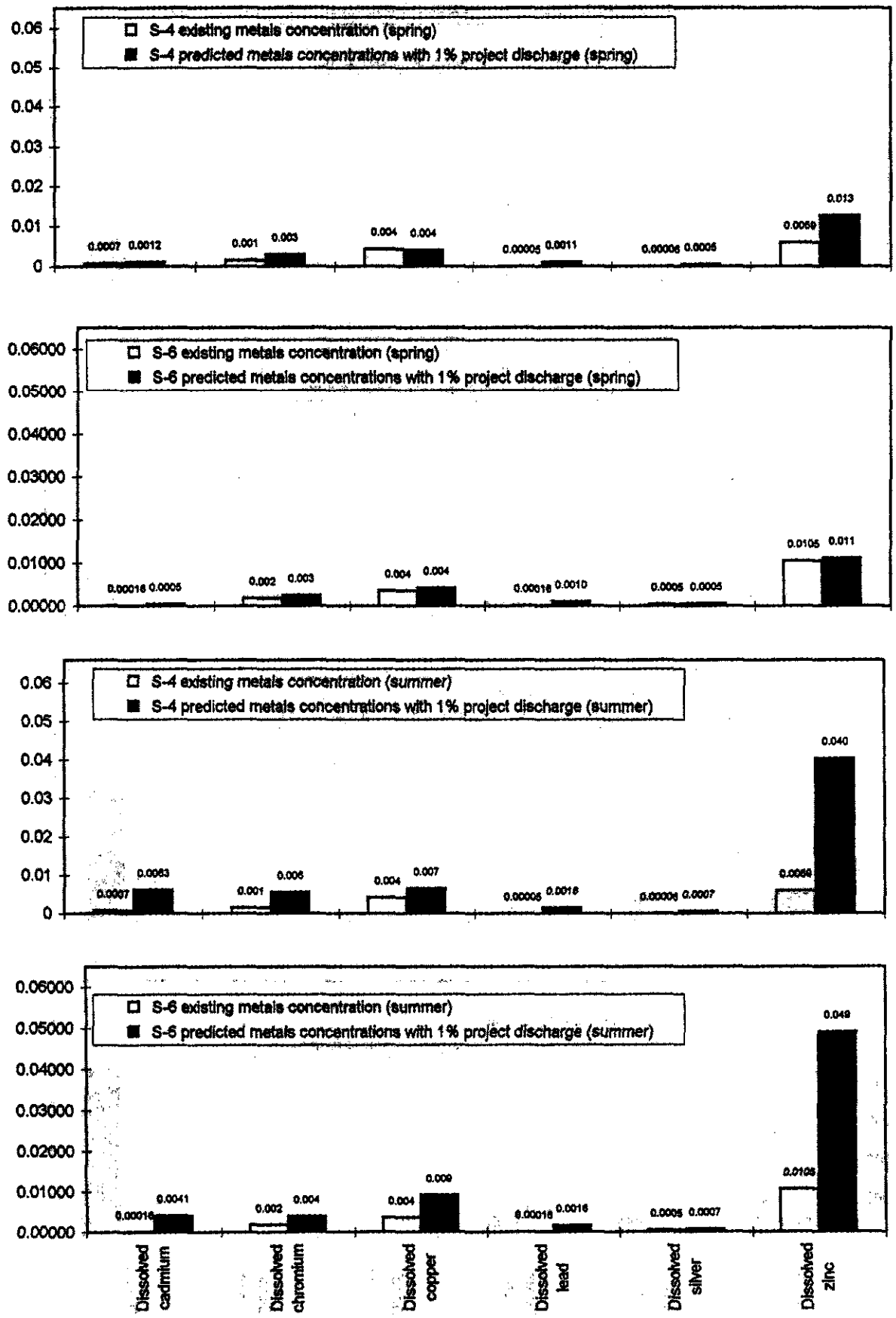


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero de San Antonio
Wet Year - Bar Open
(Concentrations shown above each bar in mg/L)

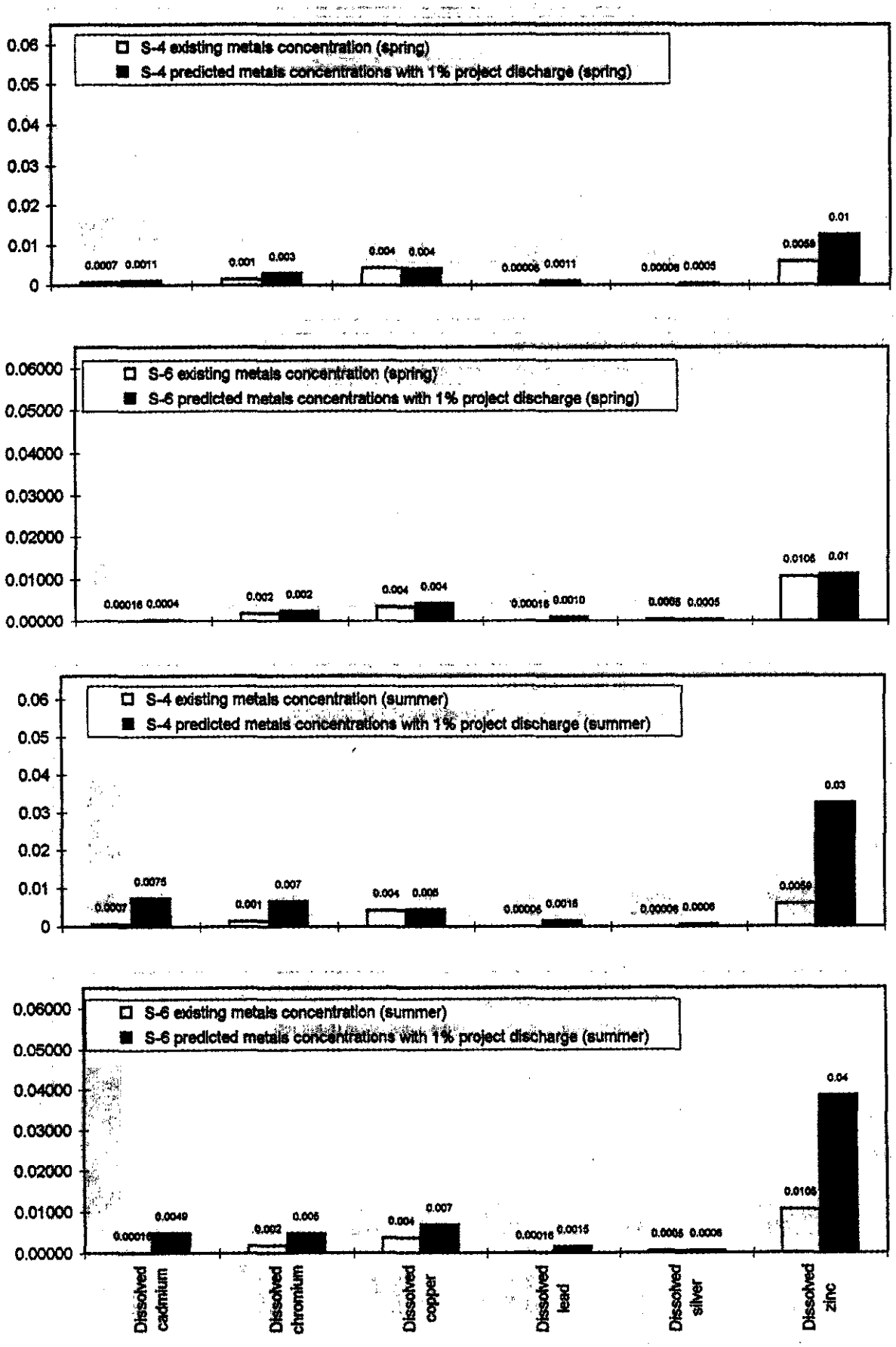


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero de San Antonio
Wet Year - Bar Closed
(Concentrations shown above each bar in mg/L)

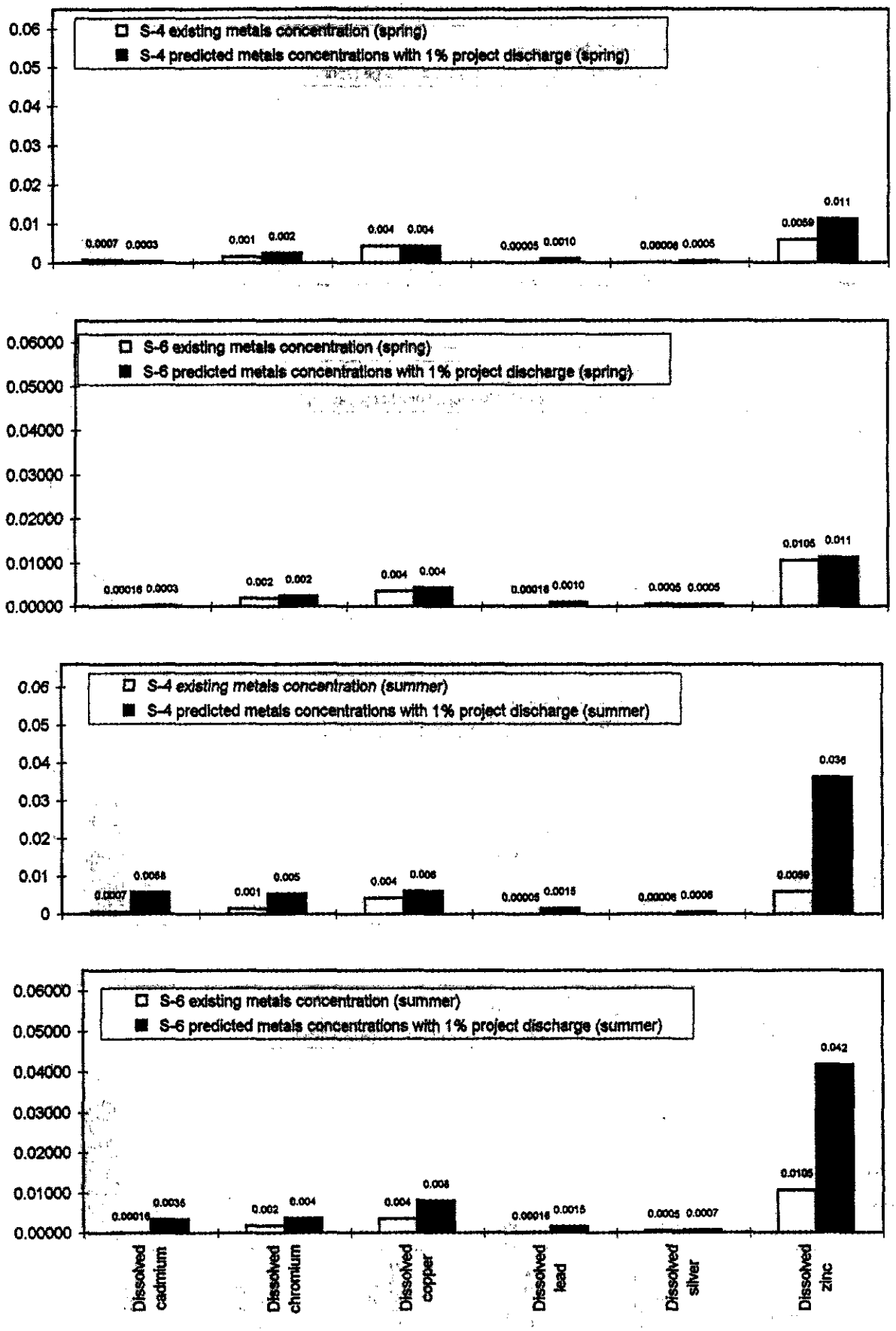


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero de San Antonio
Dry Hydrology Year with Winter Irrigation - Bar Open
(Concentrations shown above each bar in mg/L)

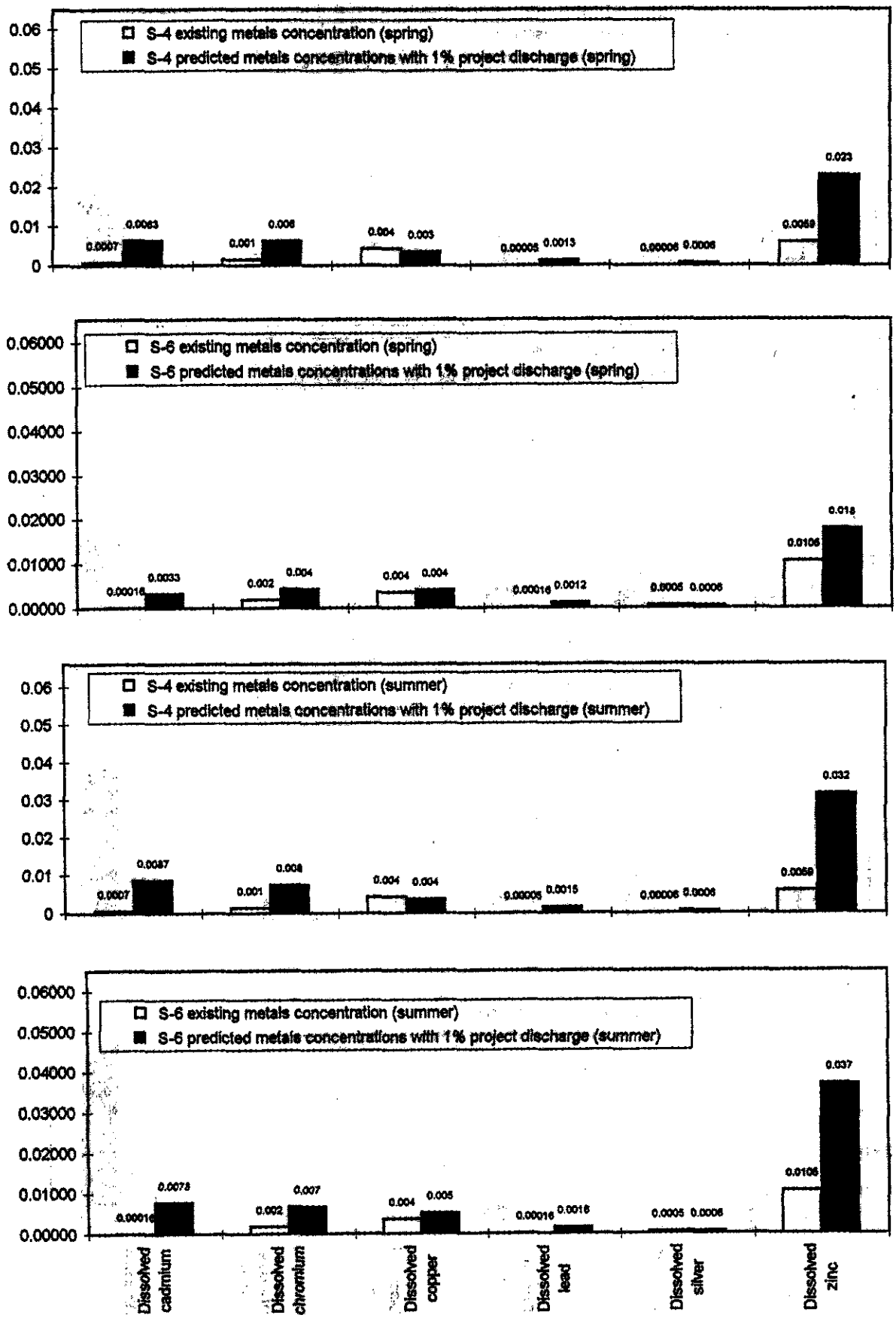


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero de San Antonio Dry Hydrology Year with Winter Irrigation - Bar Closed
(Concentrations shown above each bar in mg/L)

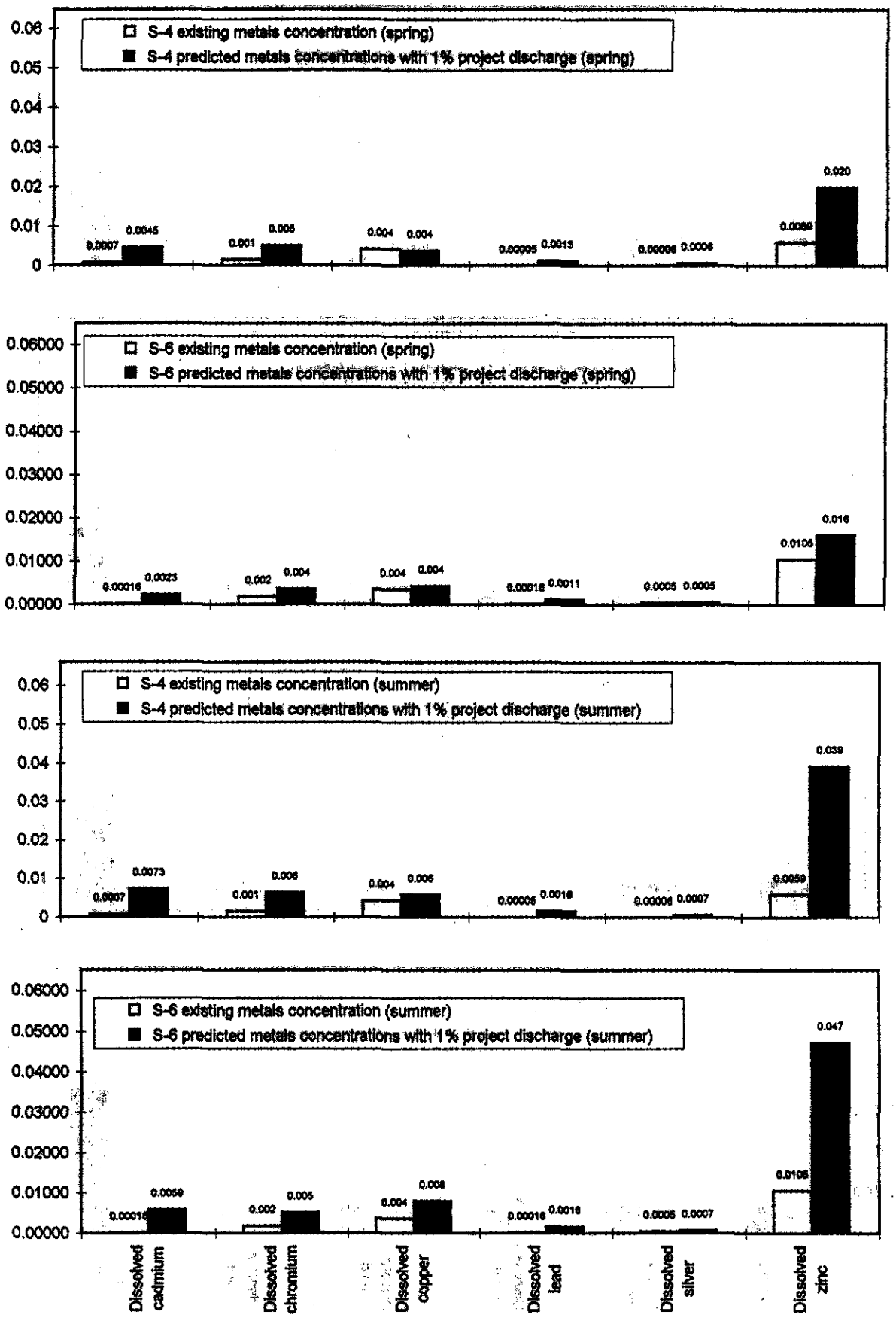


Figure 6-6. Predicted Versus Existing Metals Concentrations in Estero de San Antonio Dry Hydrology Year with Winter Irrigation - Bar Closed
(Concentrations shown above each bar in mg/L)

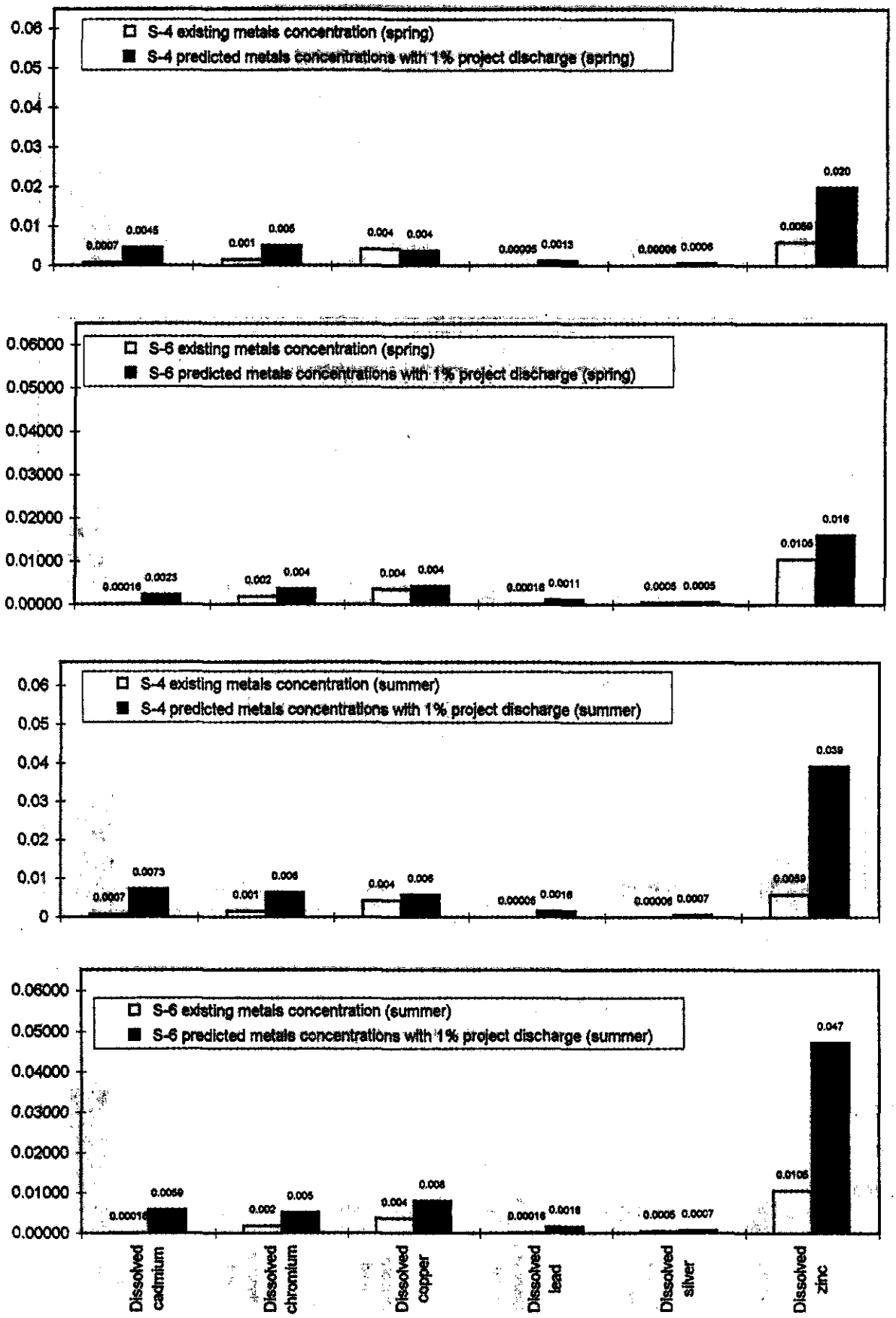


Figure 6-1.1. Irrigation and Storage Impacts on TDS In Estero Americano Spring Inflow and Bar-Open Conditions

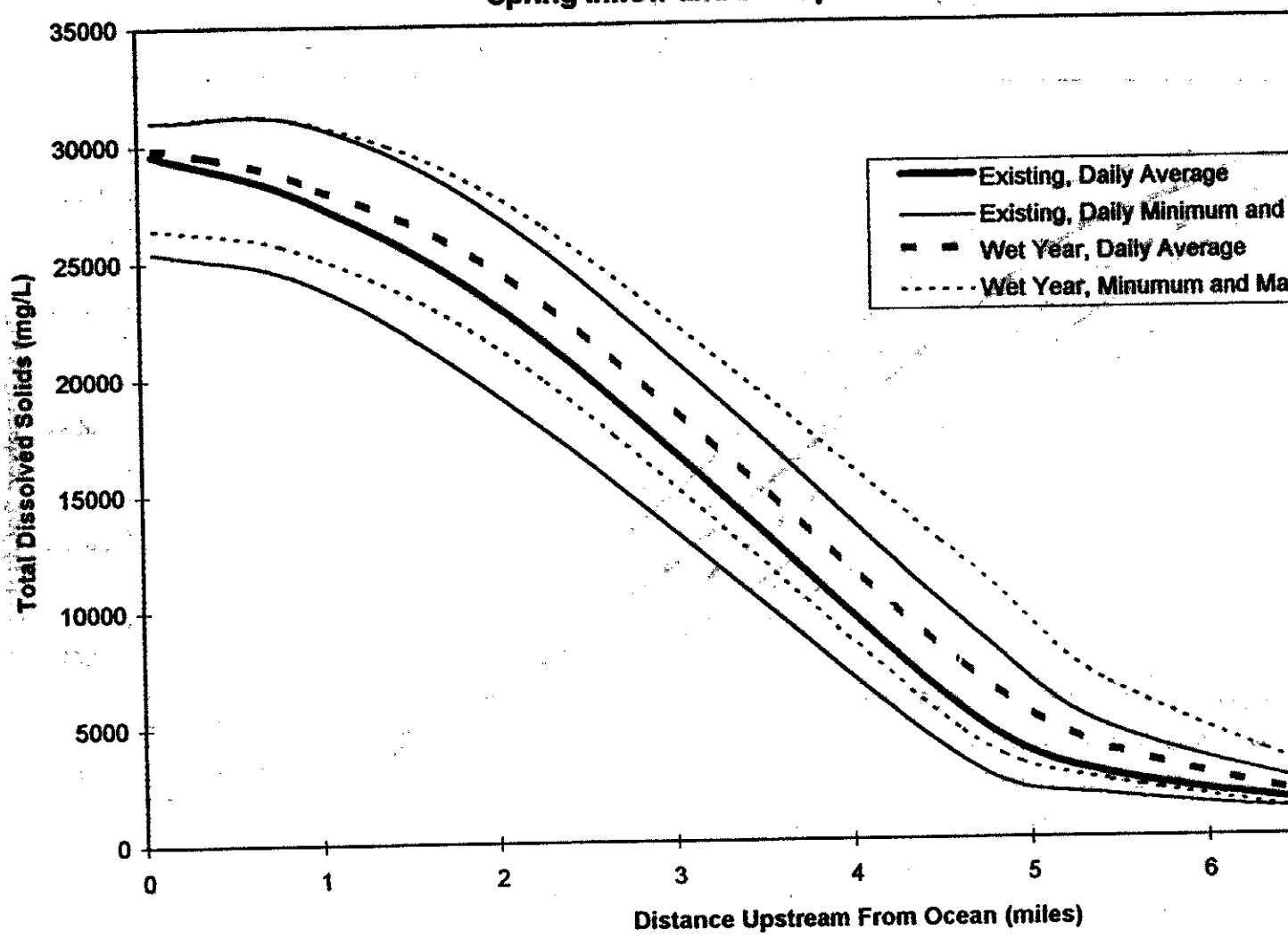


Figure 6-1.2. Irrigation and Storage Impacts on TDS in Estero Americano Spring Inflow and Bar-Open Conditions

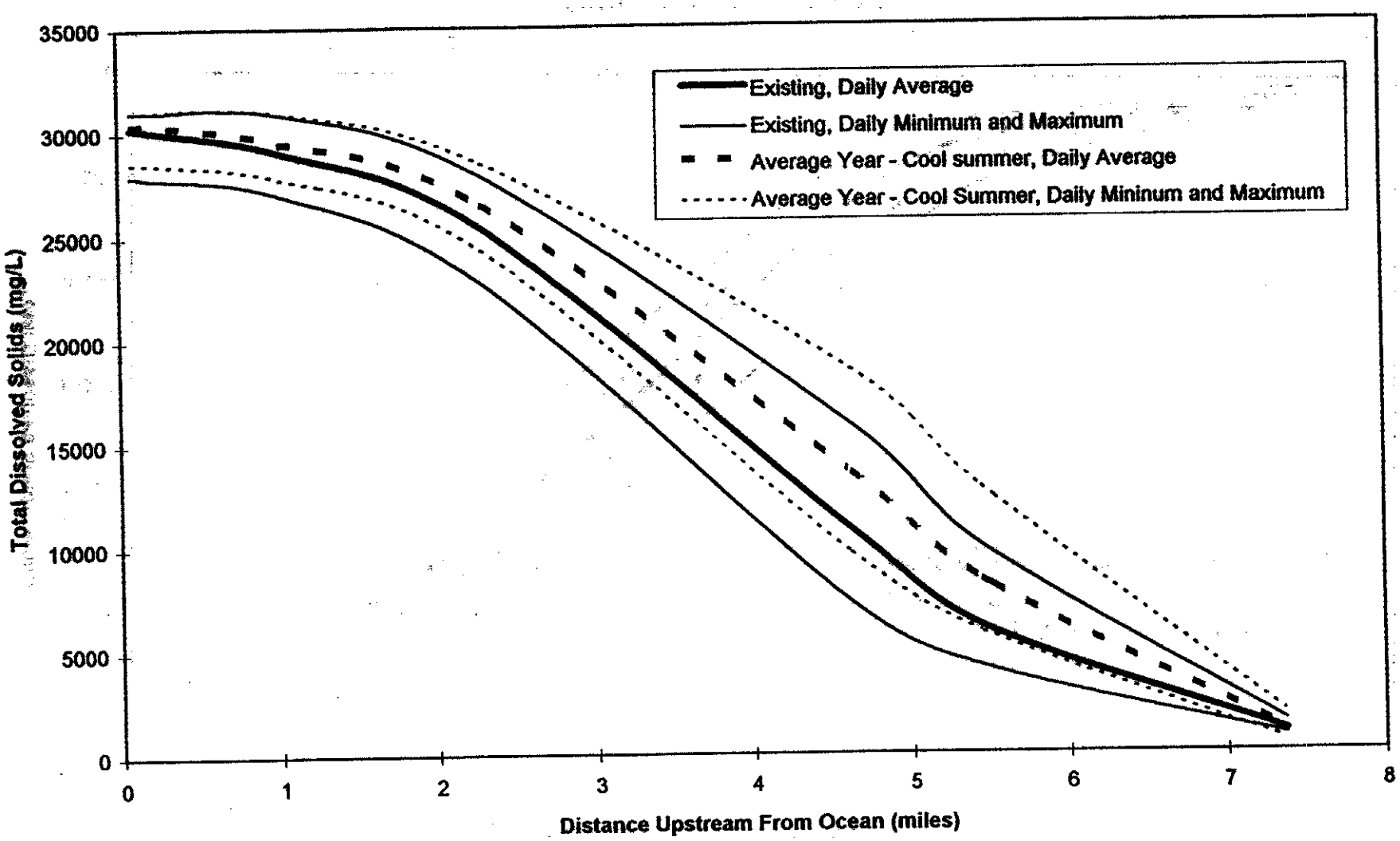


Figure 6-1.3. Irrigation and Storage Impacts on TDS In Estero Americano Spring Inflow and Bar-Open Conditions

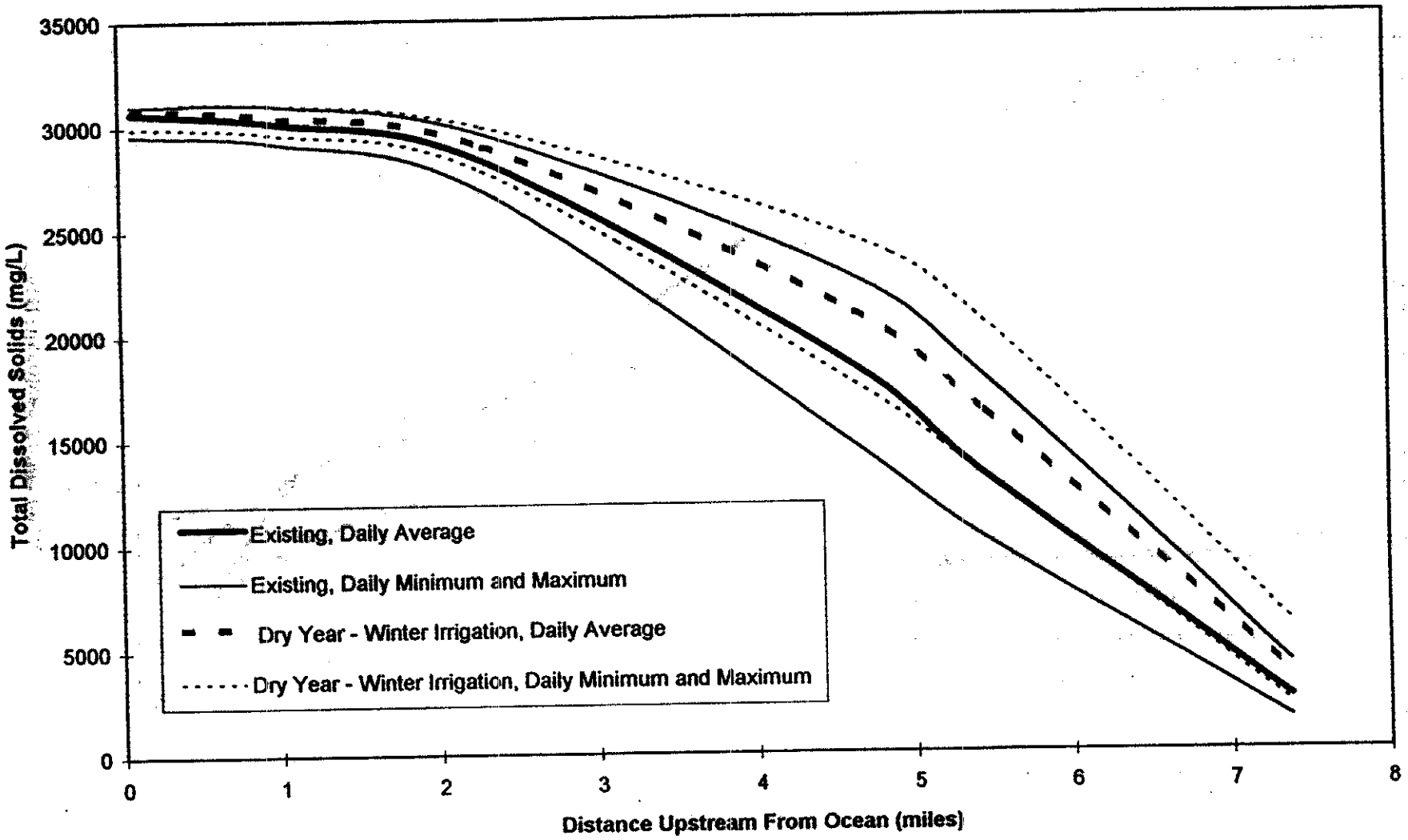


Figure 6-1.4. Irrigation and Storage Impacts on TDS In Estero Americano Spring Inflow and Bar-Closed Conditions

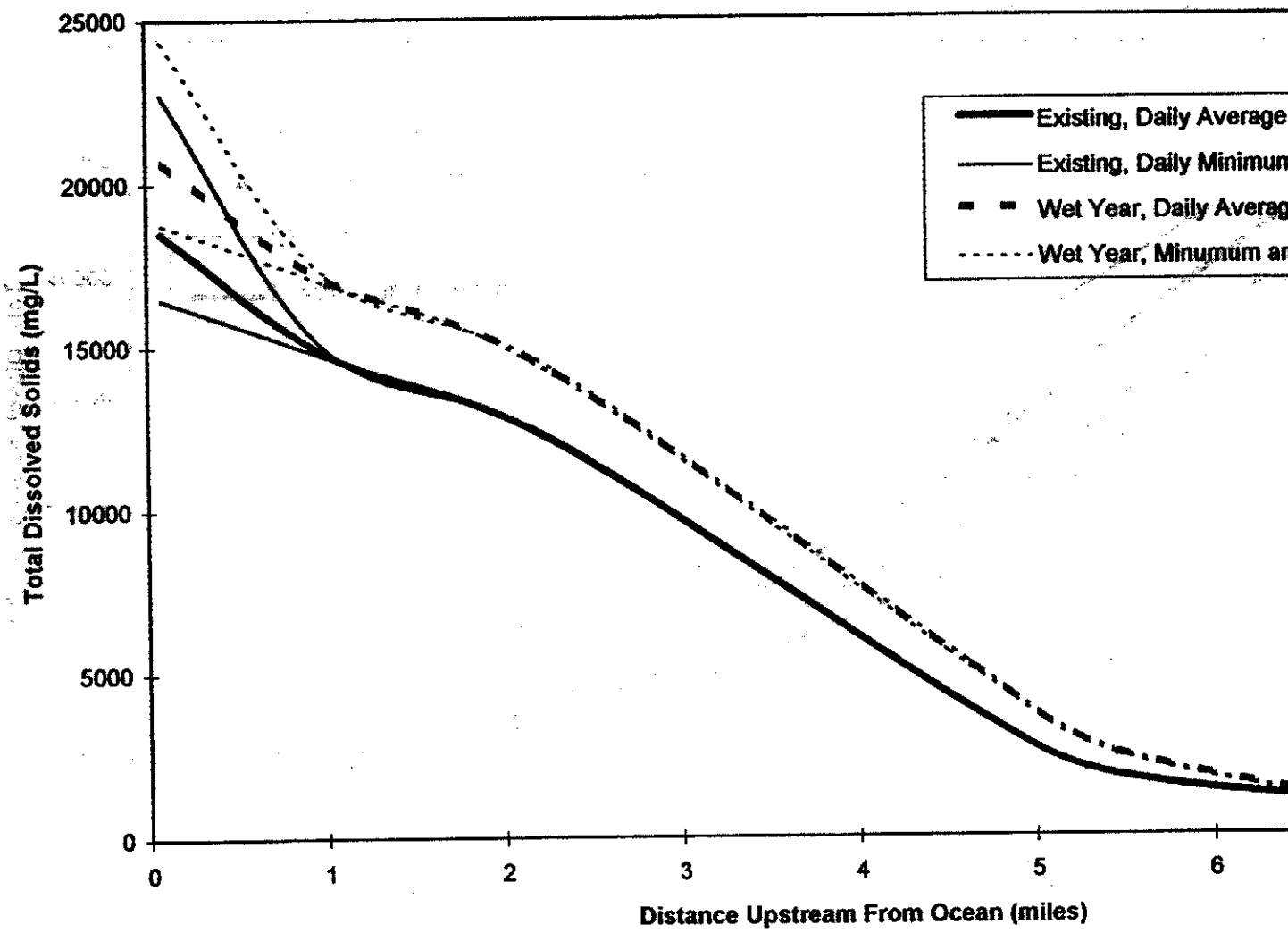


Figure 6-1.5. Irrigation and Storage Impacts on TDS in Estero Americano Spring Inflow and Bar-Closed Conditions

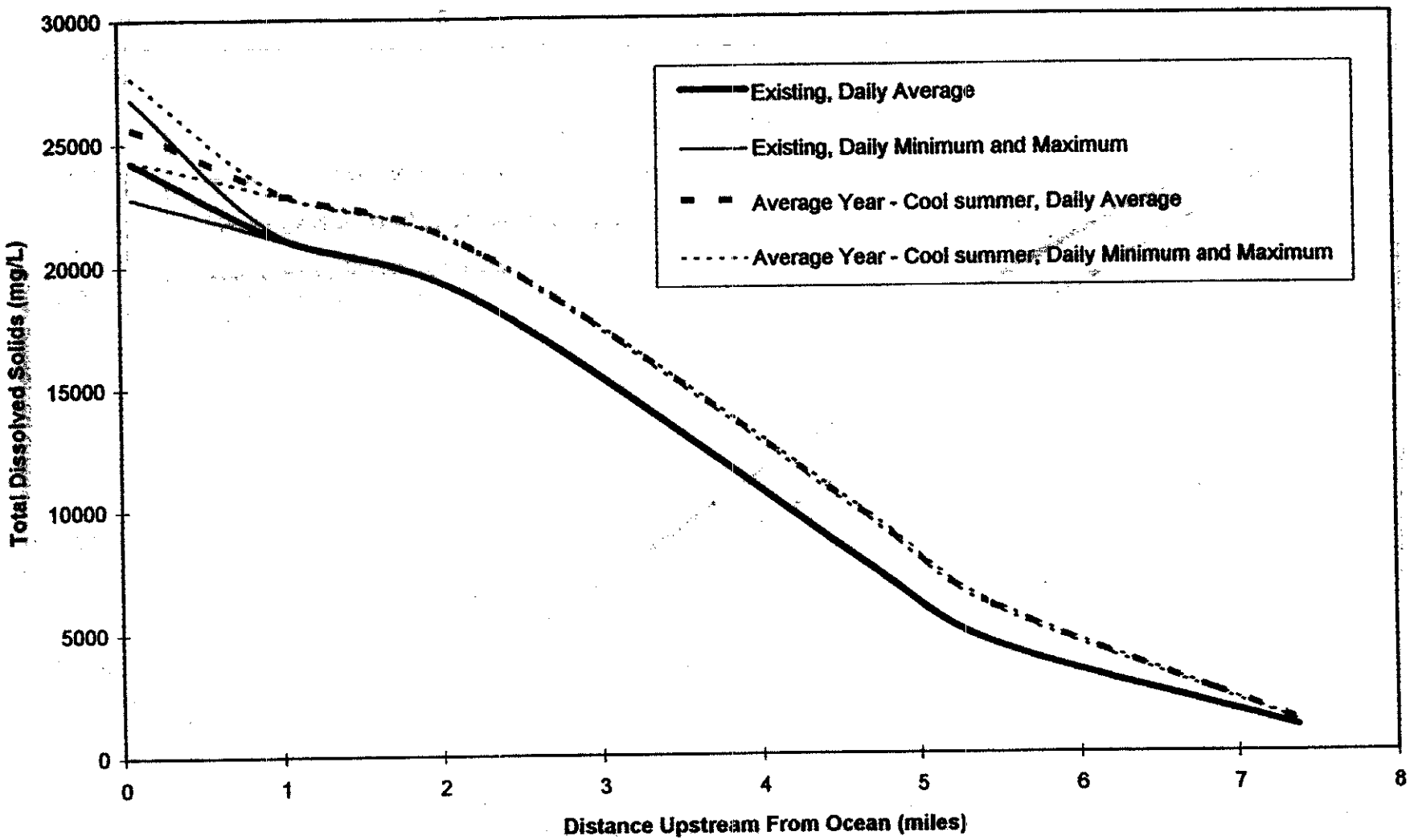


Figure 6-1.6. Irrigation and Storage Impacts on TDS in Estero Americano Spring Inflow and Bar-Closed Conditions

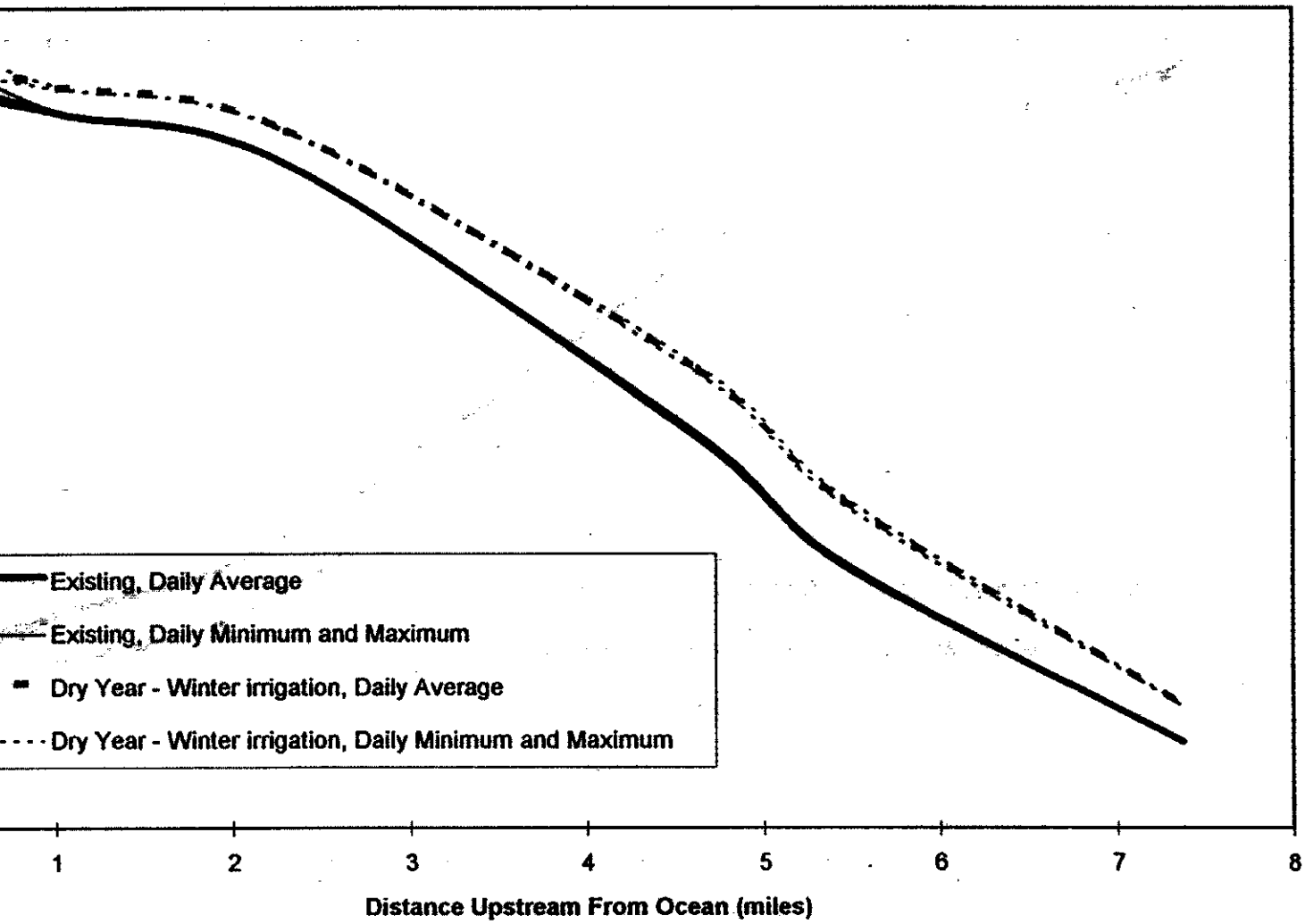


Figure 6-1.7. Irrigation and Storage Impacts on TDS In Estero Americano Summer Inflow and Bar-Open Conditions

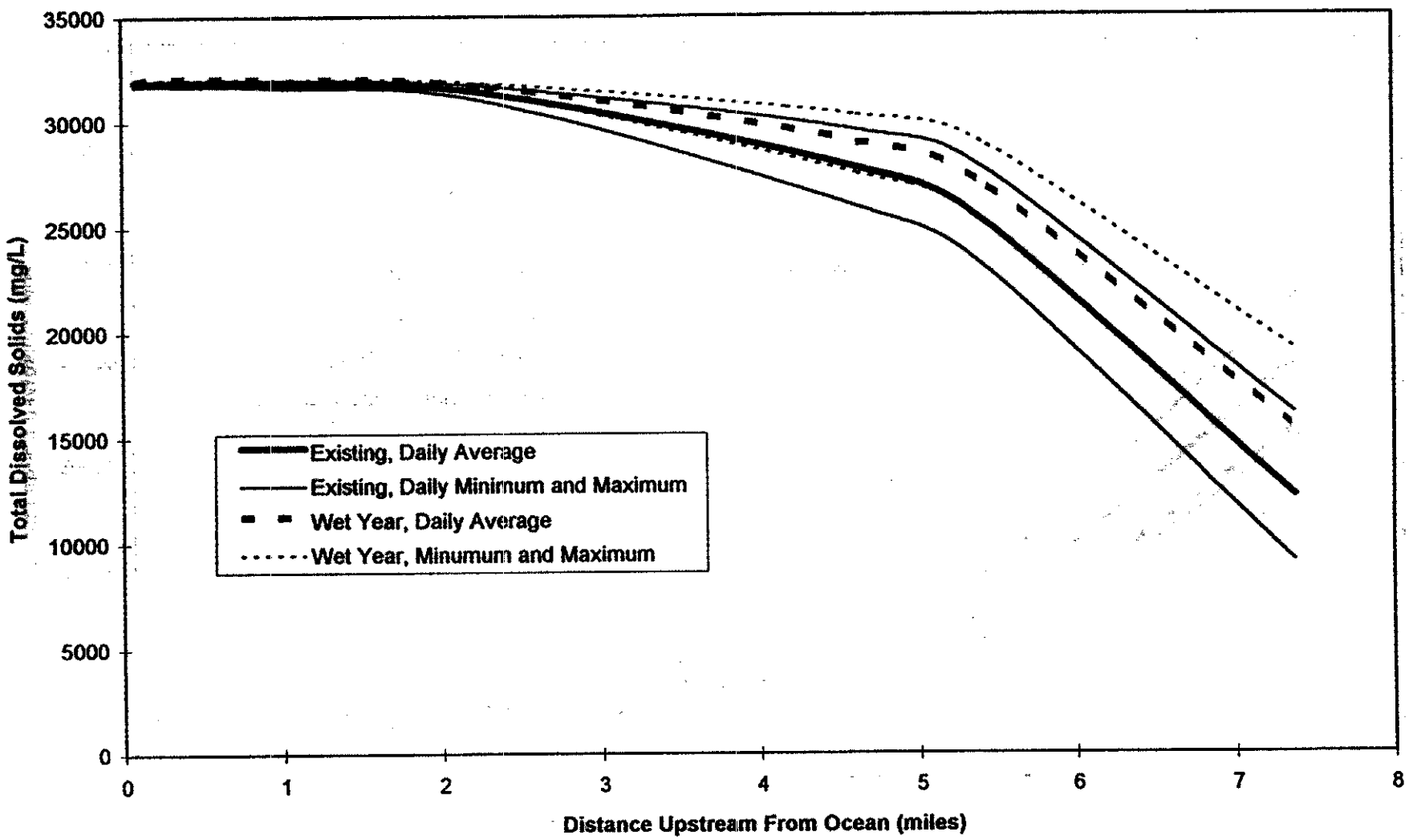


Figure 6-1.8. Irrigation and Storage Impacts on TDS in Estero Americano Summer Inflow and Bar-Open Conditions

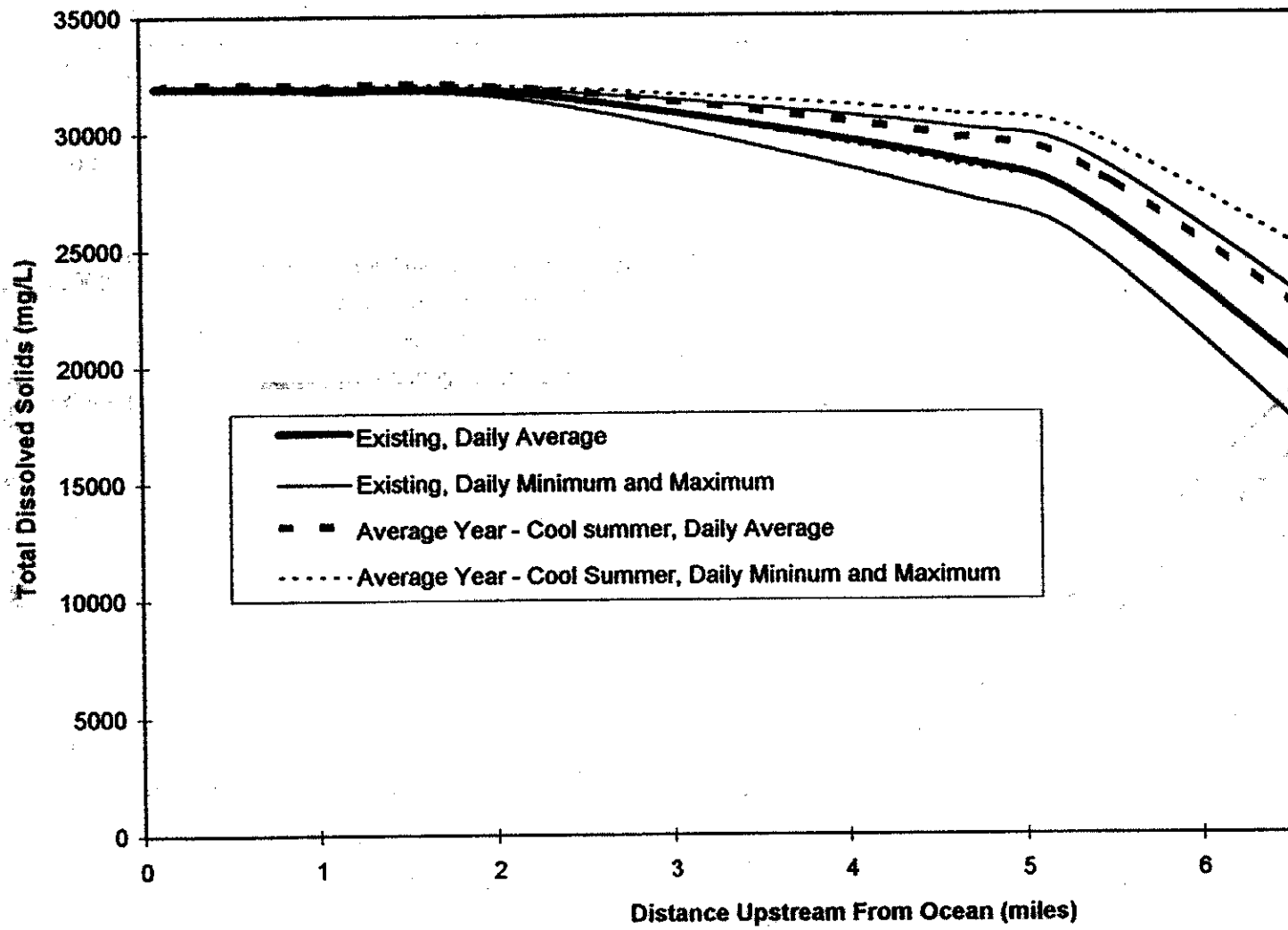


Figure 6-1.9. Irrigation and Storage Impacts on TDS In Estero Americano Summer Inflow and Bar-Open Conditions

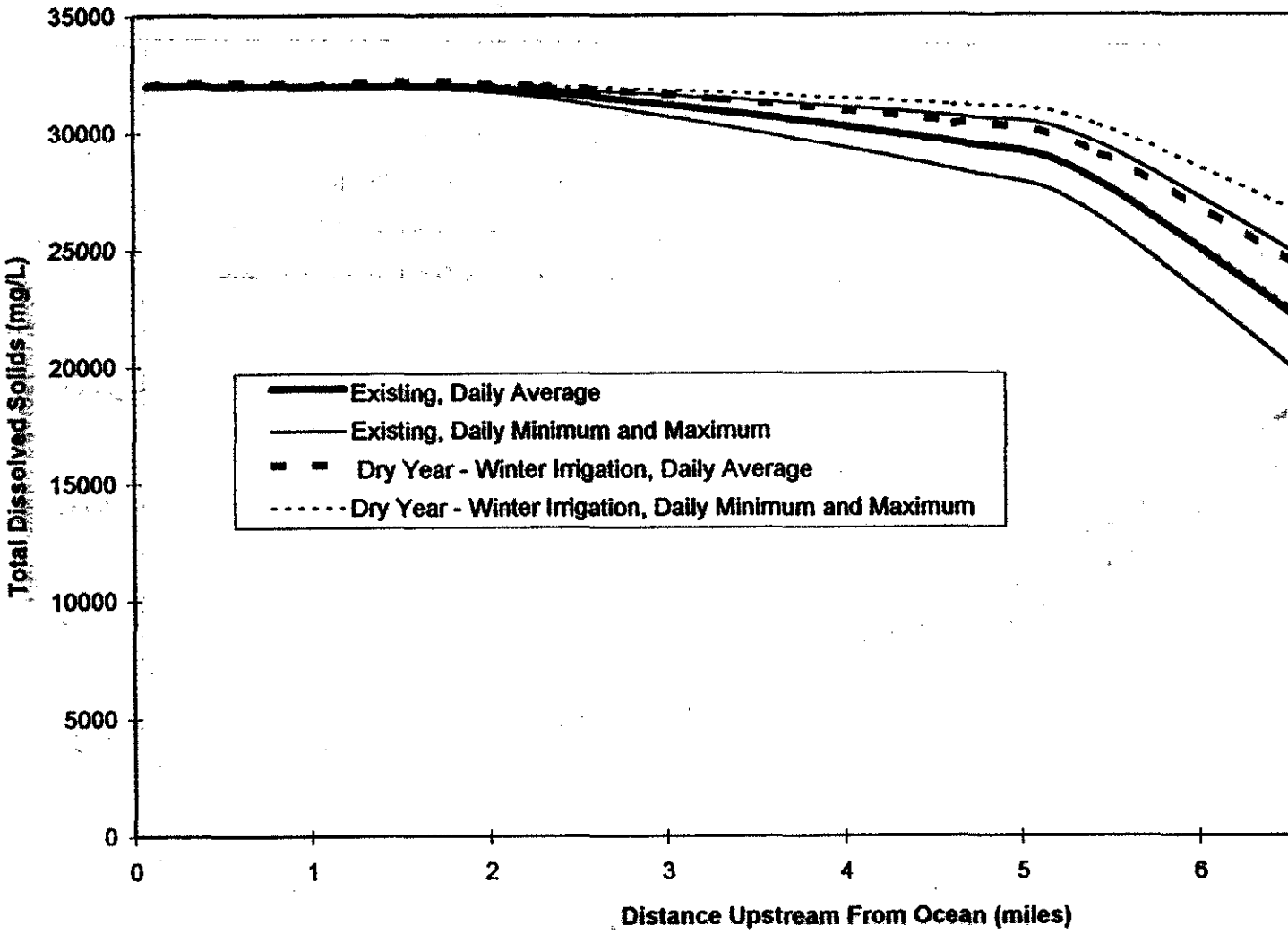


Figure 6-1.10. Irrigation and Storage Impacts on TDS In Estero Americano Summer Inflow and Bar-Closed Conditions

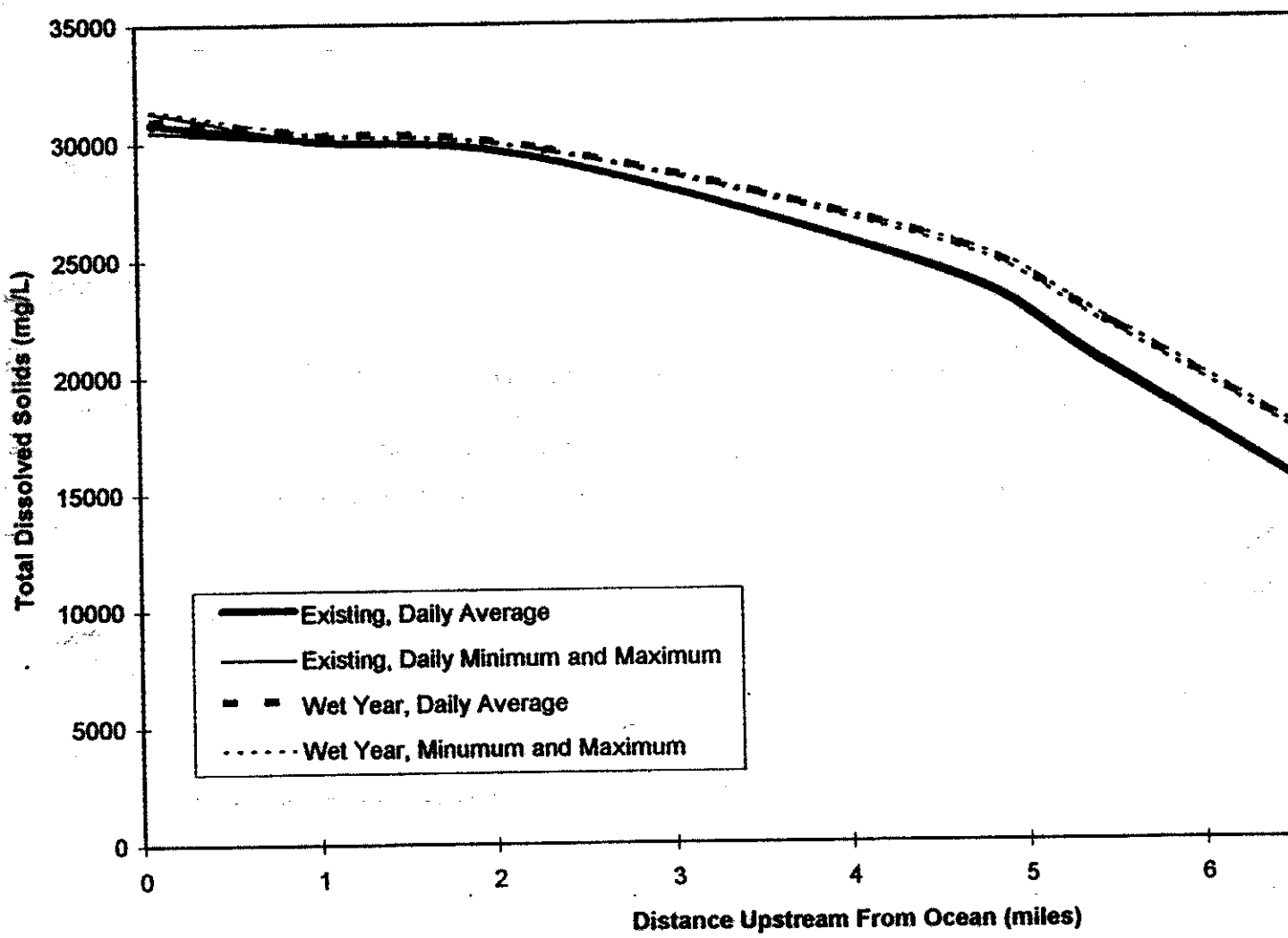


Figure 6-1.11. Irrigation and Storage Impacts on TDS In Estero Americano Summer Inflow and Bar-Closed Conditions

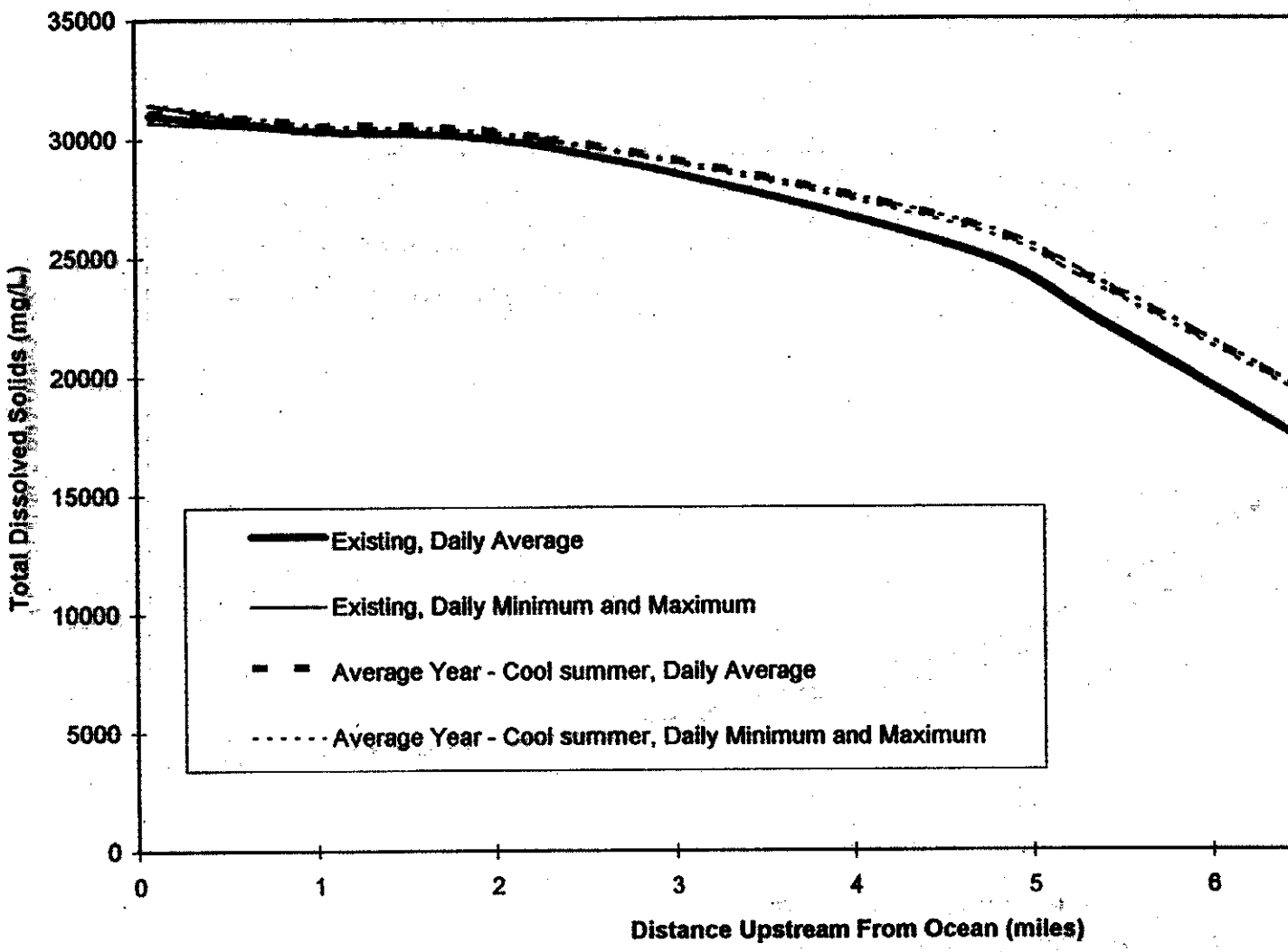


Figure 6-1.12. Irrigation and Storage Impacts on TDS in Estero Americano
Summer Inflow and Bar-Closed Conditions

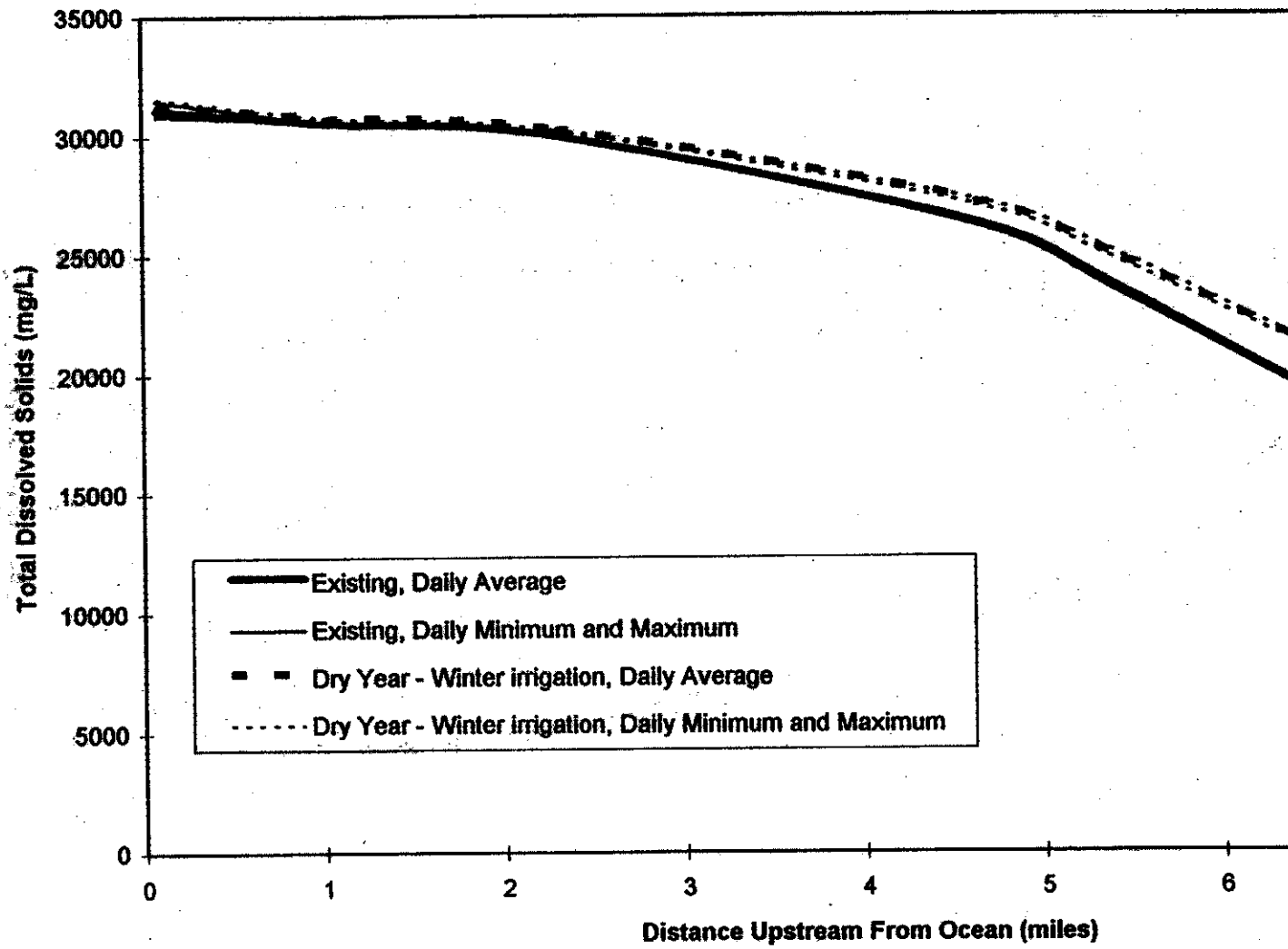


Figure 6-1.13. Irrigation and Storage Impacts on TDS in Estero de San Anton
Spring Inflow and Bar-Open Conditions

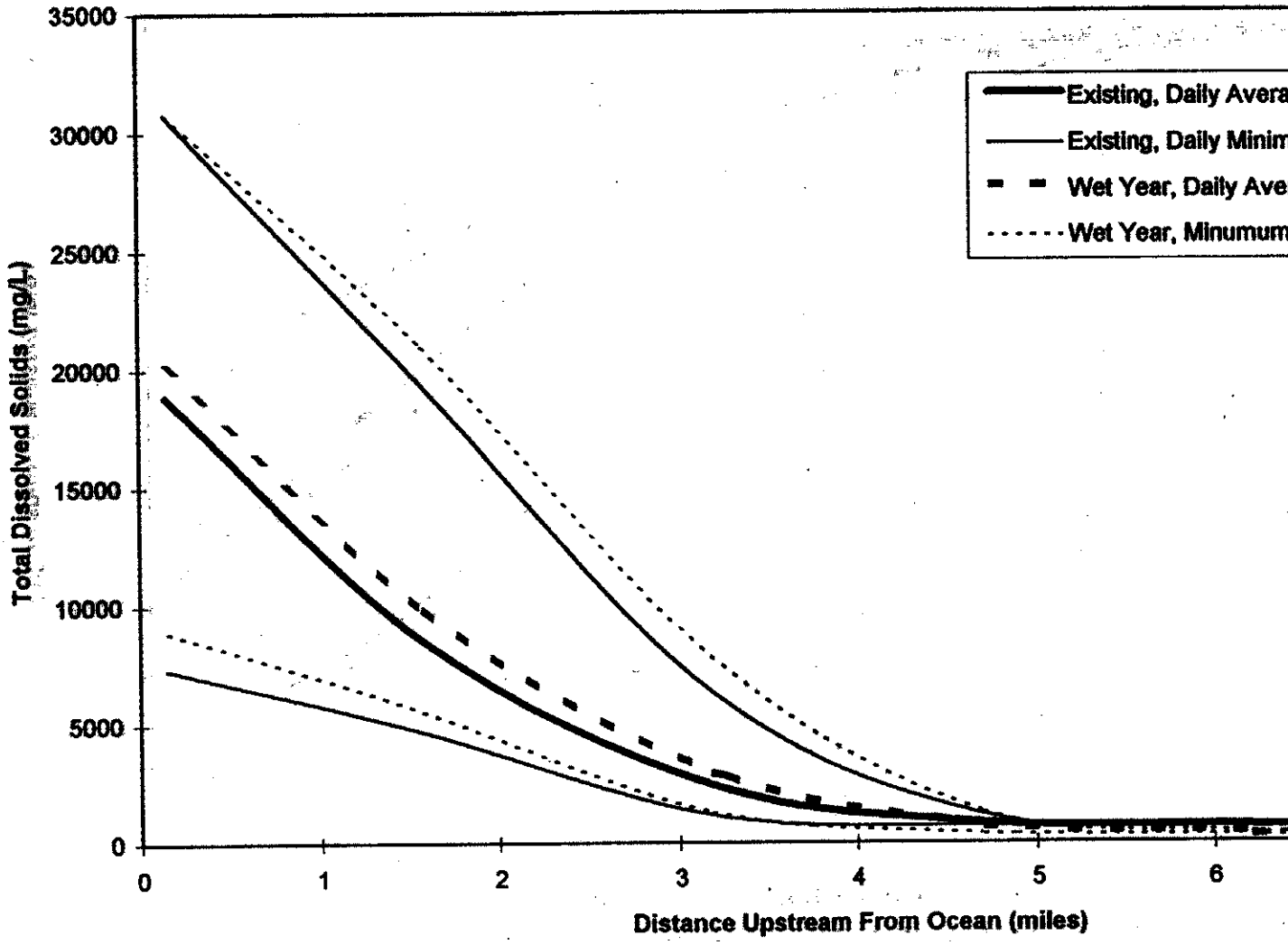
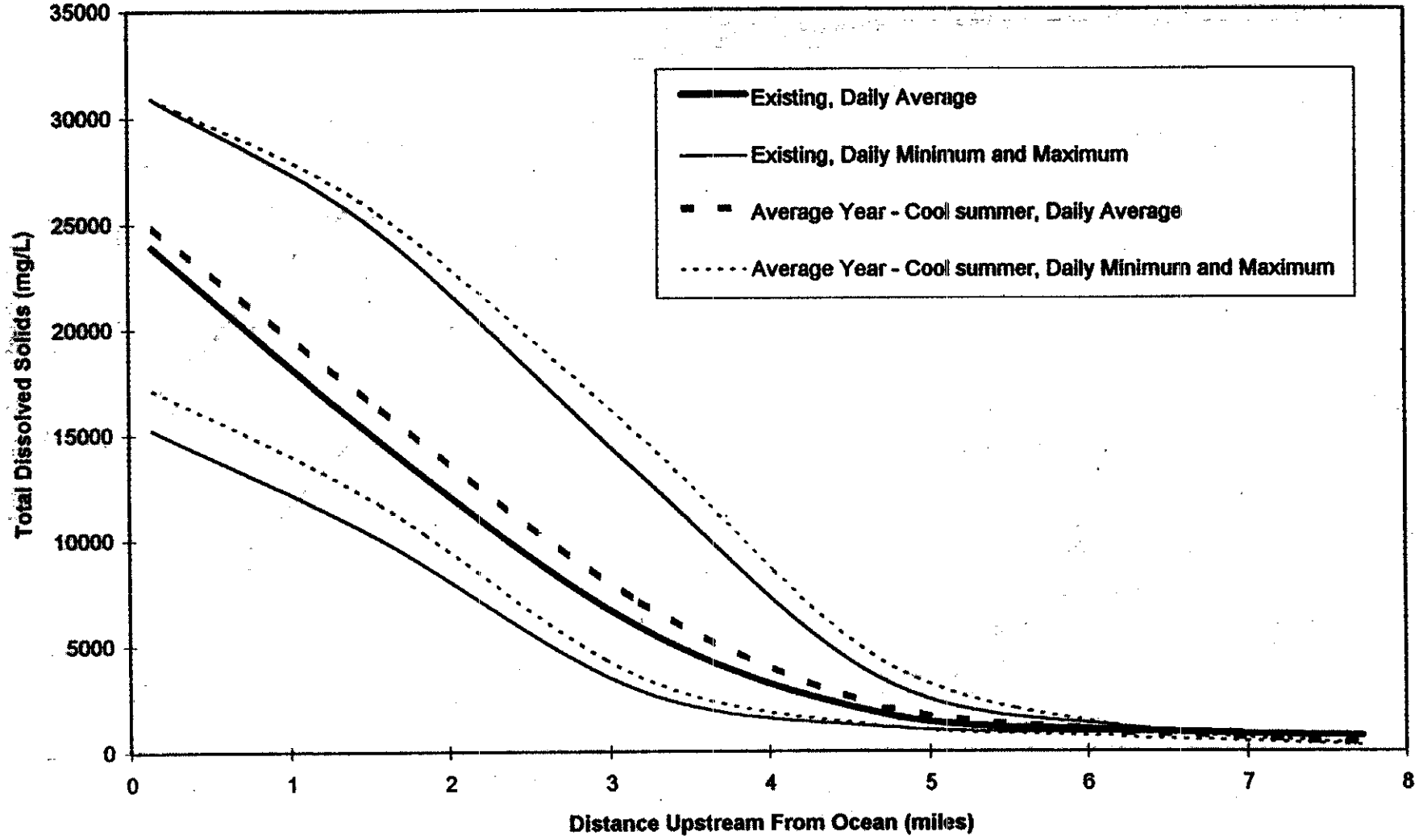


Figure 6-1.14. Irrigation and Storage Impacts on TDS in Estero de San Antonio Spring Inflow and Bar-Open Conditions



Figlure 6-1.15. Irrigation and Storage Impacts on TDS In Estero de San Anton
Spring Inflow and Bar-Open Conditions

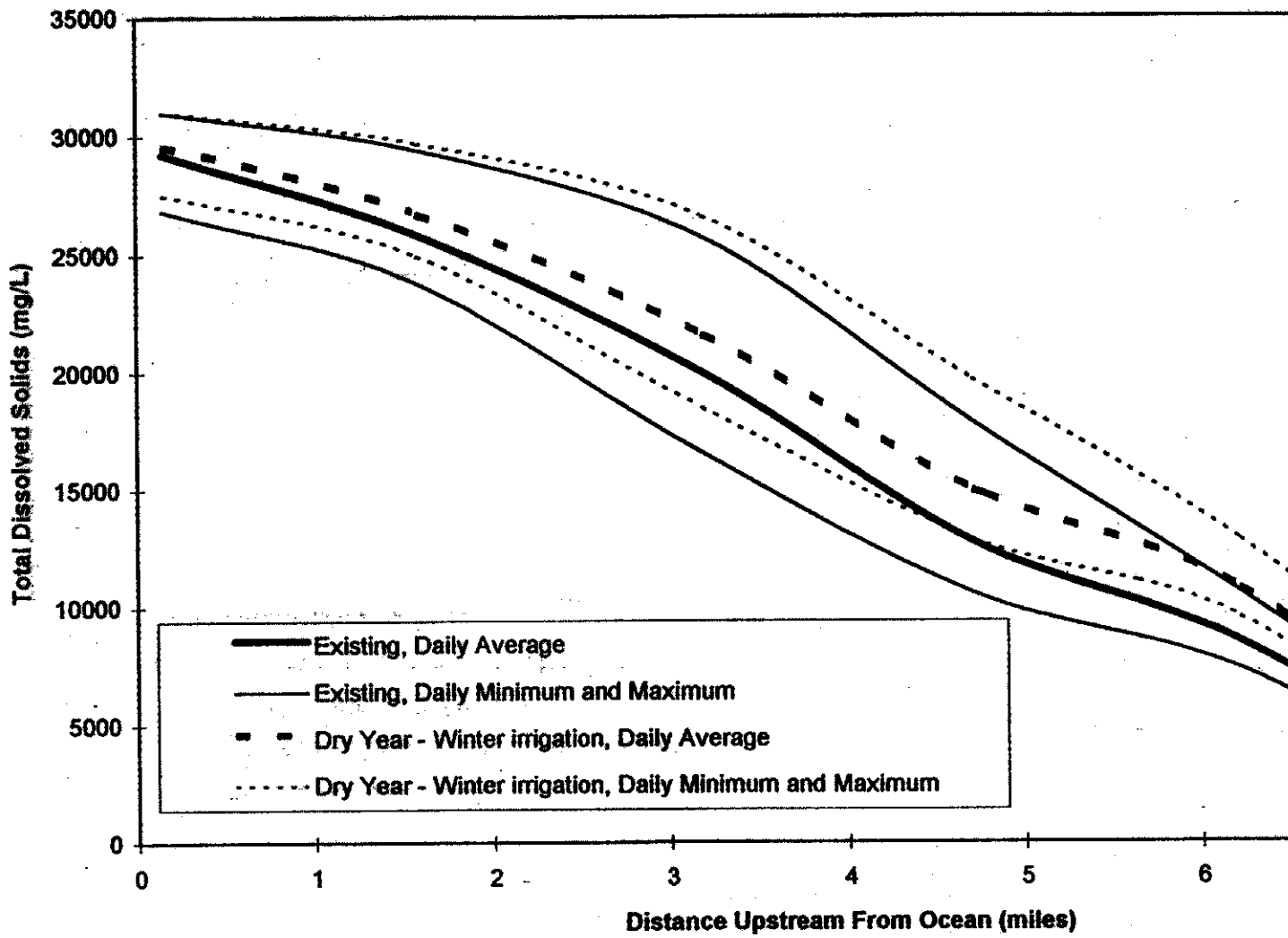


Figure 6-1.16. Irrigation and Storage Impacts on TDS In Estero de San Anton
Spring Inflow and Bar-Closed Conditions

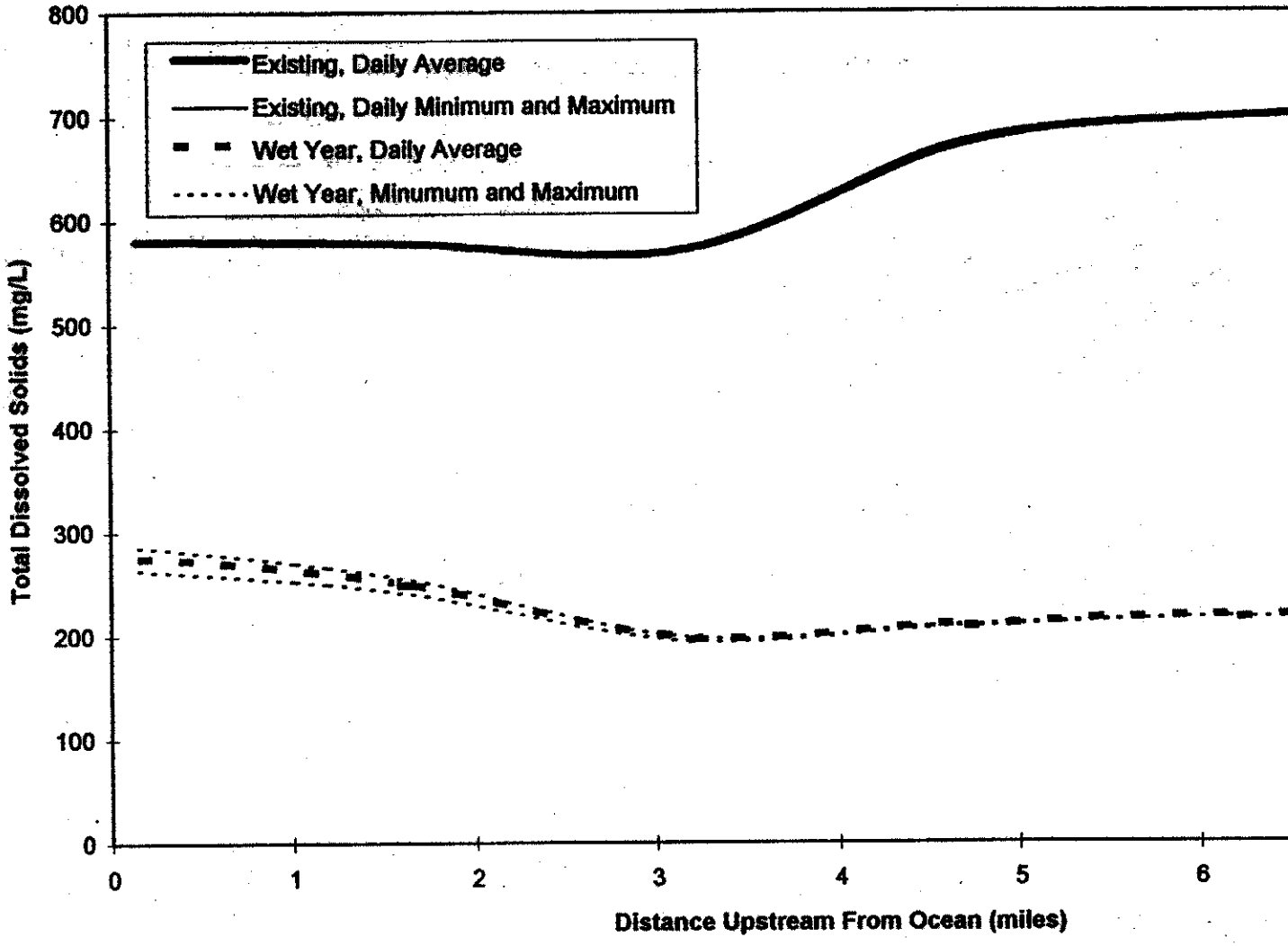
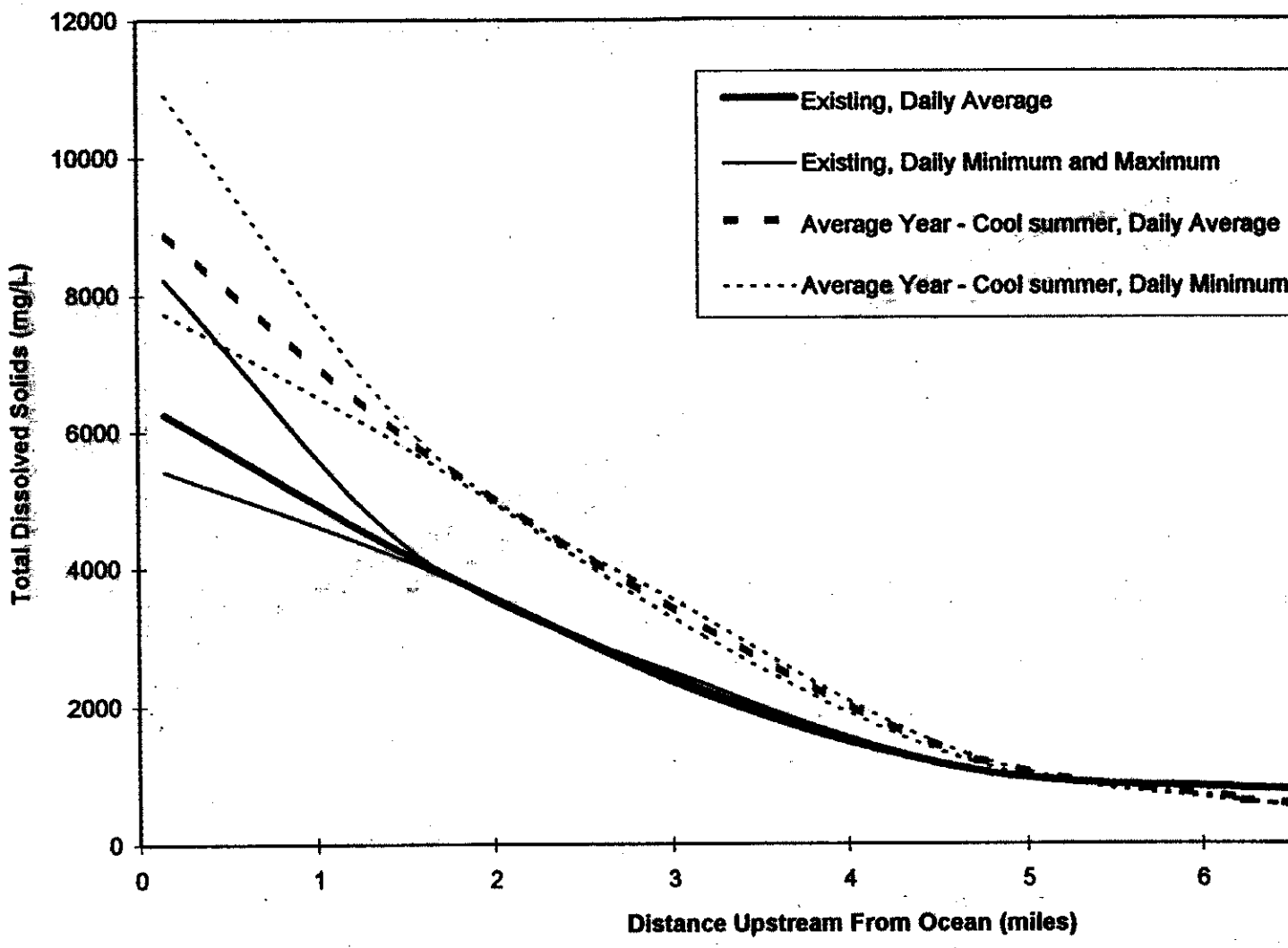


Figure 6-1.17. Irrigation and Storage Impacts on TDS in Estero de San Antoni
Spring Inflow and Bar-Closed Conditions



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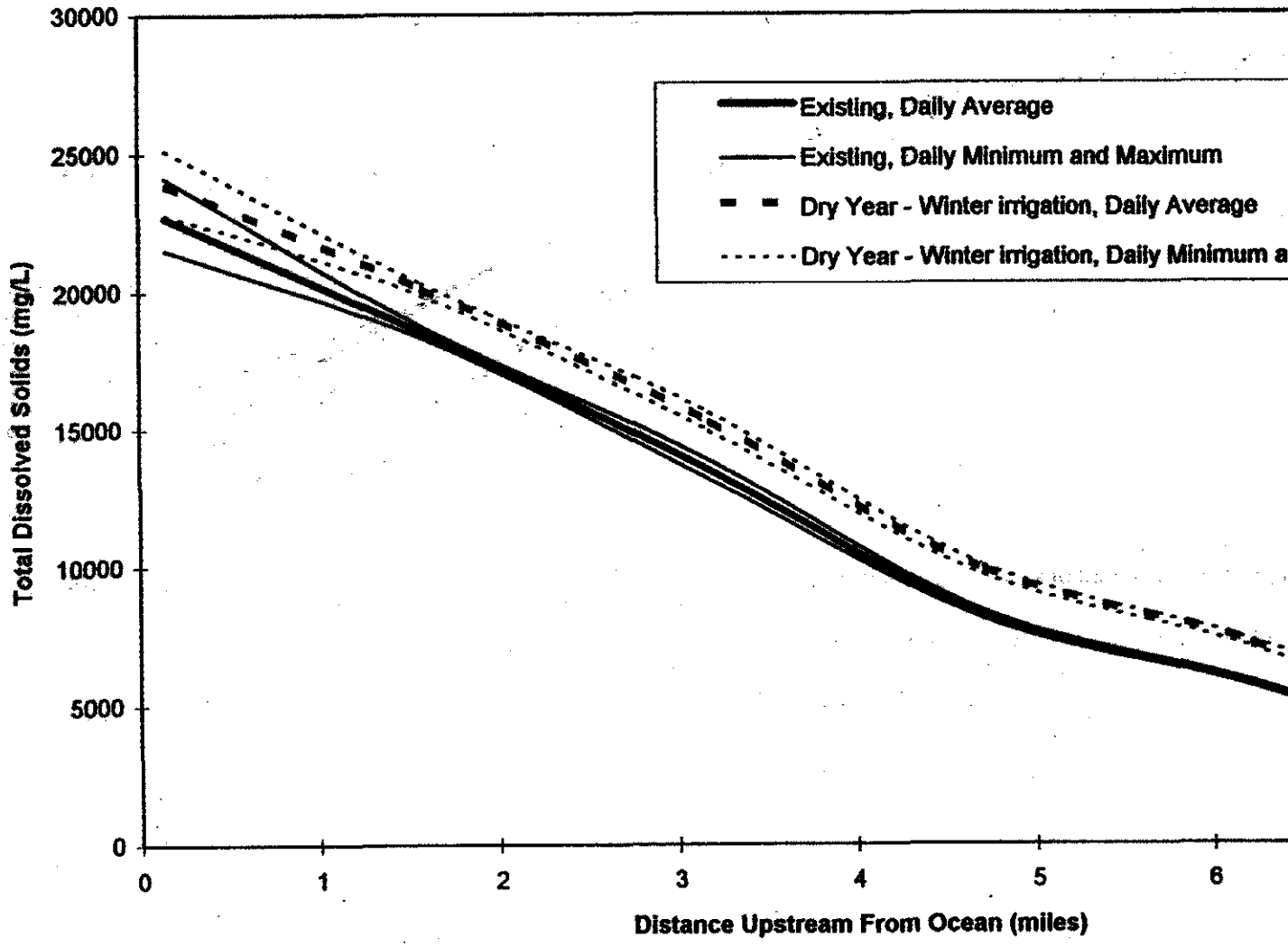
Spring Inflow and Bar-Closed Conditions



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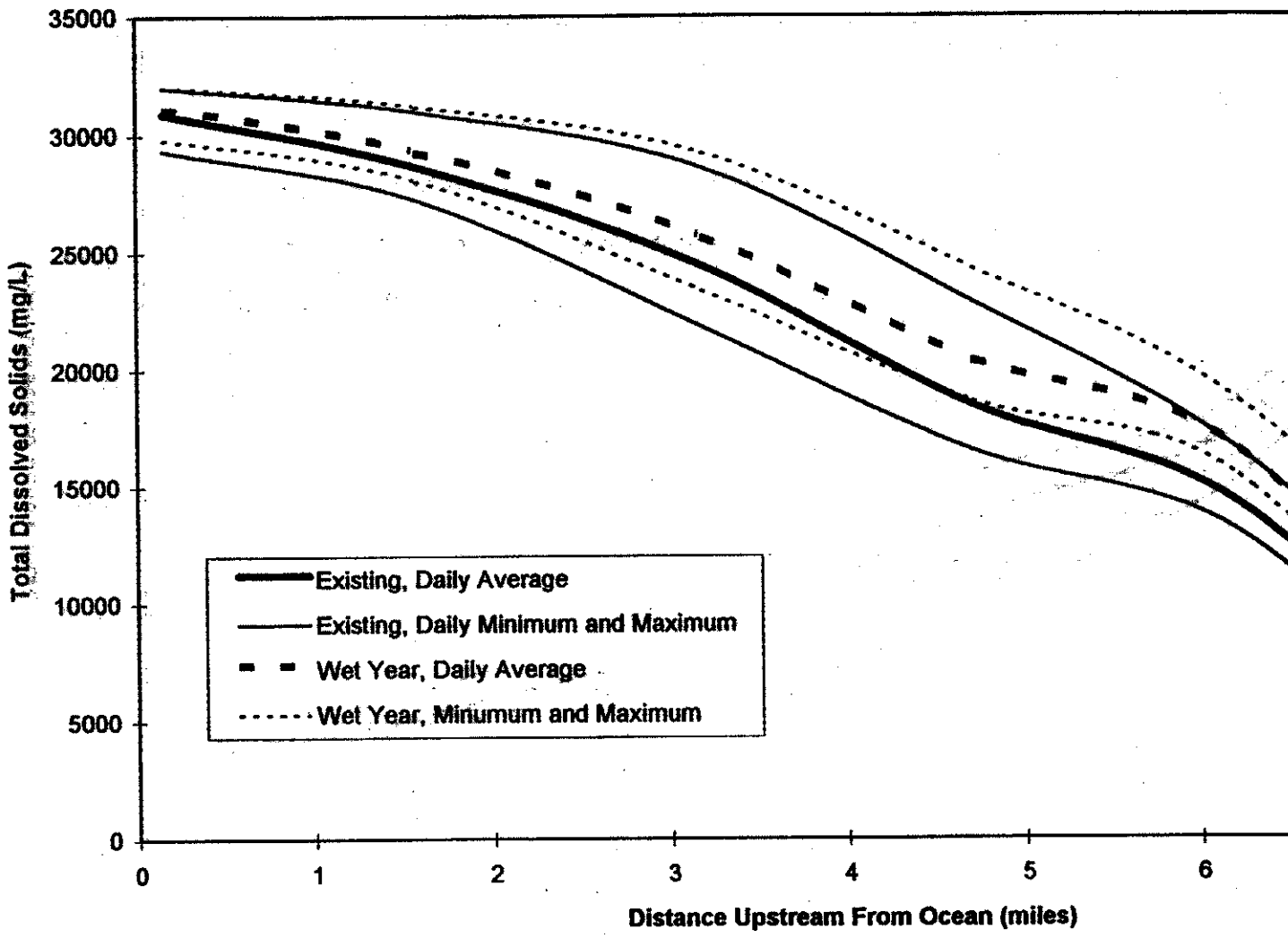
Summer Inflow and Bar-Open Conditions



Figlure 6-1.20. Irrigation and Storage Impacts on TDS in Estero de San Antou
Summer Inflow and Bar-Open Conditions

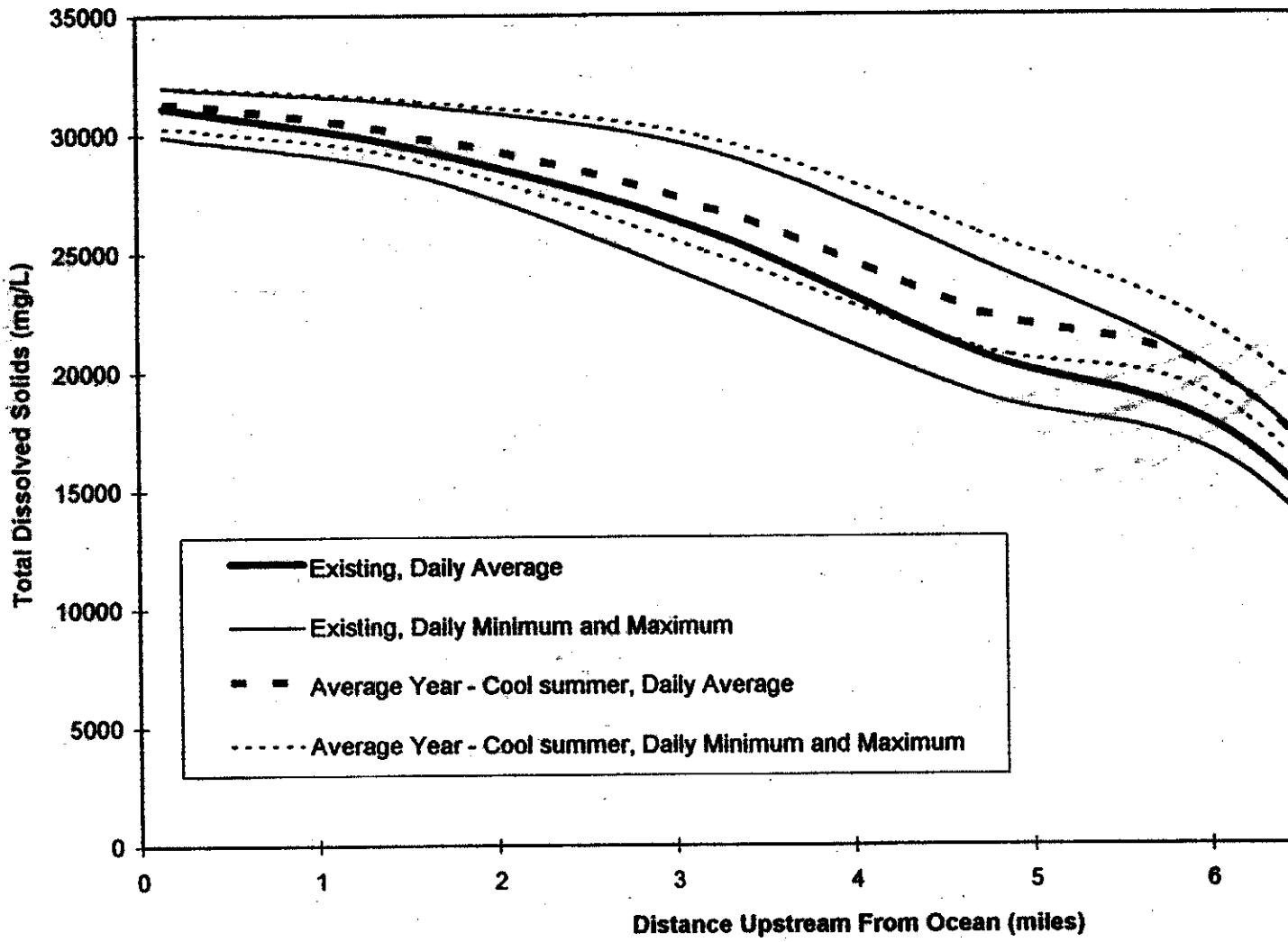


Figure 6-1.21. Irrigation and Storage Impacts on TDS in Estero de San Antonio Summer Inflow and Bar-Open Conditions

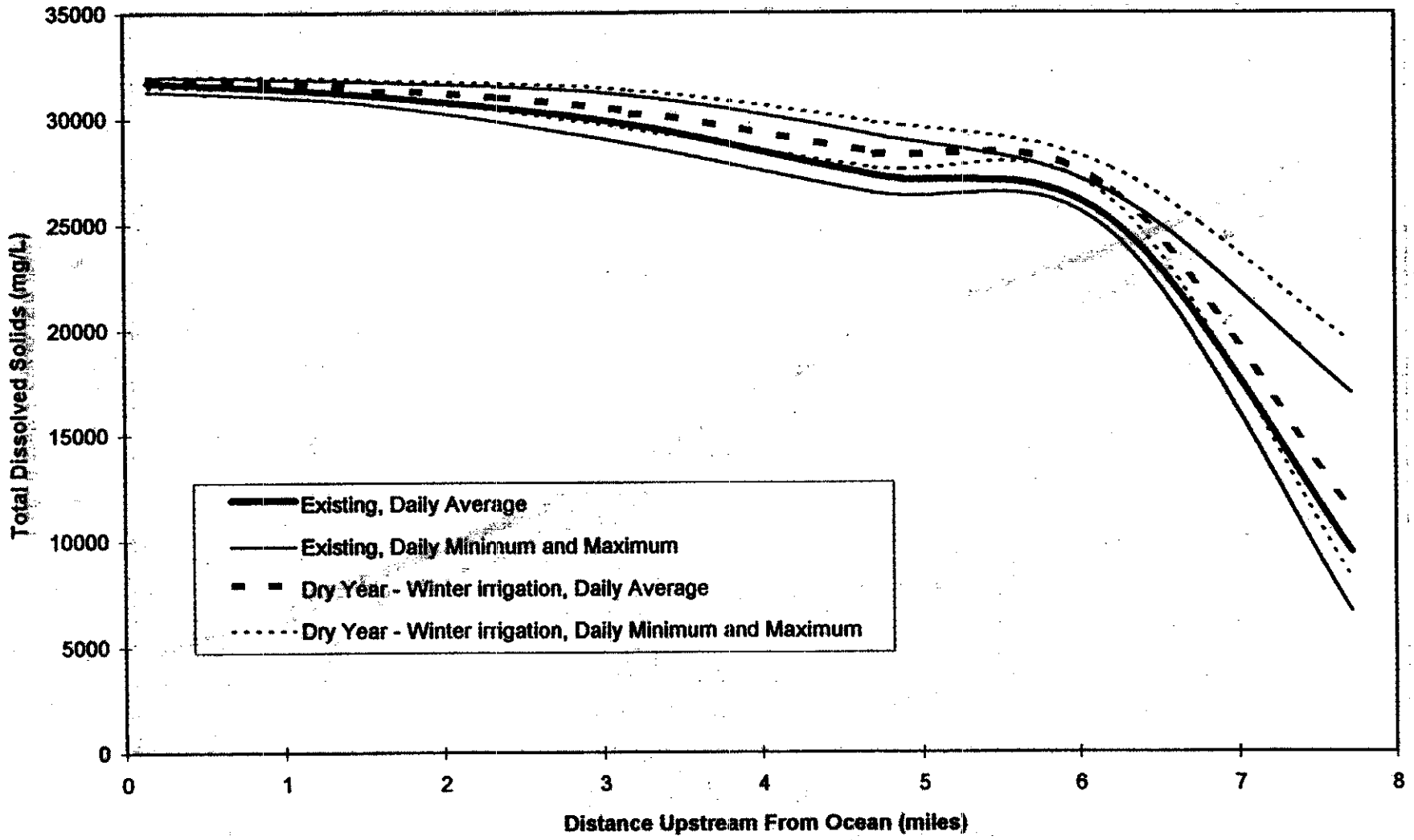
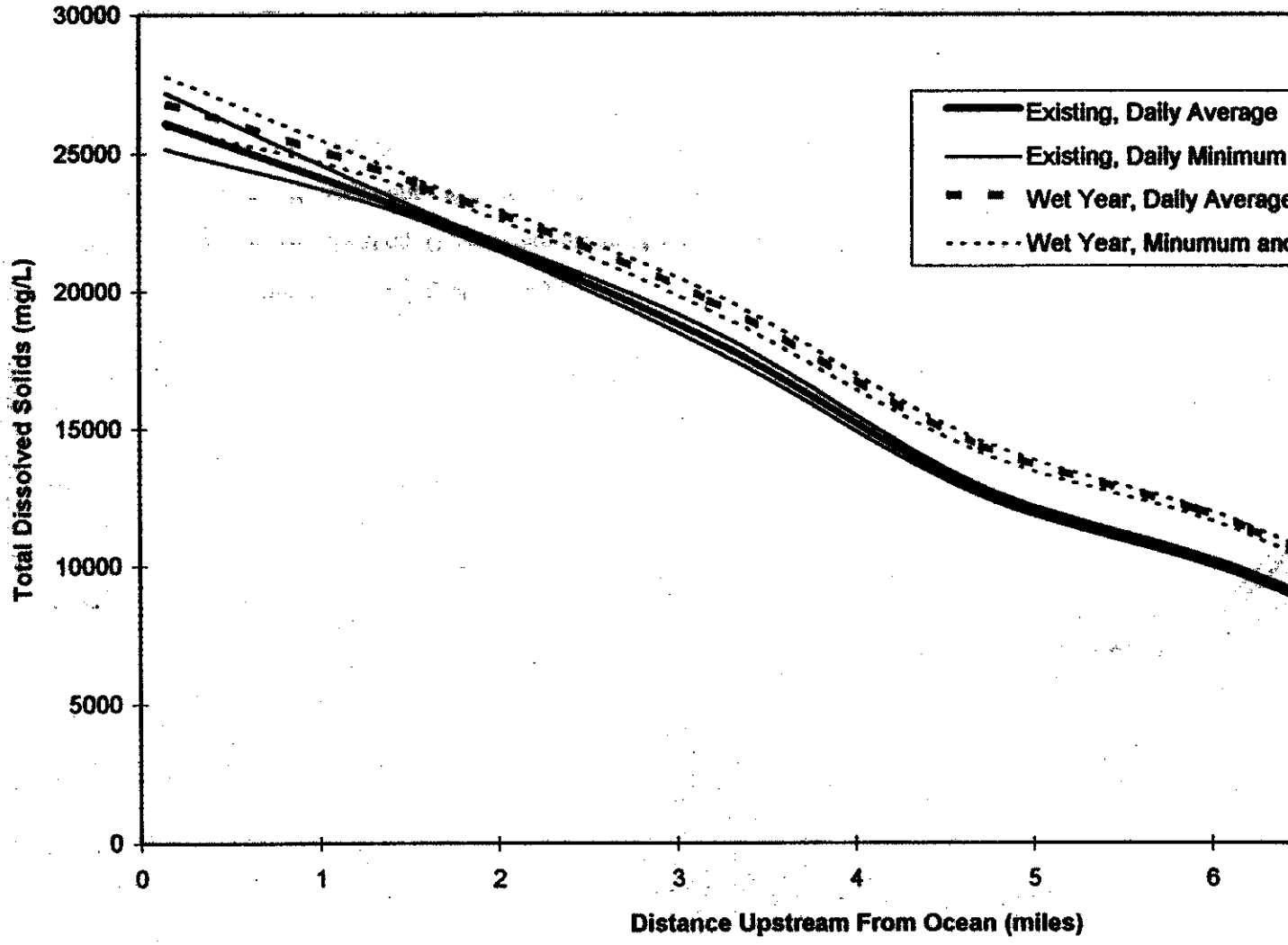


Figure 6-1.22. Irrigation and Storage Impacts on TDS in Estero de San Anton
Summer Inflow and Bar-Closed Conditions



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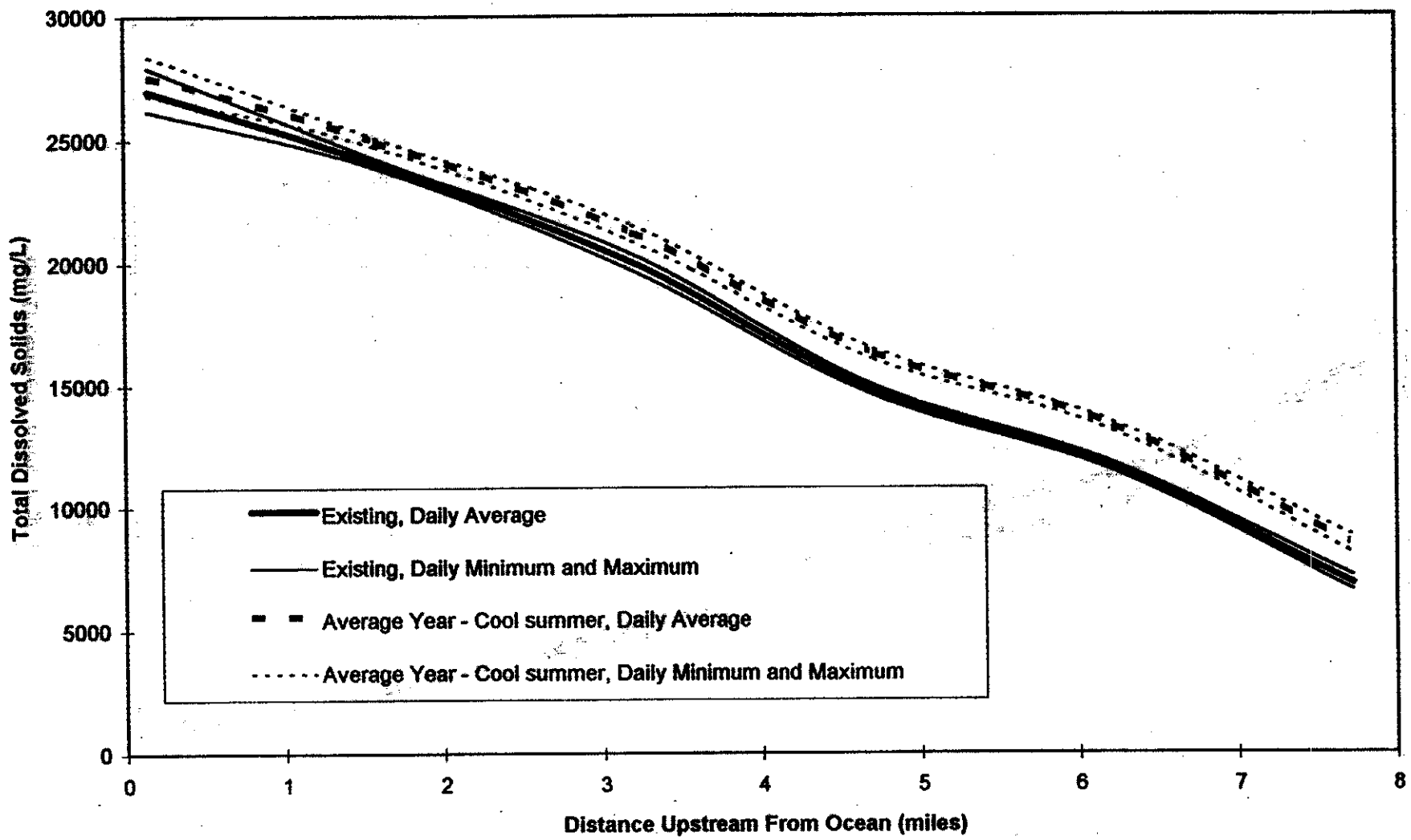

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Summer Inflow and Bar-Closed Conditions

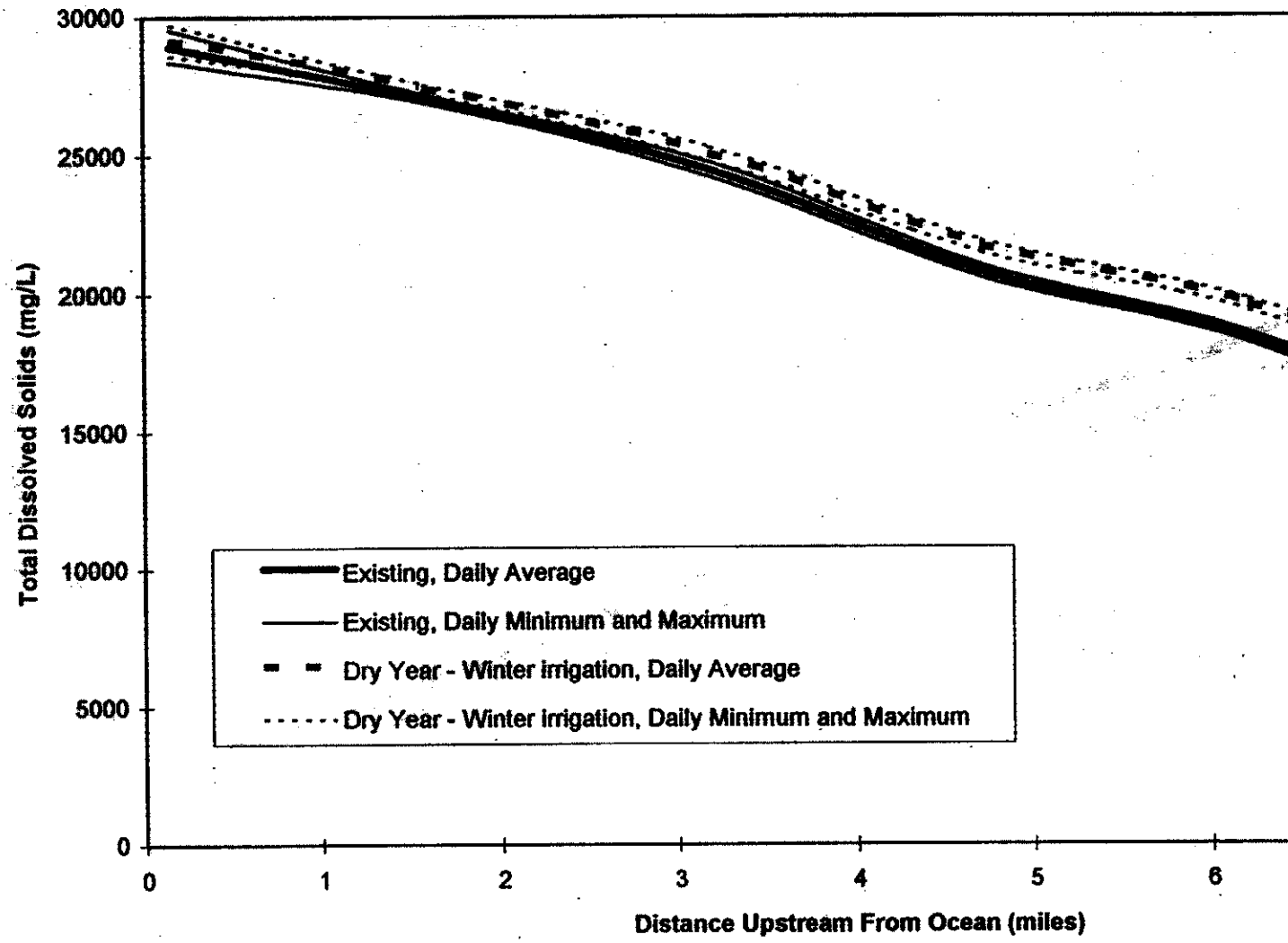
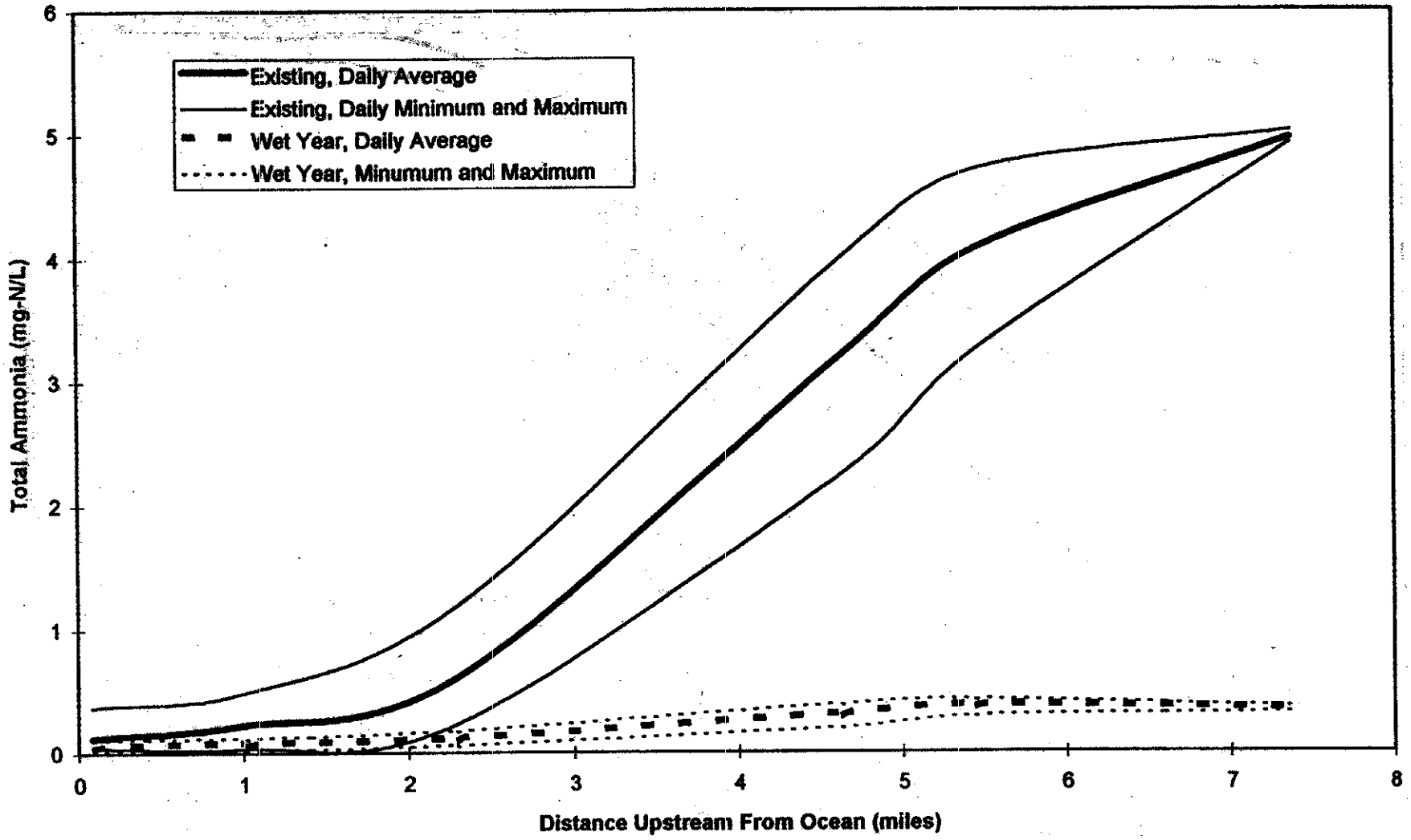


Figure 6-2.1. Irrigation and Storage Impacts on Ammonia In Estero Americano Spring Inflow and Bar-Open Conditions



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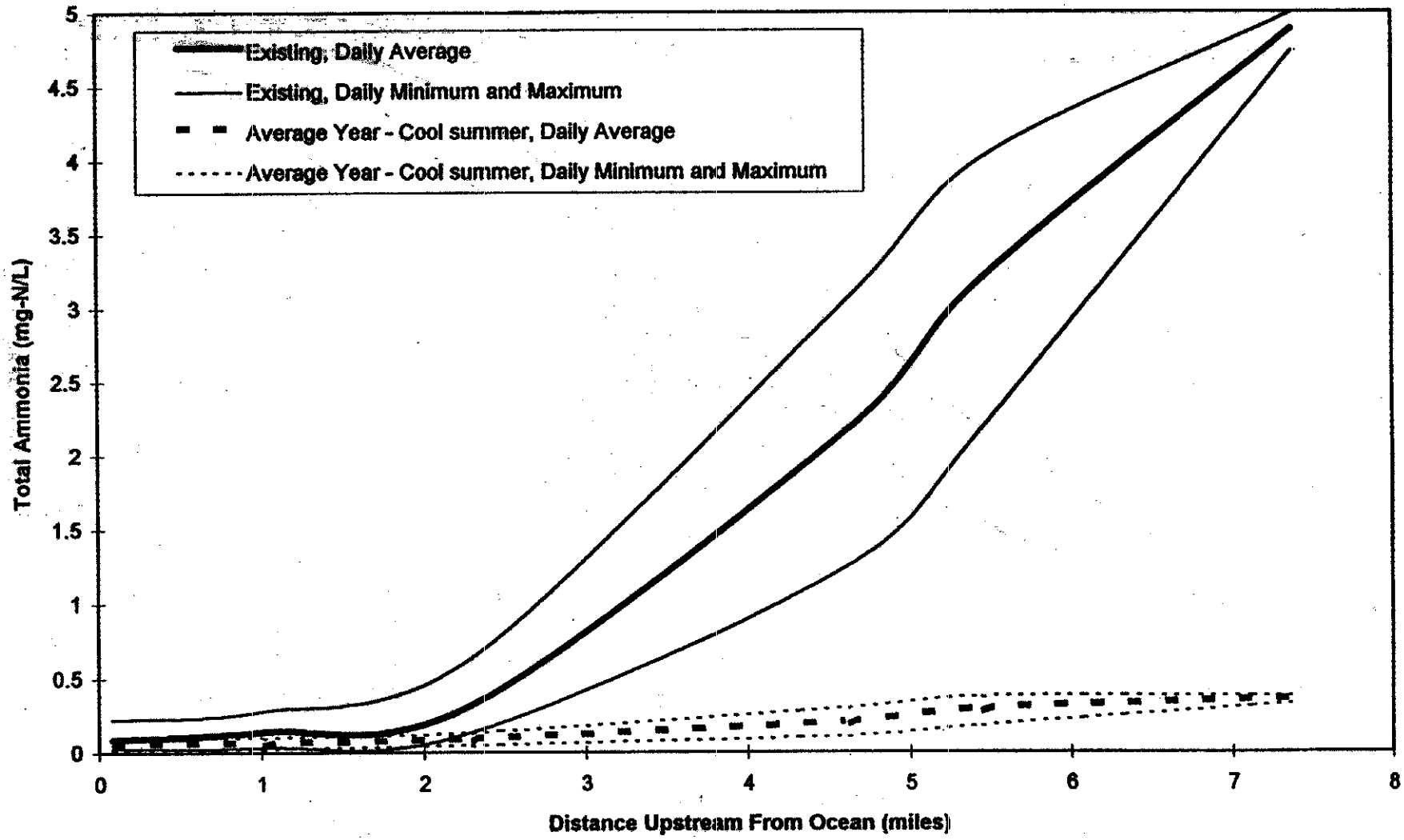

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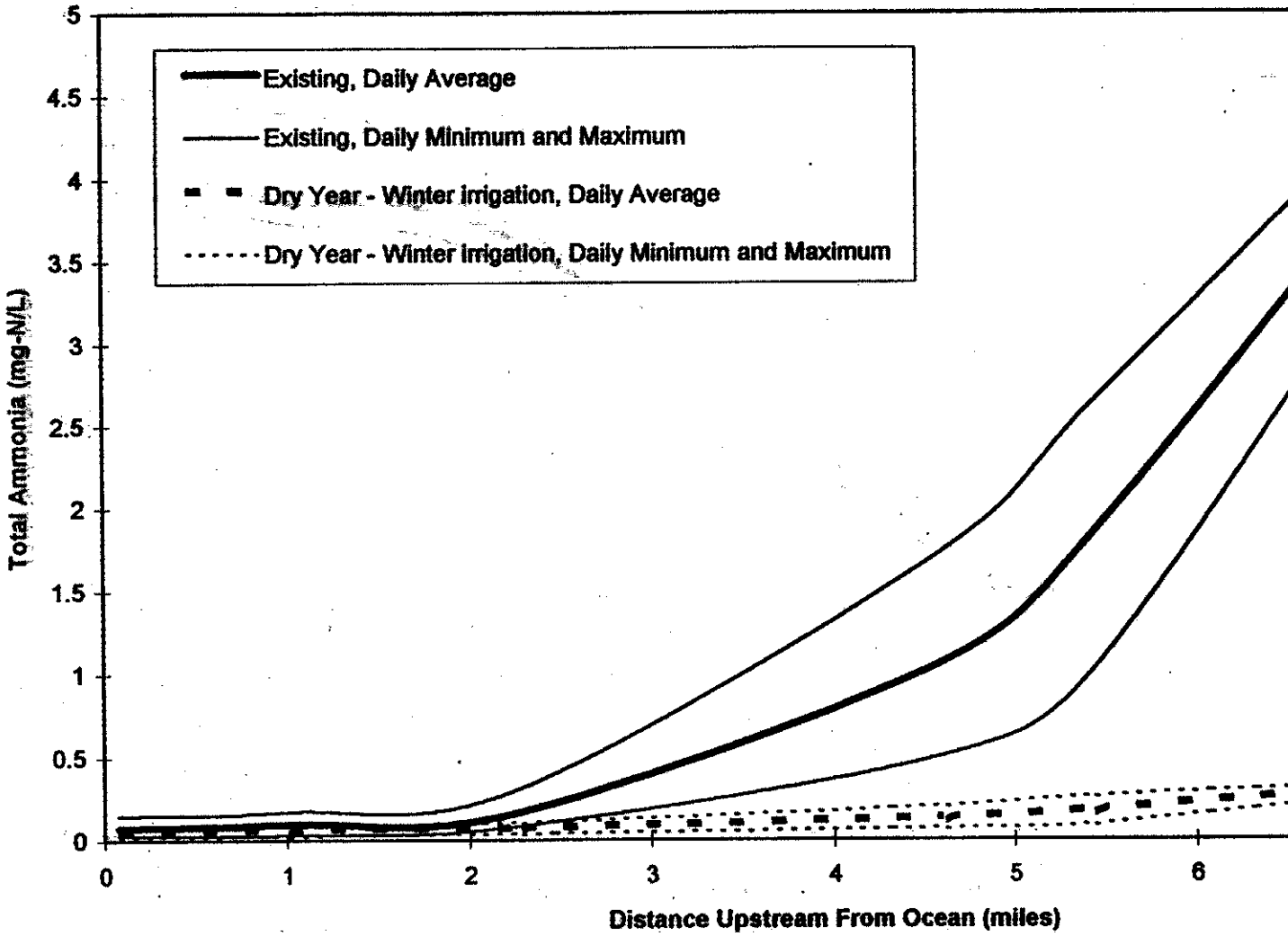
Spring Inflow and Bar-Open Conditions



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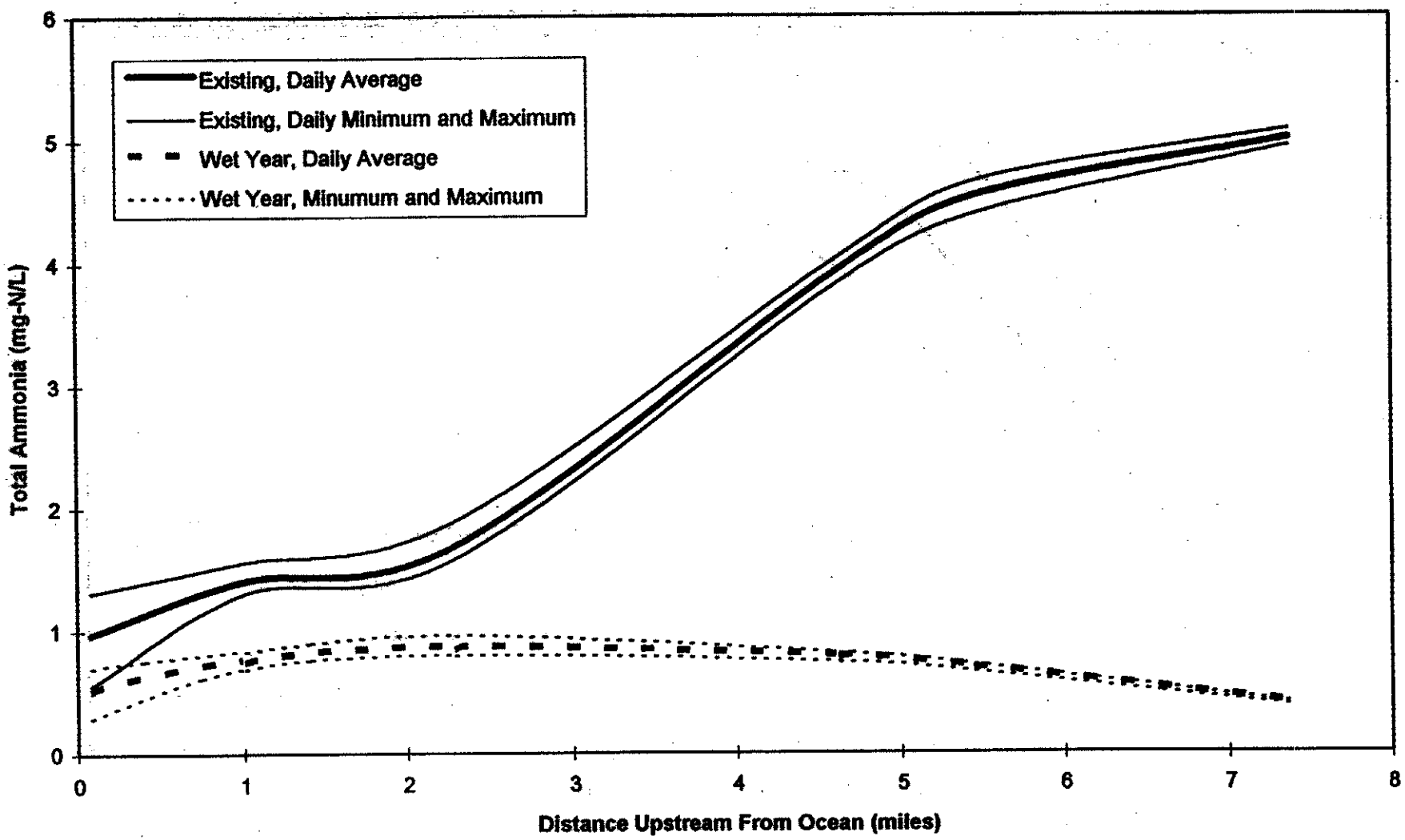

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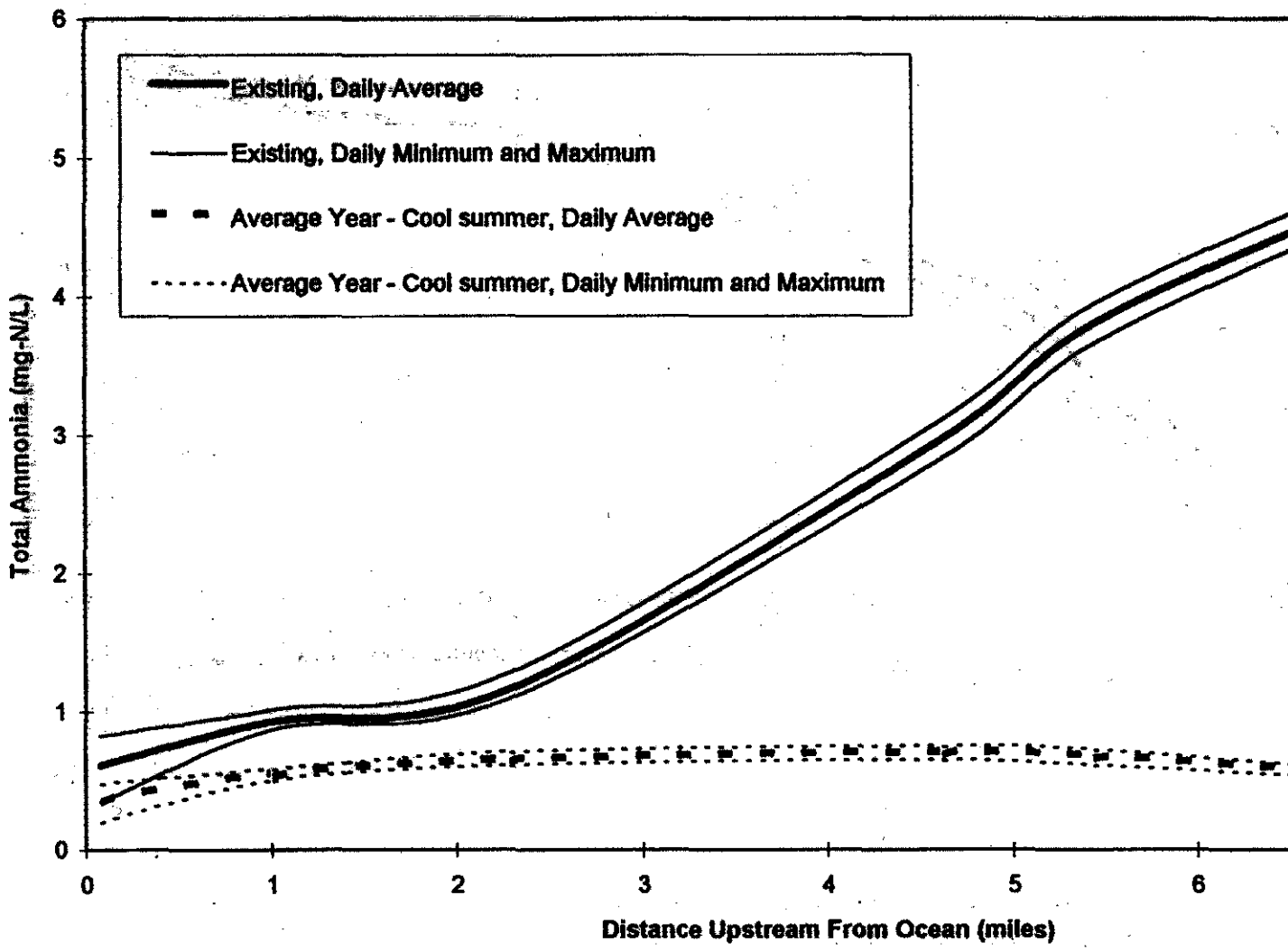
Spring Inflow and Bar-Closed Conditions



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Spring Inflow and Bar-Closed Conditions

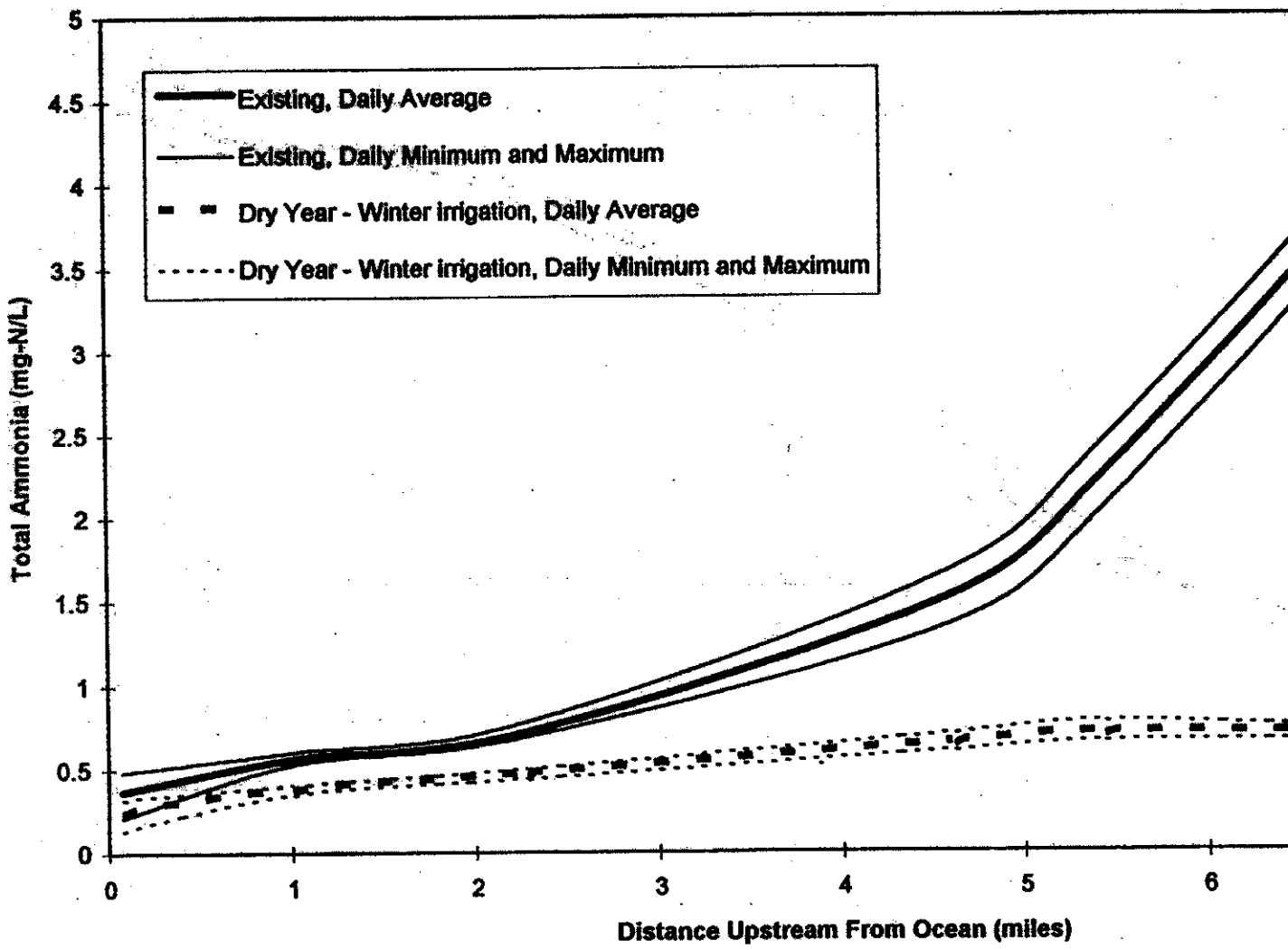
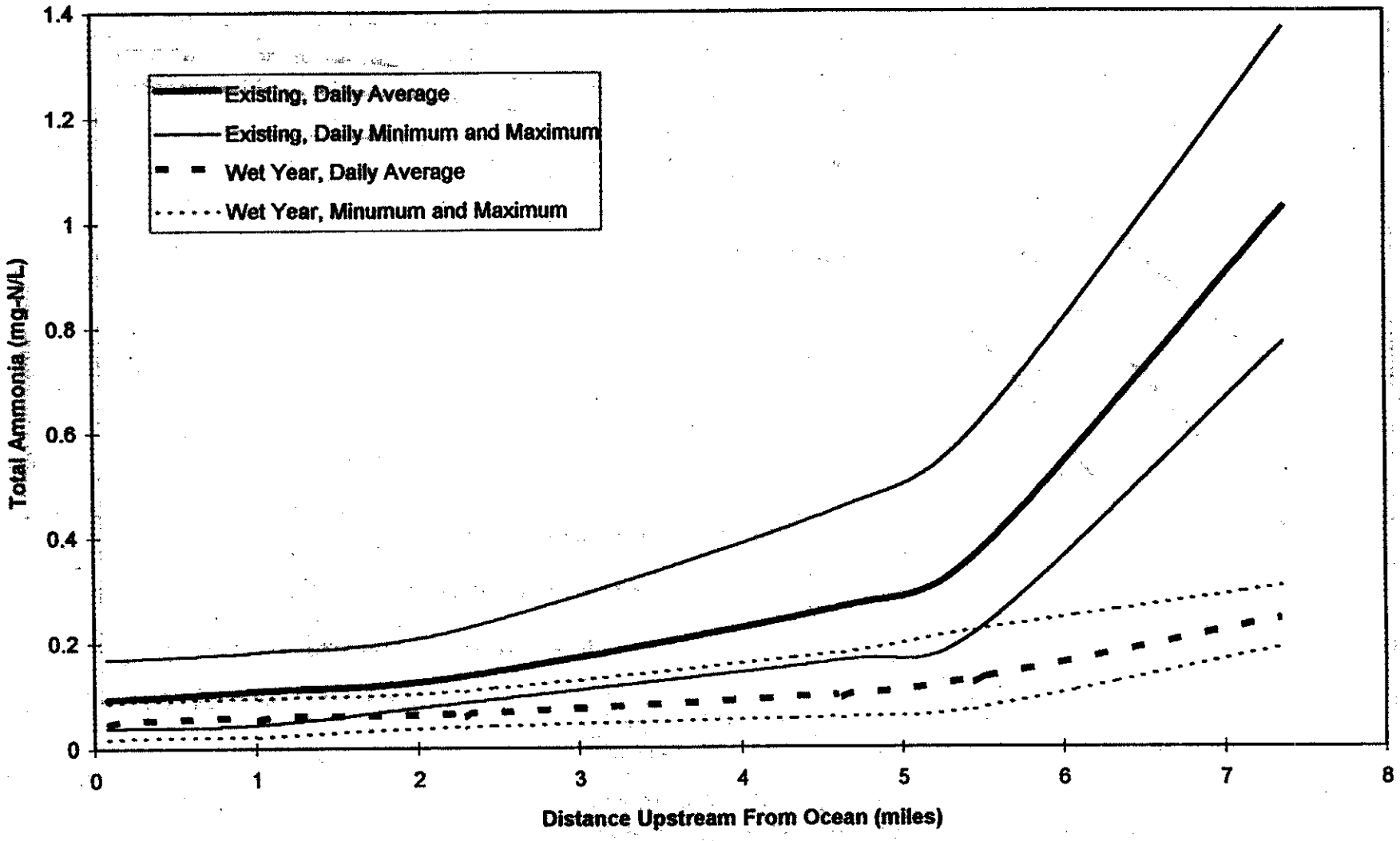


Figure 6-2.7. Irrigation and Storage Impacts on Ammonia In Estero Americano Summer Inflow and Bar-Open Conditions



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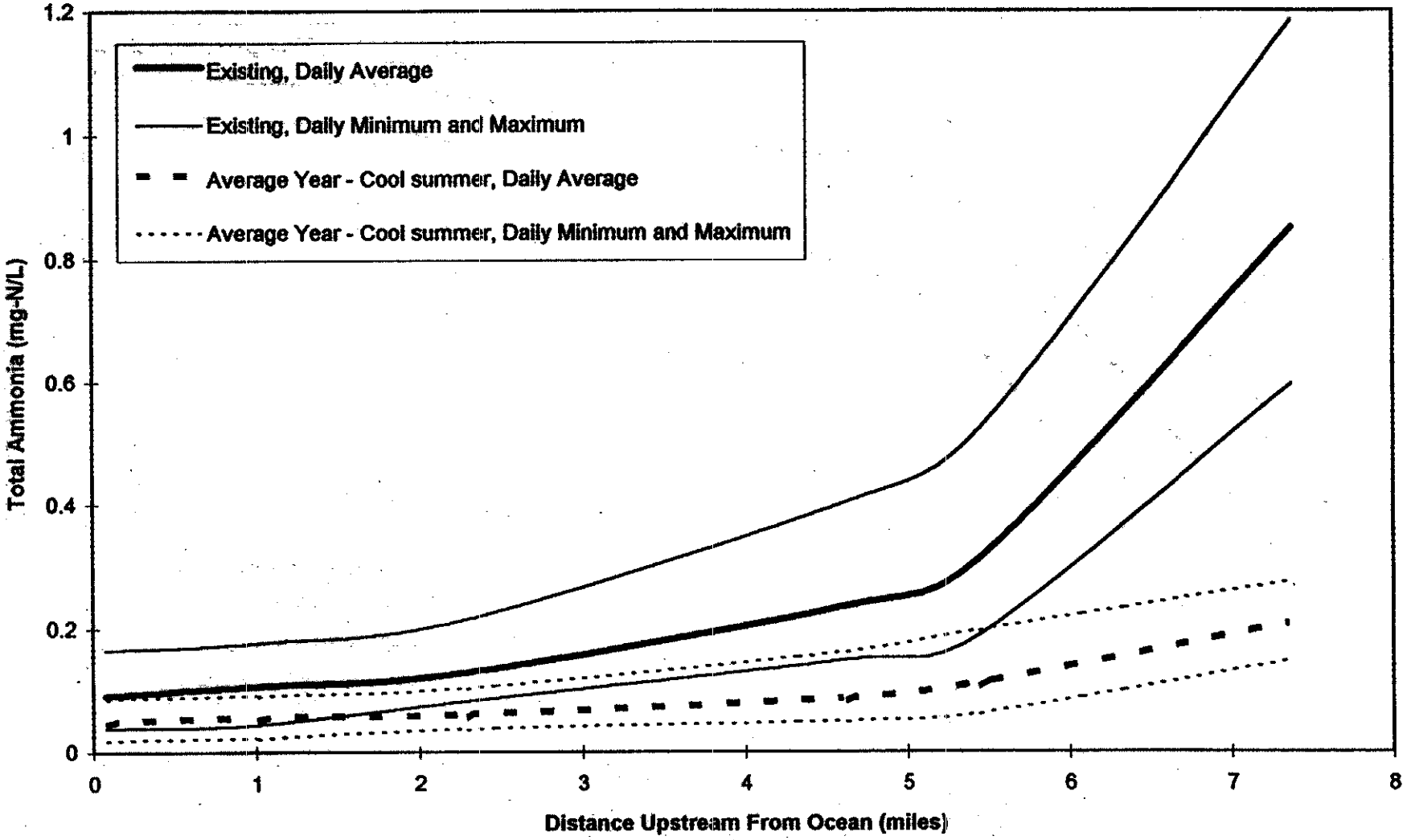

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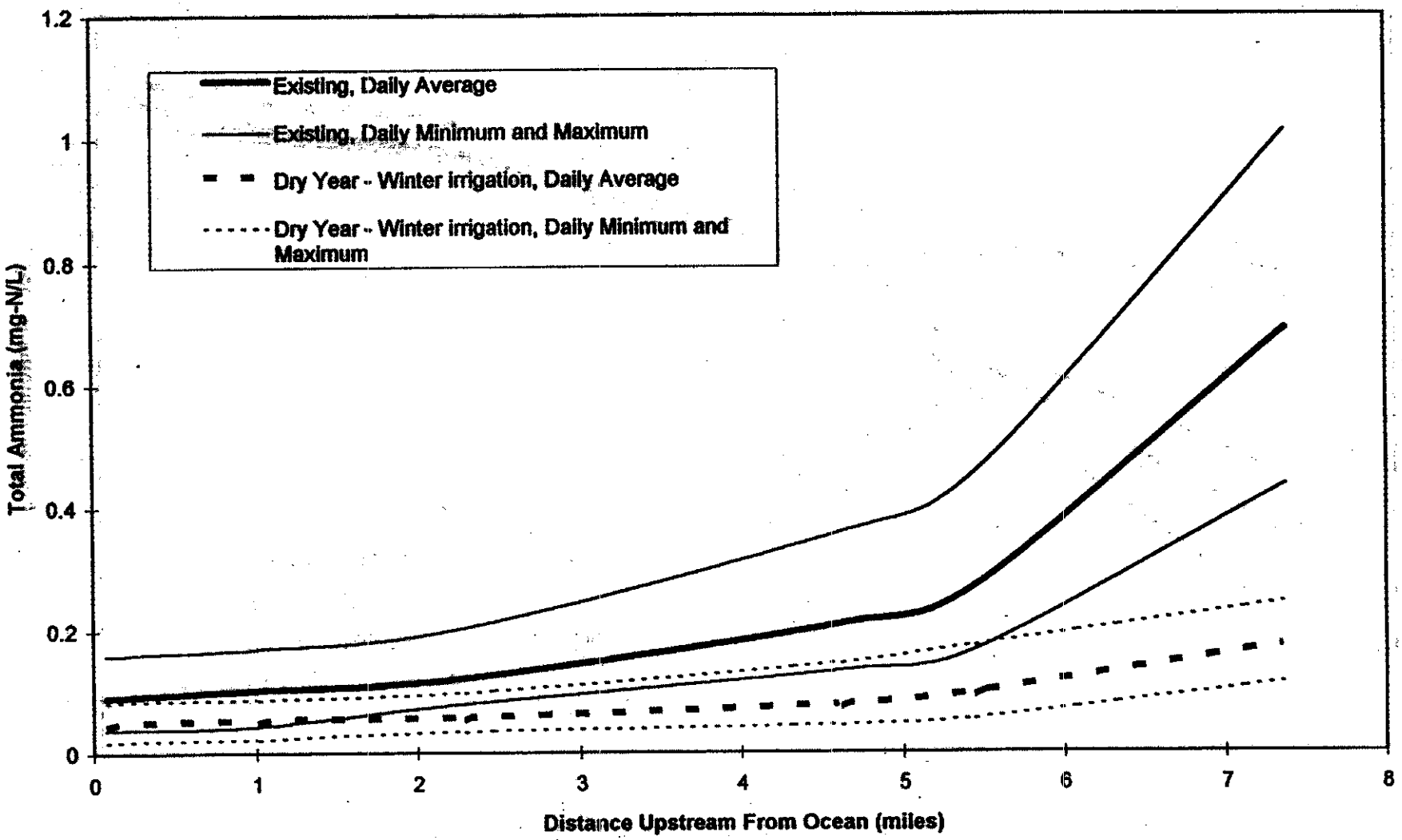

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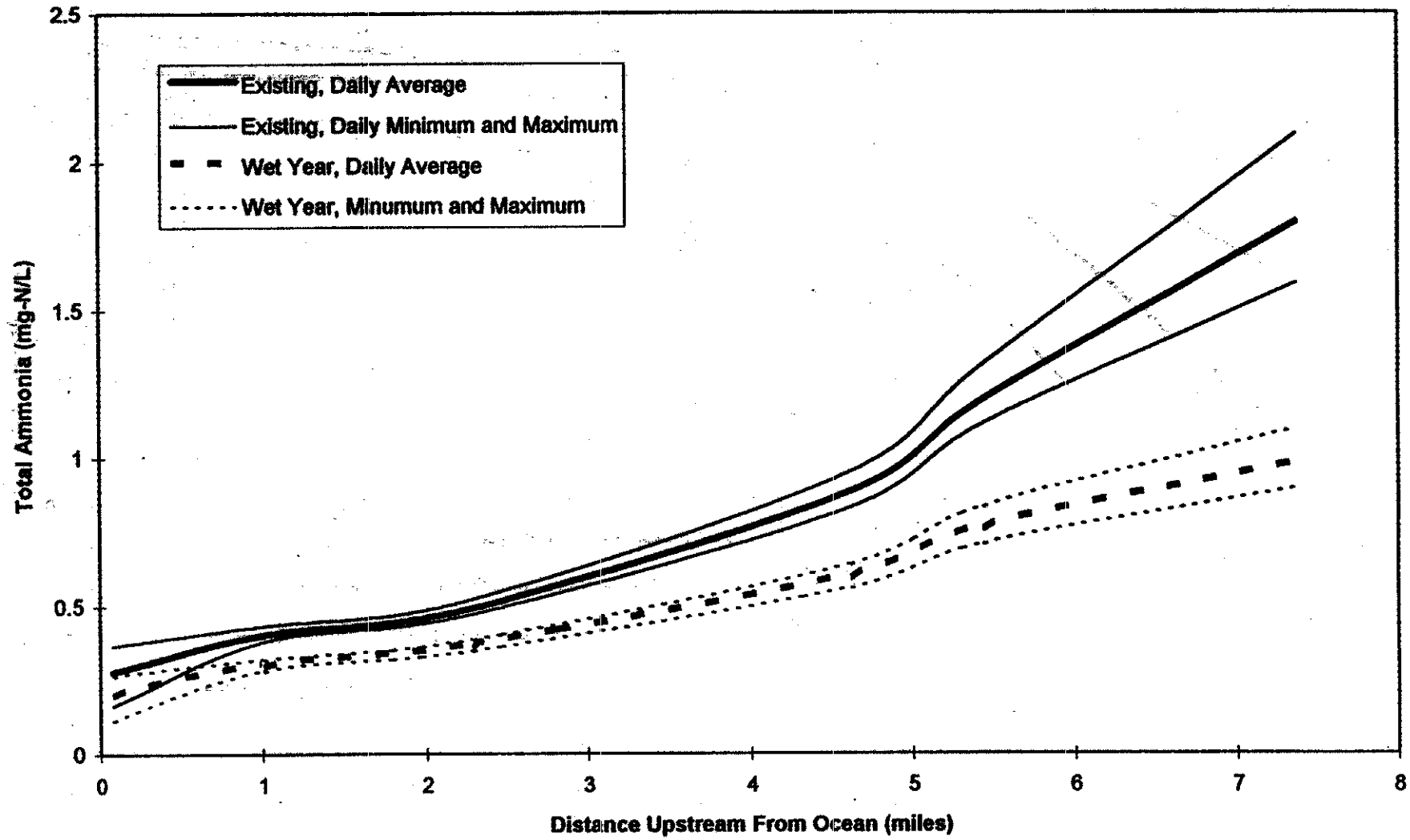

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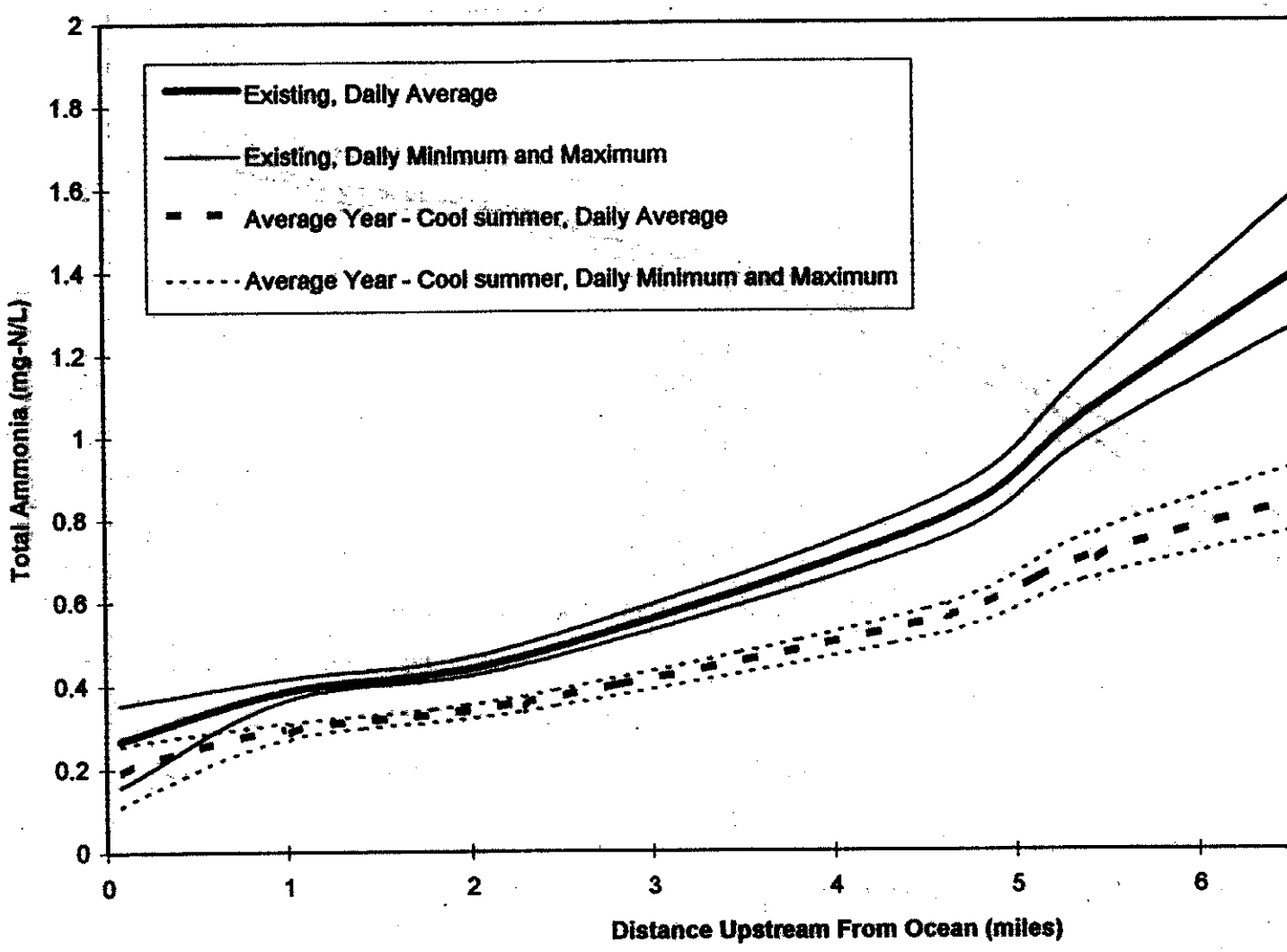
Summer Inflow and Bar-Closed Conditions



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Summer Inflow and Bar-Closed Conditions

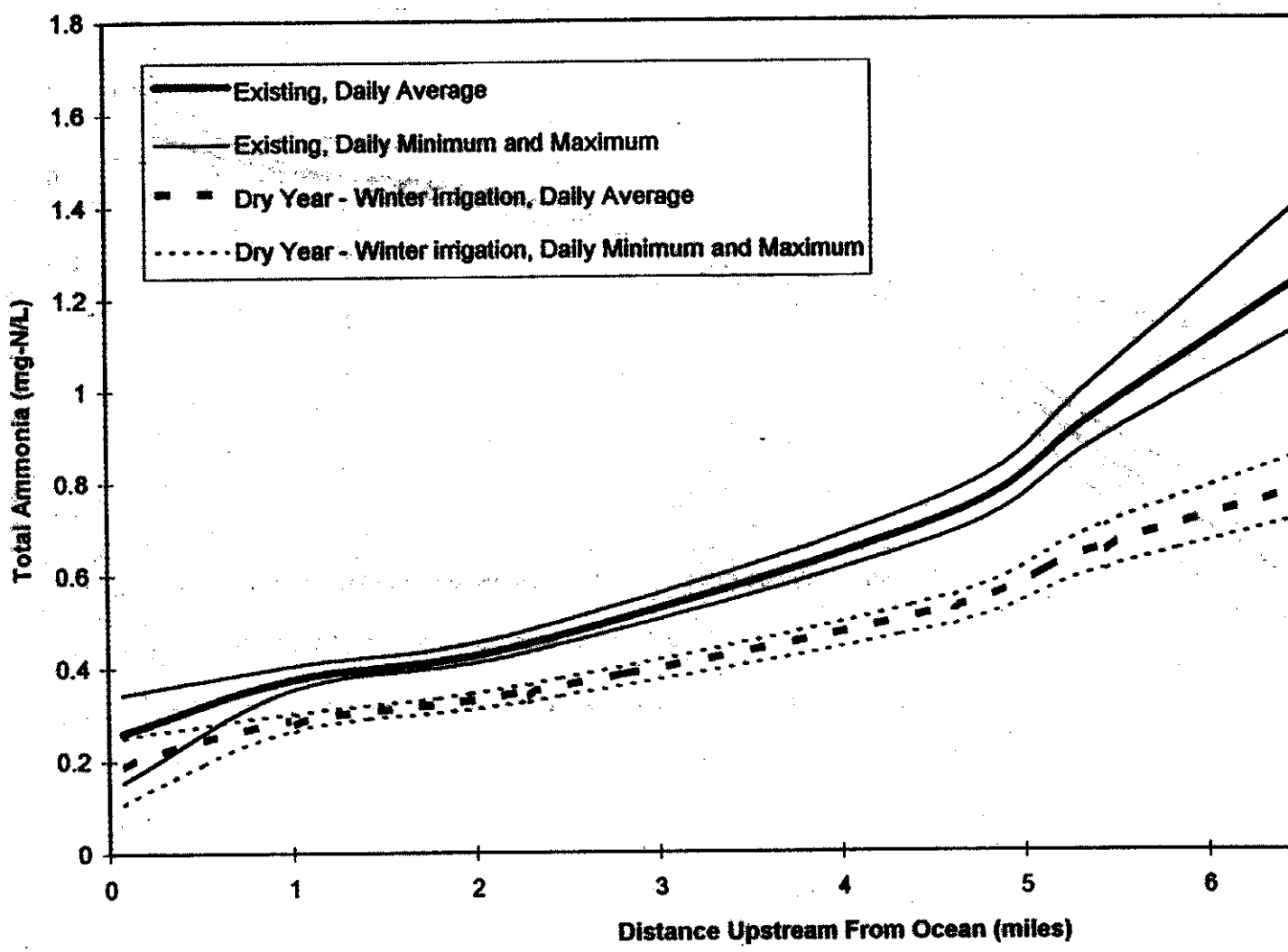
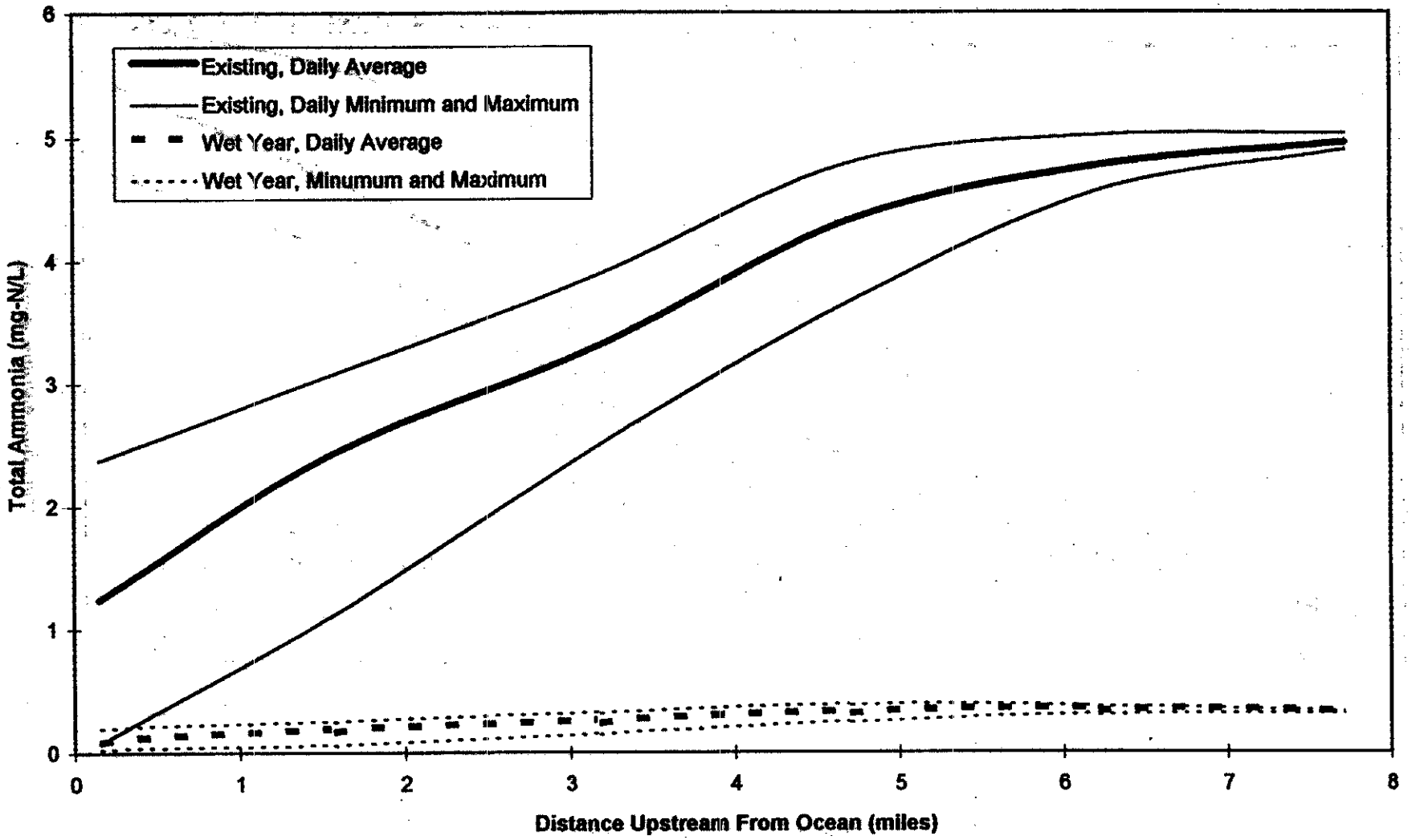


Figure 6-2.13. Irrigation and Storage Impacts on Ammonia in Estero de San Antonio Spring Inflow and Bar-Open Conditions



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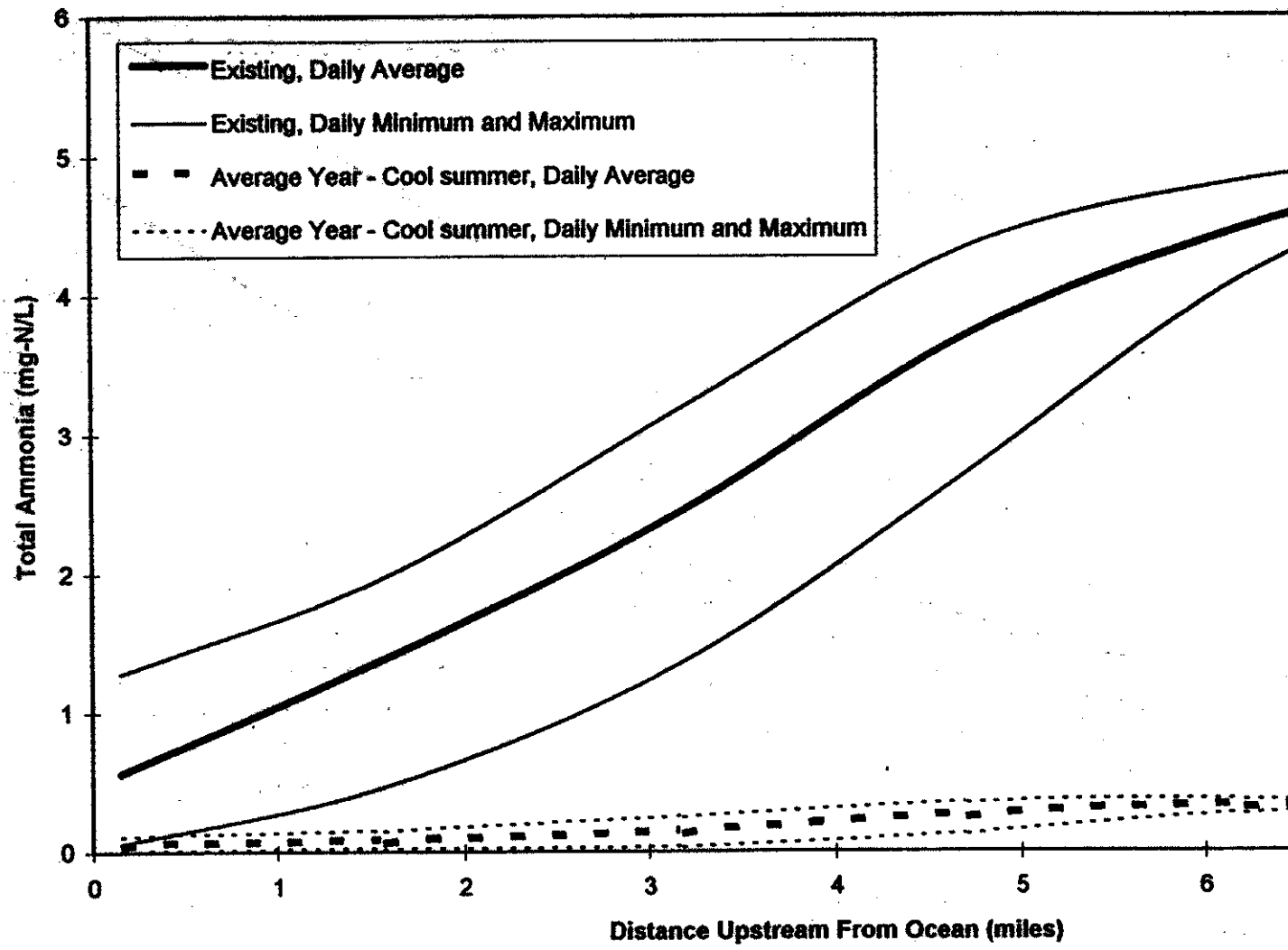
Spring Inflow and Bar-Open Conditions



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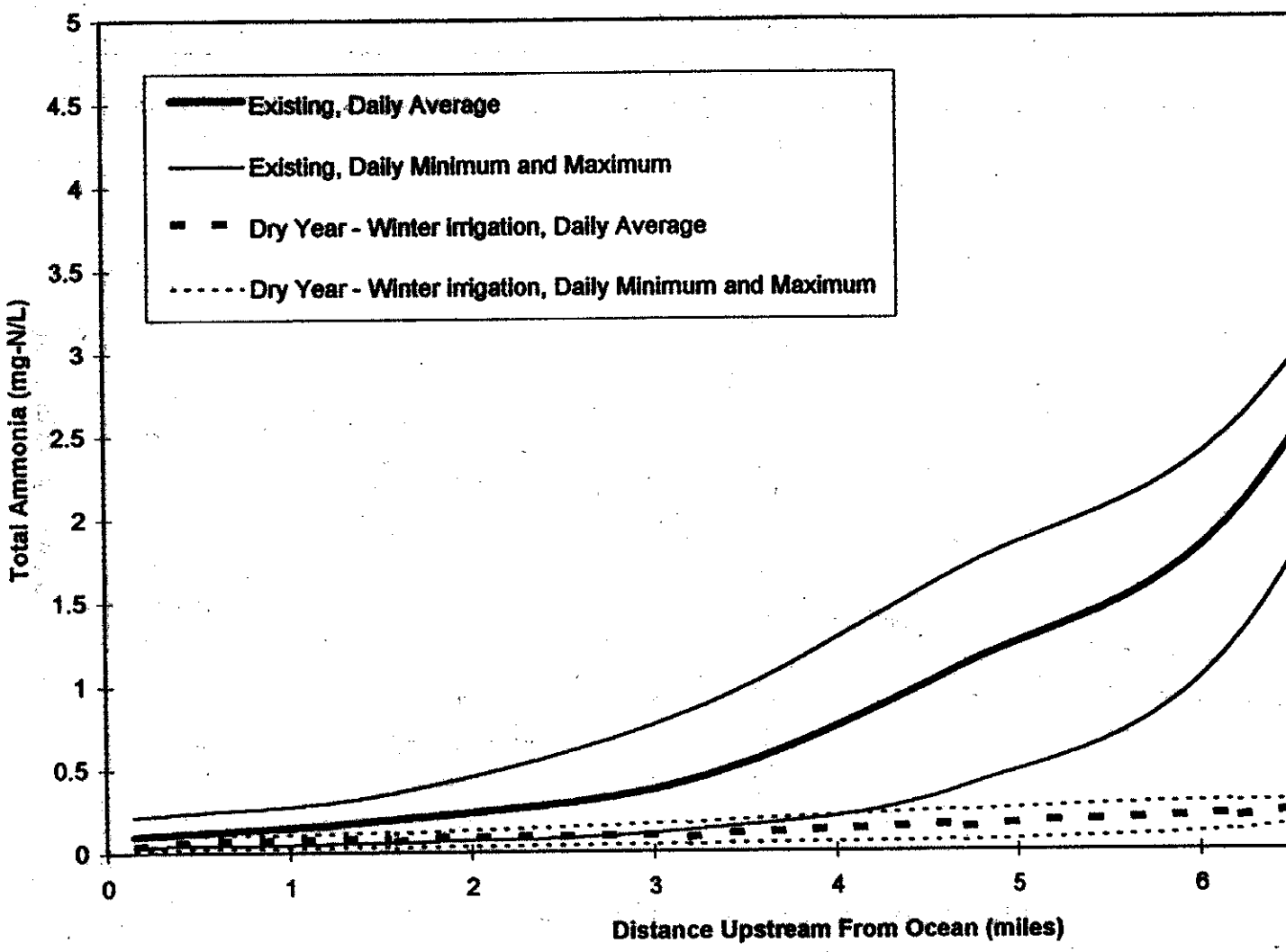
Spring Inflow and Bar-Open Conditions



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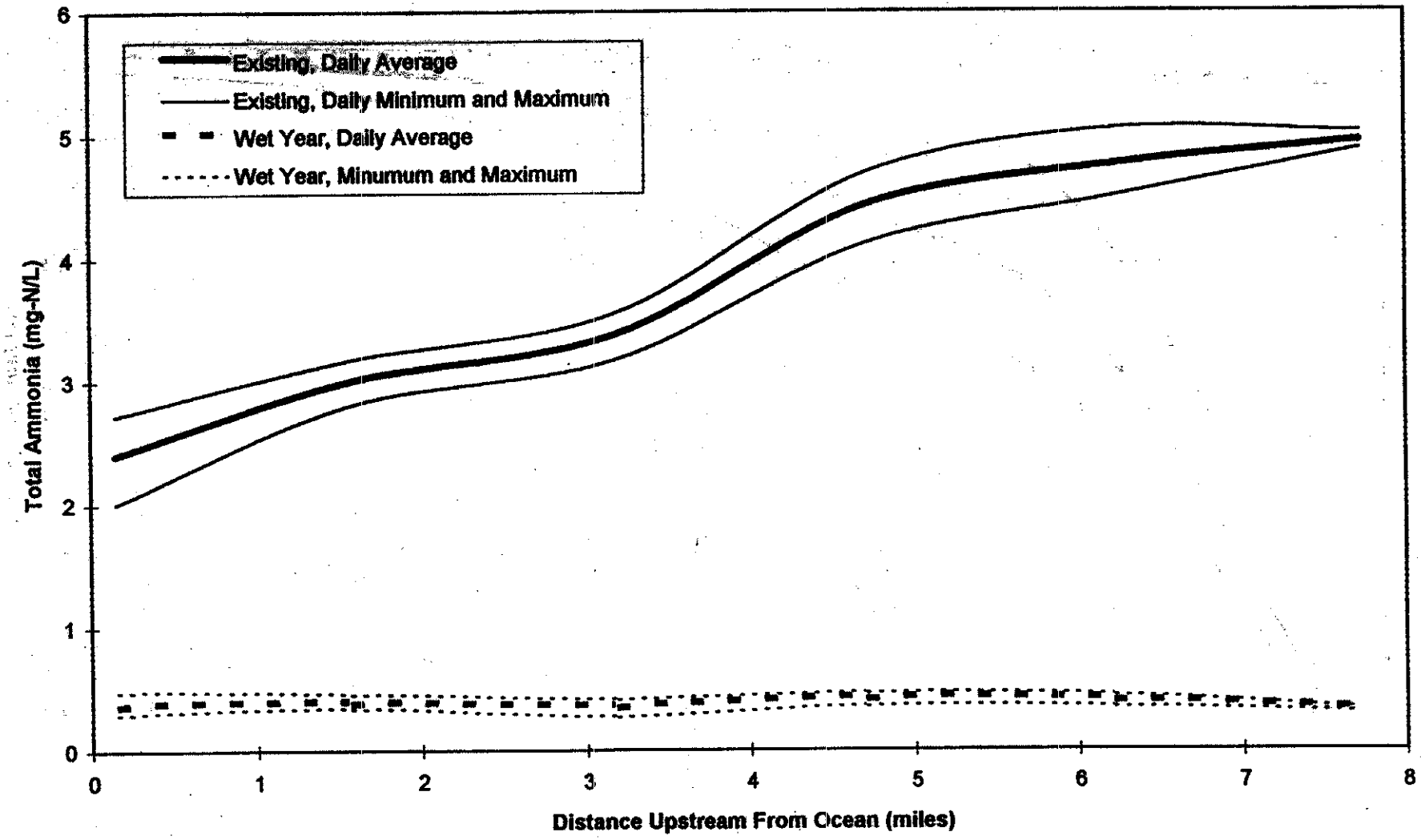

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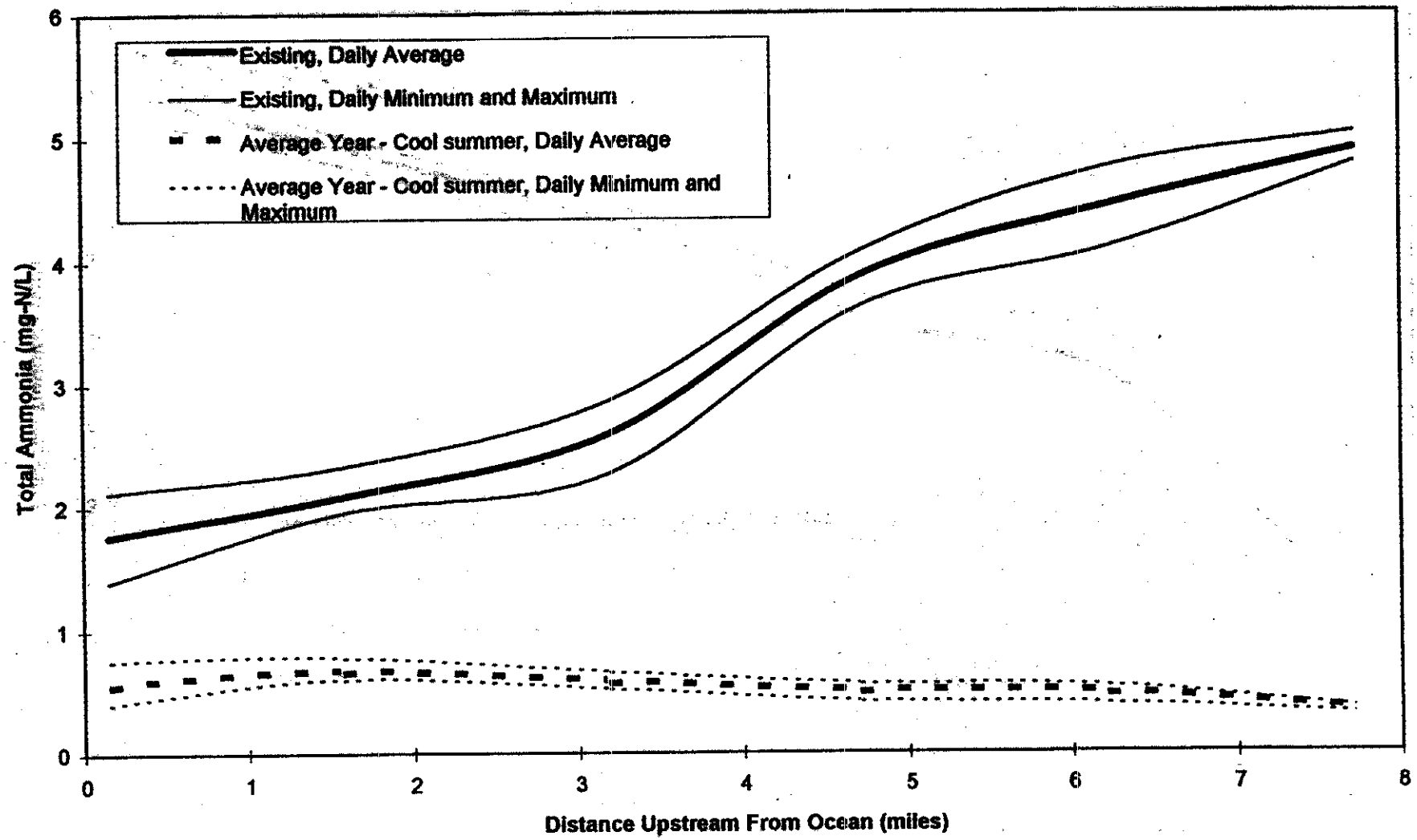

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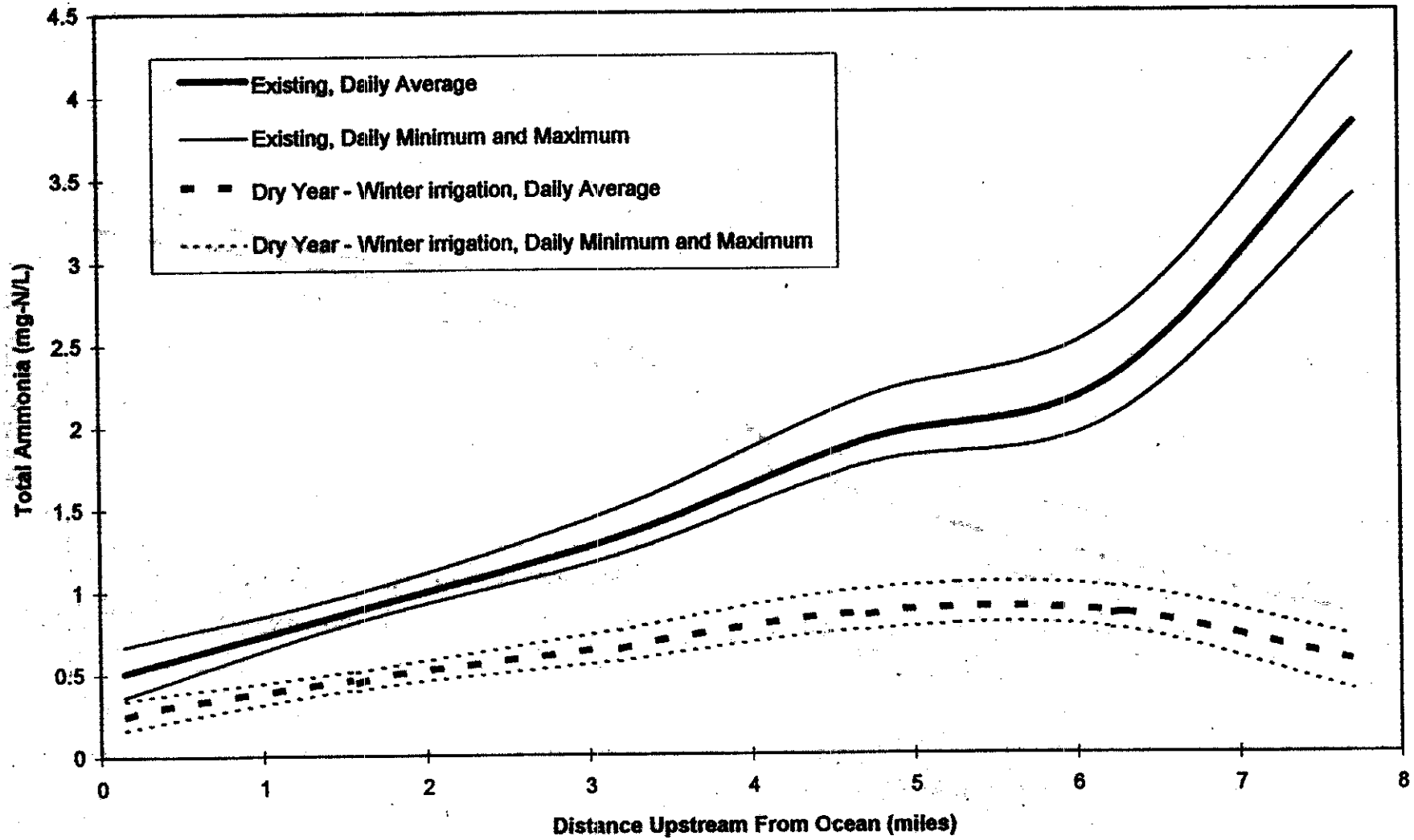

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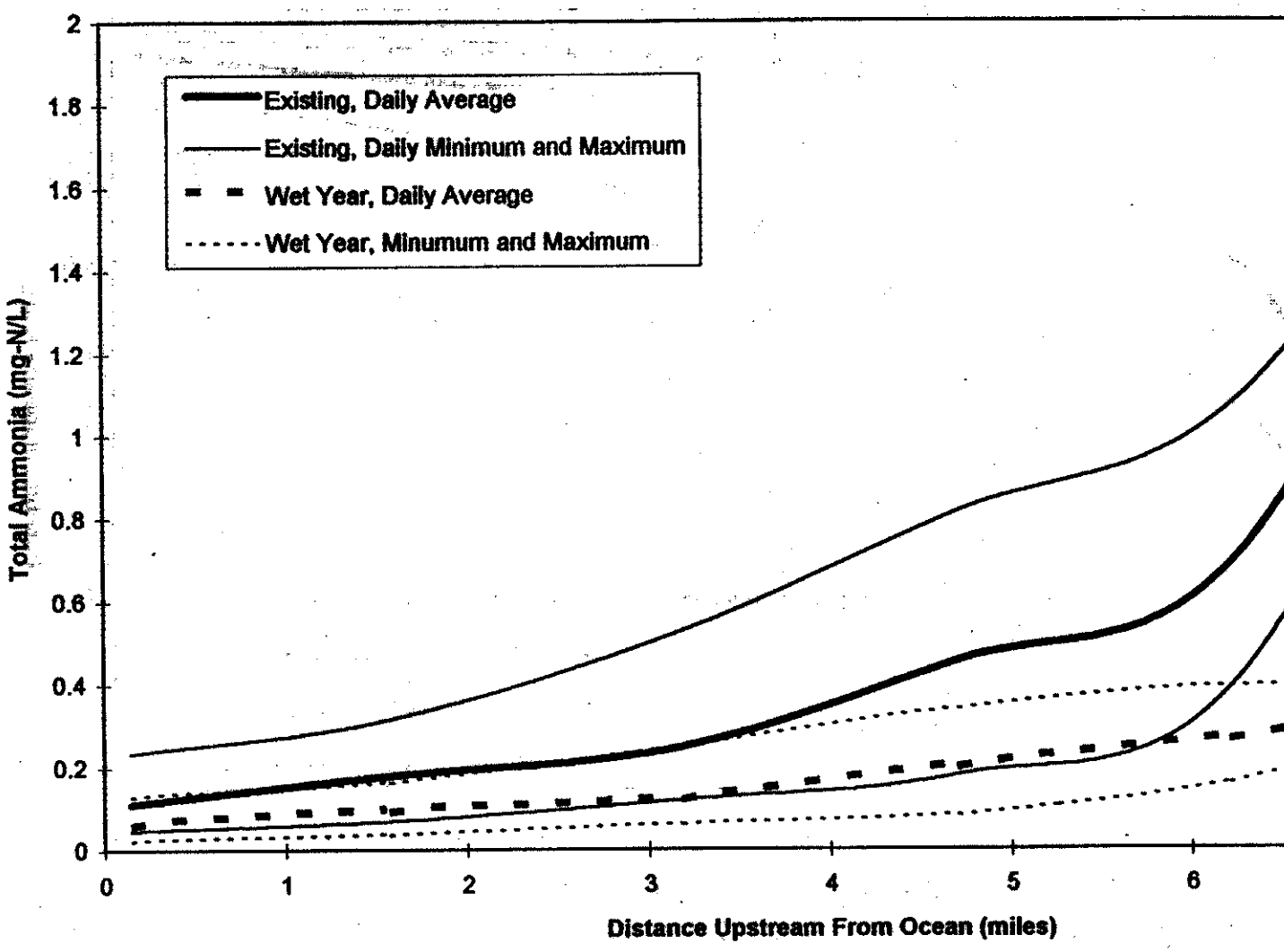
Summer Inflow and Bar-Open Conditions



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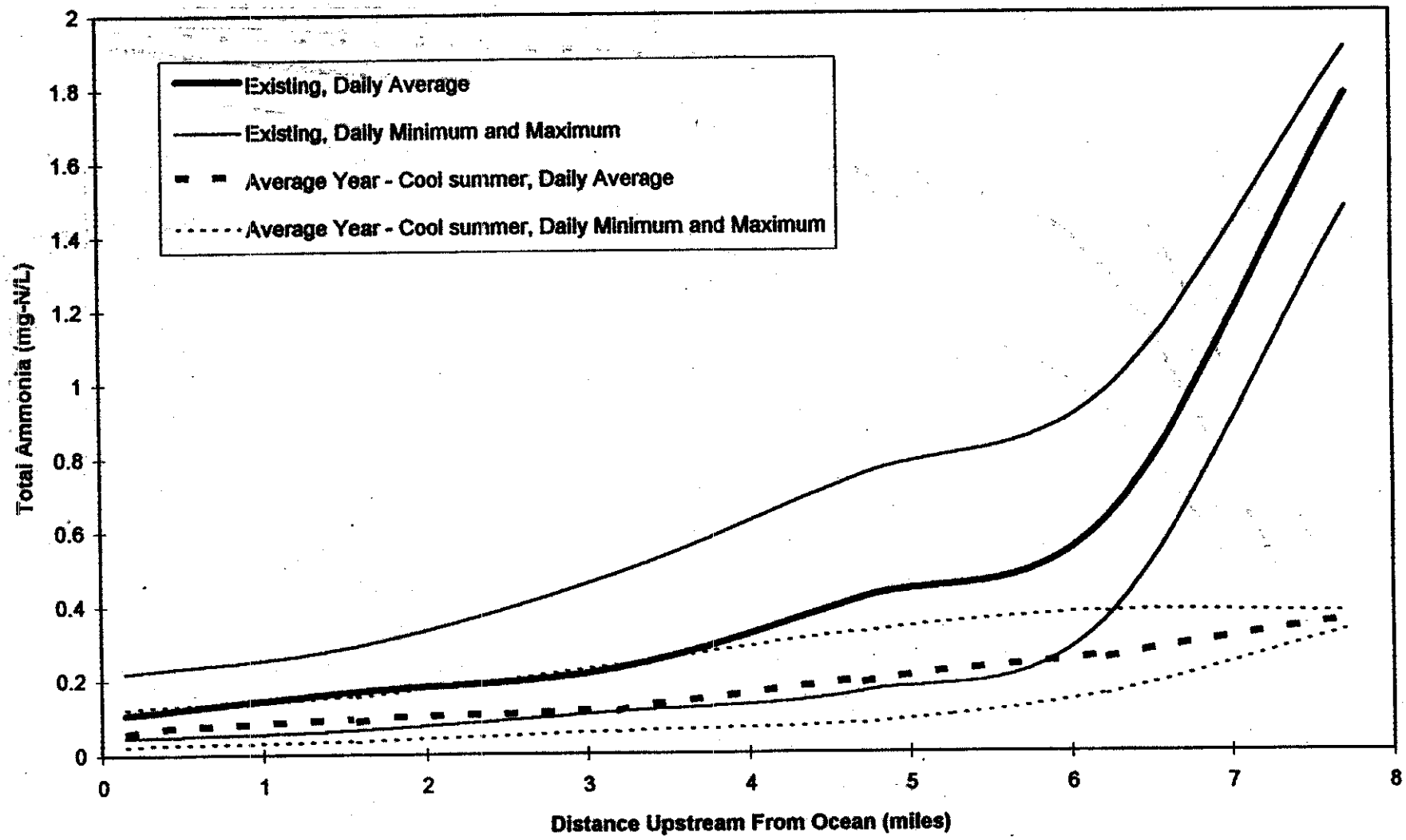

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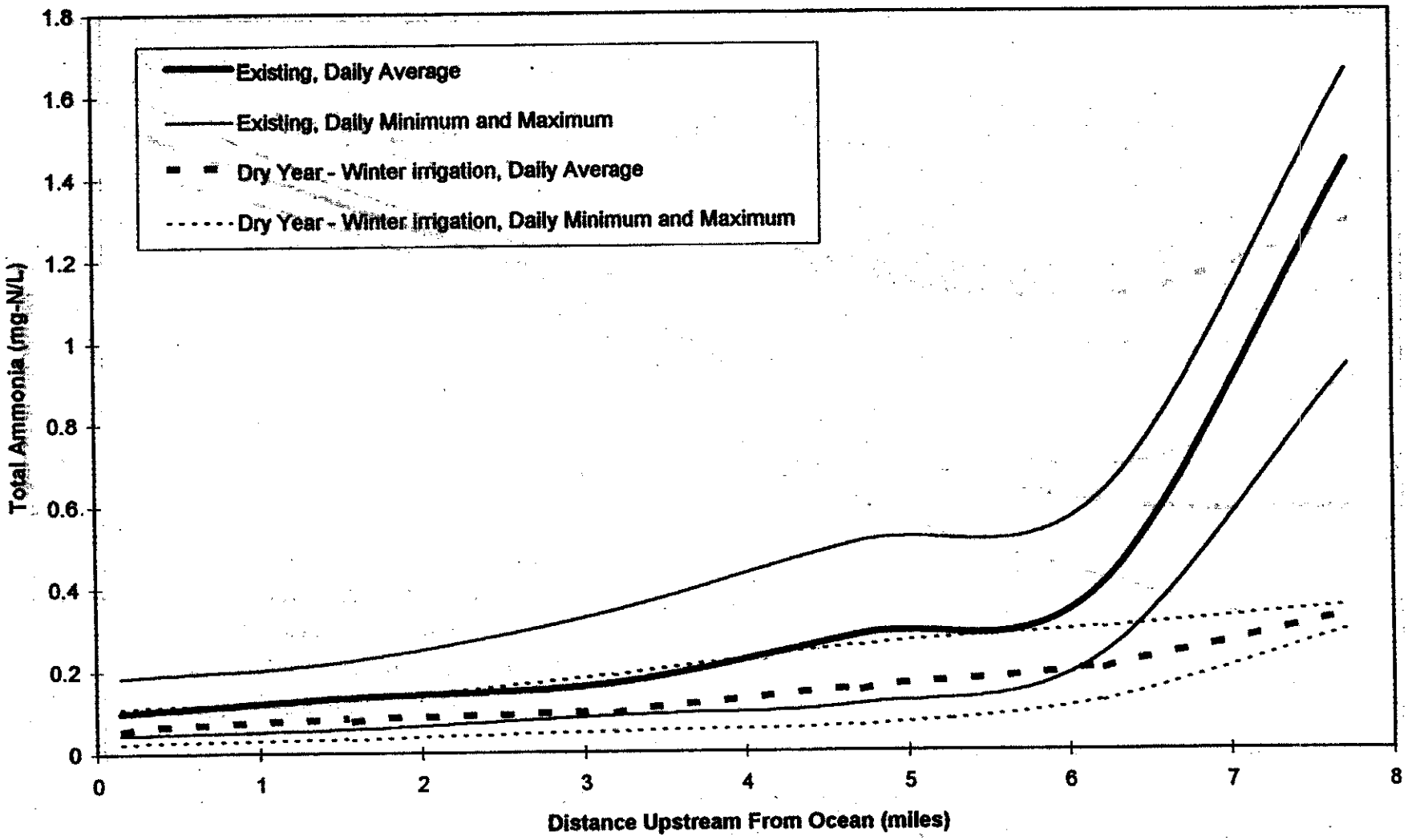

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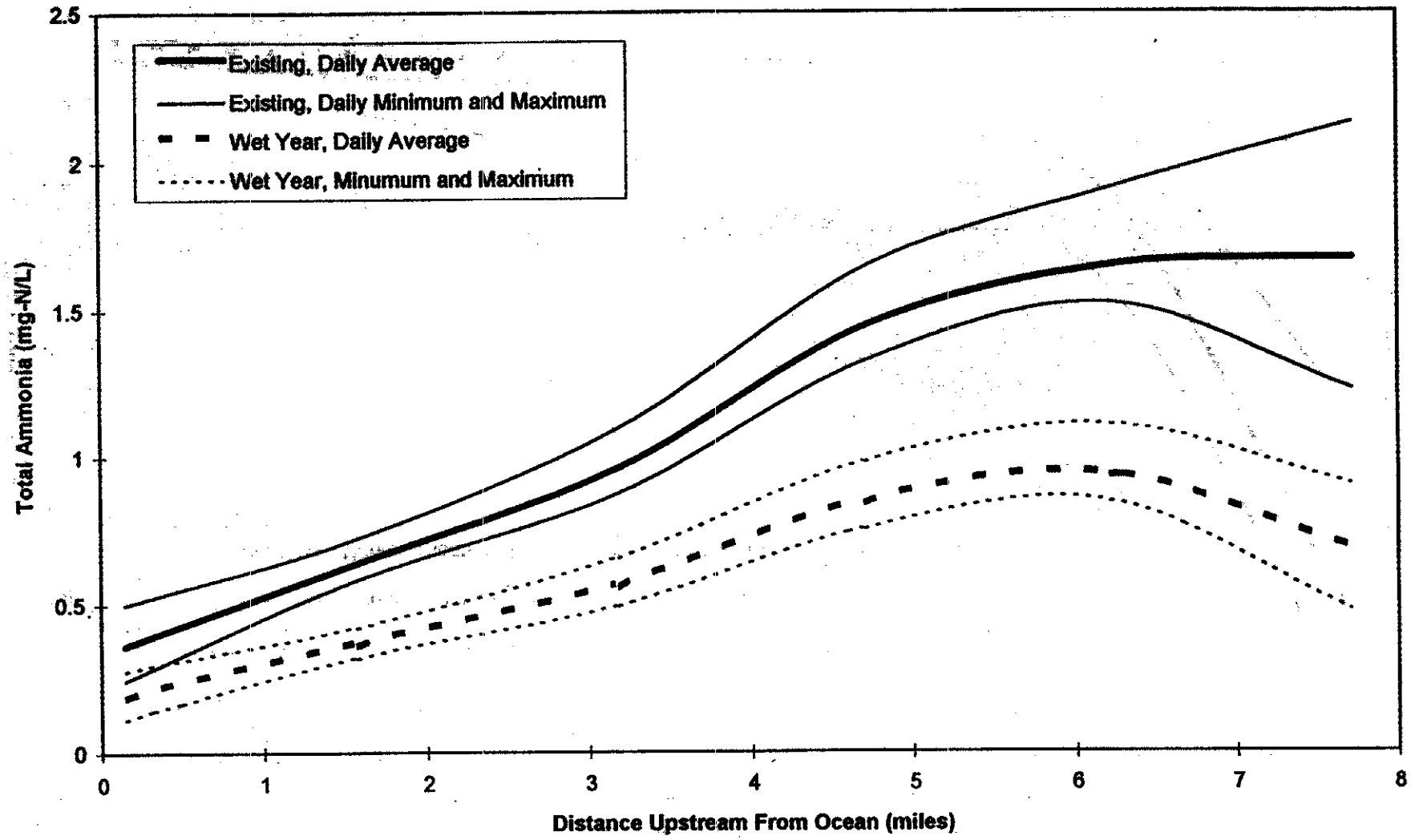

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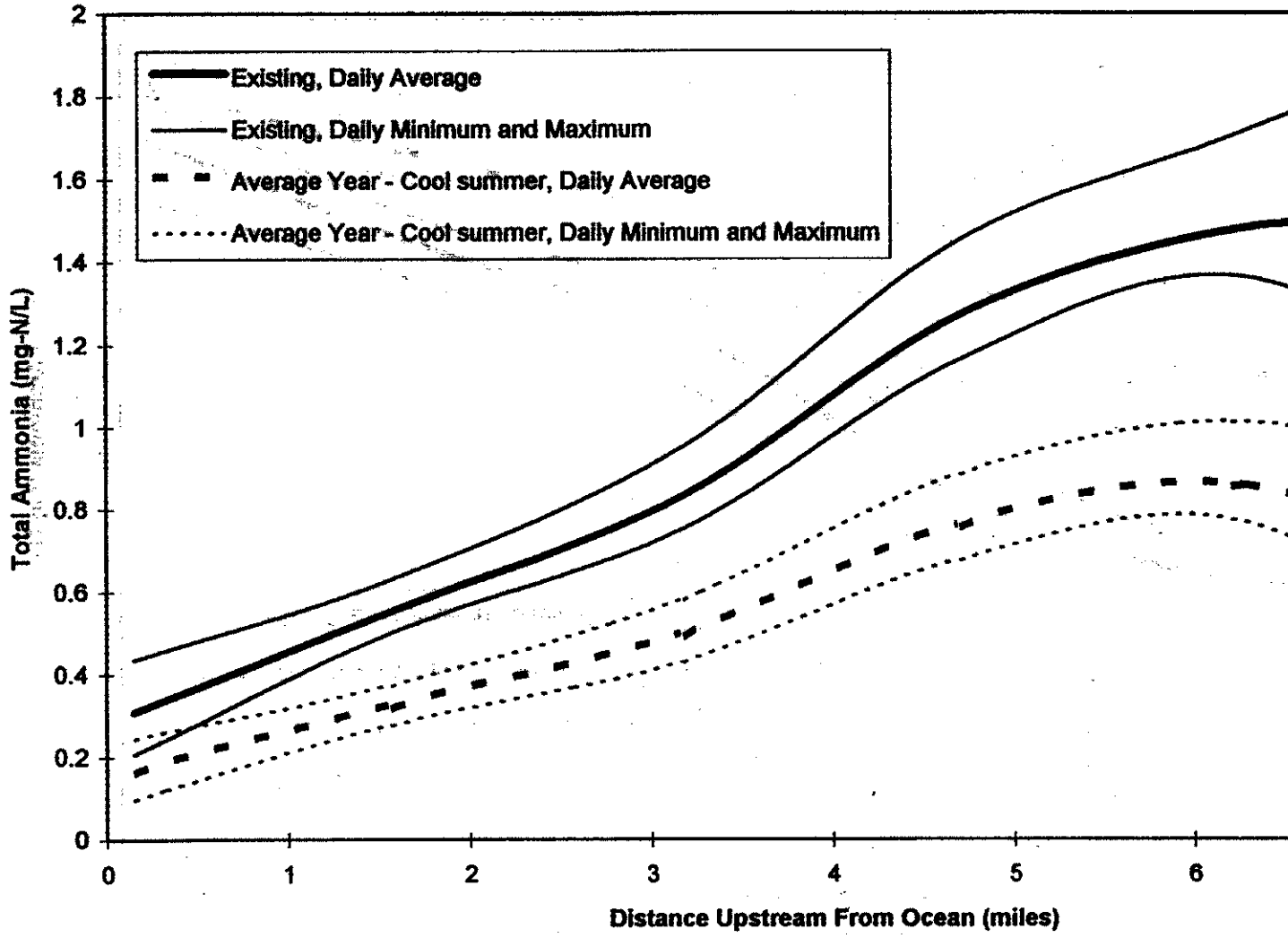
Summer Inflow and Bar-Closed Conditions



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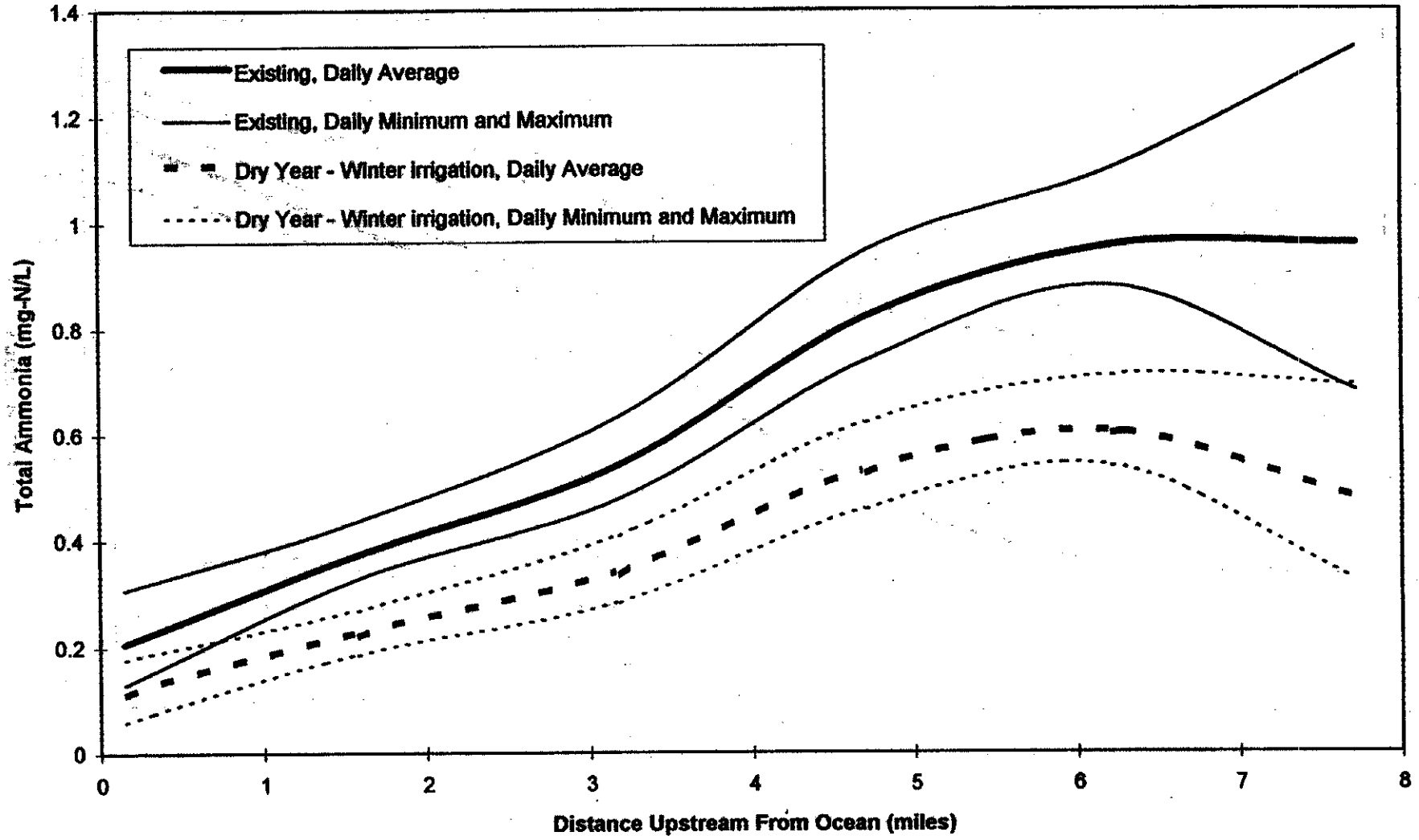


Figure 6-3.1. Irrigation and Storage Impacts on Planktonic Algae In Estero Ame
Spring Inflow and Bar-Open Conditions

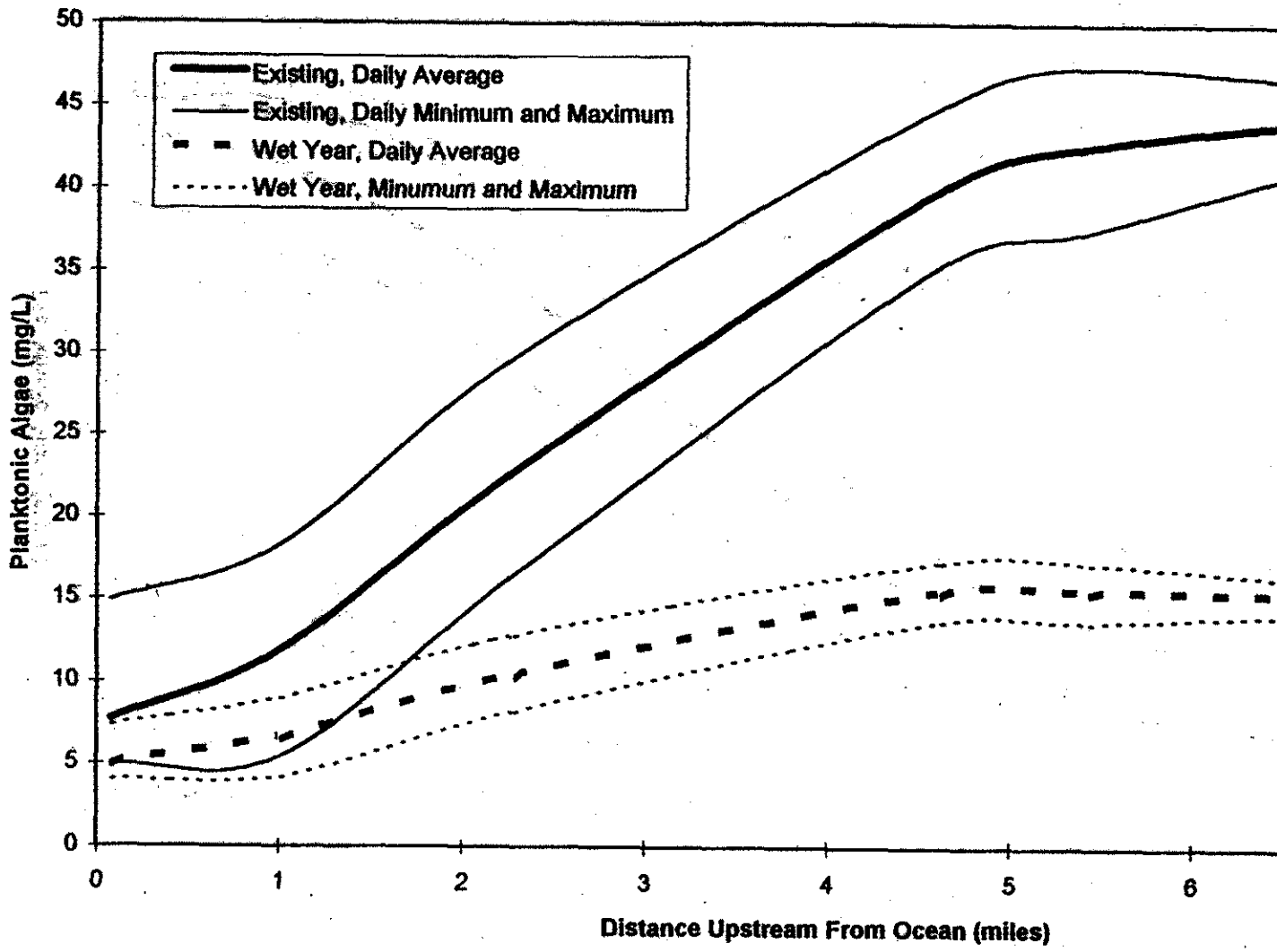
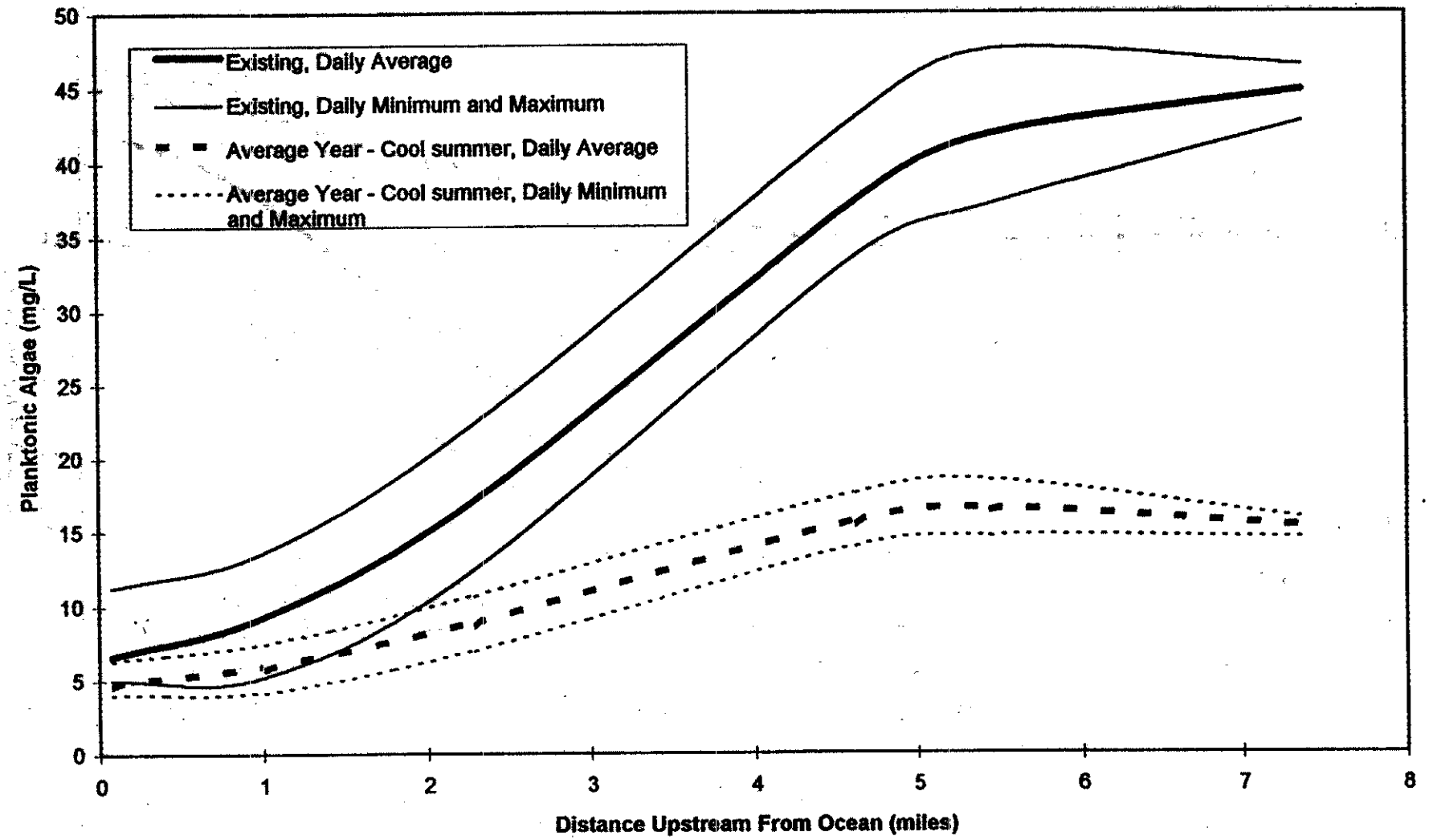


Figure 6-3.2. Irrigation and Storage Impacts on Planktonic Algae in Estero Americano Spring Inflow and Bar-Open Conditions



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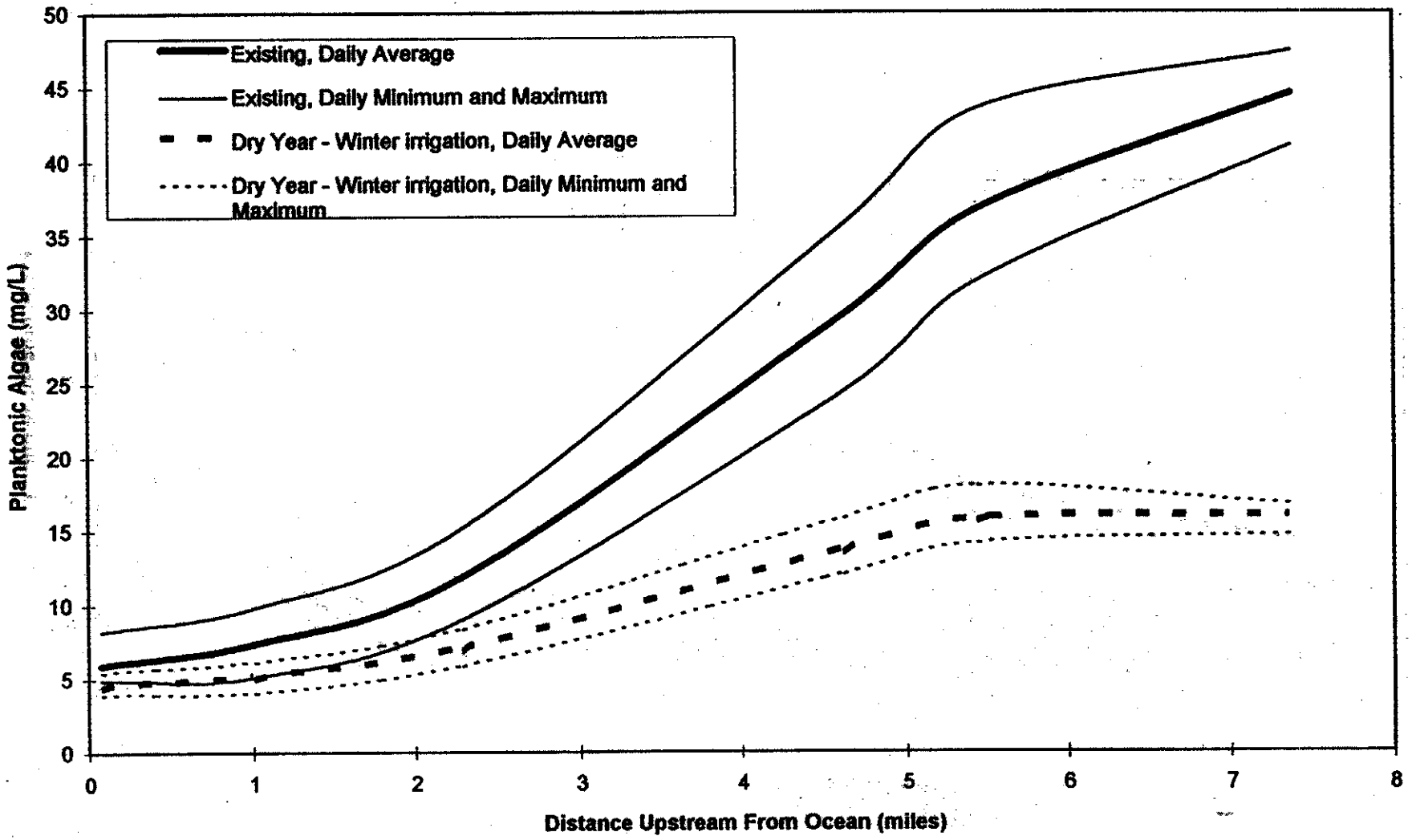

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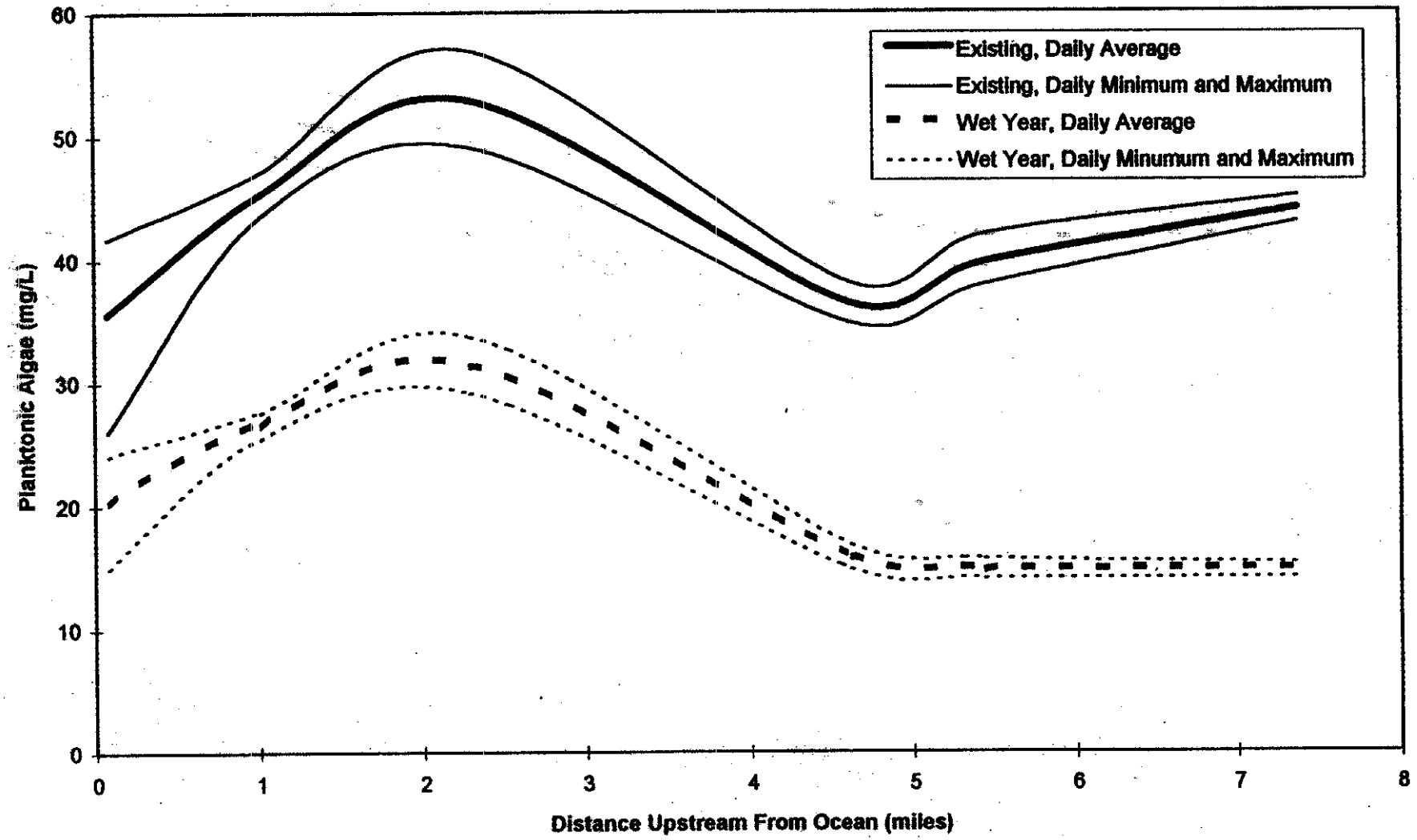
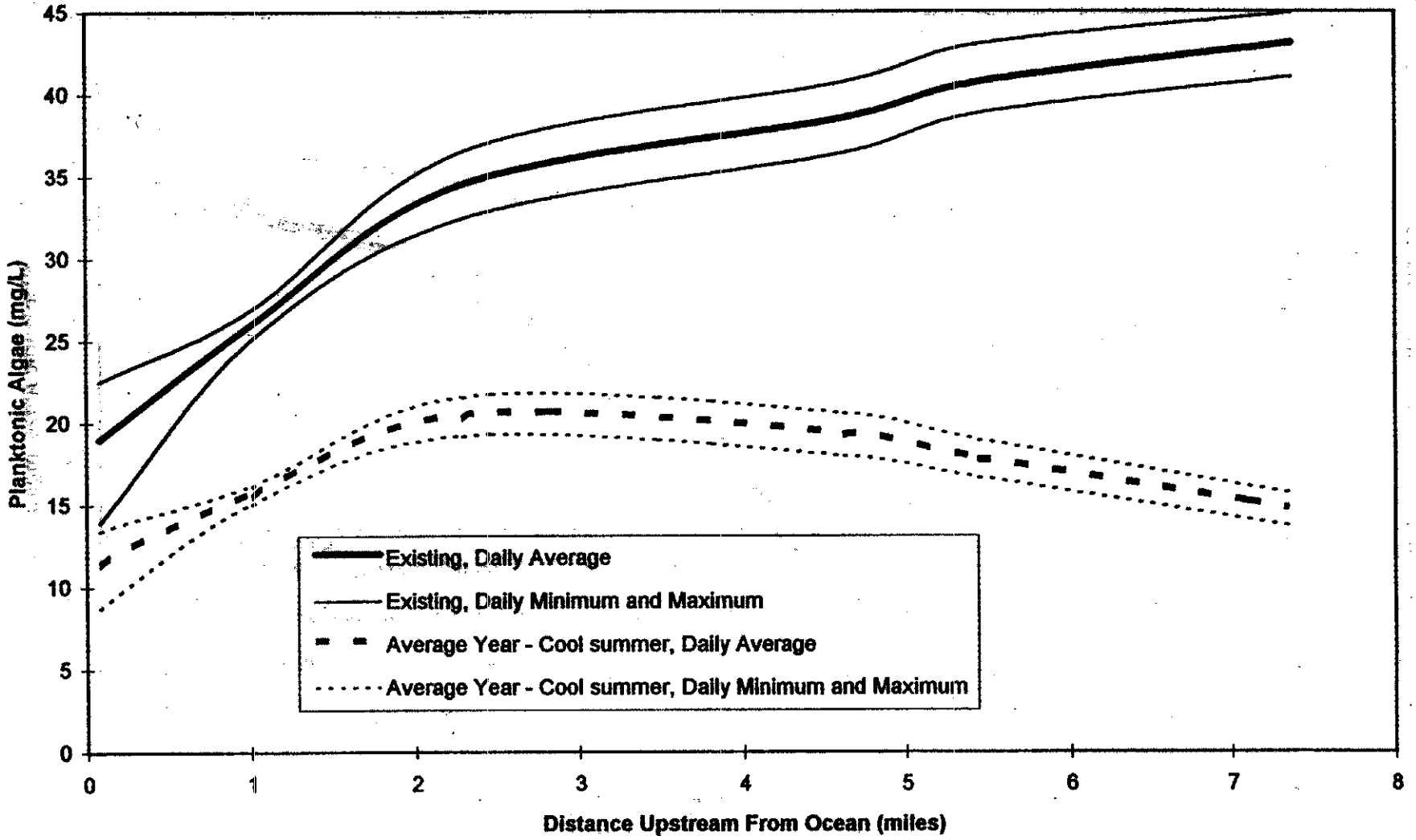


Figure 6-3.5. Irrigation and Storage Impacts on Planktonic Algae In Estero Americano Spring Inflow and Bar-Closed Conditions



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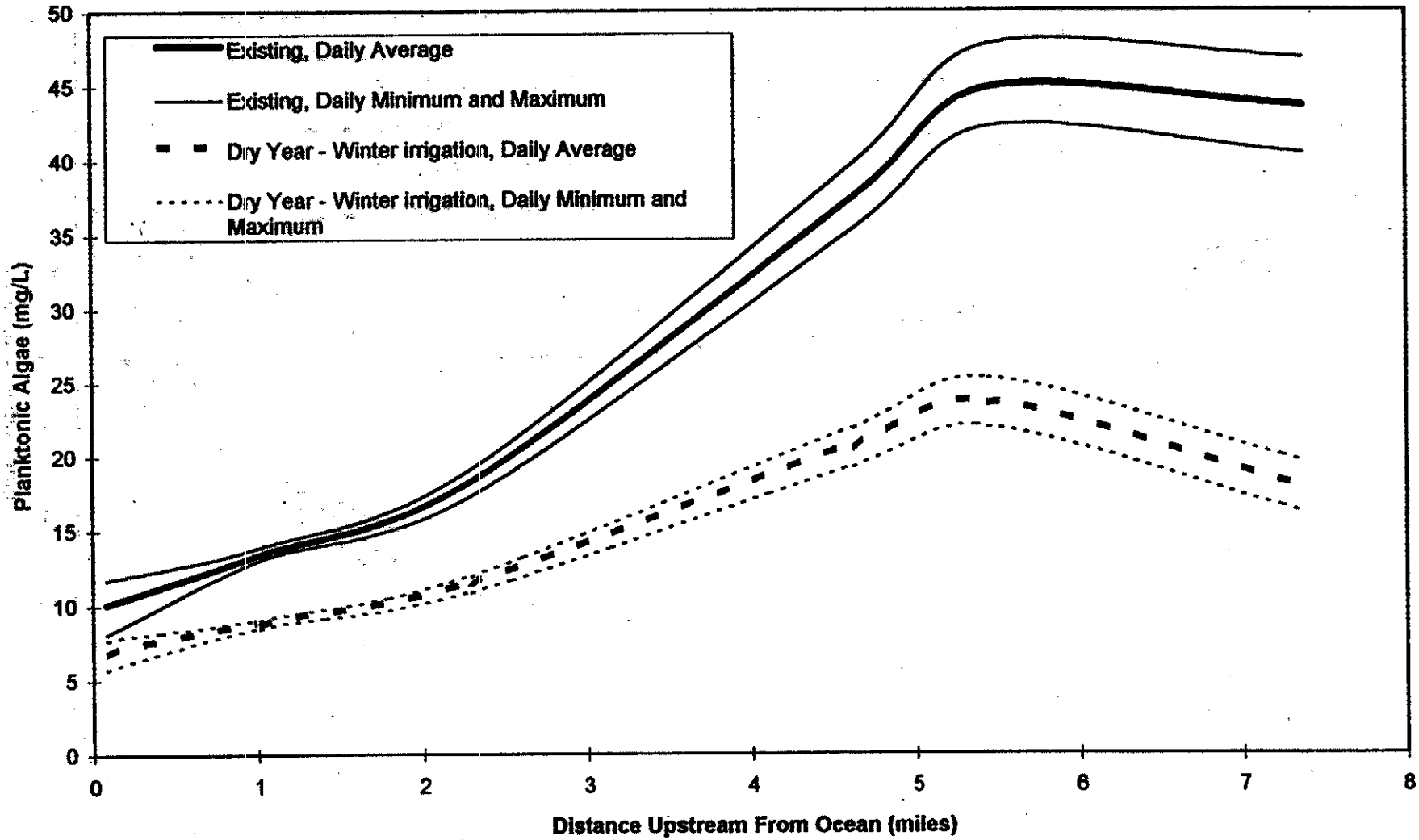


Figure 6-3.7. Irrigation and Storage Impacts on Planktonic Algae In Estero Americano Summer Inflow and Bar-Open Conditions

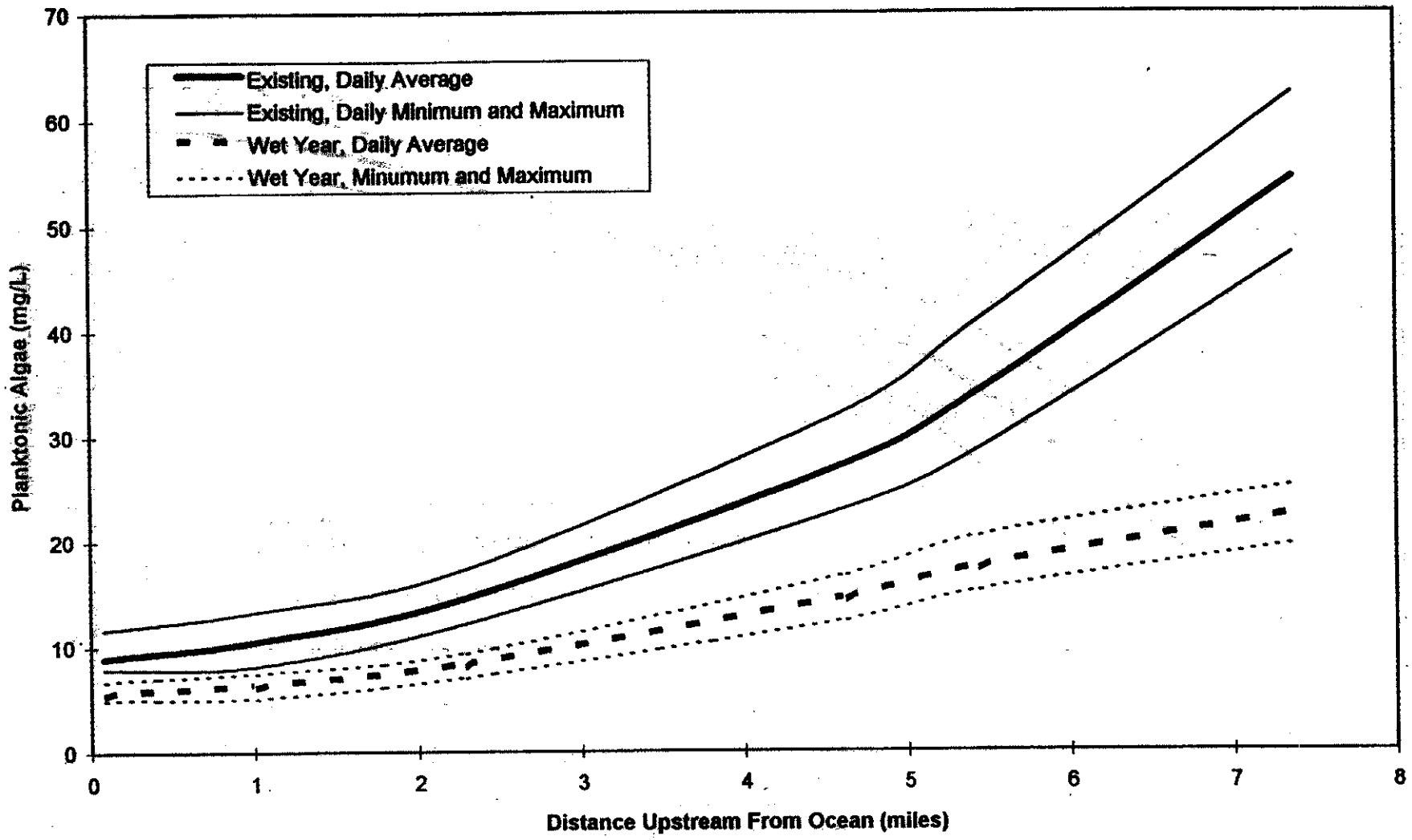
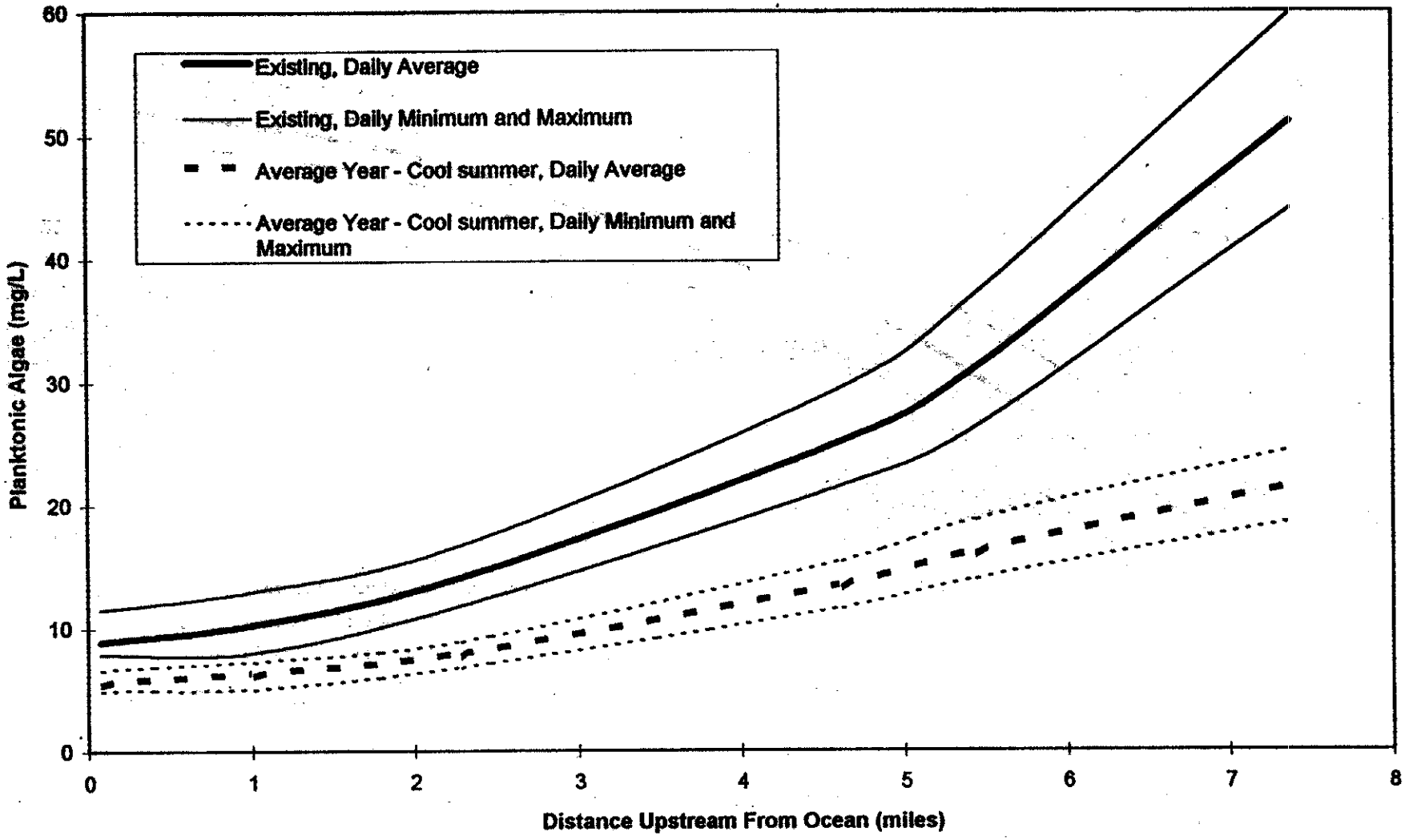


Figure 6-3.8. Irrigation and Storage Impacts on Planktonic Algae in Estero Americano Summer Inflow and Bar-Open Conditions



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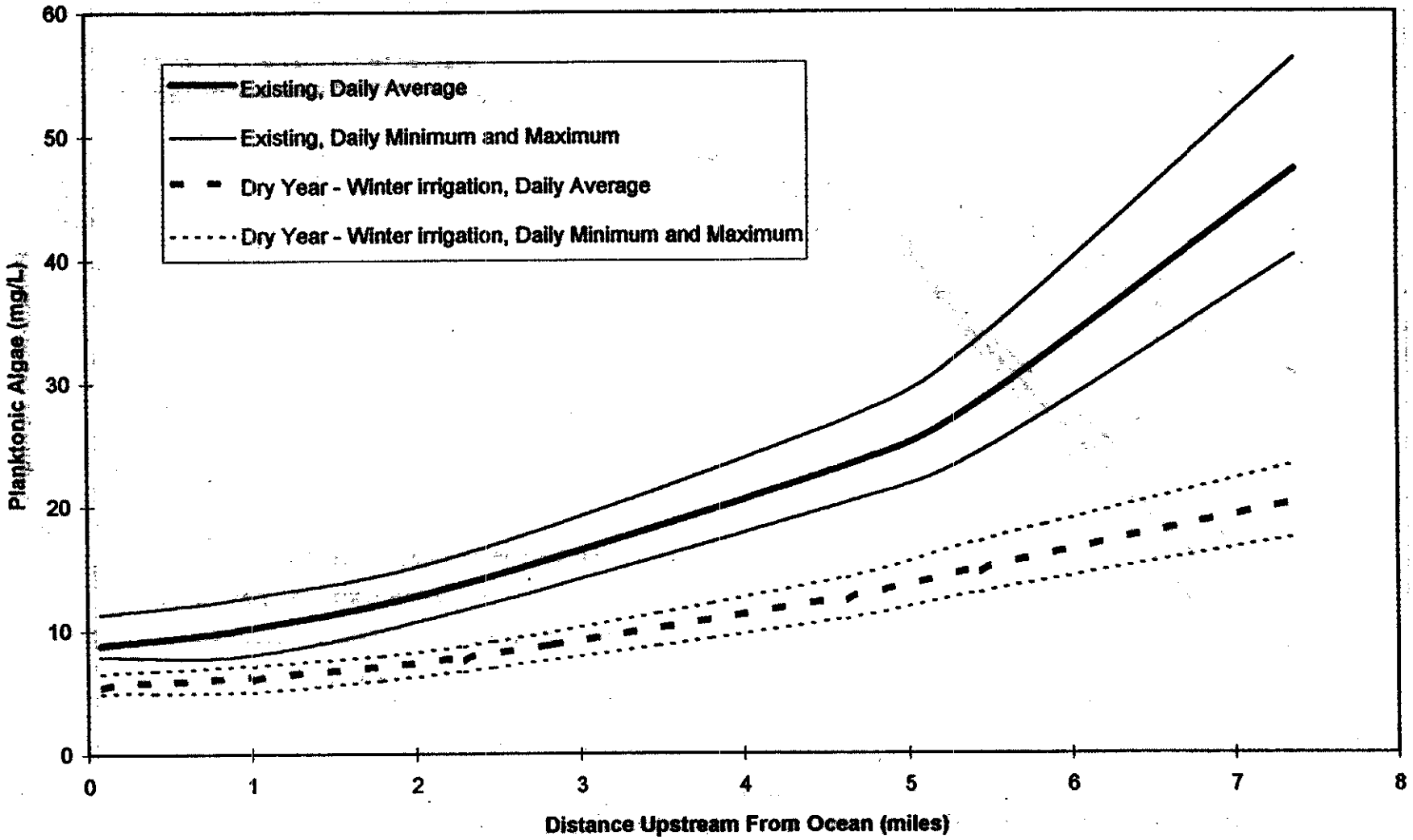


Figure 6-3.10. Irrigation and Storage Impacts on Planktonic Algae In Estero Am
Summer Inflow and Bar-Closed Conditions

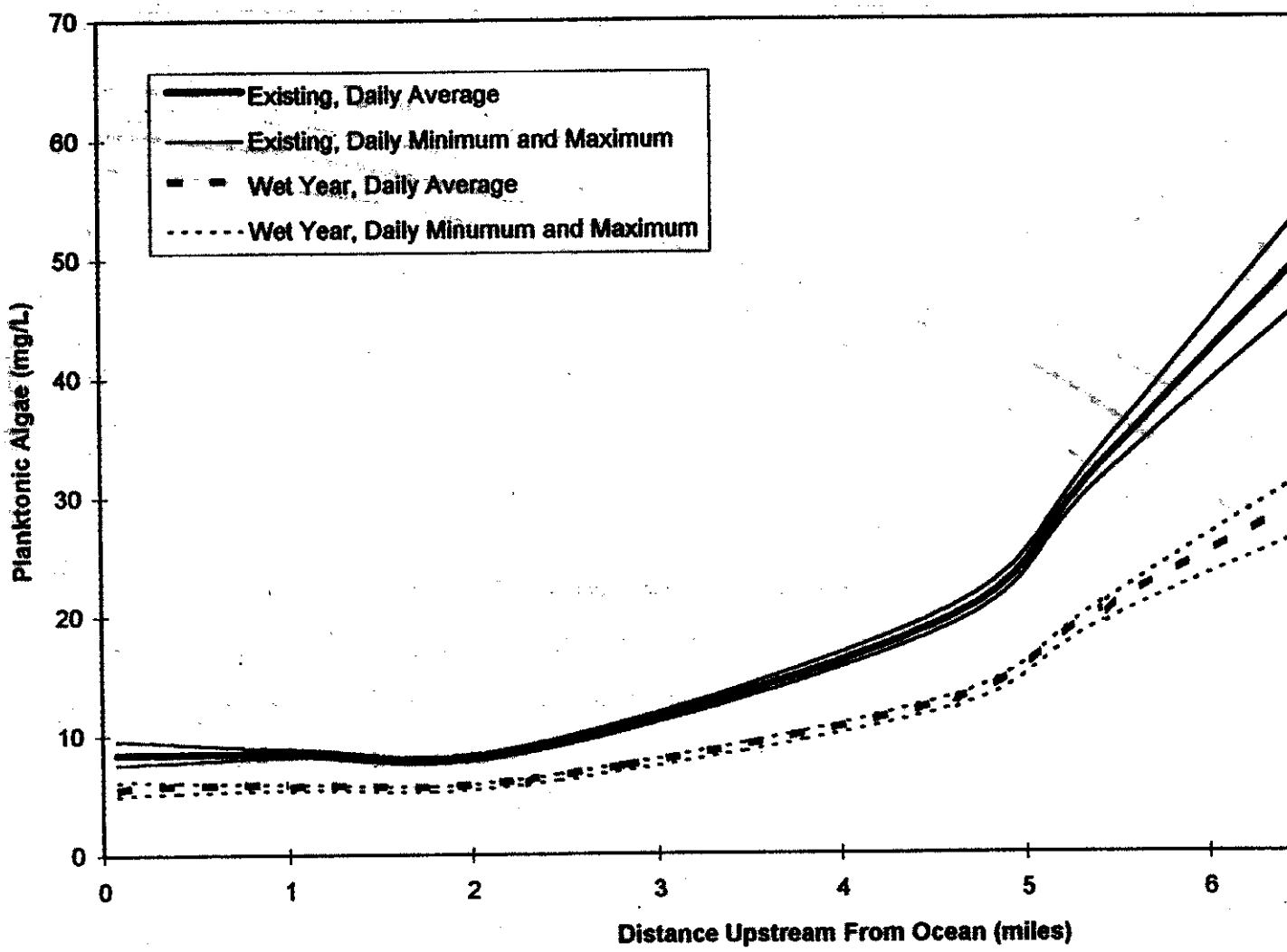


Figure 6-3.11. Irrigation and Storage Impacts on Planktonic Algae in Estero Americano Summer Inflow and Bar-Closed Conditions

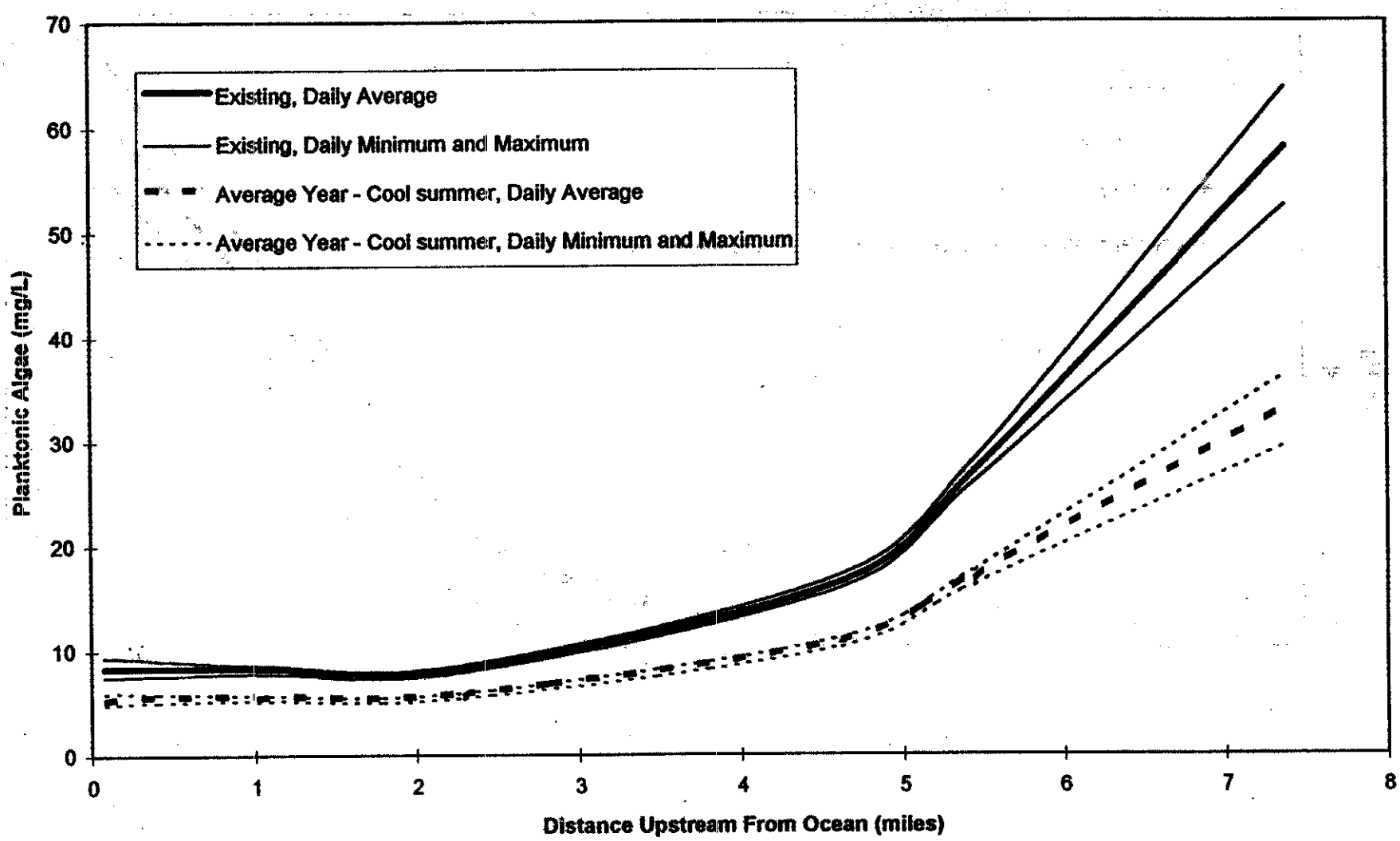


Figure 6-3.12. Irrigation and Storage Impacts on Planktonic Algae In Estero Americano Summer Inflow and Bar-Closed Conditions

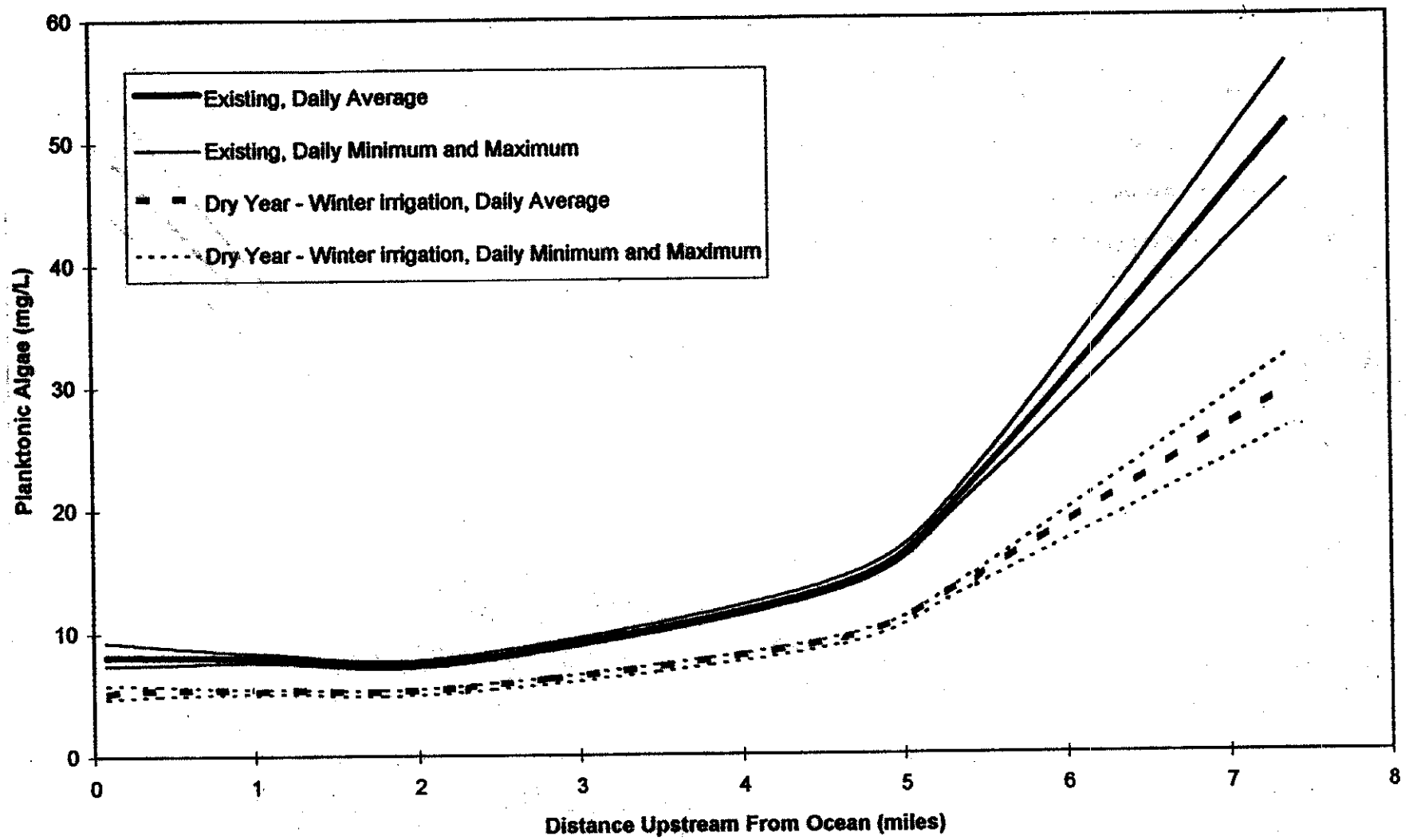
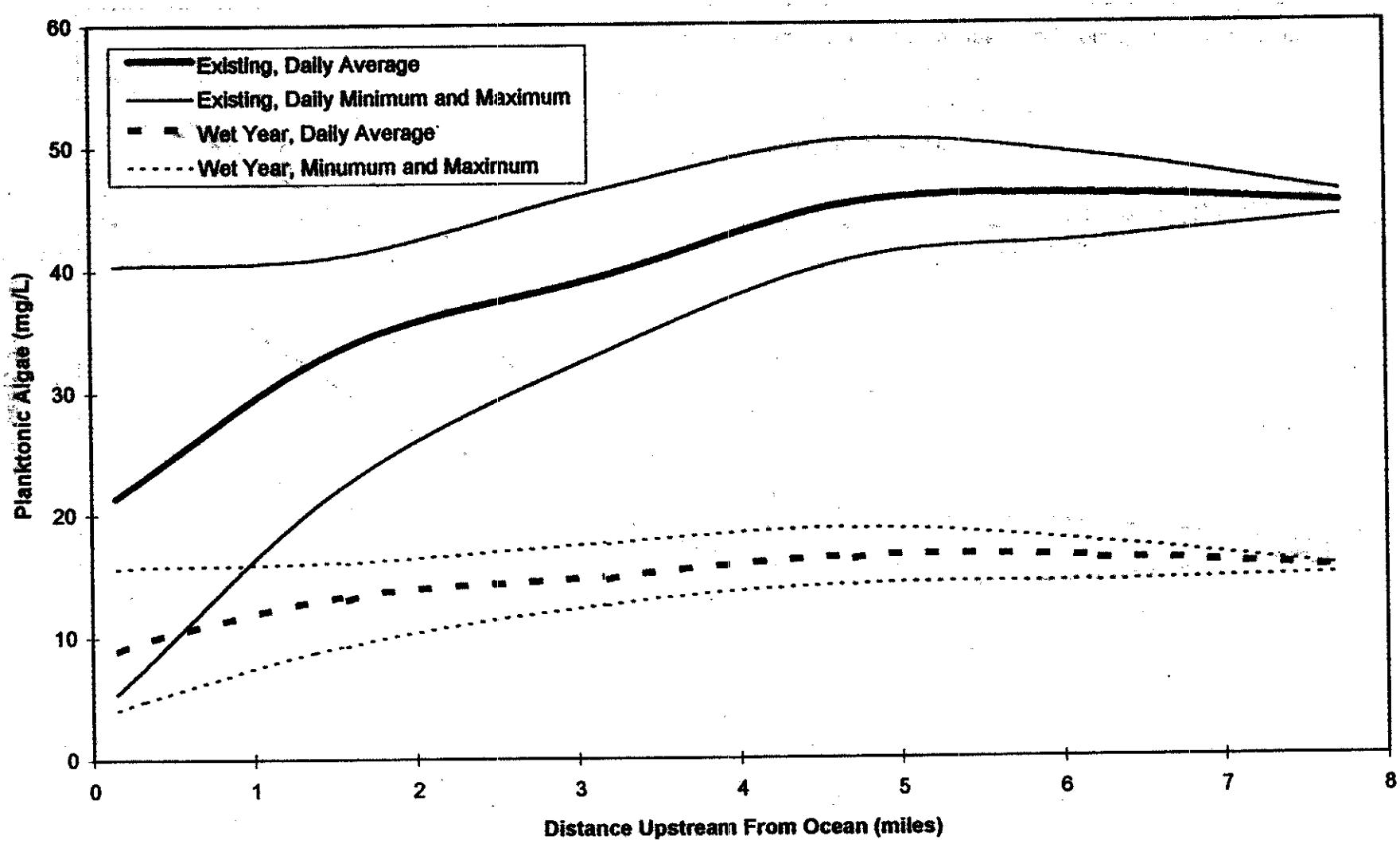


Figure 6-3.13. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Spring Inflow and Bar-Open Conditions



-3.14. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Spring Inflow and Bar-Open Conditions

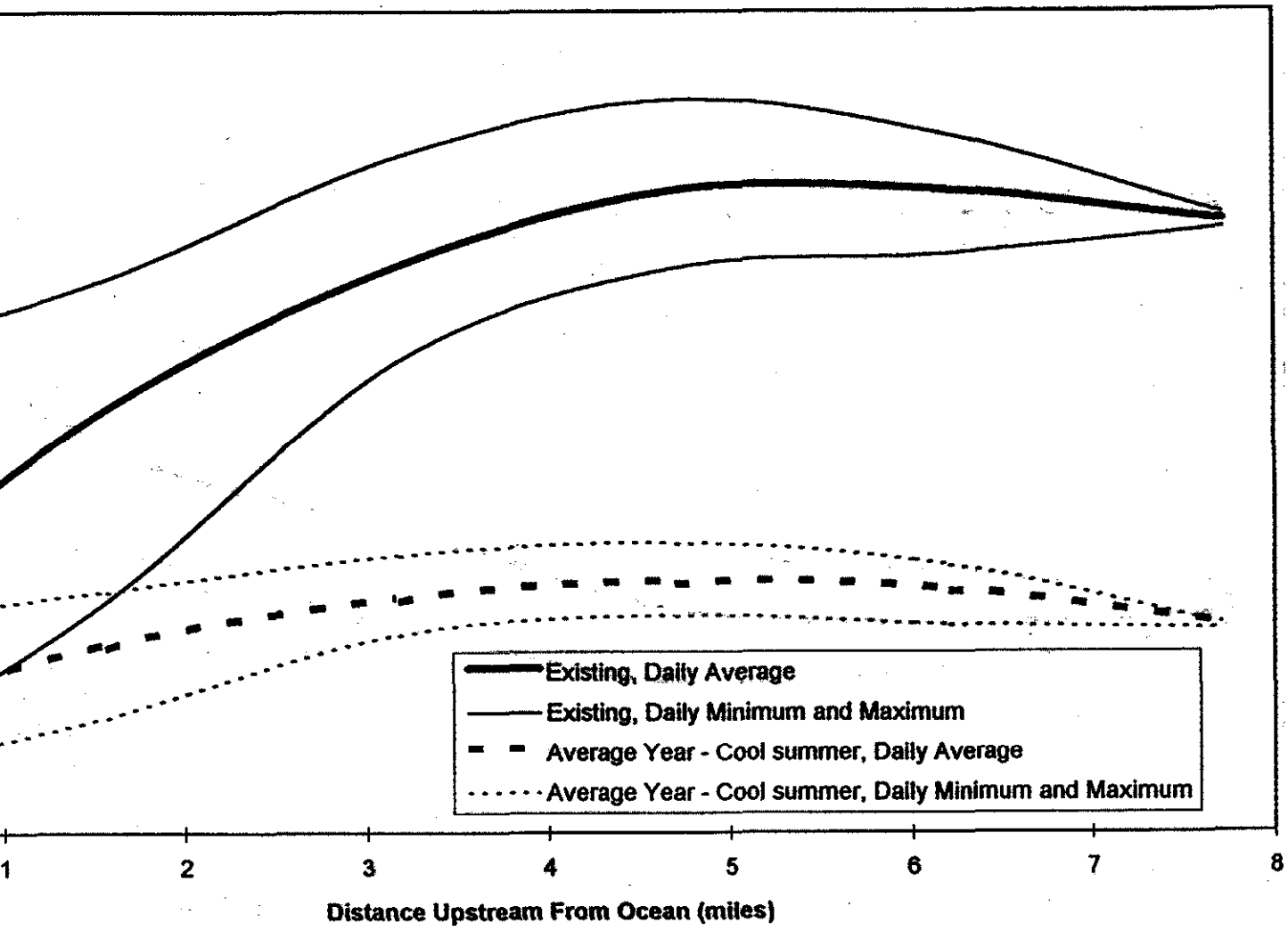


Figure 6-3.15. Irrigation and Storage Impacts on Planktonic Algae In Estero de San A
Spring Inflow and Bar-Open Conditions

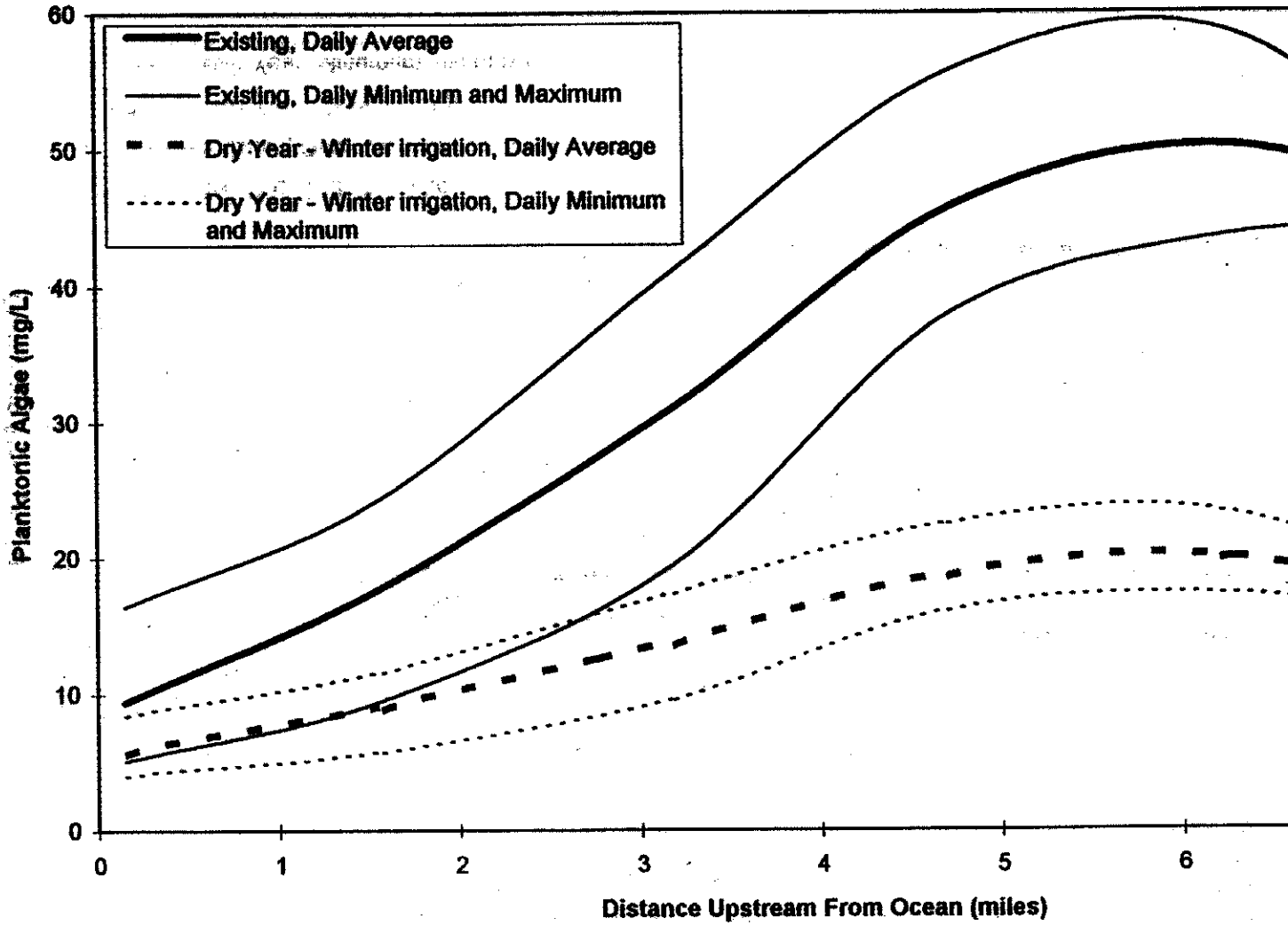


Figure 6-3.16. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Spring Inflow and Bar-Closed Conditions

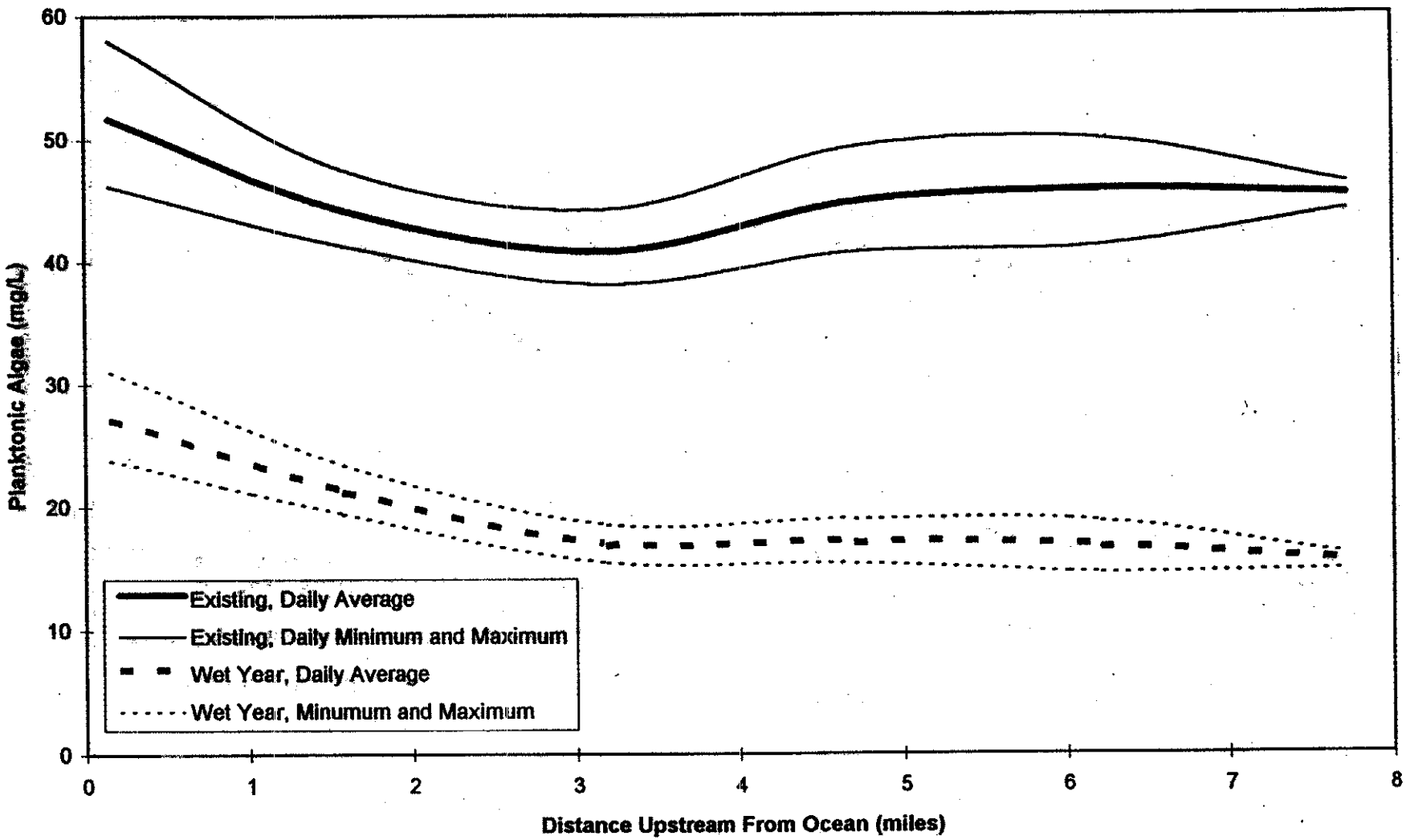


Figure 6-3.17. Irrigation and Storage Impacts on Planktonic Algae in Estero de San Antonio Spring Inflow and Bar-Closed Conditions

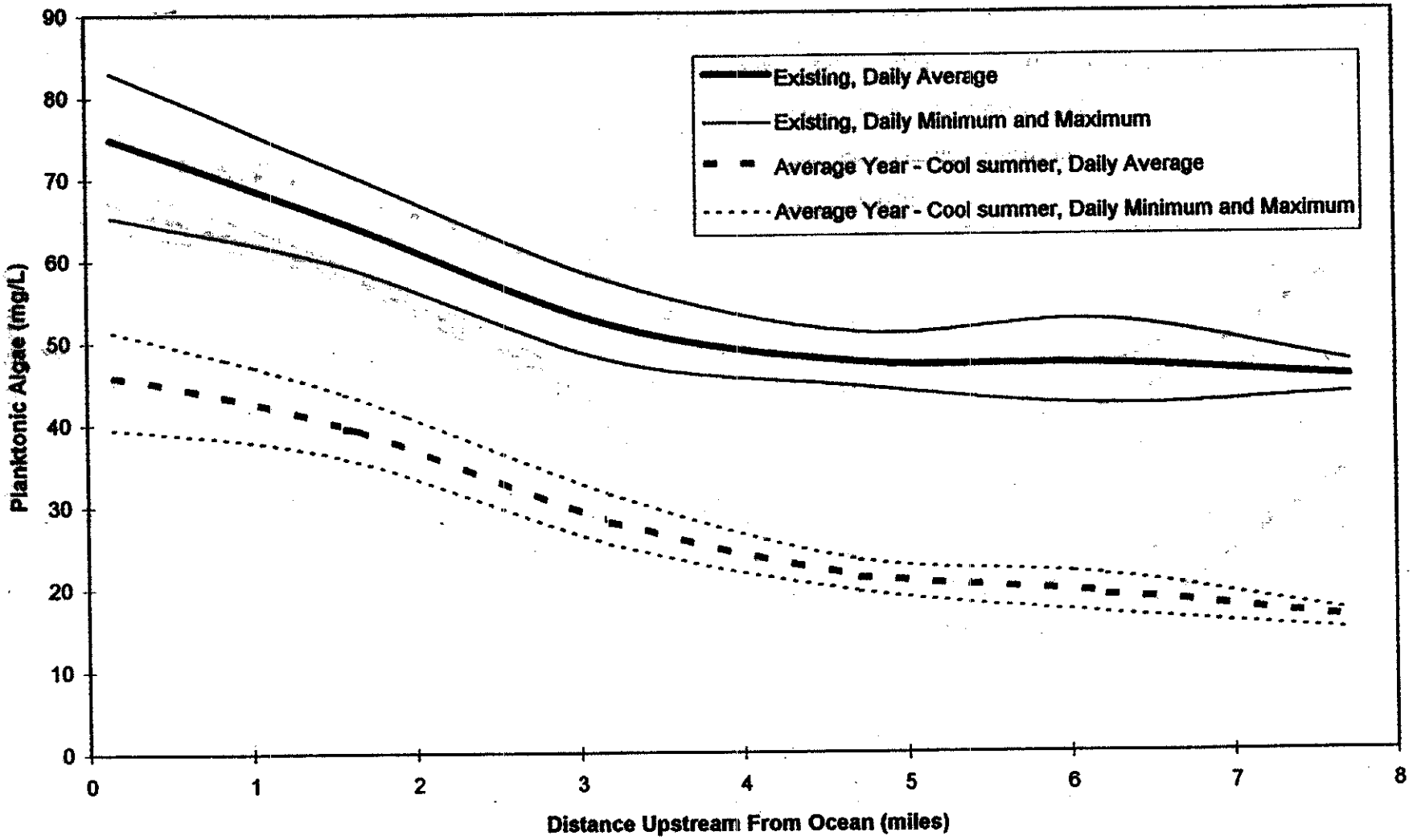


Figure 6-3.18. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Spring Inflow and Bar-Closed Conditions

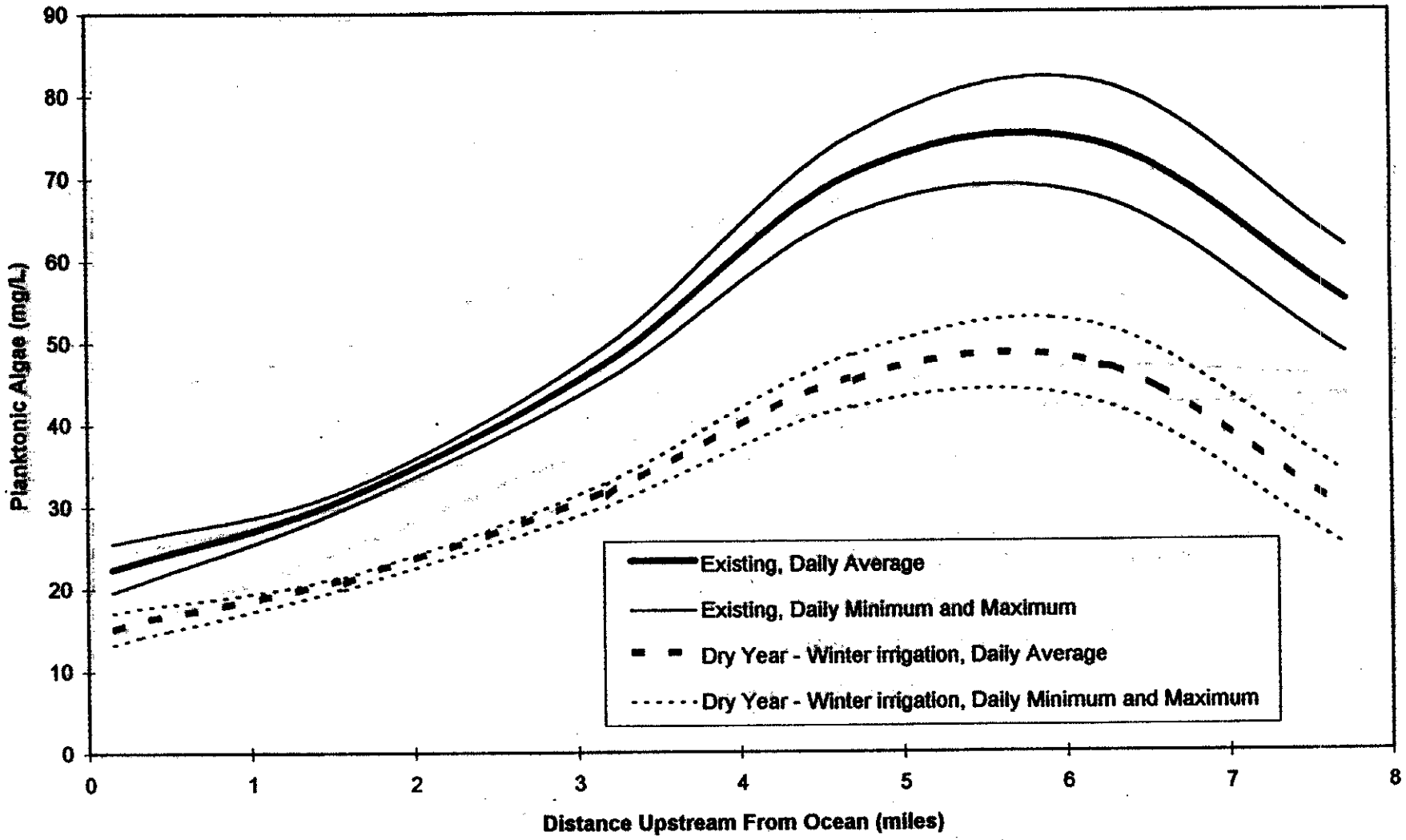


Figure 6-3.19. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Summer Inflow and Bar-Open Conditions

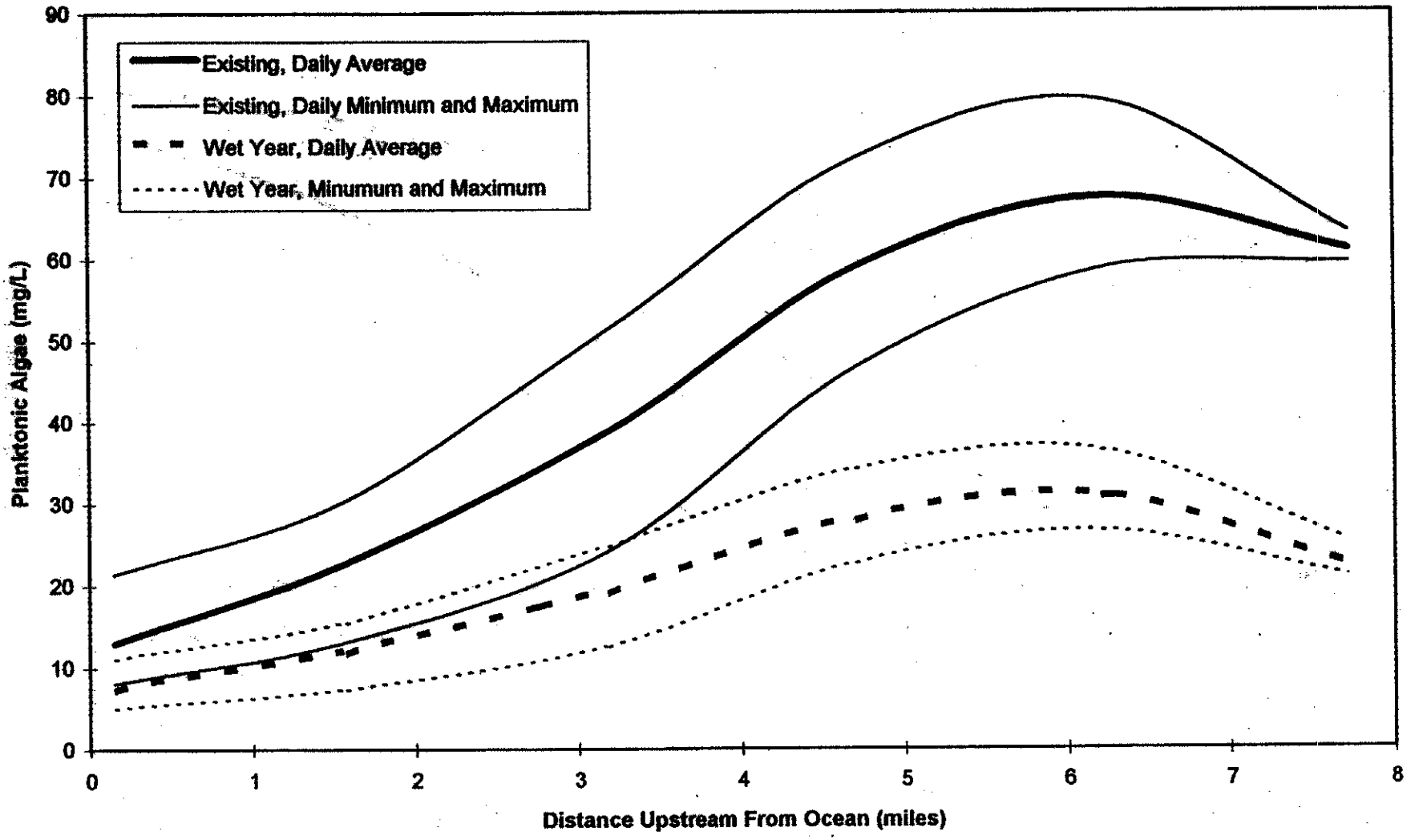


Figure 6-3.20. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Summer Inflow and Bar-Open Conditions

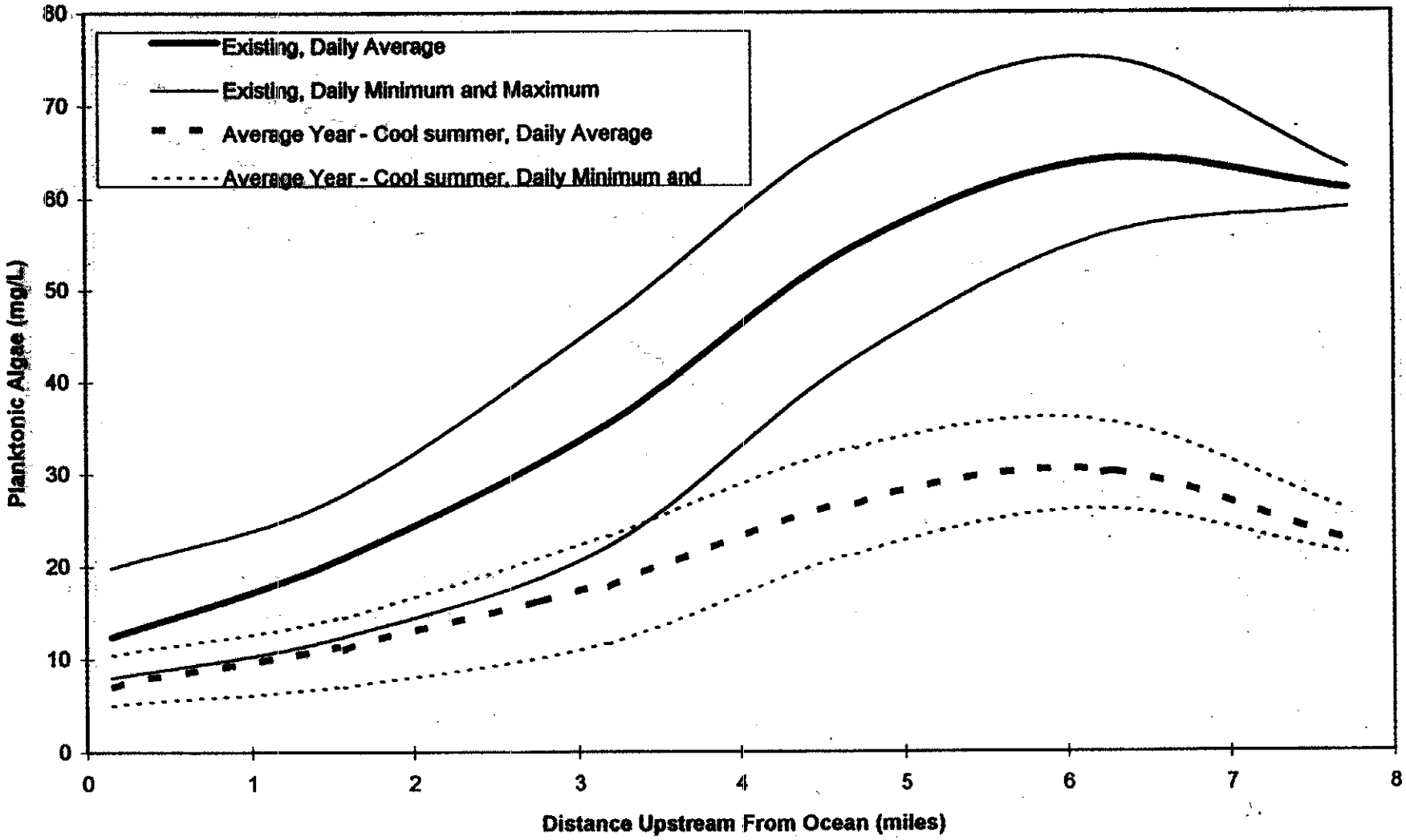


Figure 6-3.21. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Summer Inflow and Bar-Open Conditions

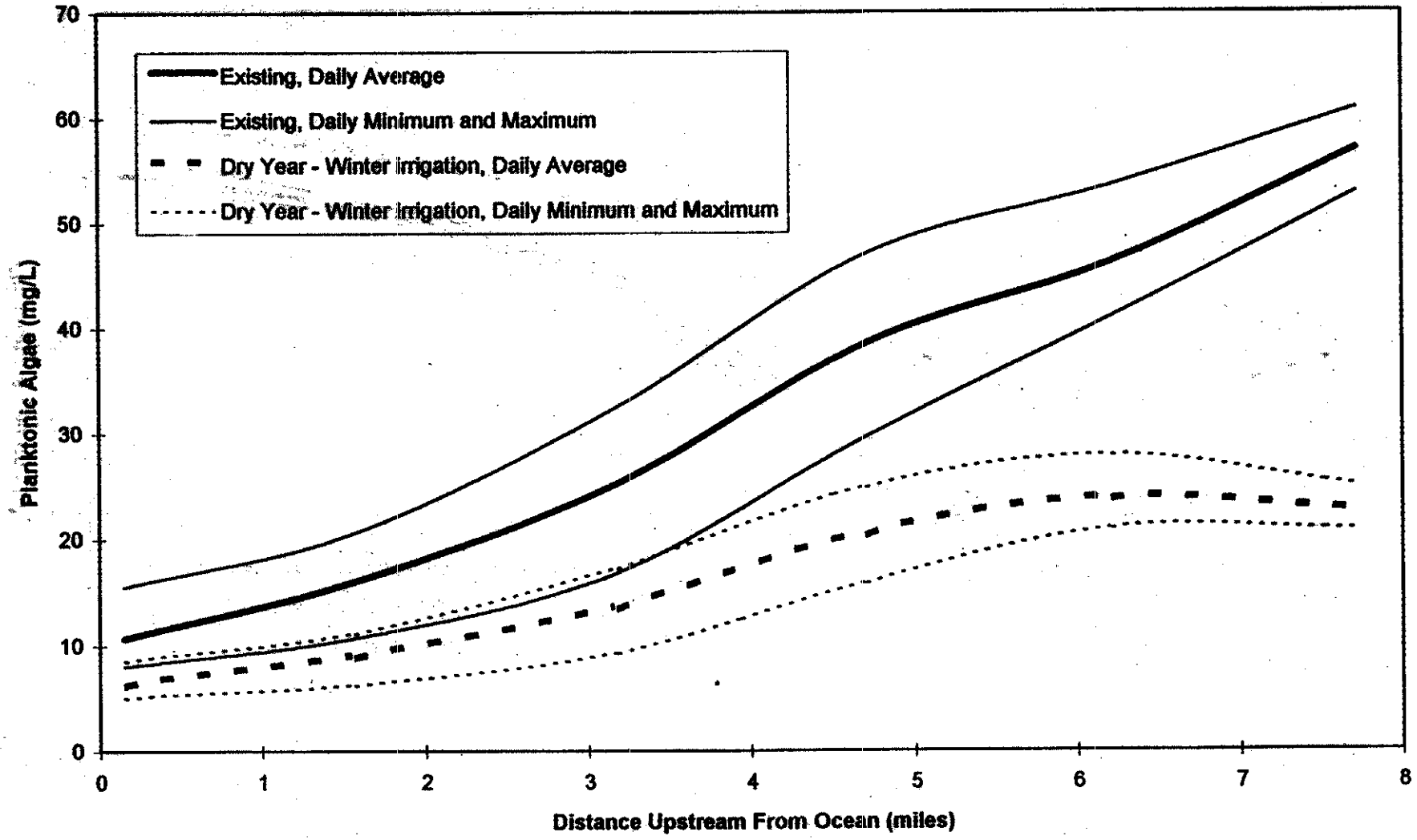


Figure 6-3.22. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Summer Inflow and Bar-Closed Conditions

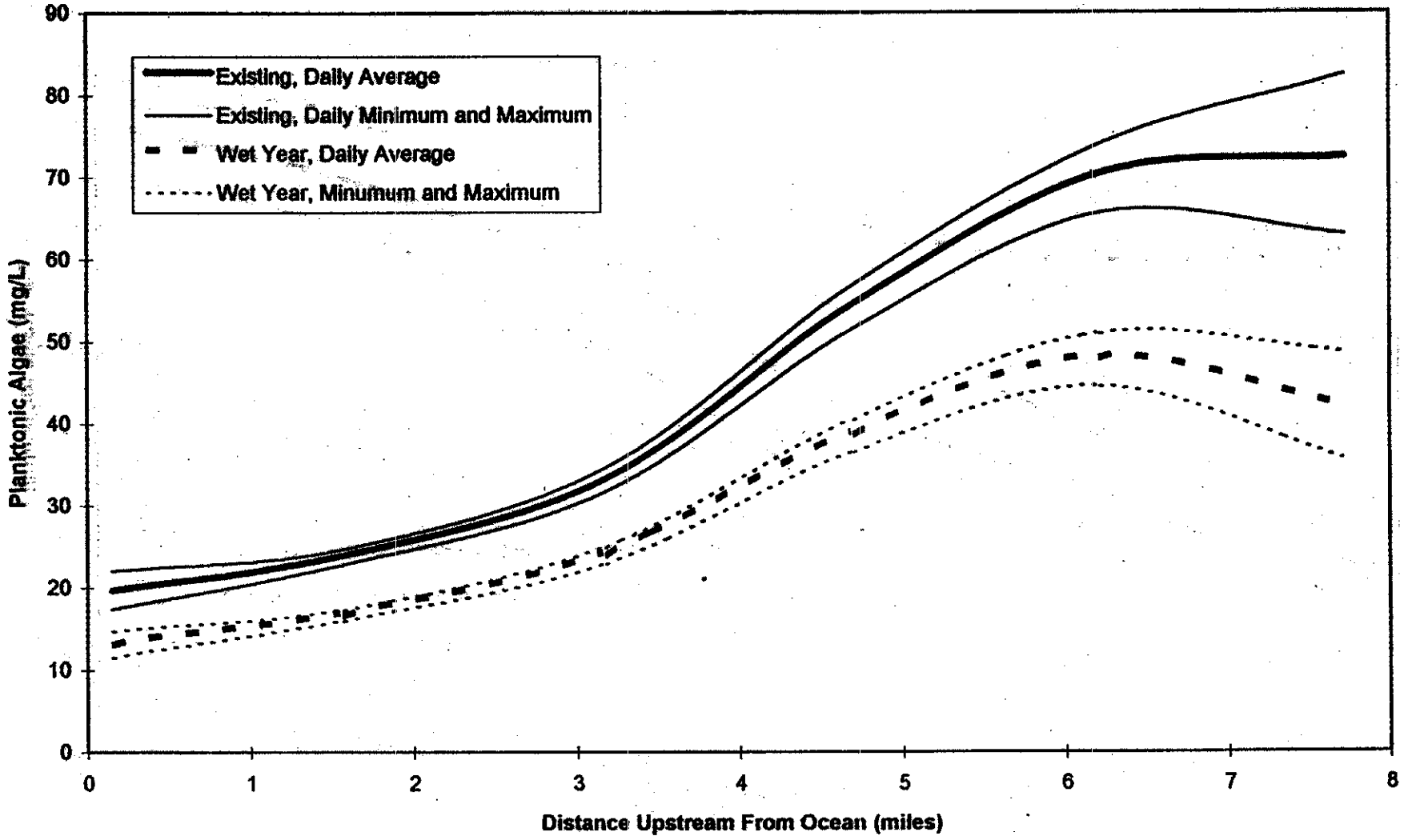


Figure 6-3.23. Irrigation and Storage Impacts on Planktonic Algae In Estero de San Antonio Summer Inflow and Bar-Closed Conditions

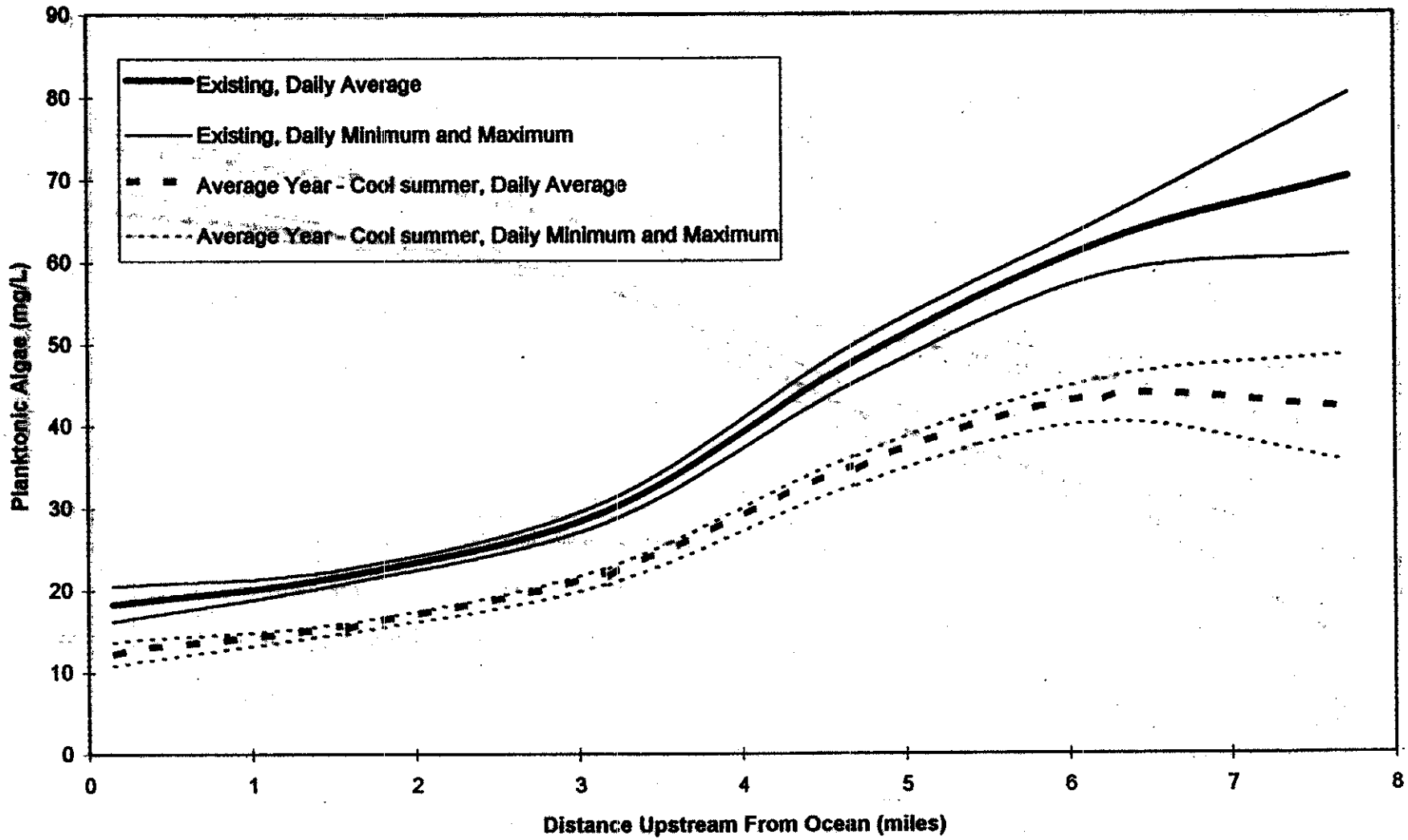


Figure 6-3.24. Irrigation and Storage Impacts on Planktonic Algae in Estero de S
Summer Inflow and Bar-Closed Conditions

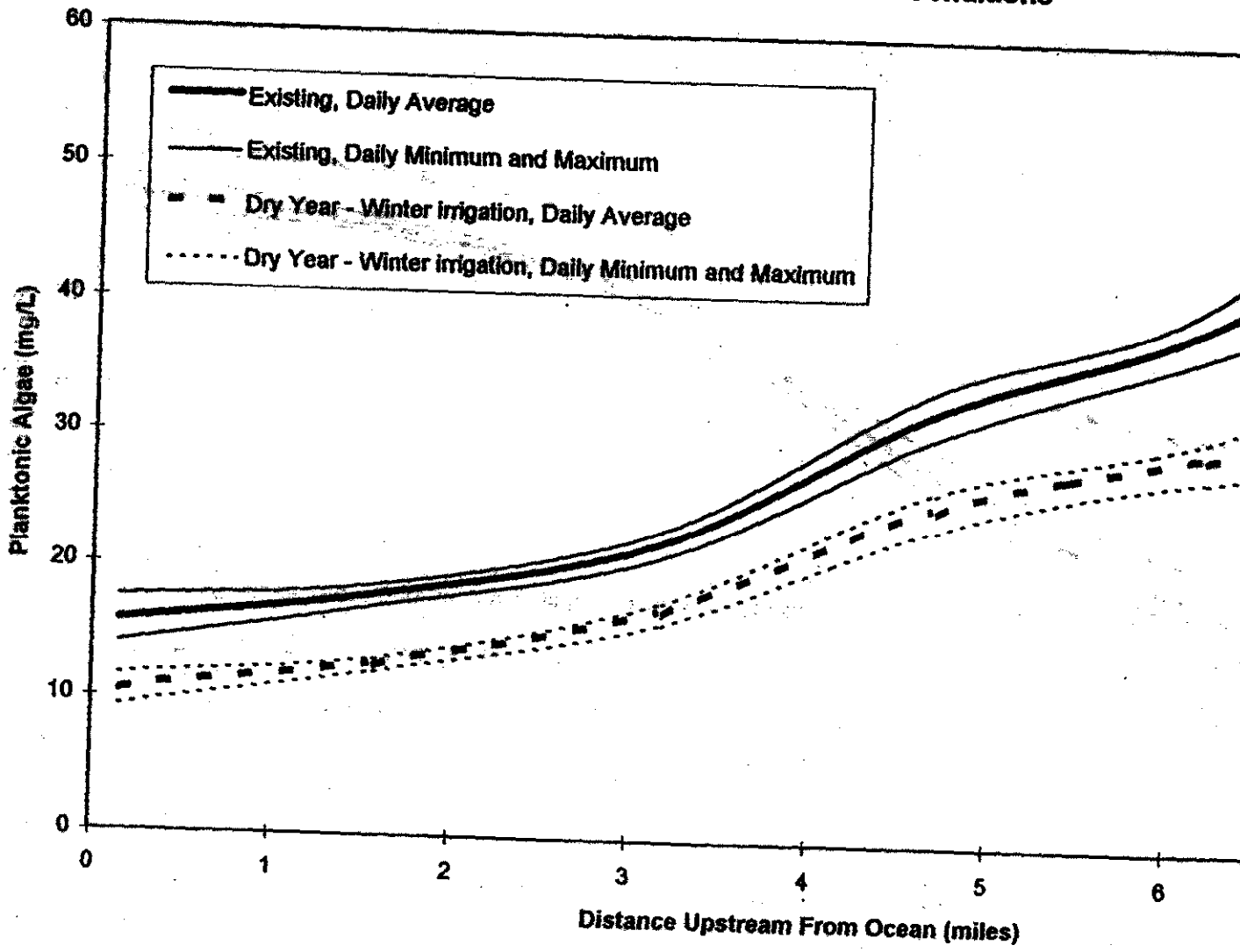
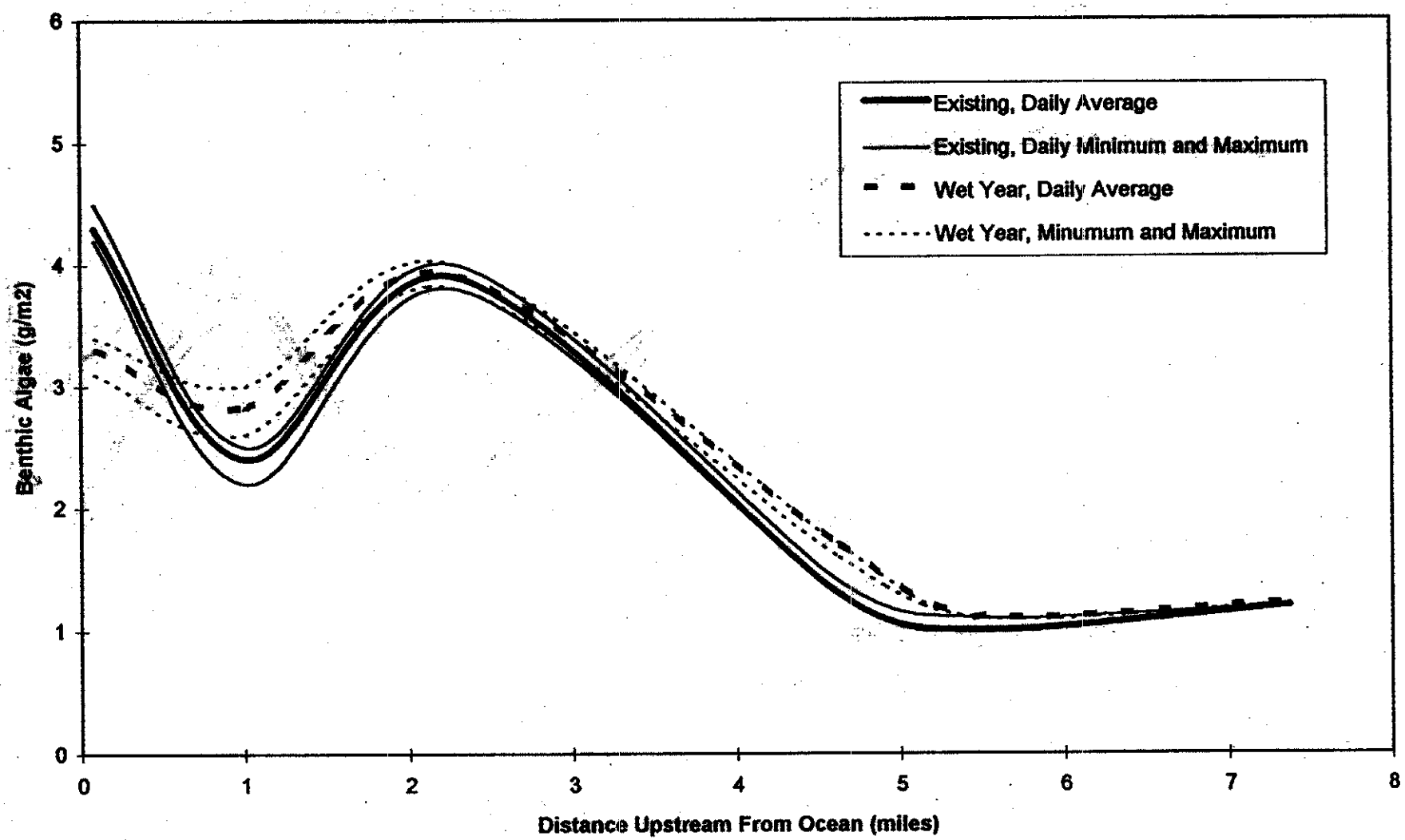


Figure 6-4.1. Irrigation and Storage Impacts on Benthic Algae In Estero Americano Spring Inflow and Bar-Open Conditions



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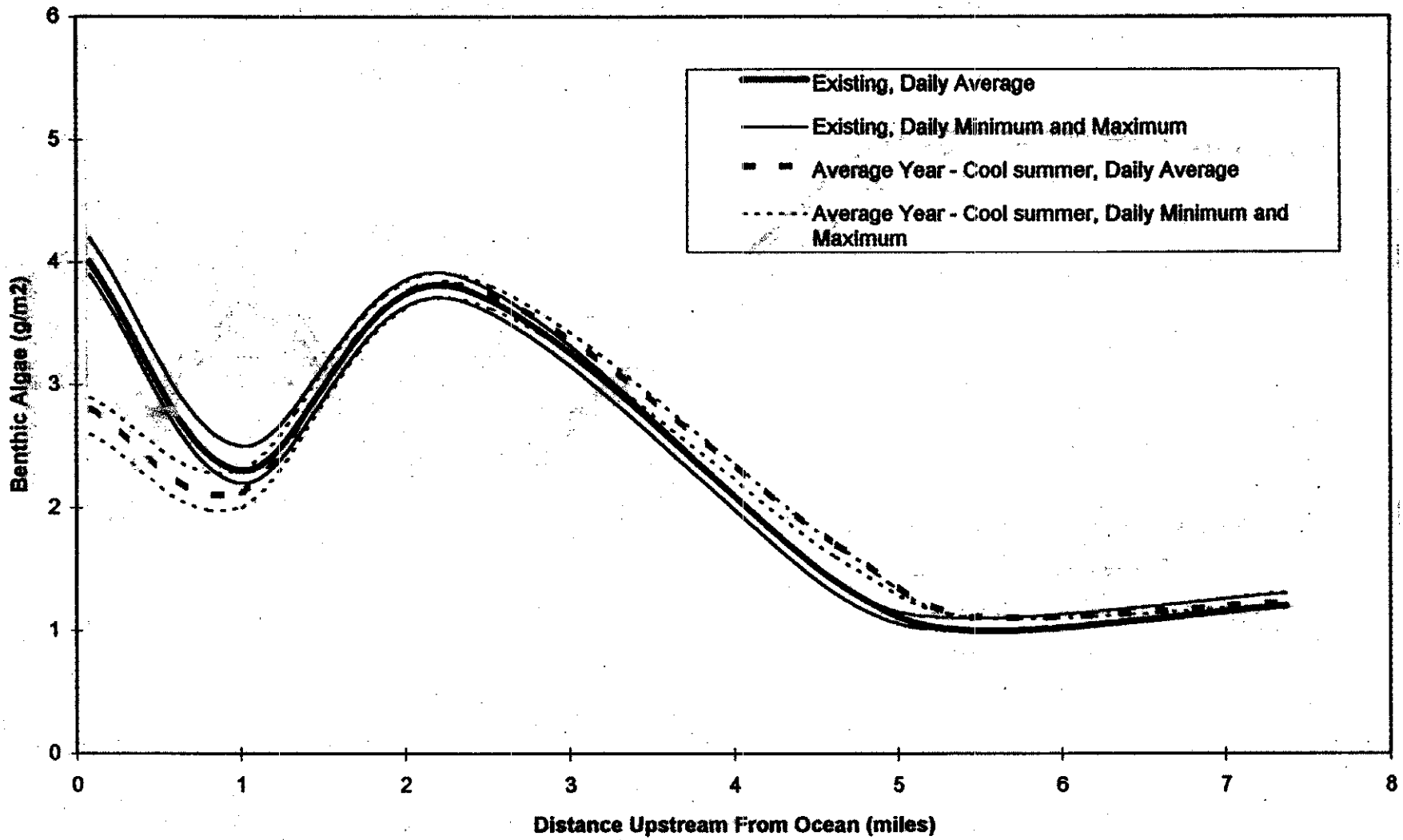

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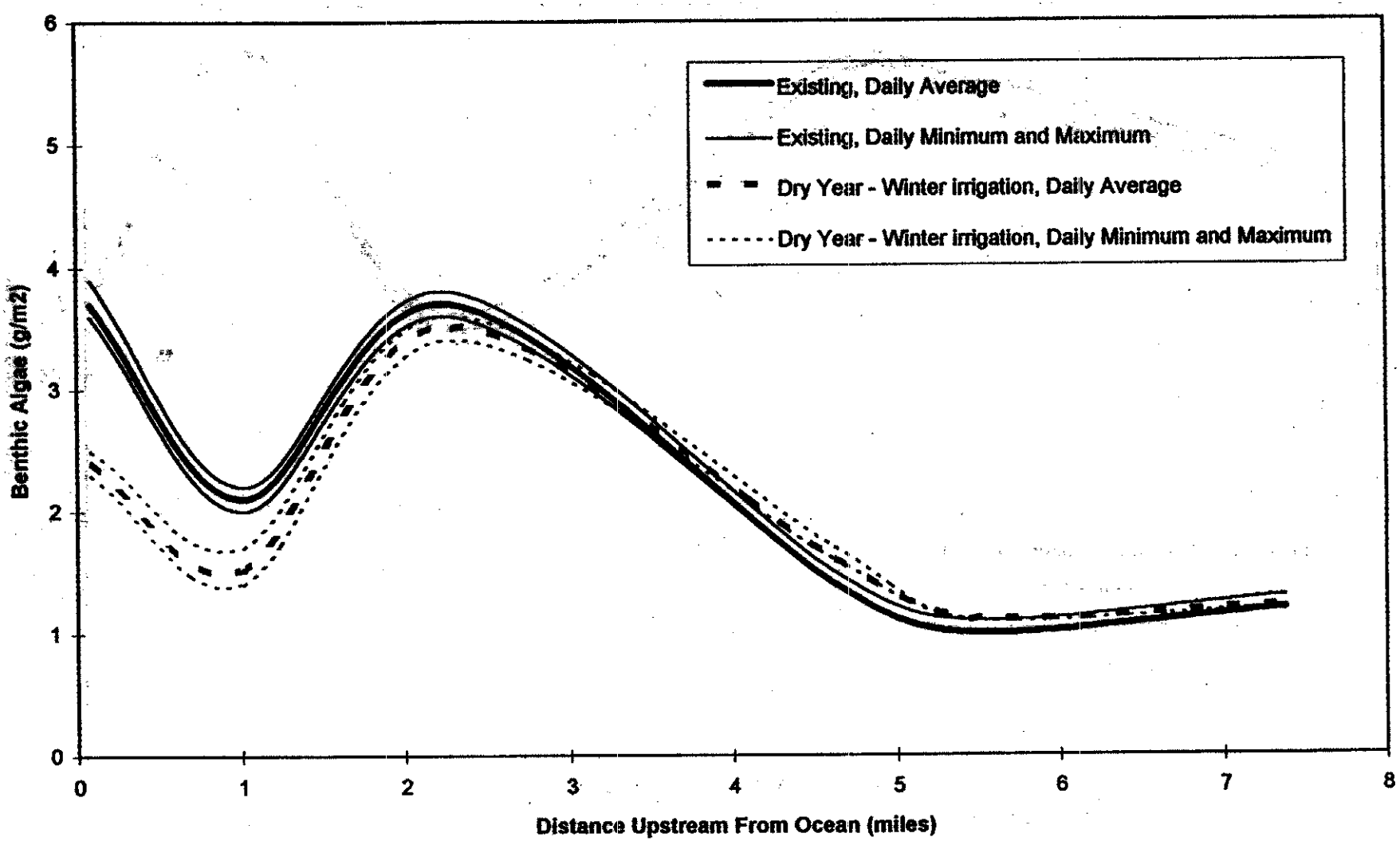

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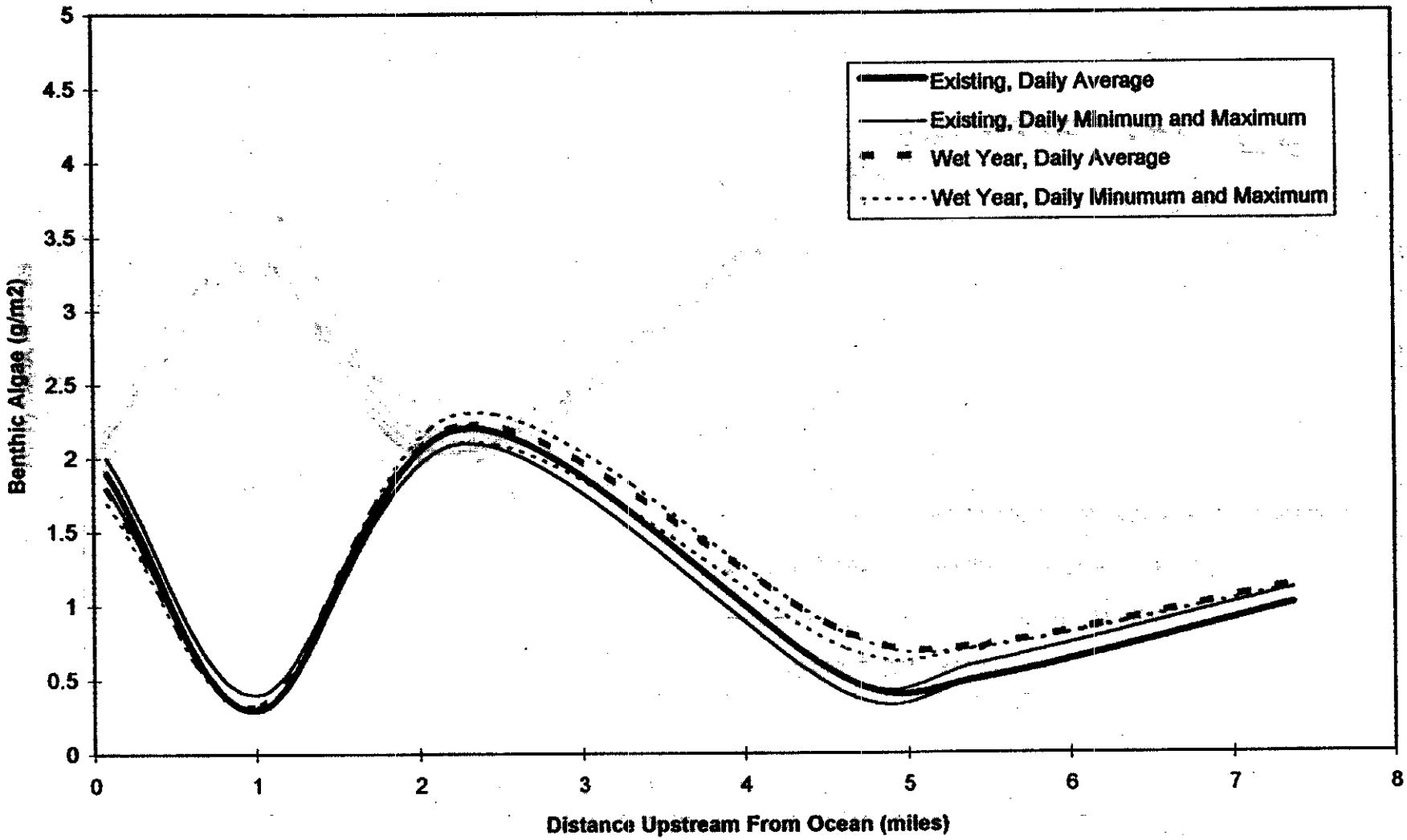

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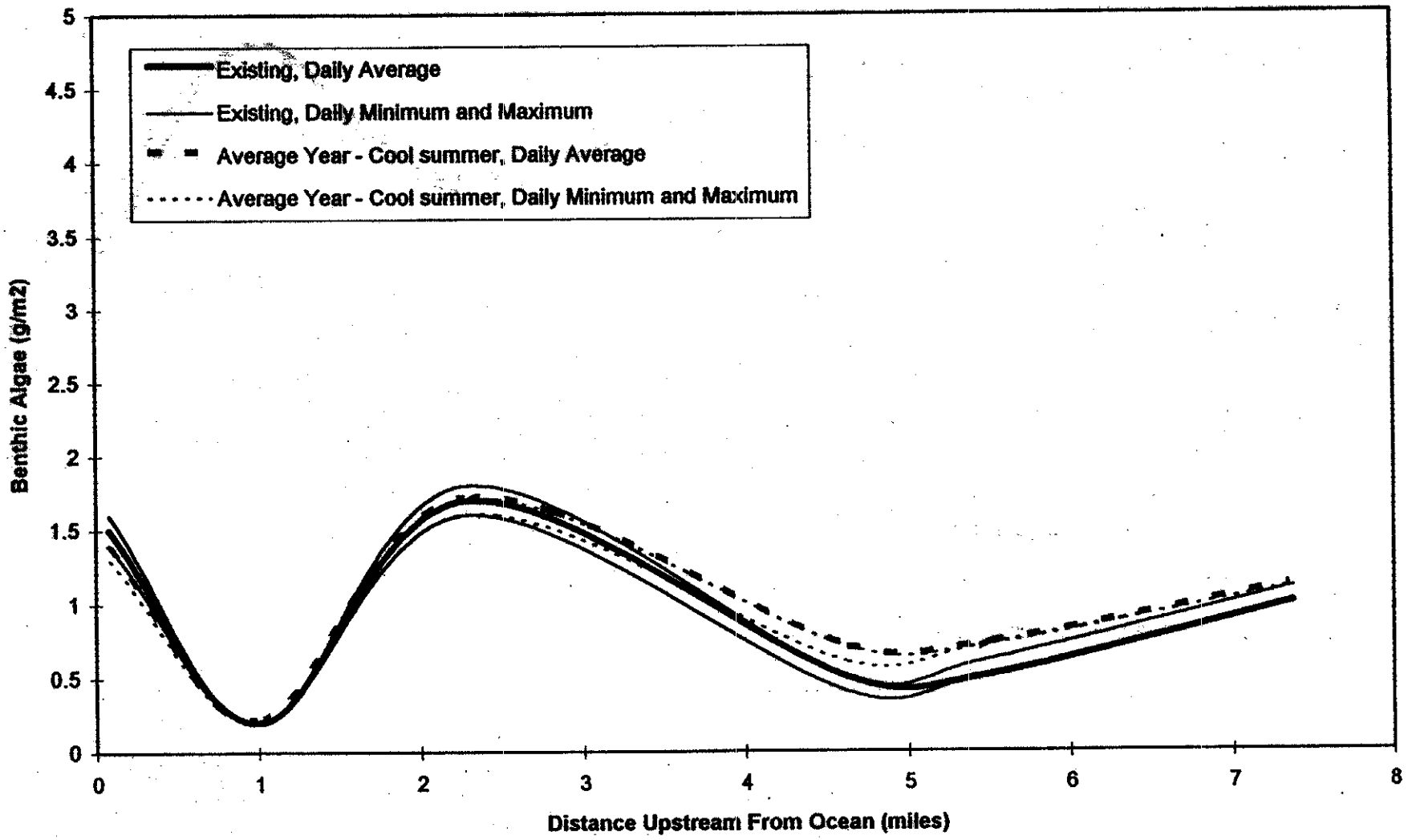

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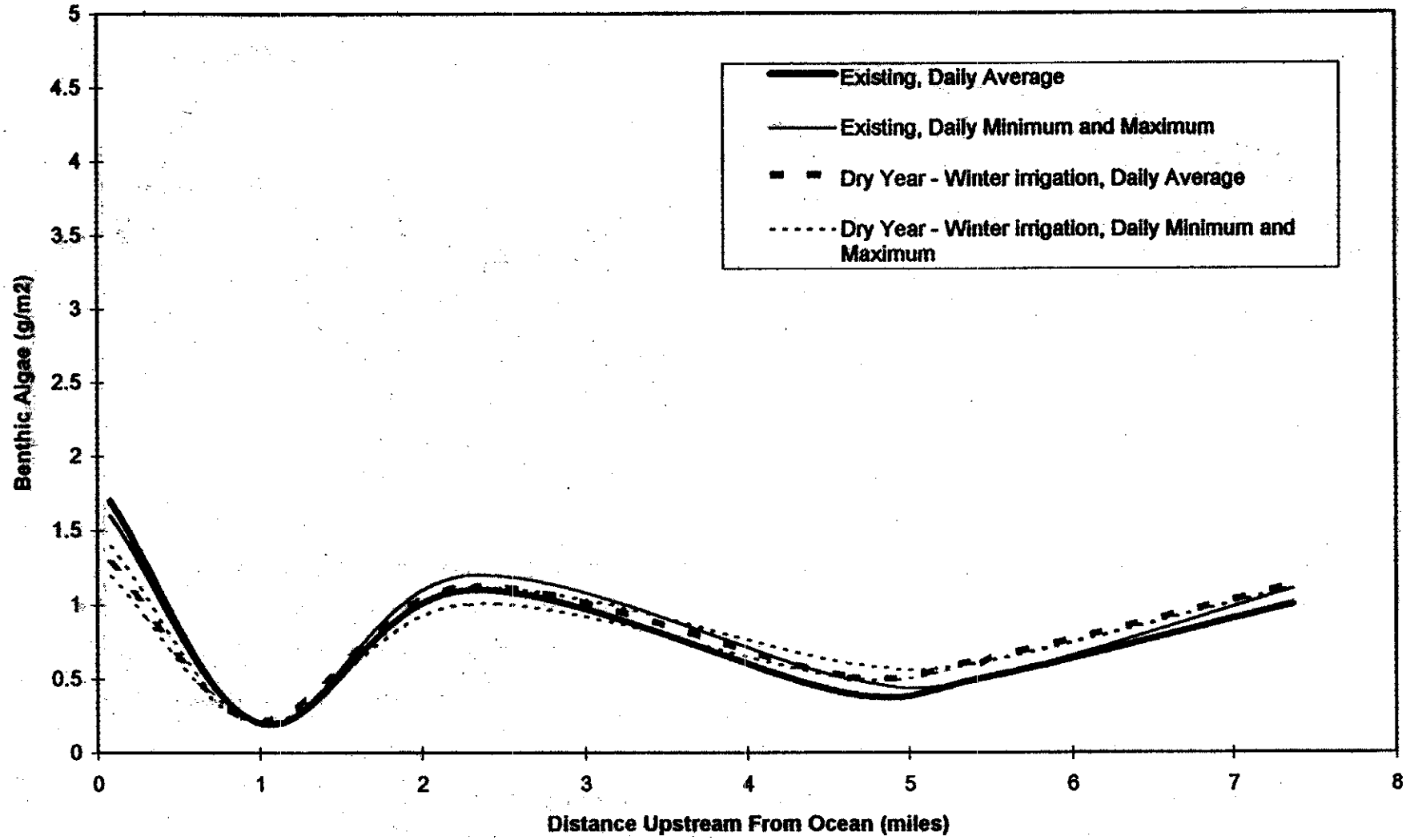

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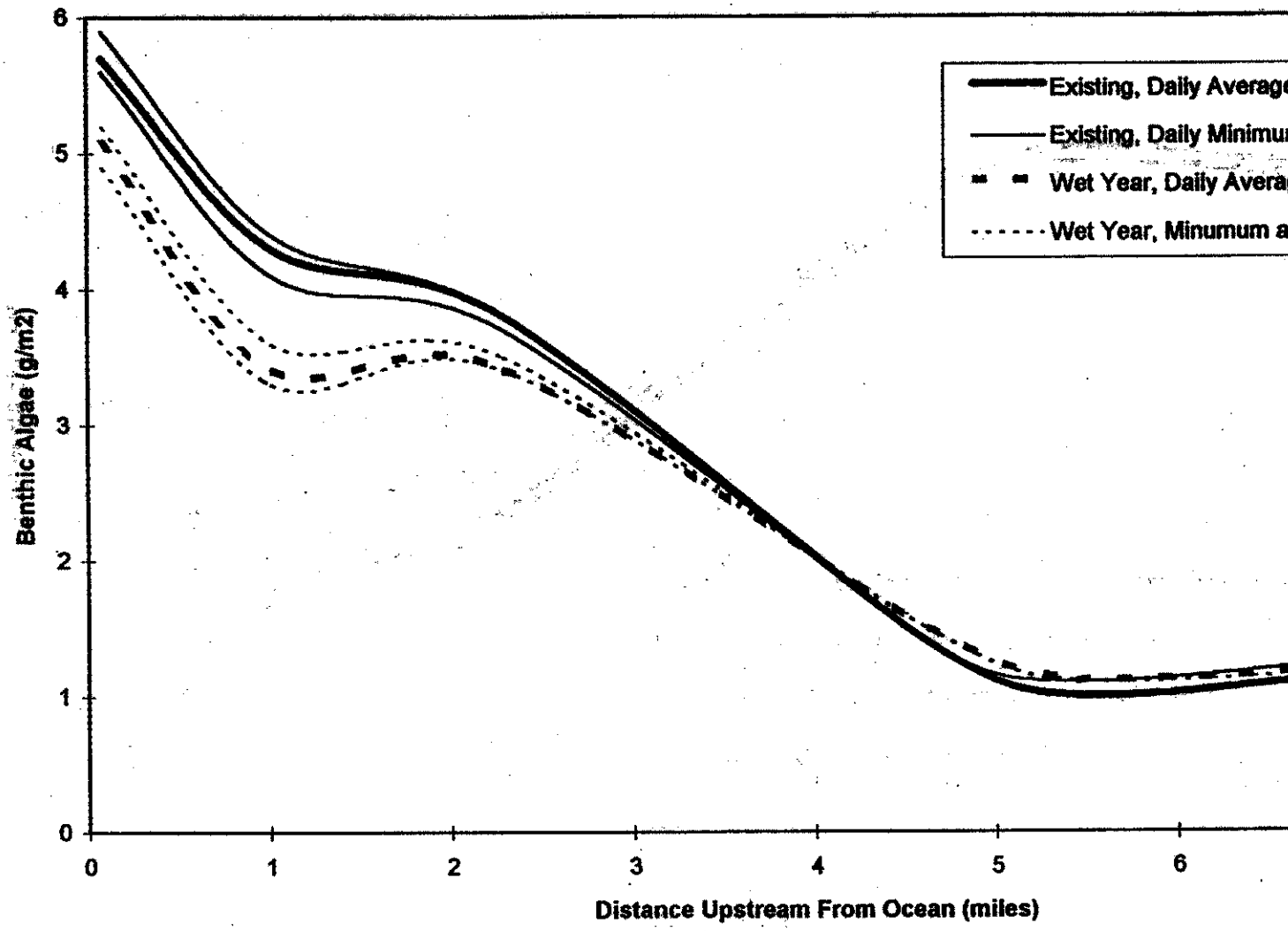
Spring Inflow and Bar-Open Conditions



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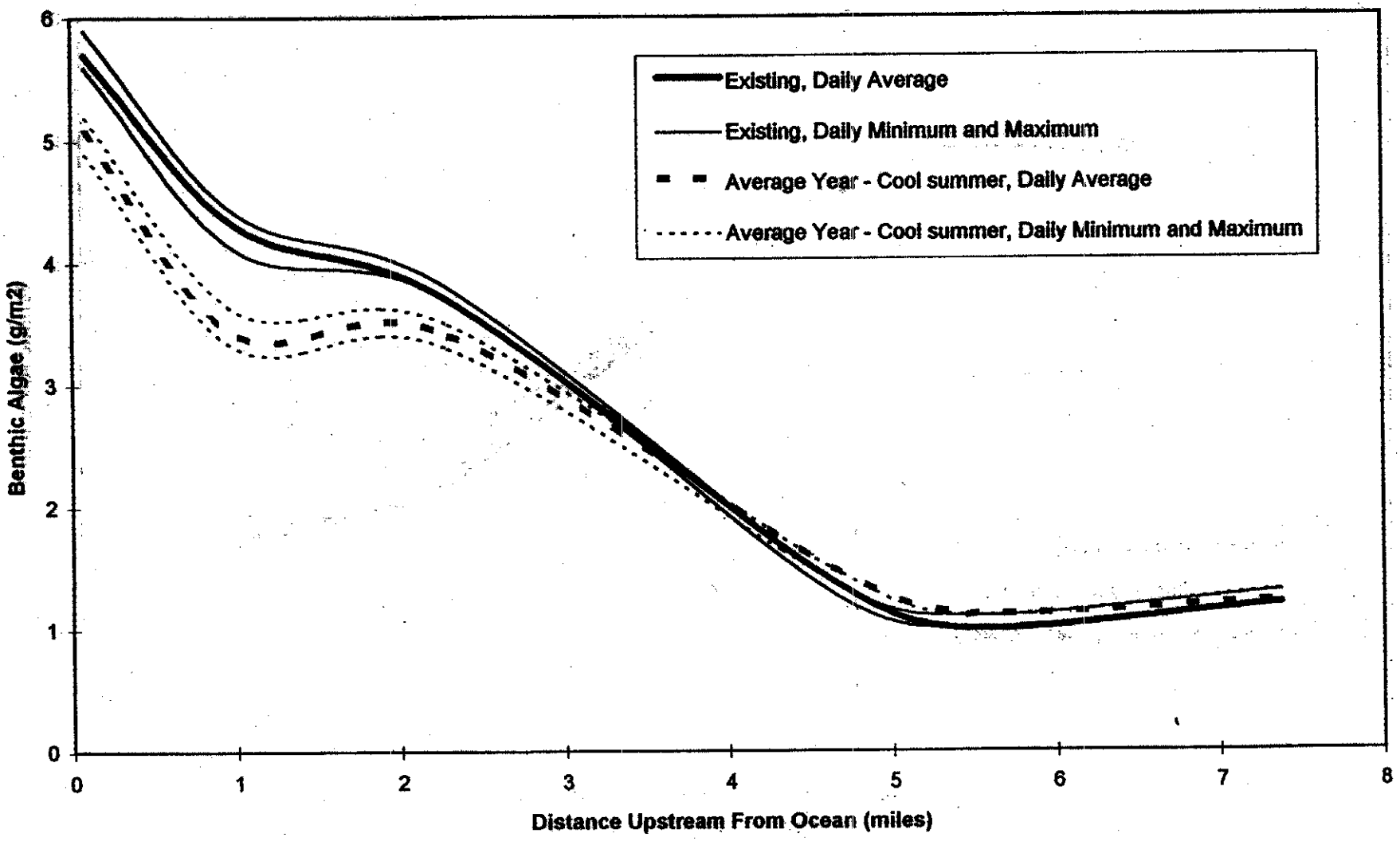

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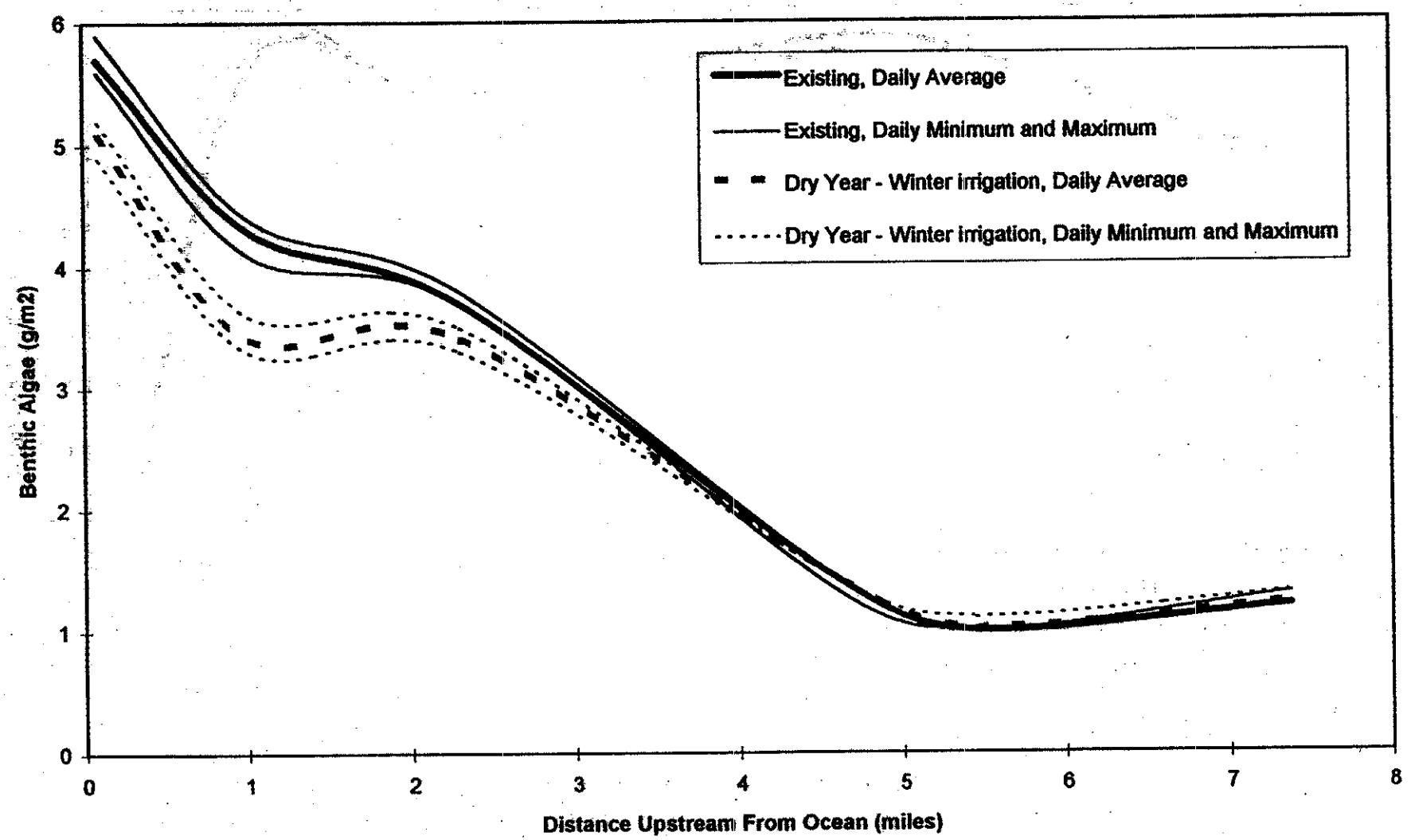


Figure 6-4.10. Irrigation and Storage Impacts on Benthic Algae in Estero Americano Summer Inflow and Bar-Closed Conditions

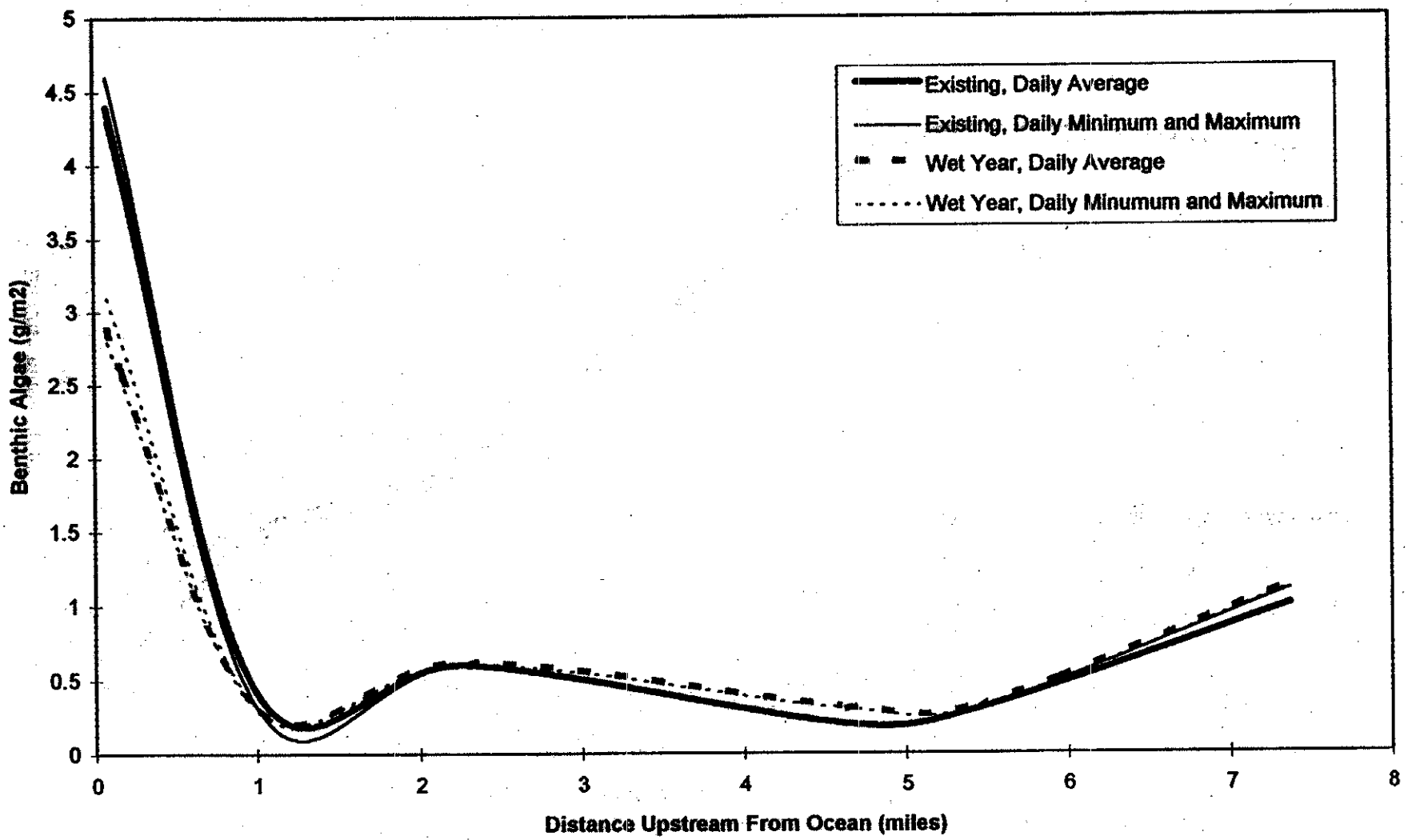
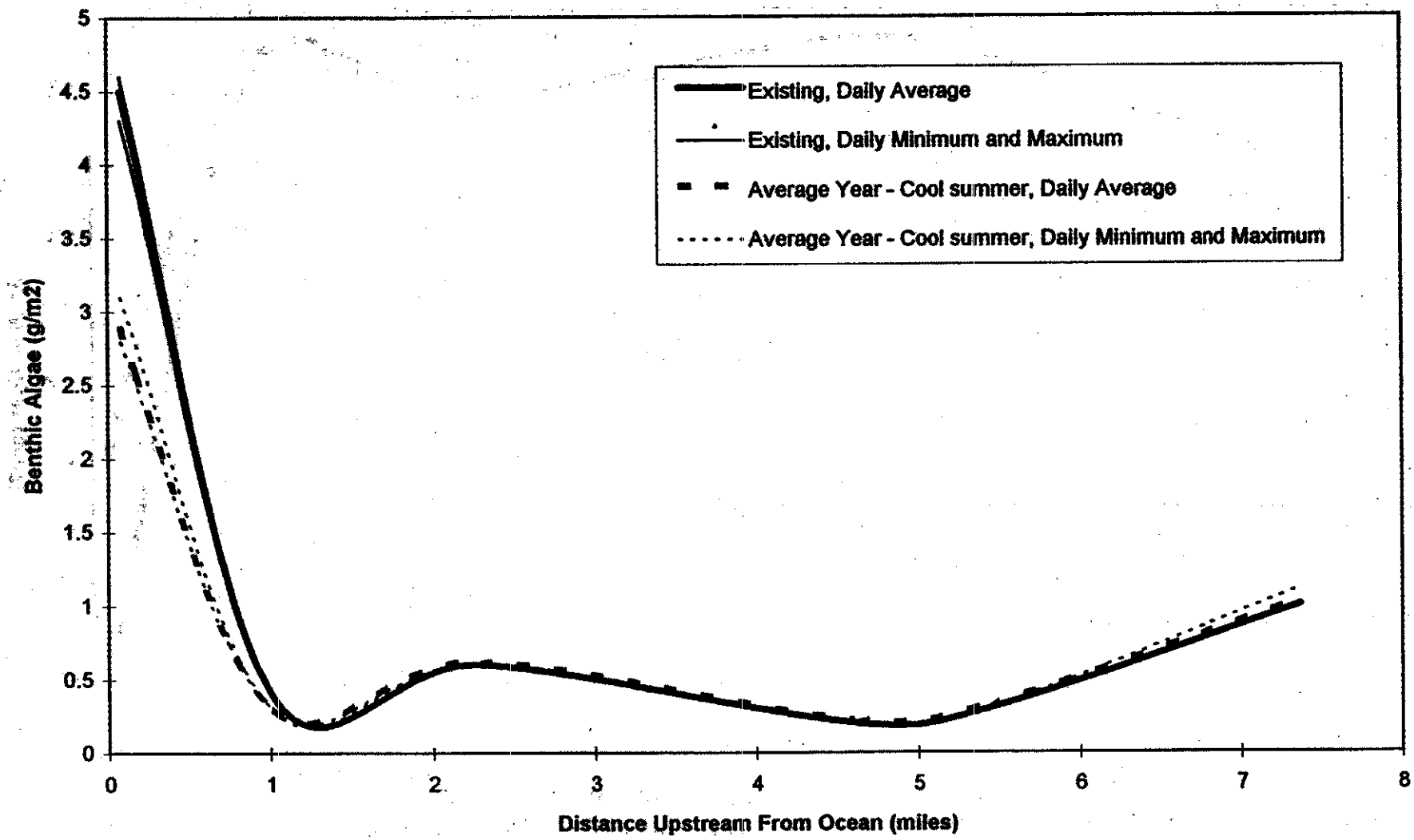


Figure 6-4.11. Irrigation and Storage Impacts on Benthic Algae in Estero Americano Summer Inflow and Bar-Closed Conditions



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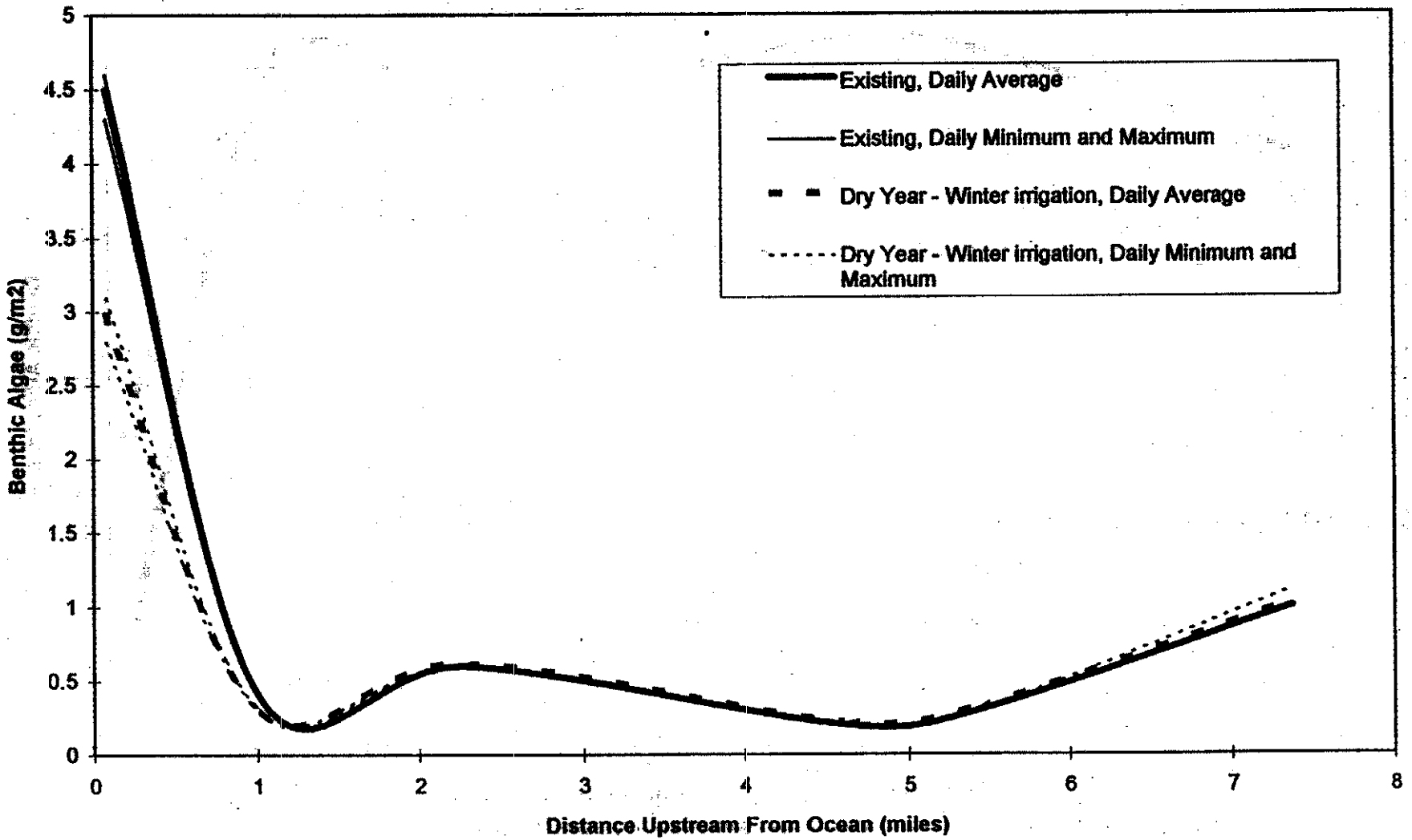


Figure 6-4.13. Irrigation and Storage Impacts on Benthic Algae in Estero de San A
Spring Inflow and Bar-Open Conditions

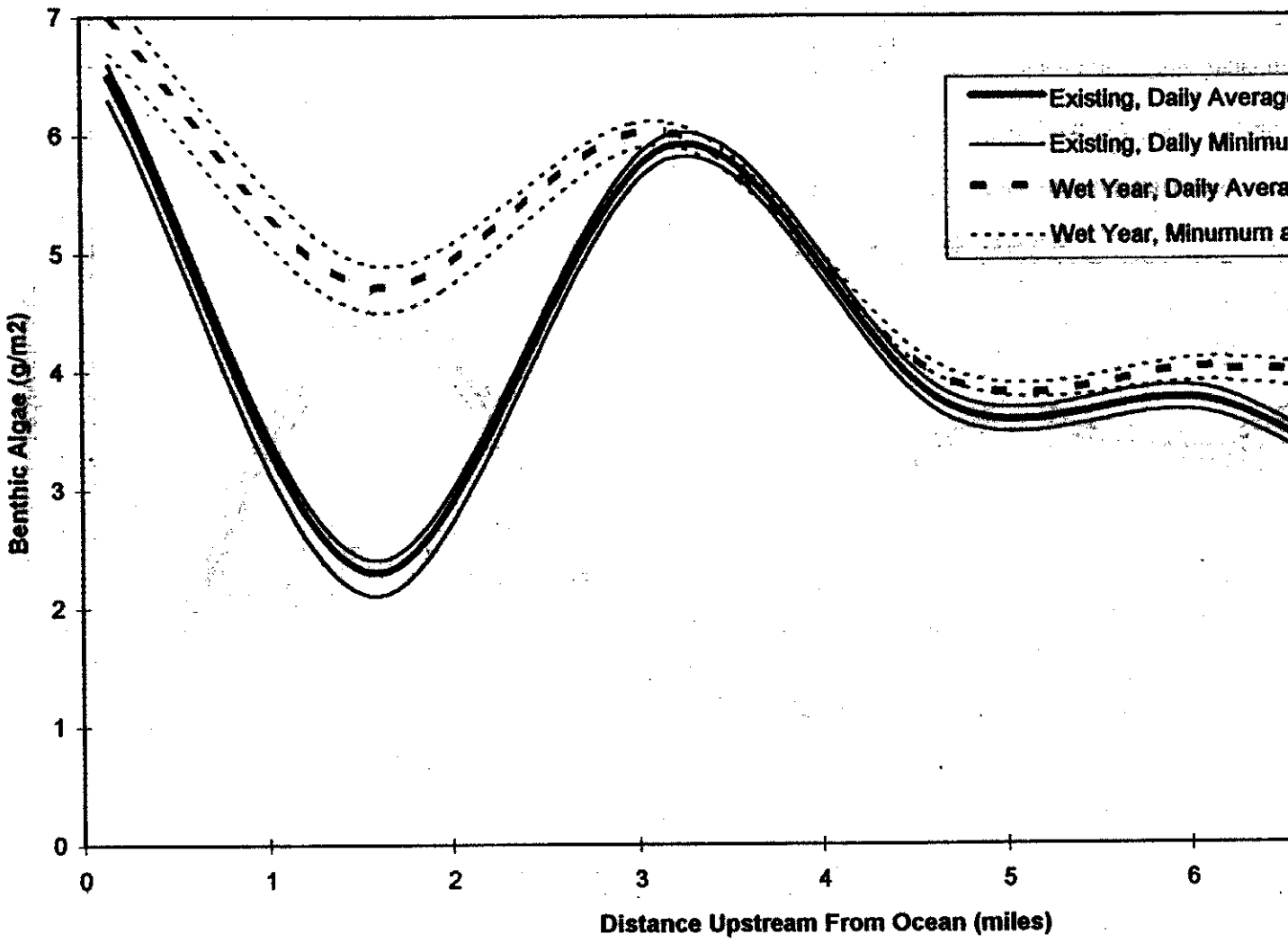
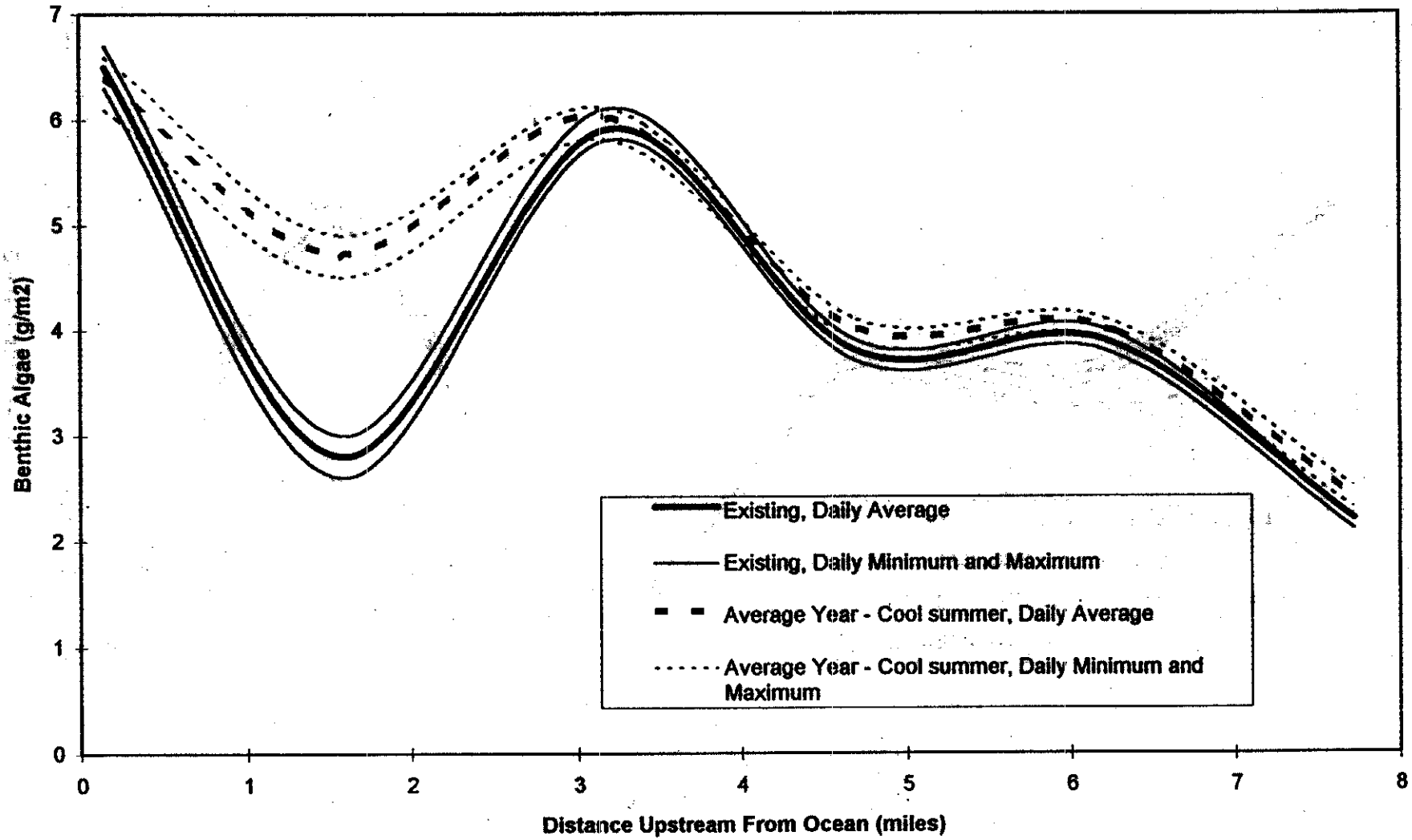


Figure 6-4.14. Irrigation and Storage Impacts on Benthic Algae in Estero de San Antonio Spring Inflow and Bar-Open Conditions



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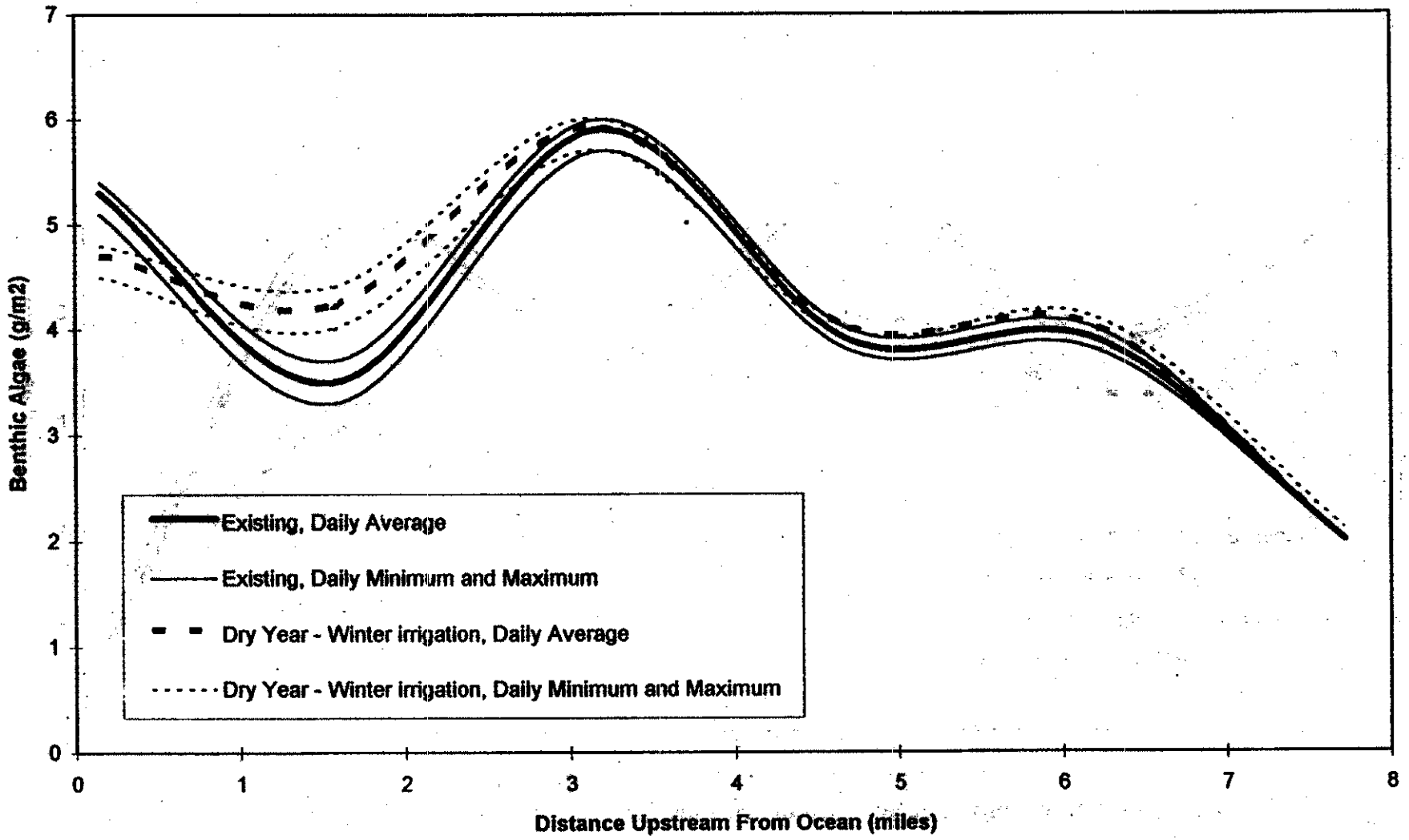

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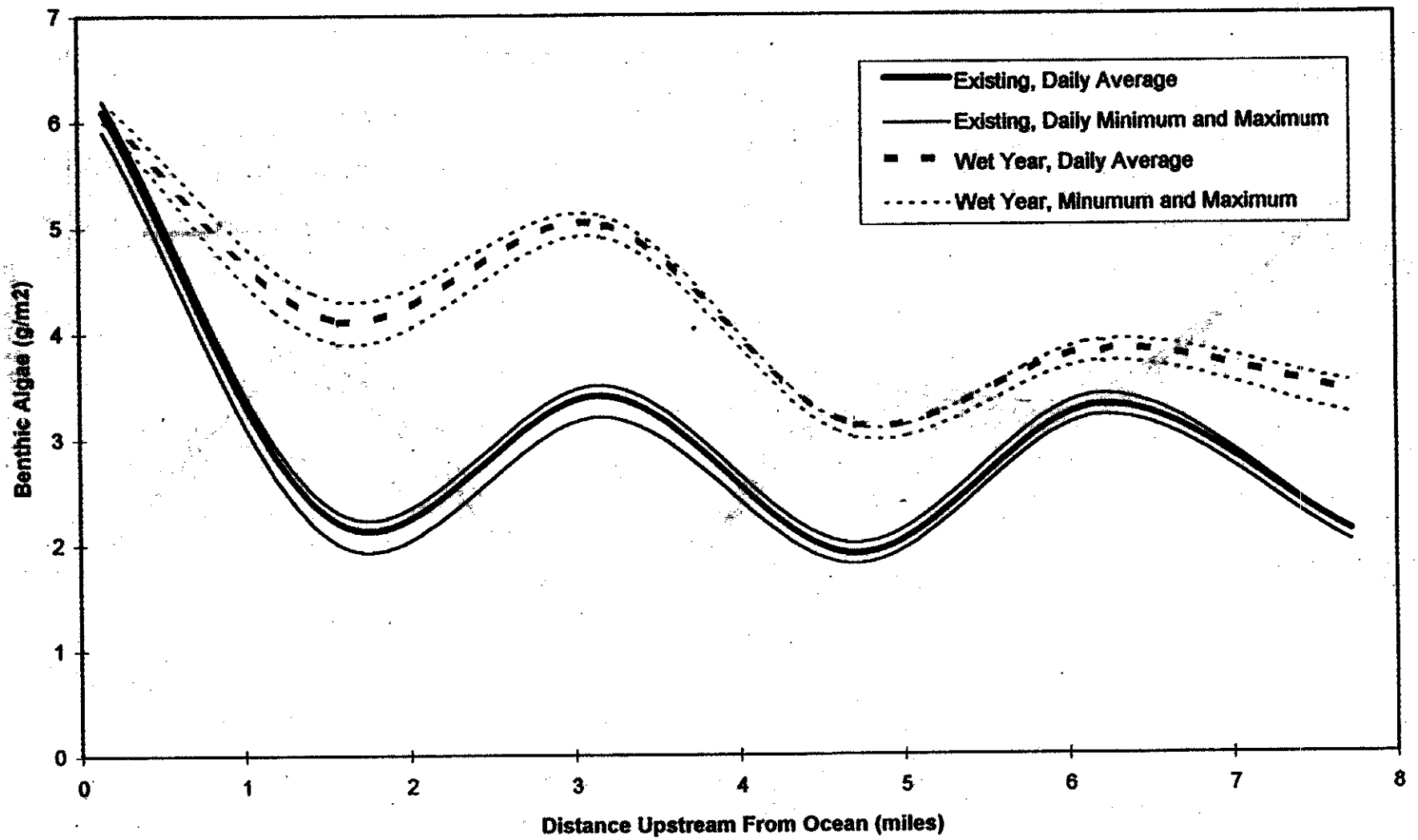

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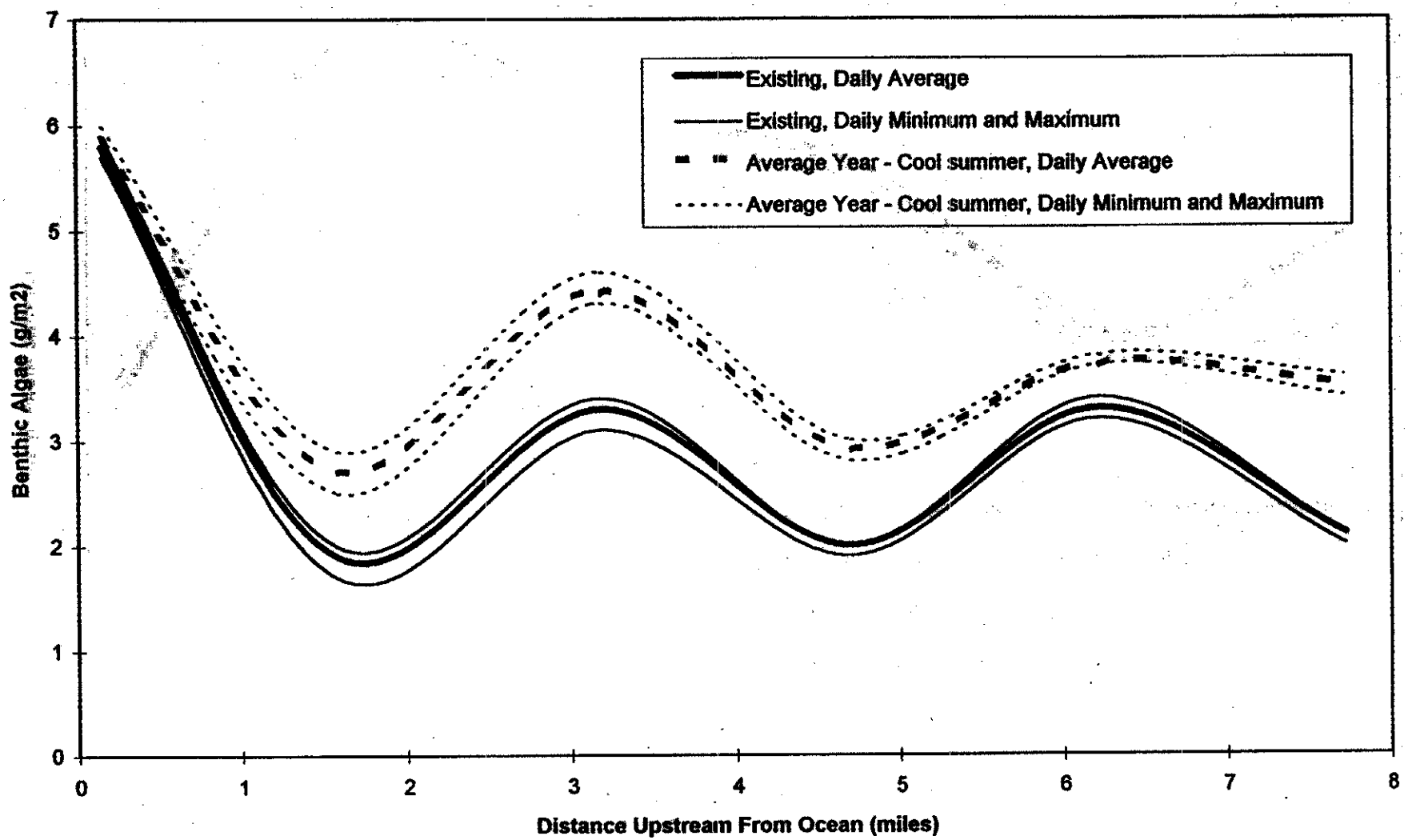

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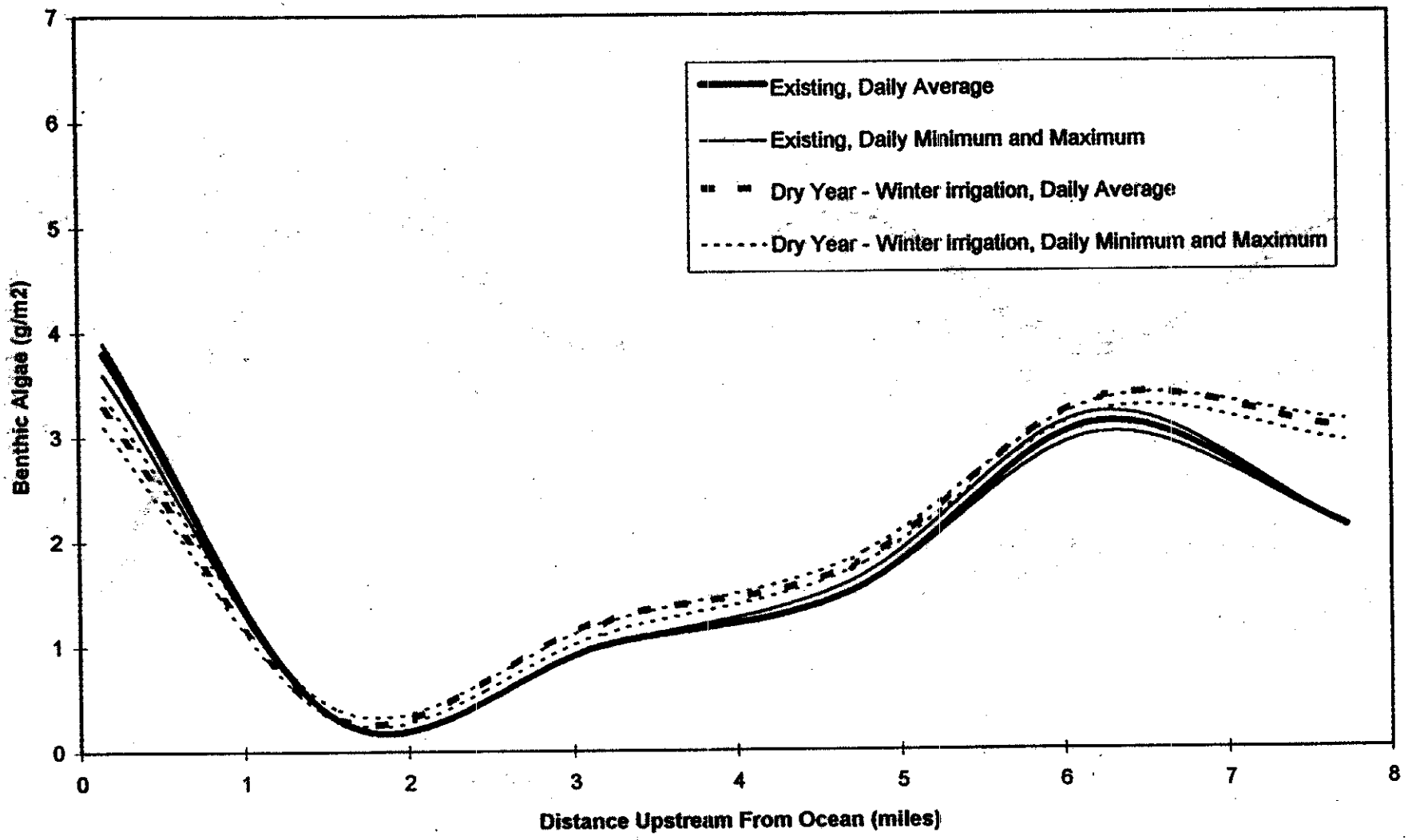
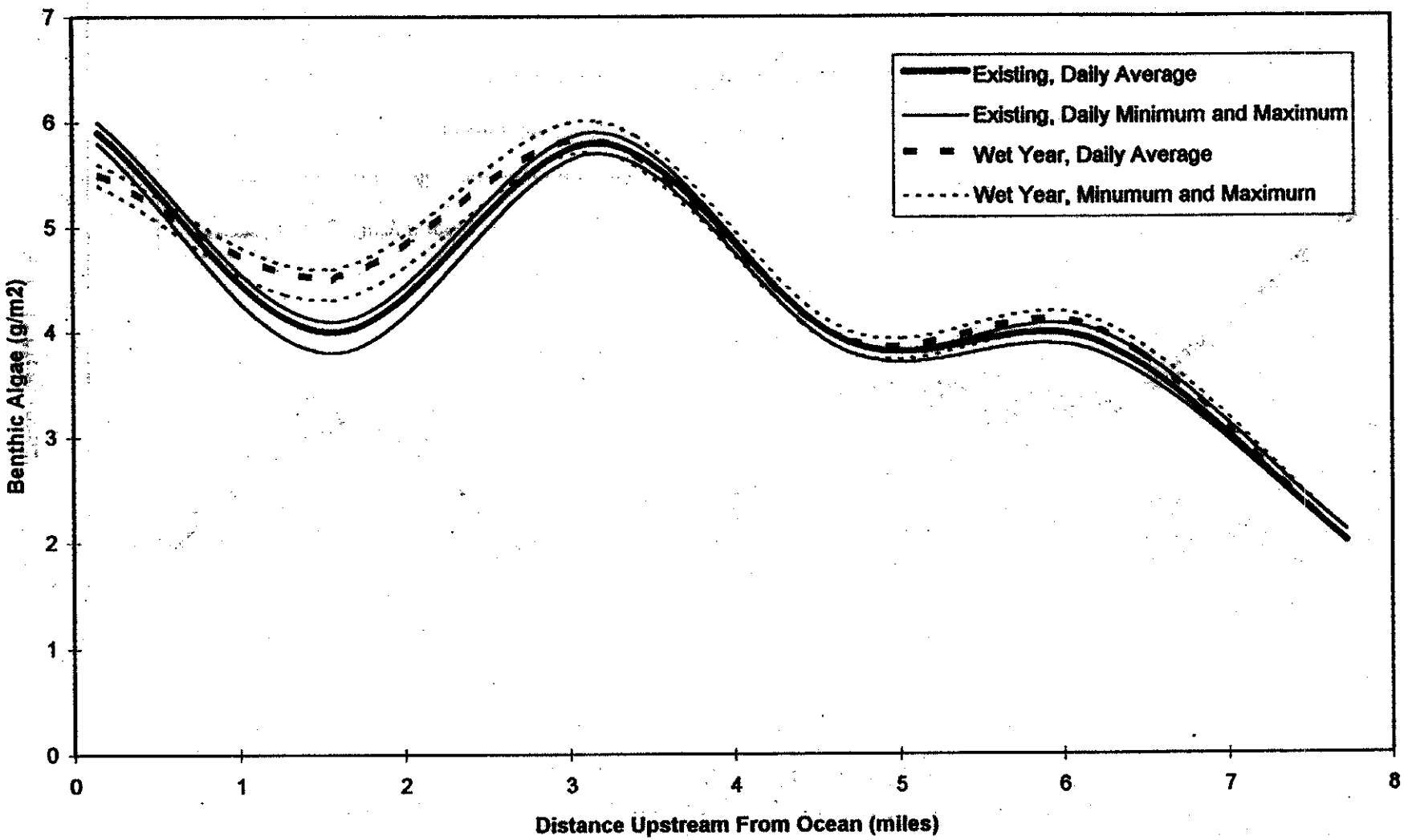


Figure 6-4.19. Irrigation and Storage Impacts on Benthic Algae in Estero de San Antonio Summer Inflow and Bar-Open Conditions



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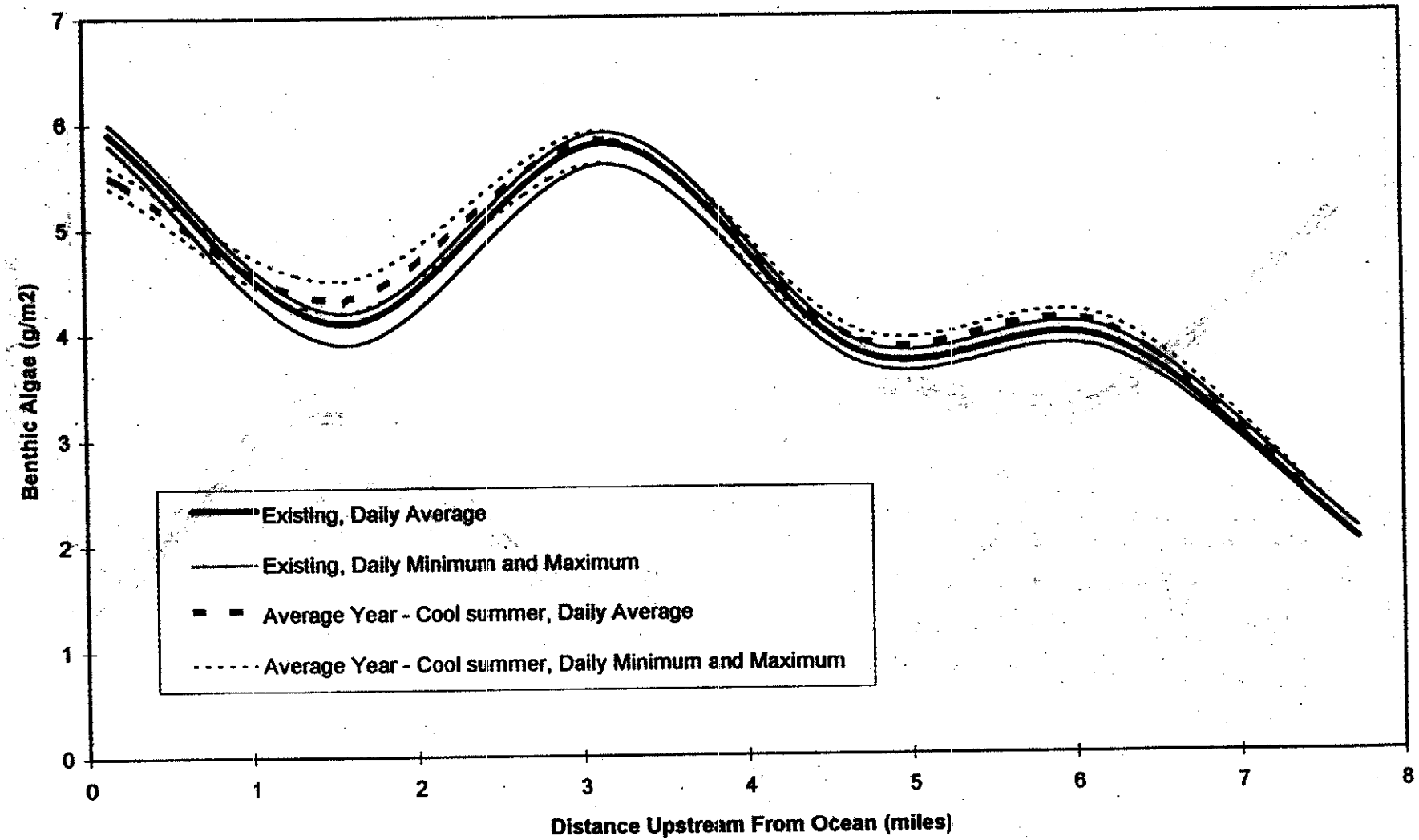

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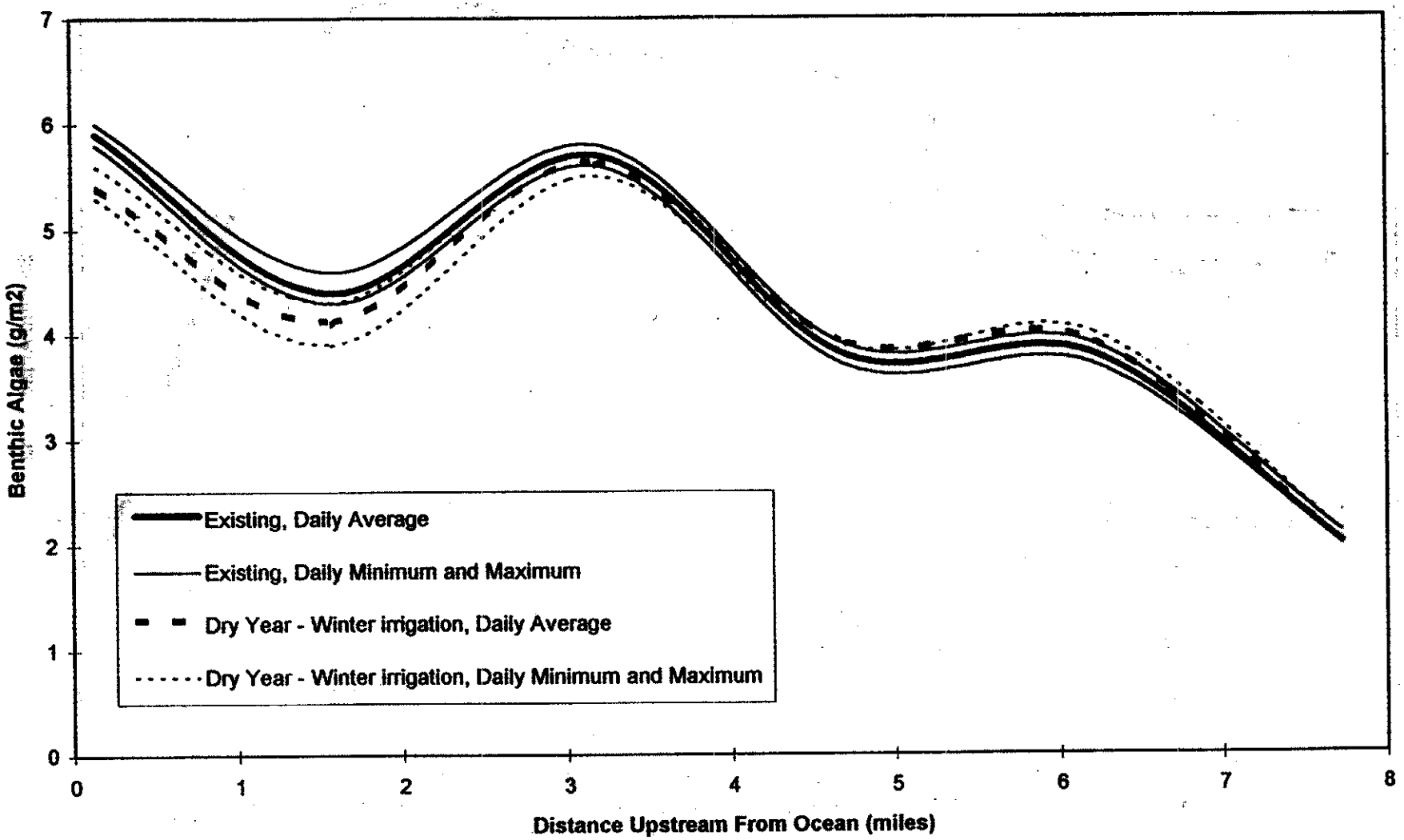

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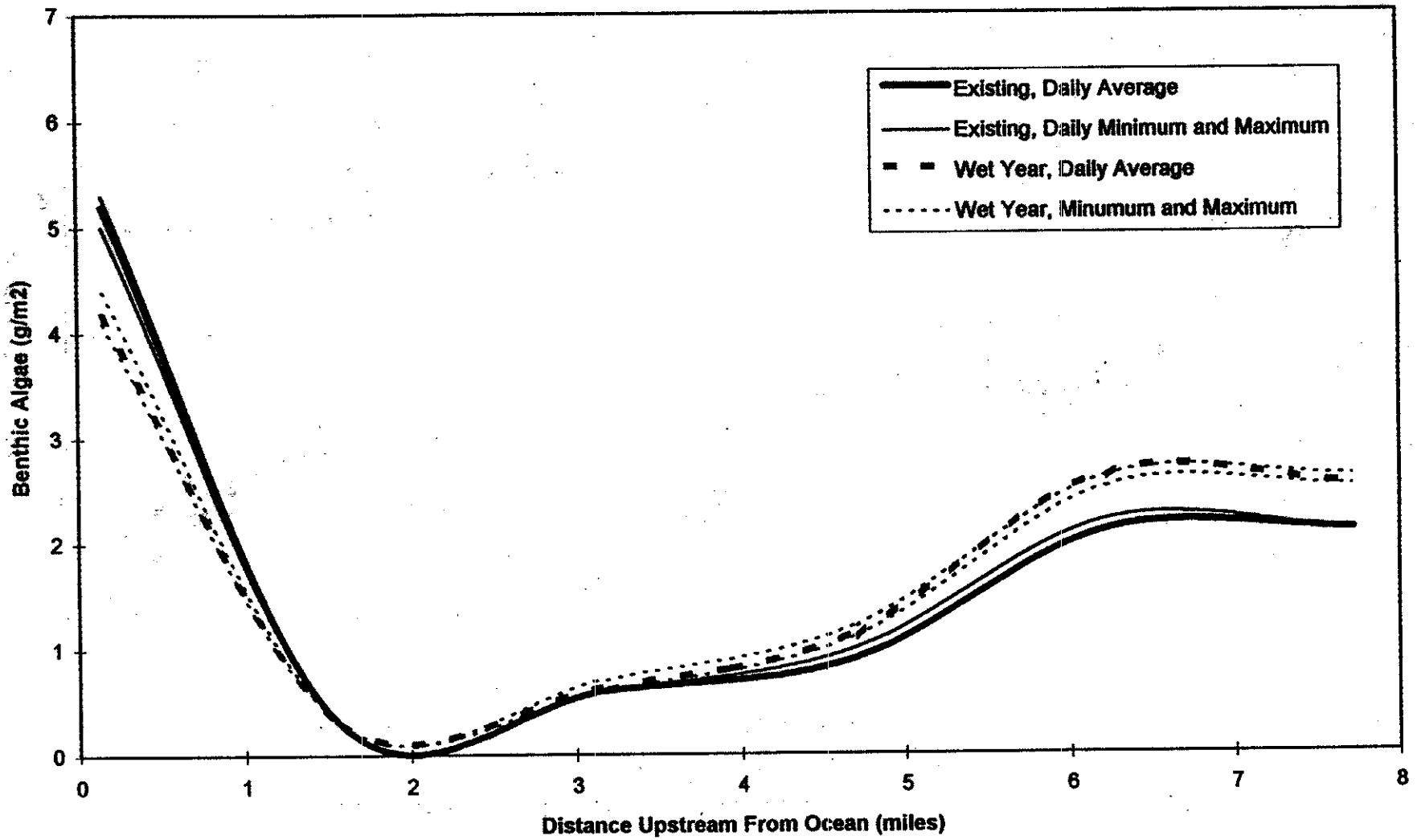


Figure 6-4.23. Irrigation and Storage Impacts on Benthic Algae in Estero de San A
Summer Inflow and Bar-Closed Conditions

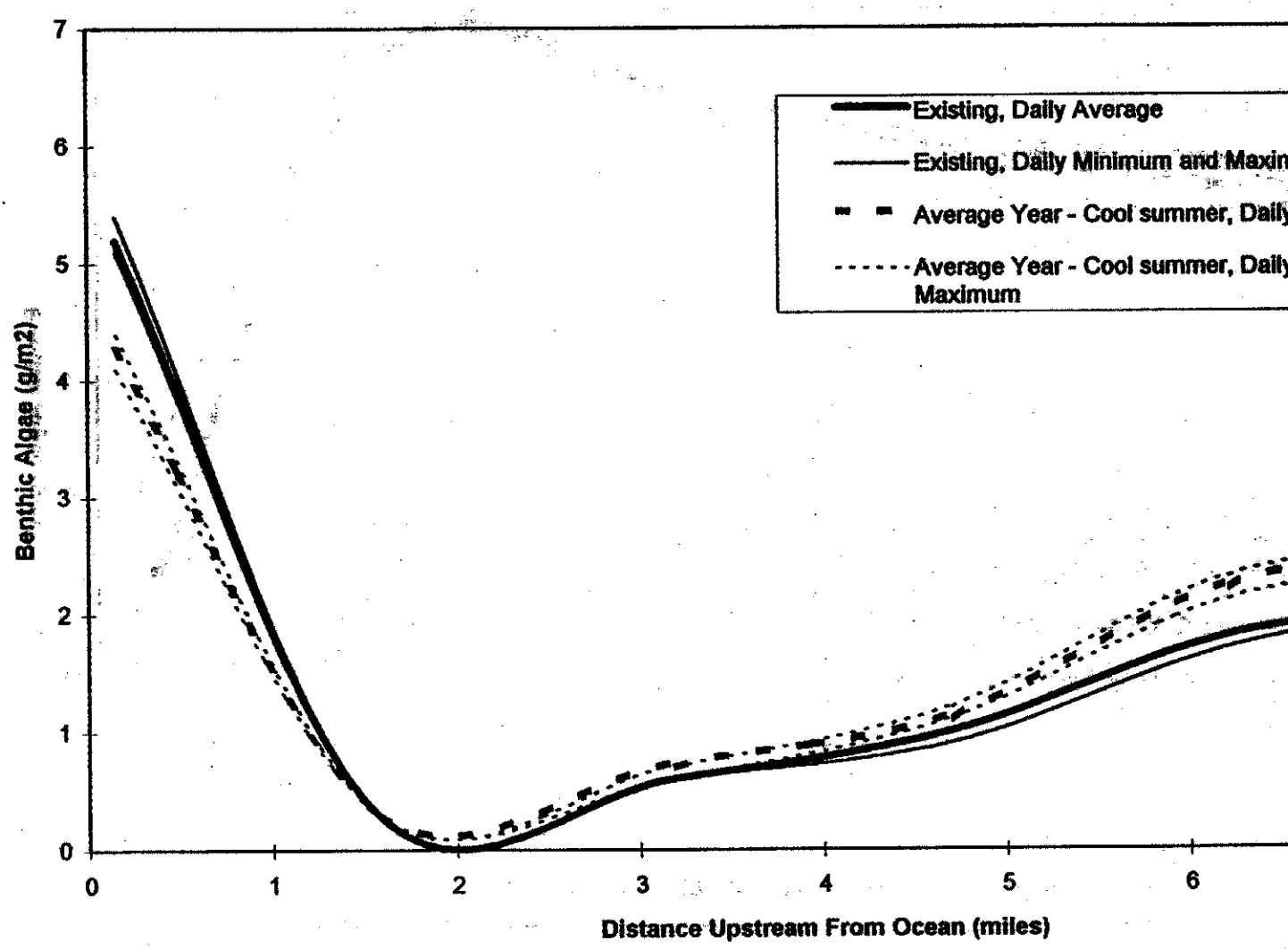


Figure 6-4.24. Irrigation and Storage Impacts on Benthic Algae In Estero de San A
Summer Inflow and Bar-Closed Conditions

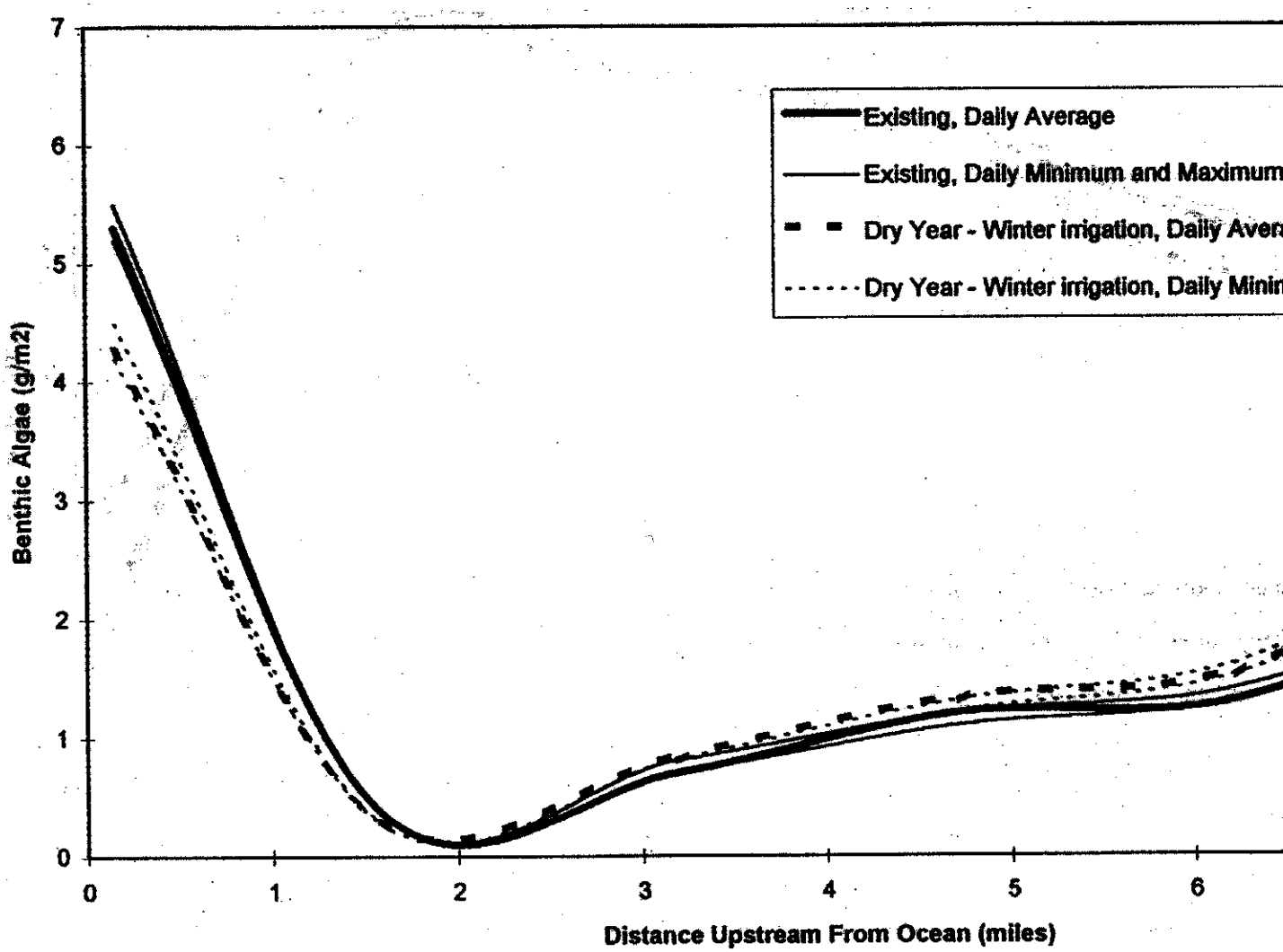
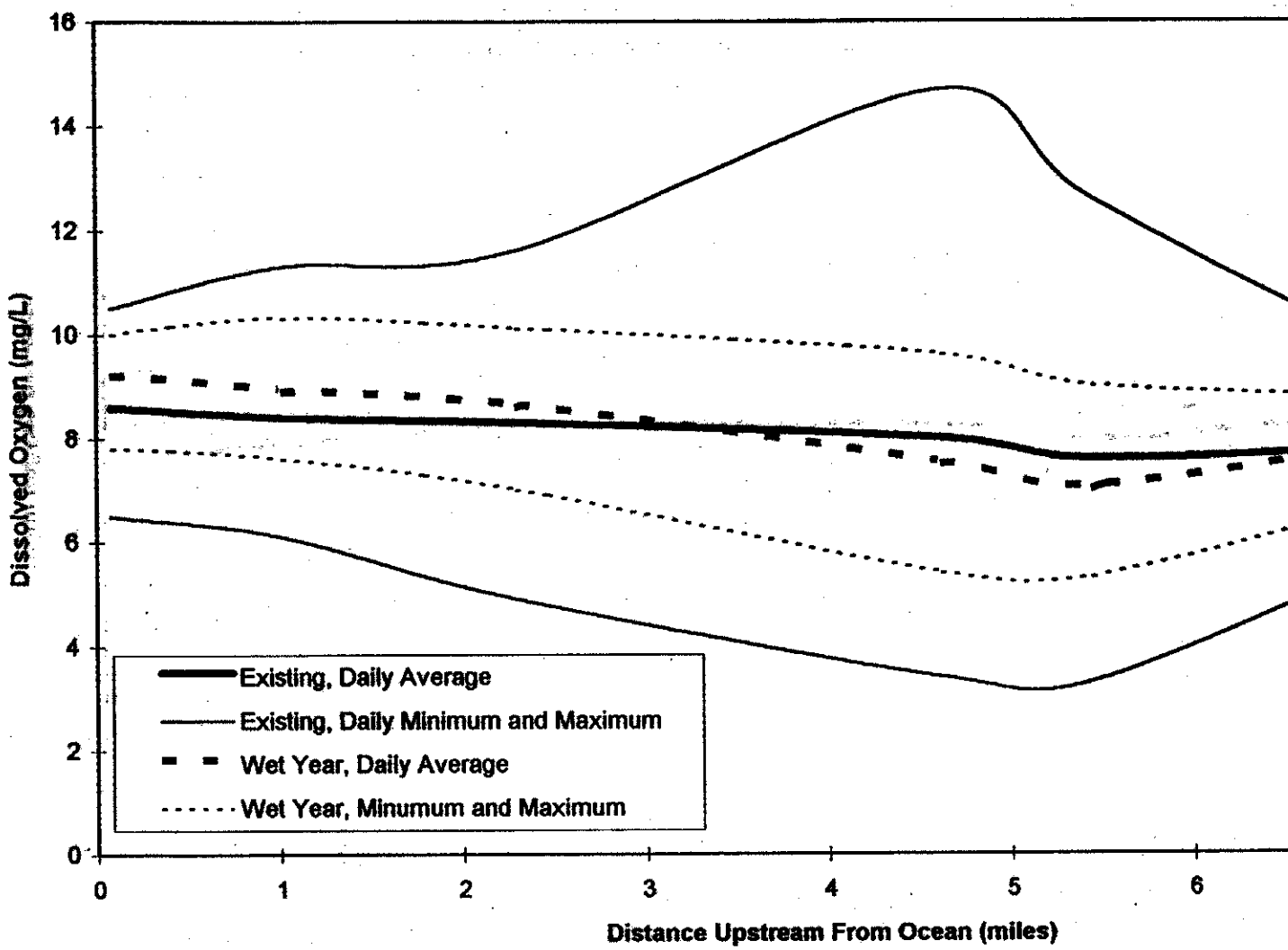


Figure 6-5.1. Irrigation and Storage Impacts on Dissolved Oxygen In Estero Amer
Spring Inflow and Bar-Open Conditions



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Spring Inflow and Bar-Open Conditions

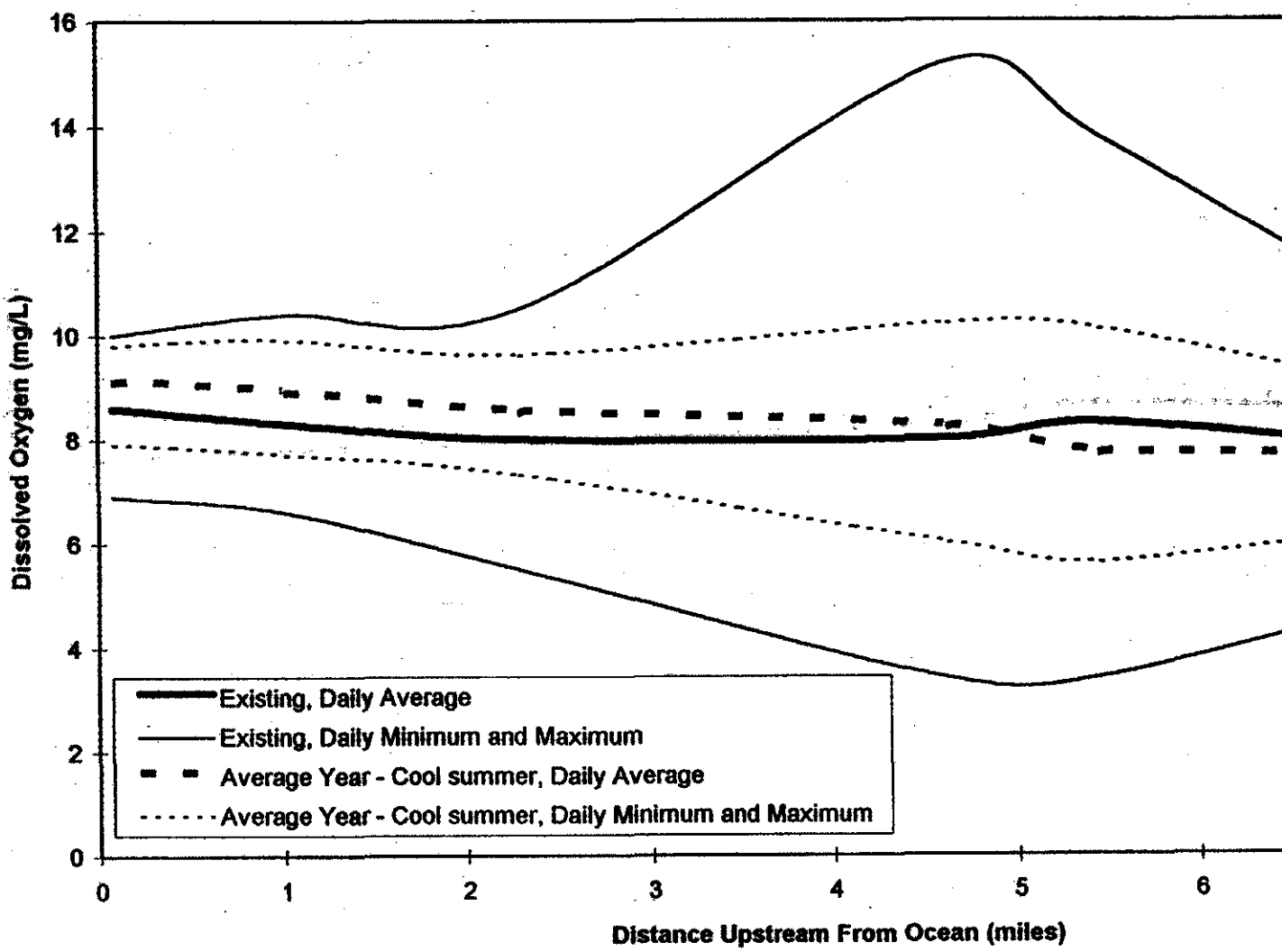


Figure 6-5.3. Irrigation and Storage Impacts on Dissolved Oxygen in Estero Americano Spring Inflow and Bar-Open Conditions

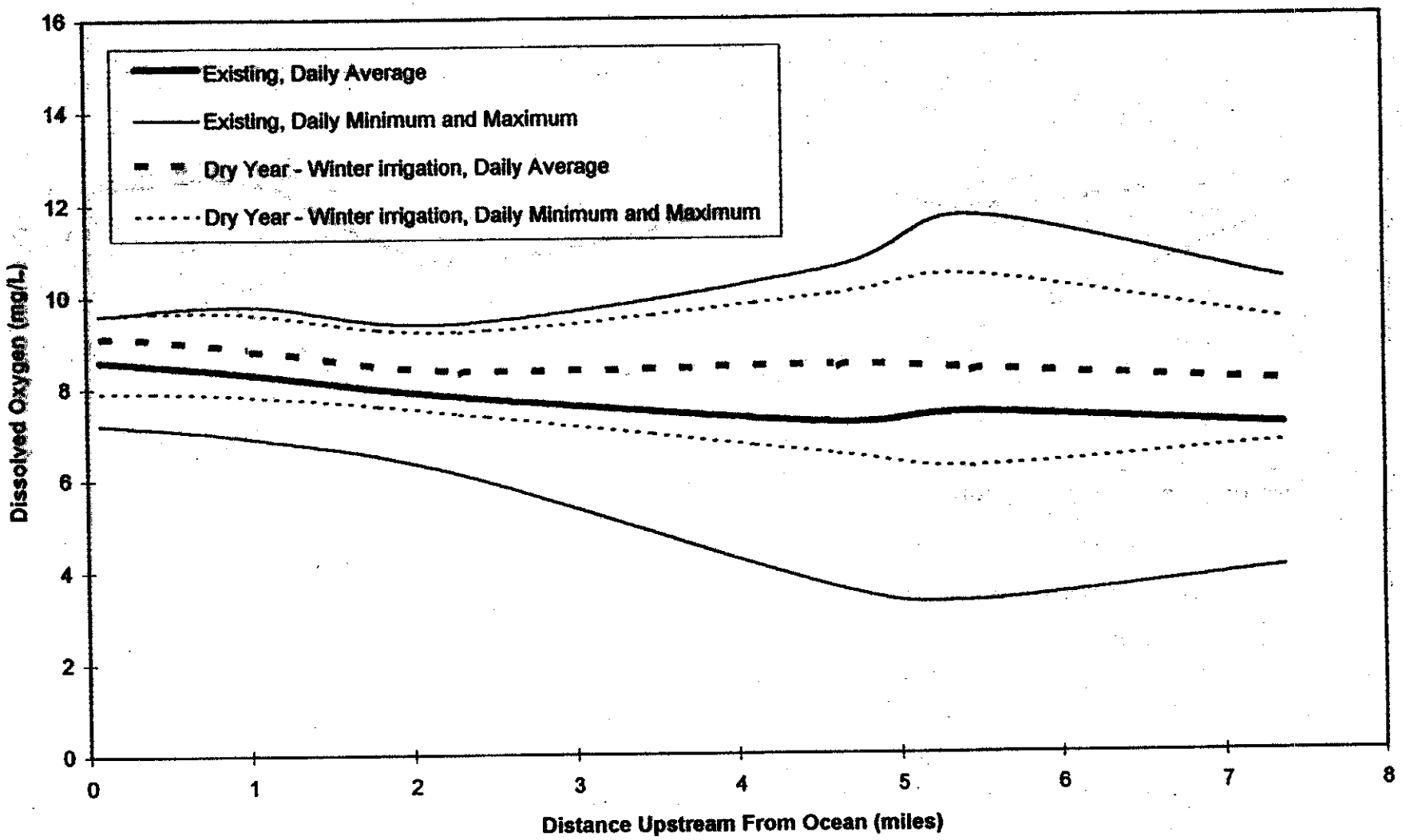


Figure 6-5.4. Irrigation and Storage Impacts on Dissolved Oxygen In Estero Americano Spring Inflow and Bar-Closed Conditions

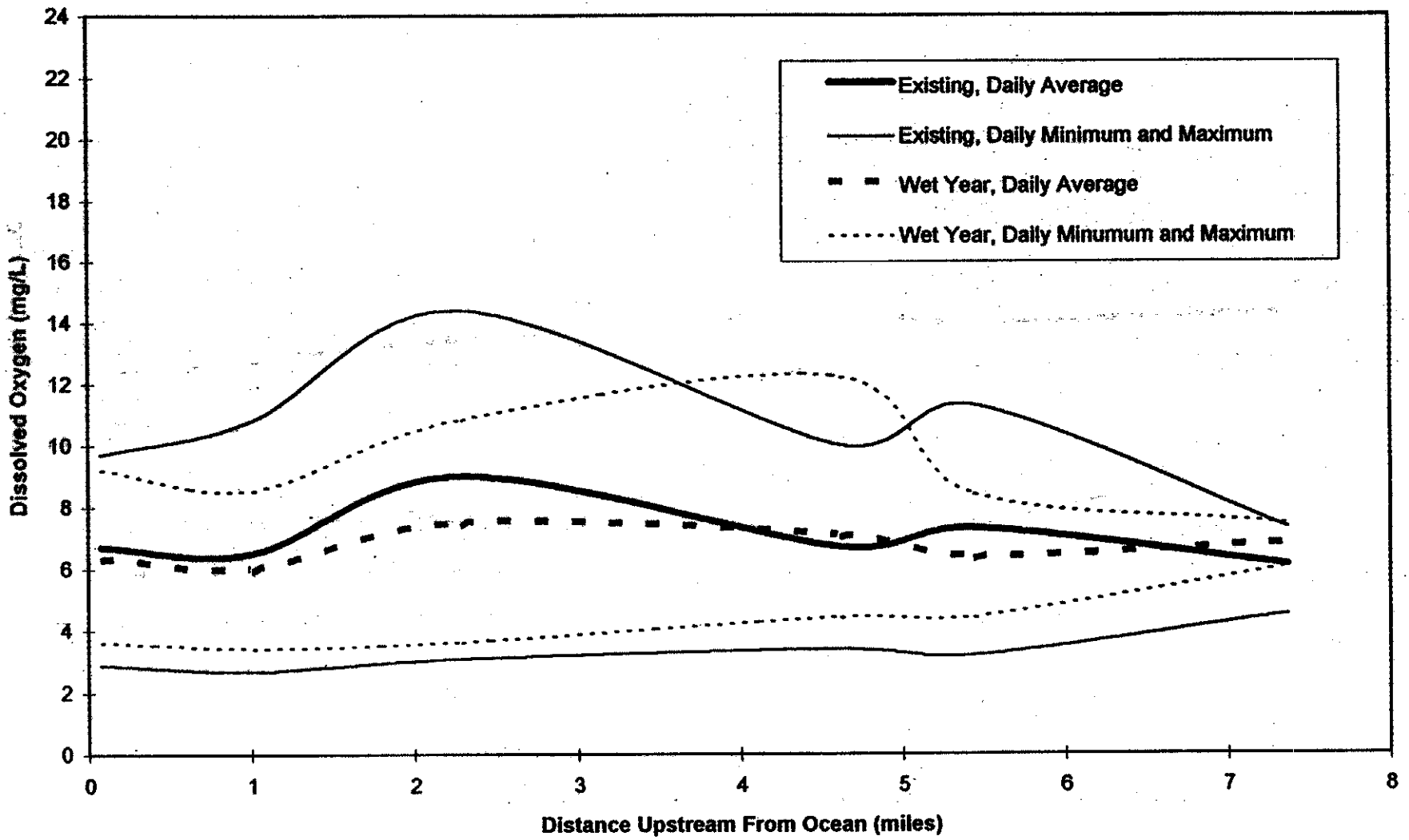


Figure 6-5.5. Irrigation and Storage Impacts on Dissolved Oxygen in Estero Amer
Spring Inflow and Bar-Closed Conditions

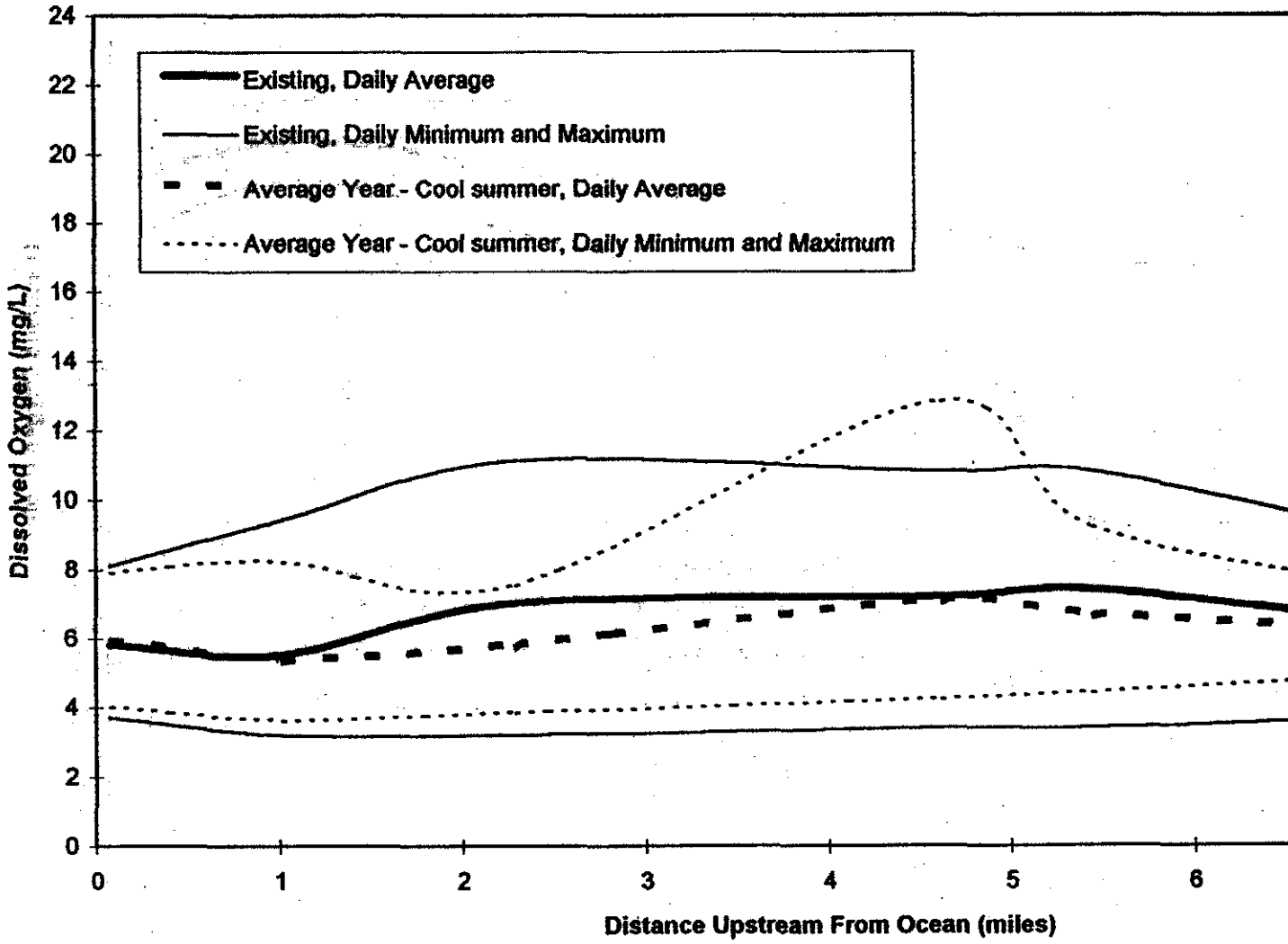


Figure 6-5.6. Irrigation and Storage Impacts on Dissolved Oxygen In Estero Ame
Spring Inflow and Bar-Closed Conditions

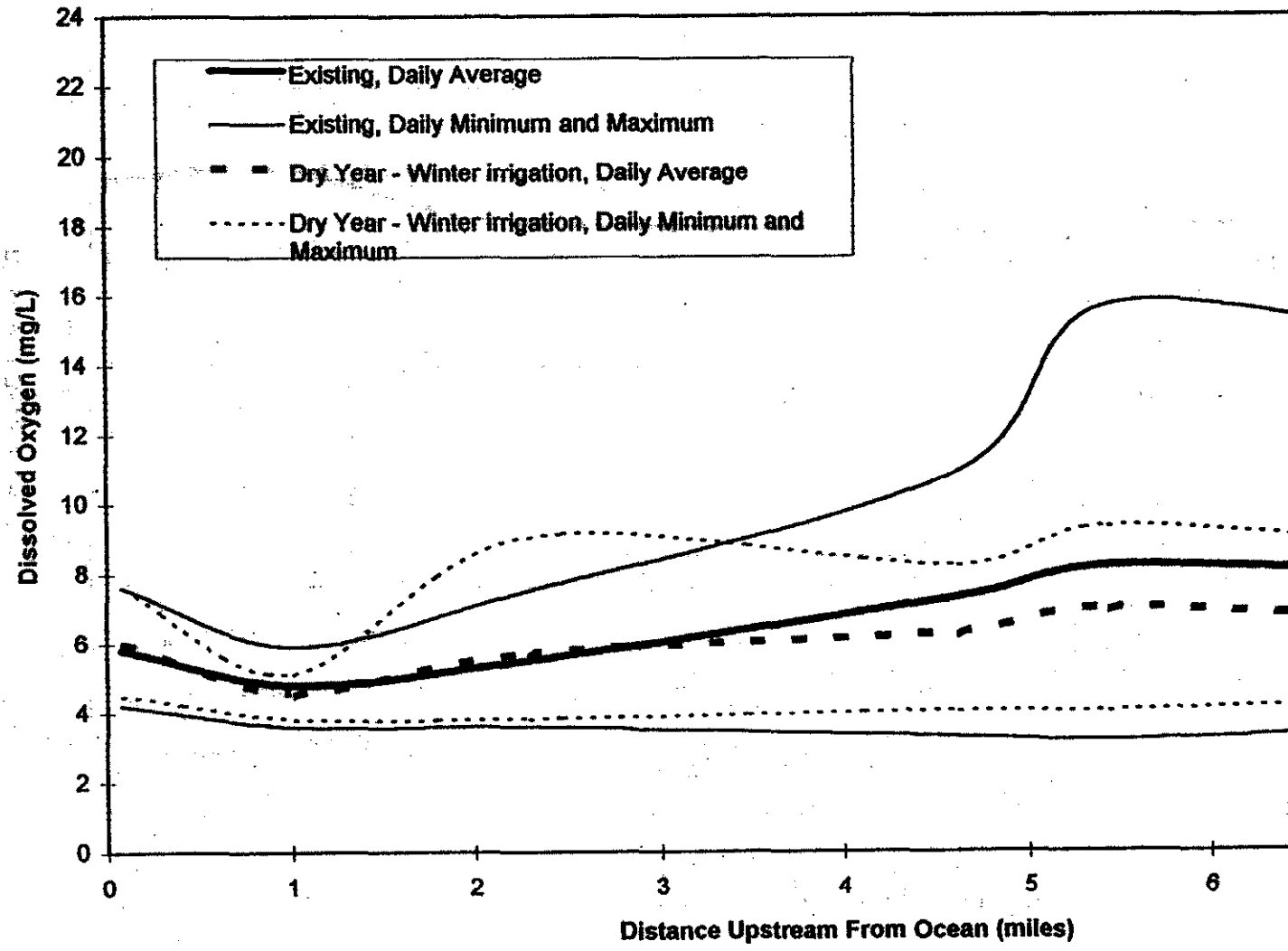
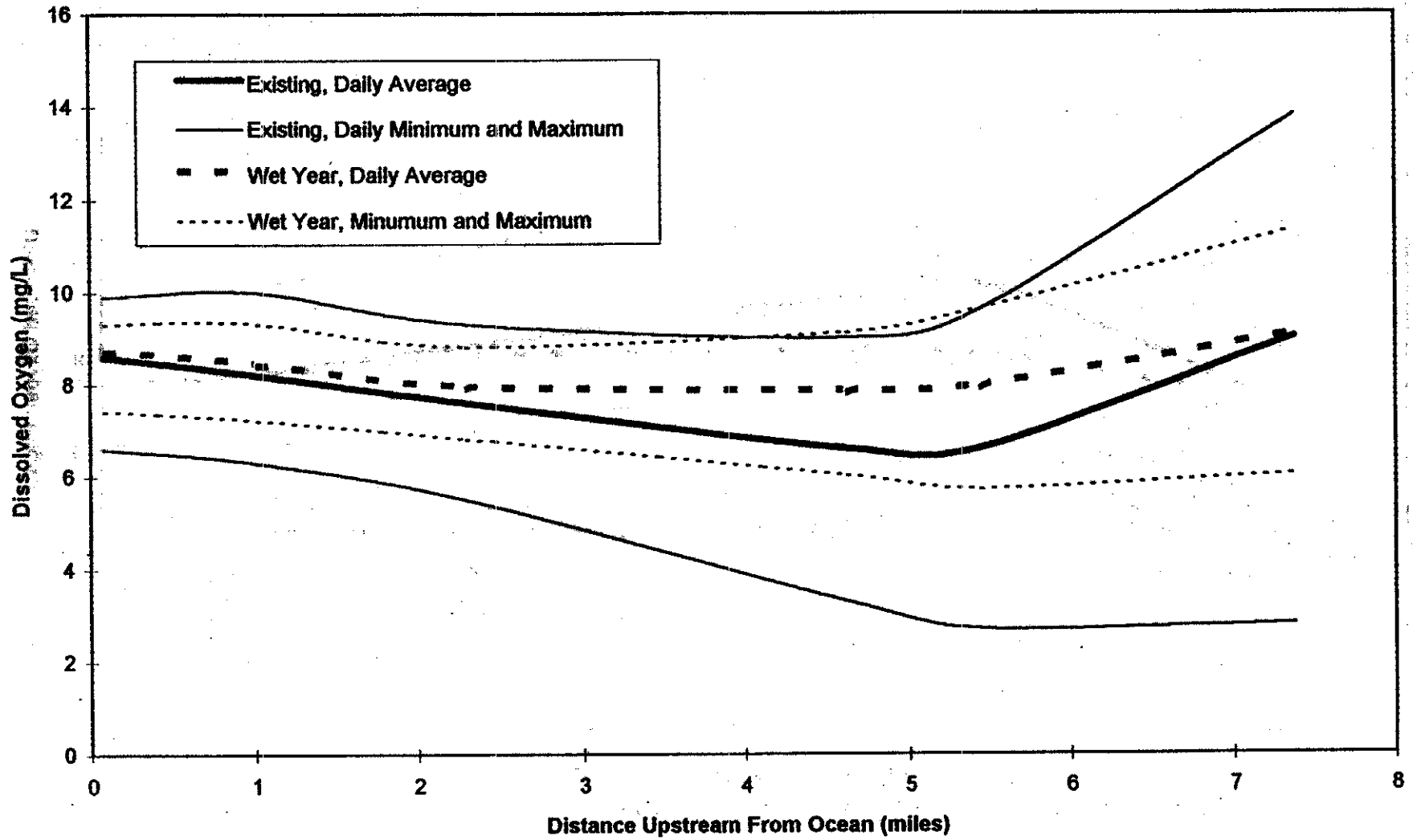


Figure 6-5.7. Irrigation and Storage Impacts on Dissolved Oxygen in Estero Americano Summer Inflow and Bar-Open Conditions



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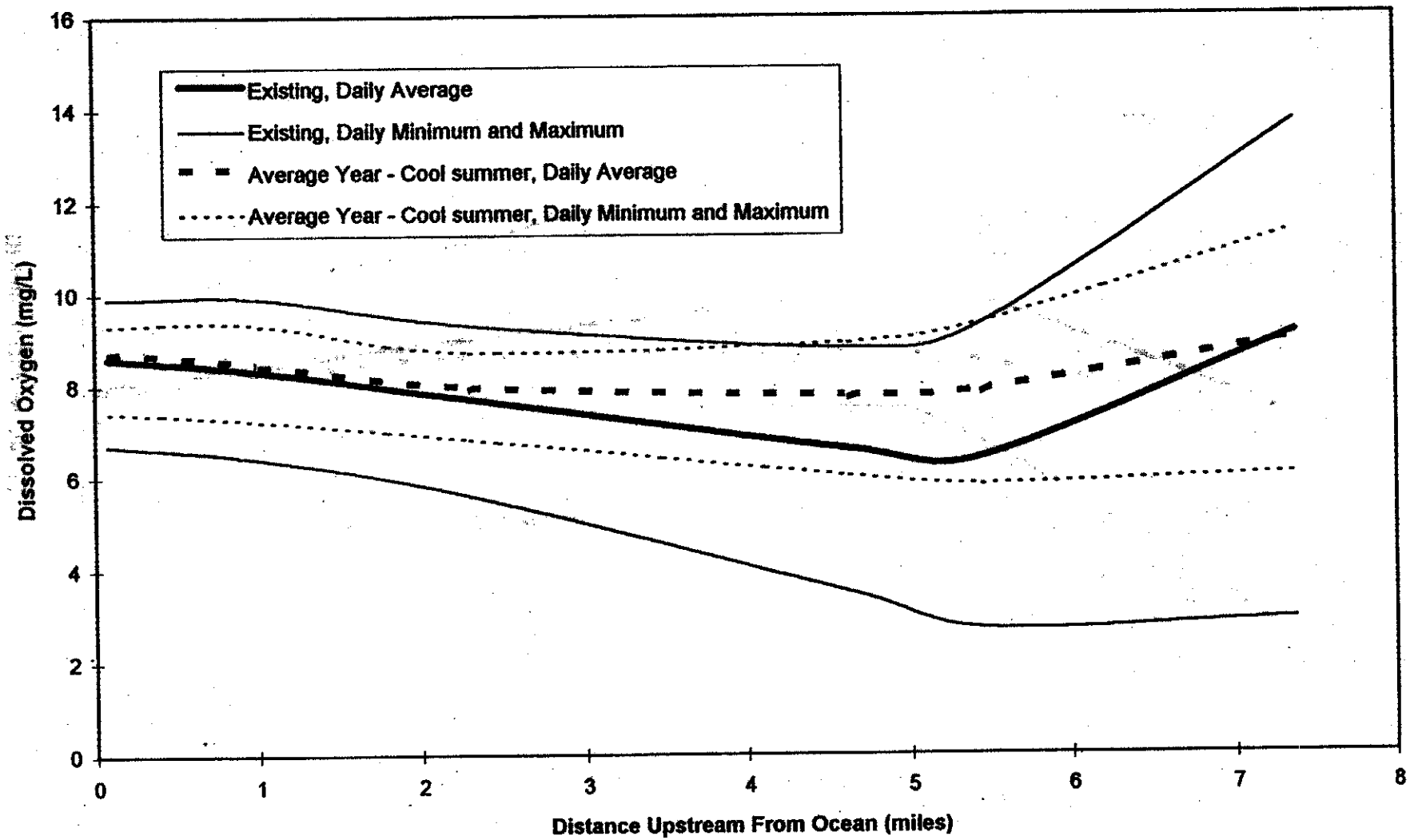


Figure 6-5.9. Irrigation and Storage Impacts on Dissolved Oxygen In Estero Ameri
Summer Inflow and Bar-Open Conditions

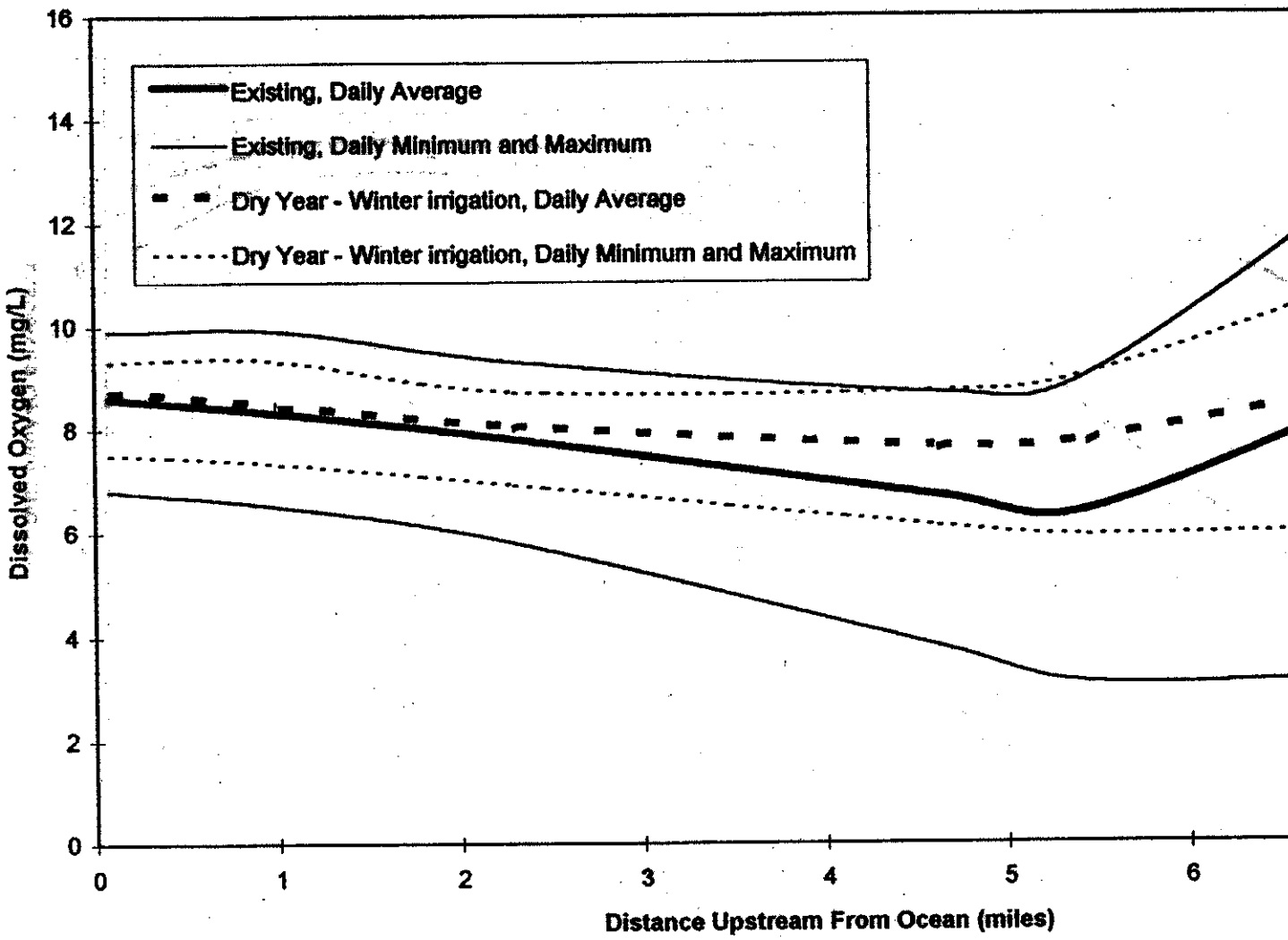


Figure 6.5.10. Irrigation and Storage Impacts on Dissolved Oxygen In Estero Ame
Summer Inflow and Bar-Closed Conditions

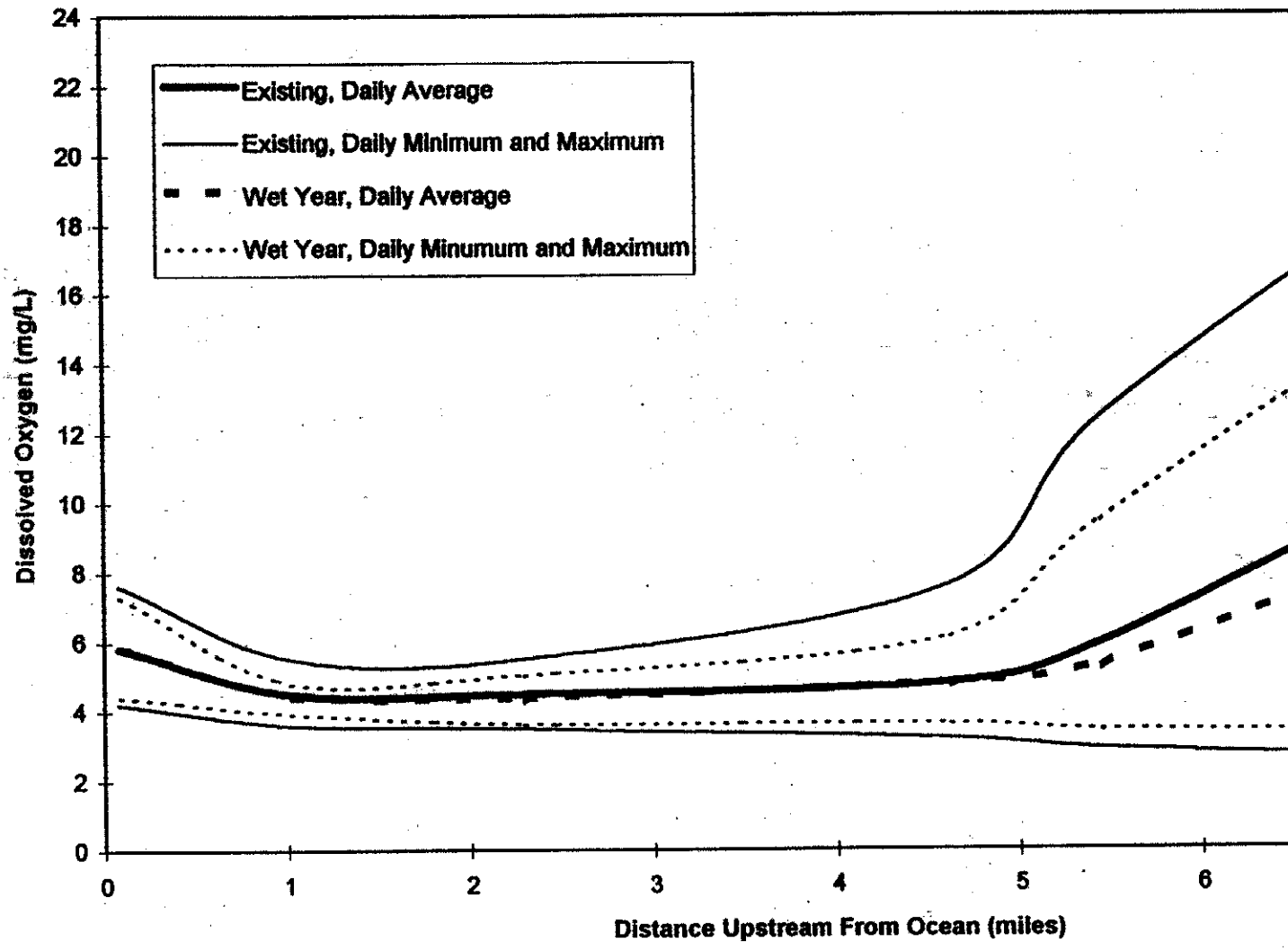
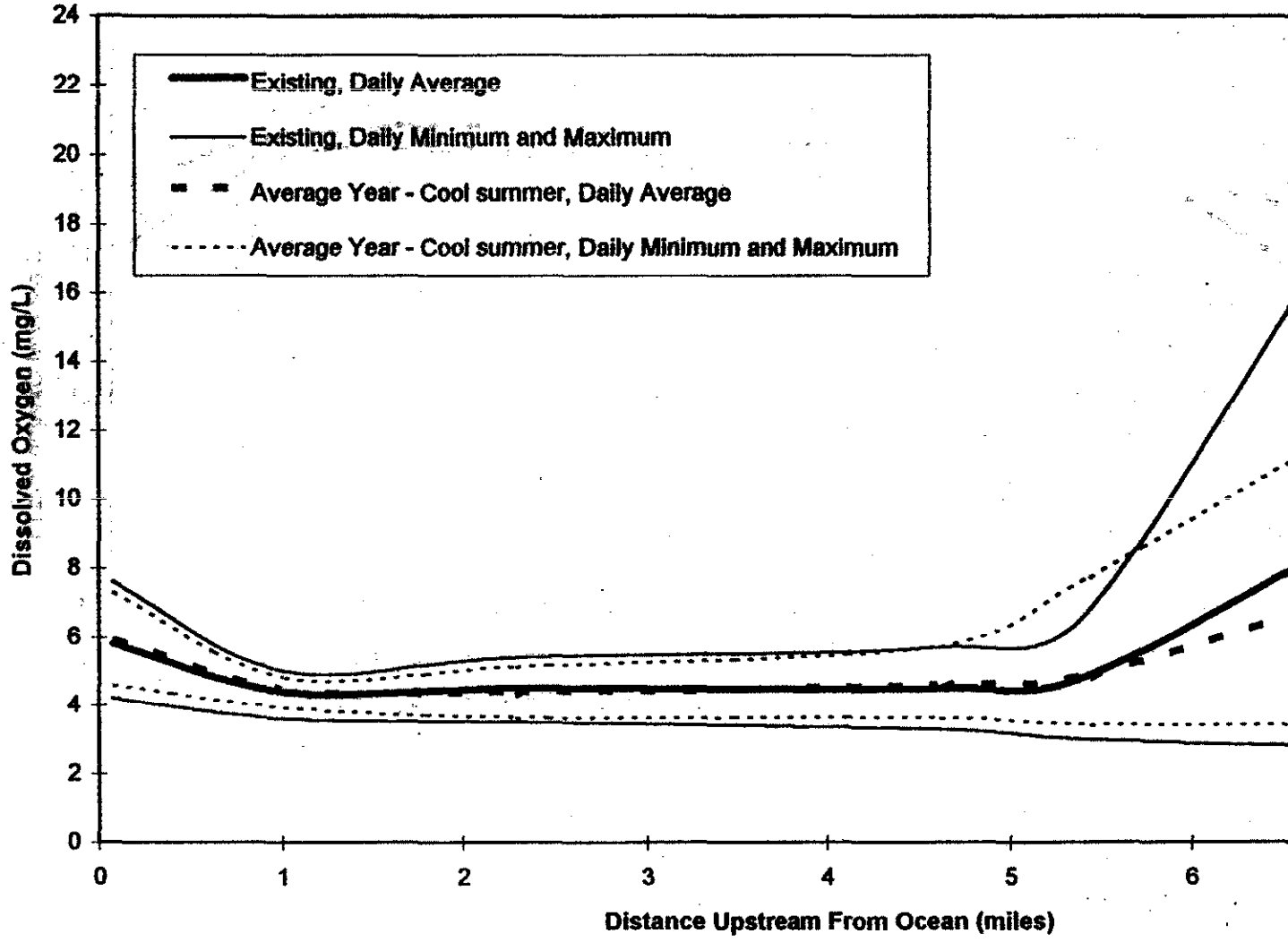


Figure 6-5.11. Irrigation and Storage Impacts on Dissolved Oxygen In Estero Ame
Summer Inflow and Bar-Closed Conditions



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Summer Inflow and Bar-Closed Conditions

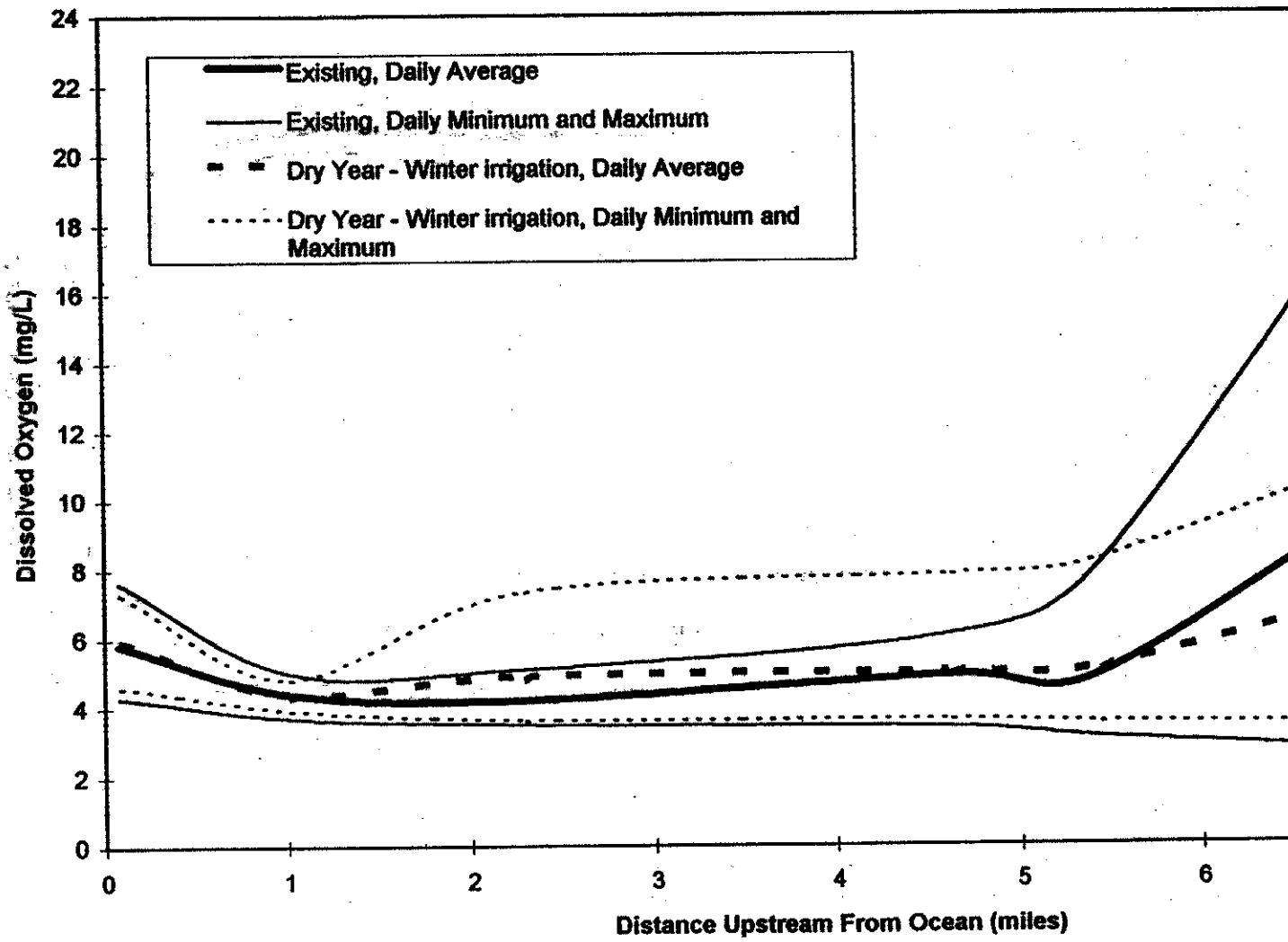

Figure 6-5.13. Irrigation and Storage Impacts on Dissolved Oxygen in Estero de San
Spring Inflow and Bar-Open Conditions

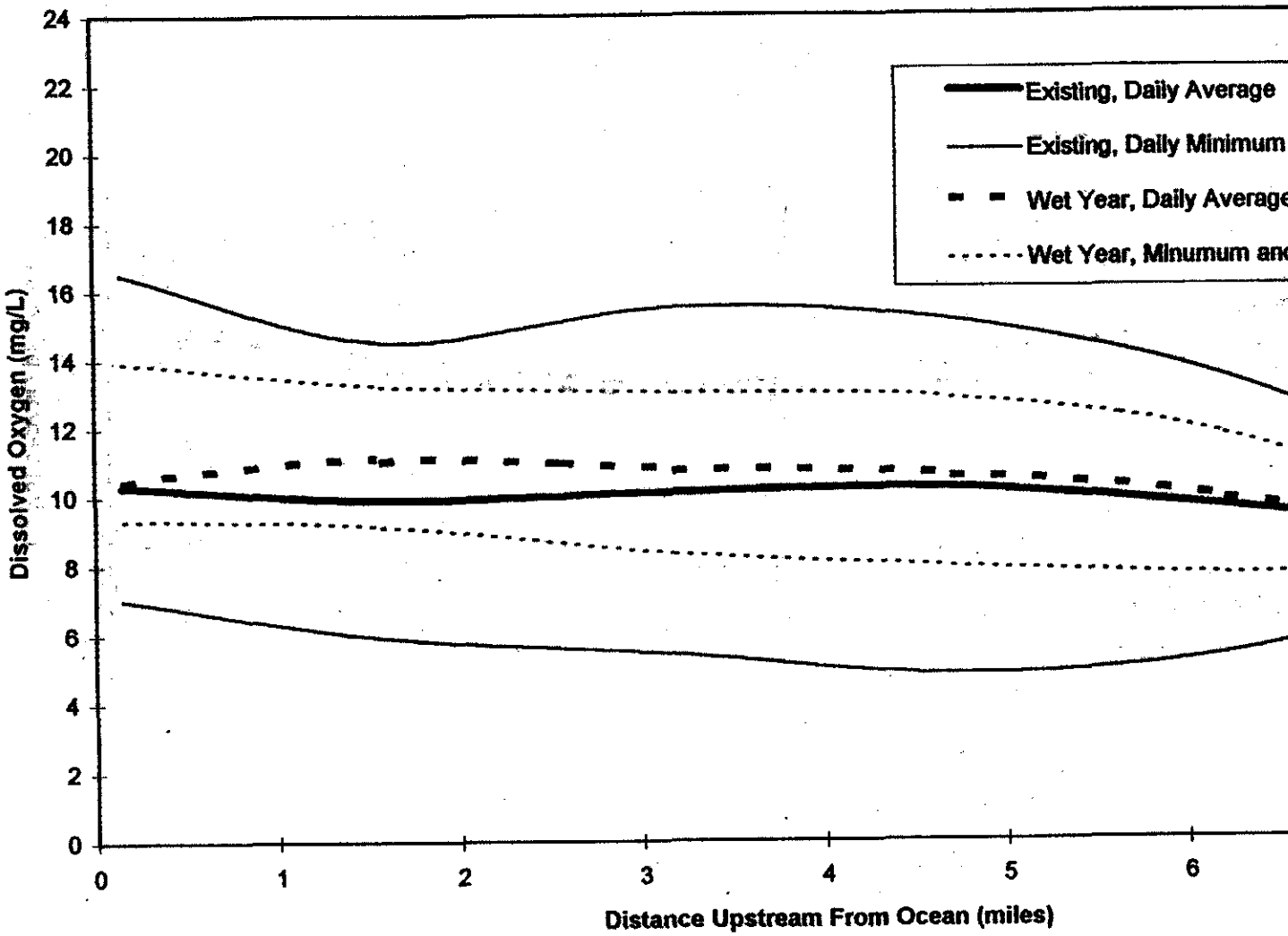

Figure 6-5.14. Irrigation and Storage Impacts on Dissolved Oxygen In Estero de San Antonio Spring Inflow and Bar-Open Conditions

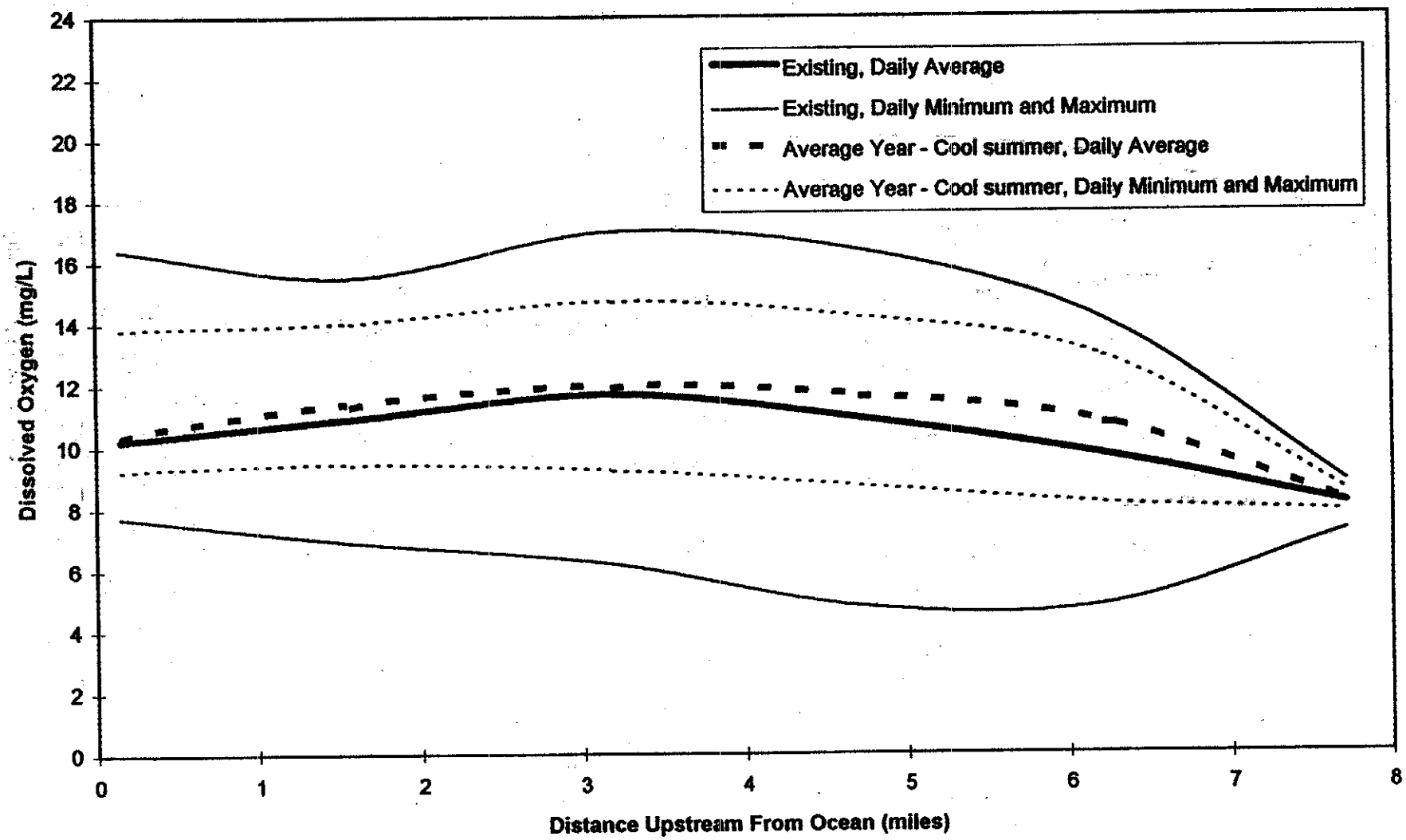

**Figure 6-5.15. Irrigation and Storage Impacts on Dissolved Oxygen In Estero de San
Spring Inflow and Bar-Open Conditions**

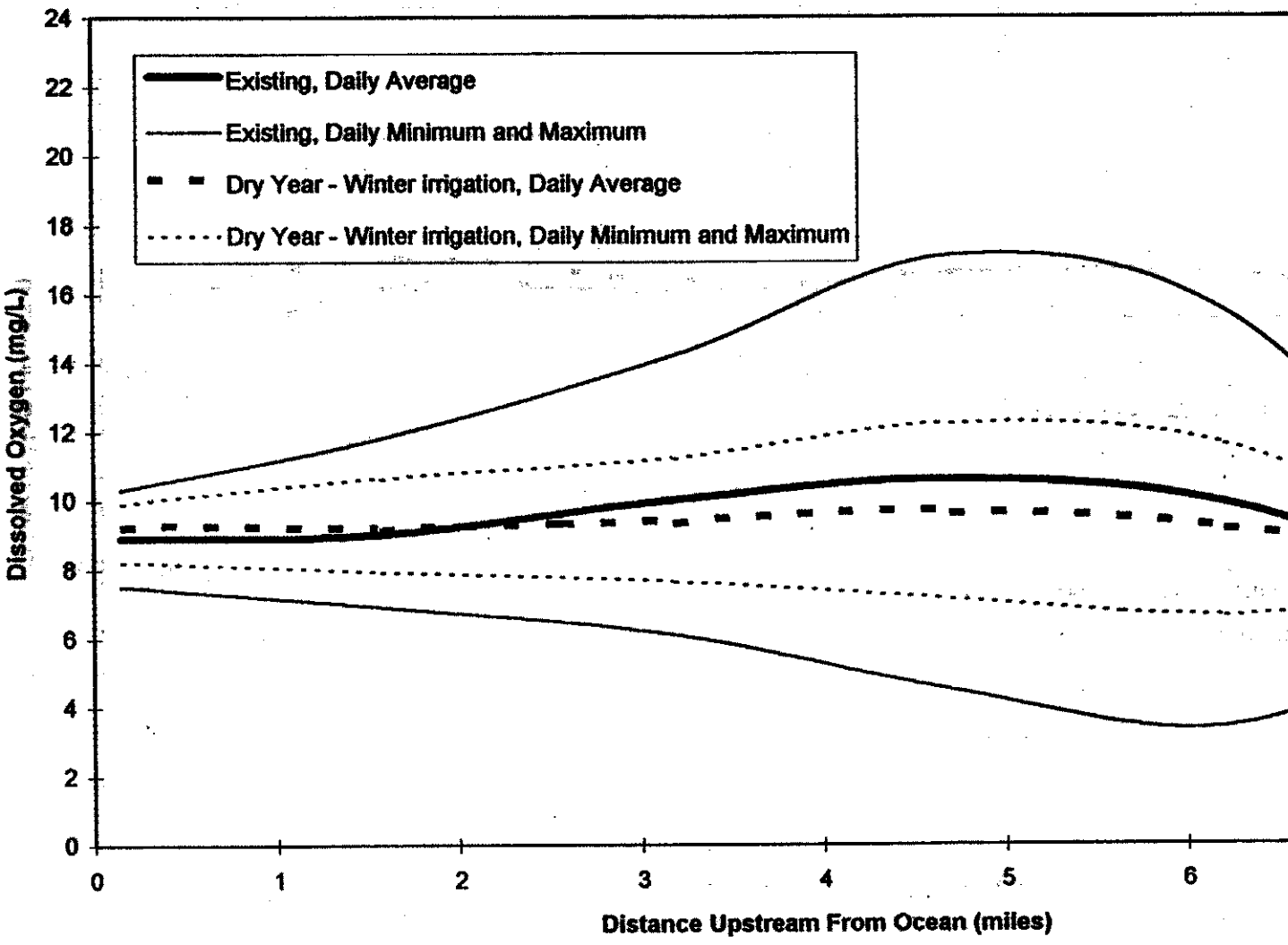

Figure 6-5.16. Irrigation and Storage Impacts on Dissolved Oxygen in Estero de Sa
Spring Inflow and Bar-Closed Conditions

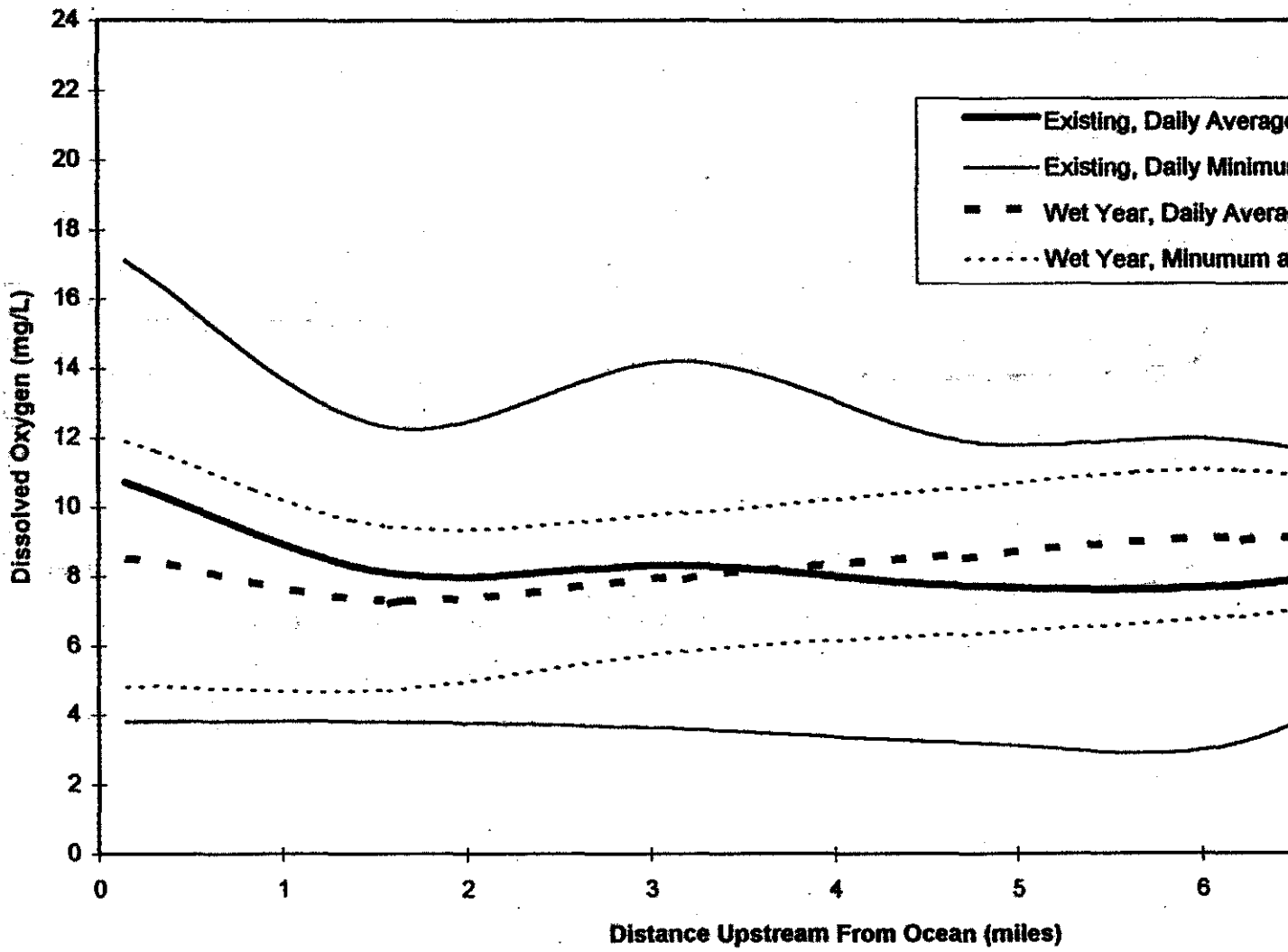

Figure 6-5.17. Irrigation and Storage Impacts on Dissolved Oxygen In Estero de San
Spring Inflow and Bar-Closed Conditions

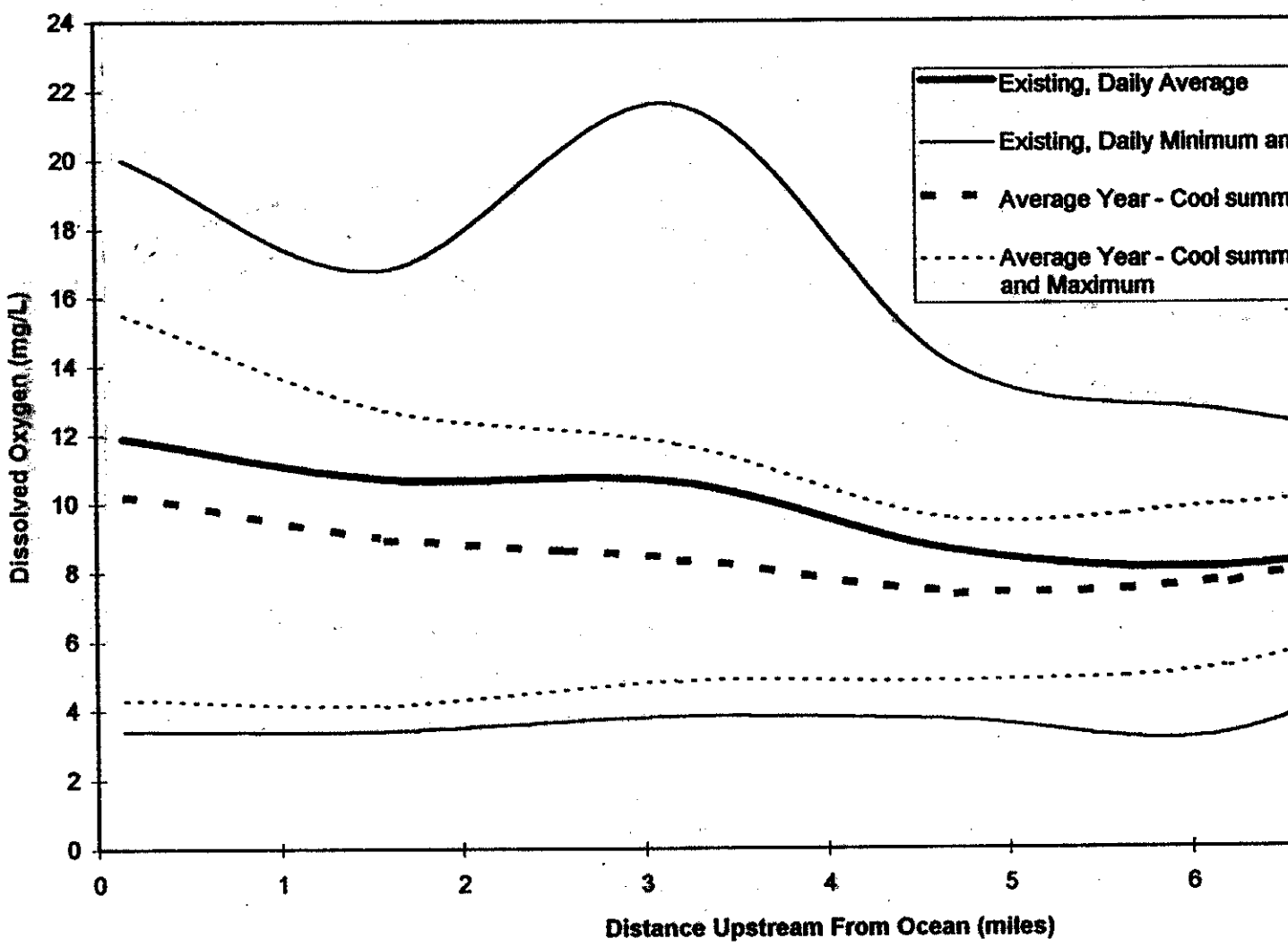

Figure 6-5.18. Irrigation and Storage Impacts on Dissolved Oxygen in Estero de Sa
Spring Inflow and Bar-Closed Conditions

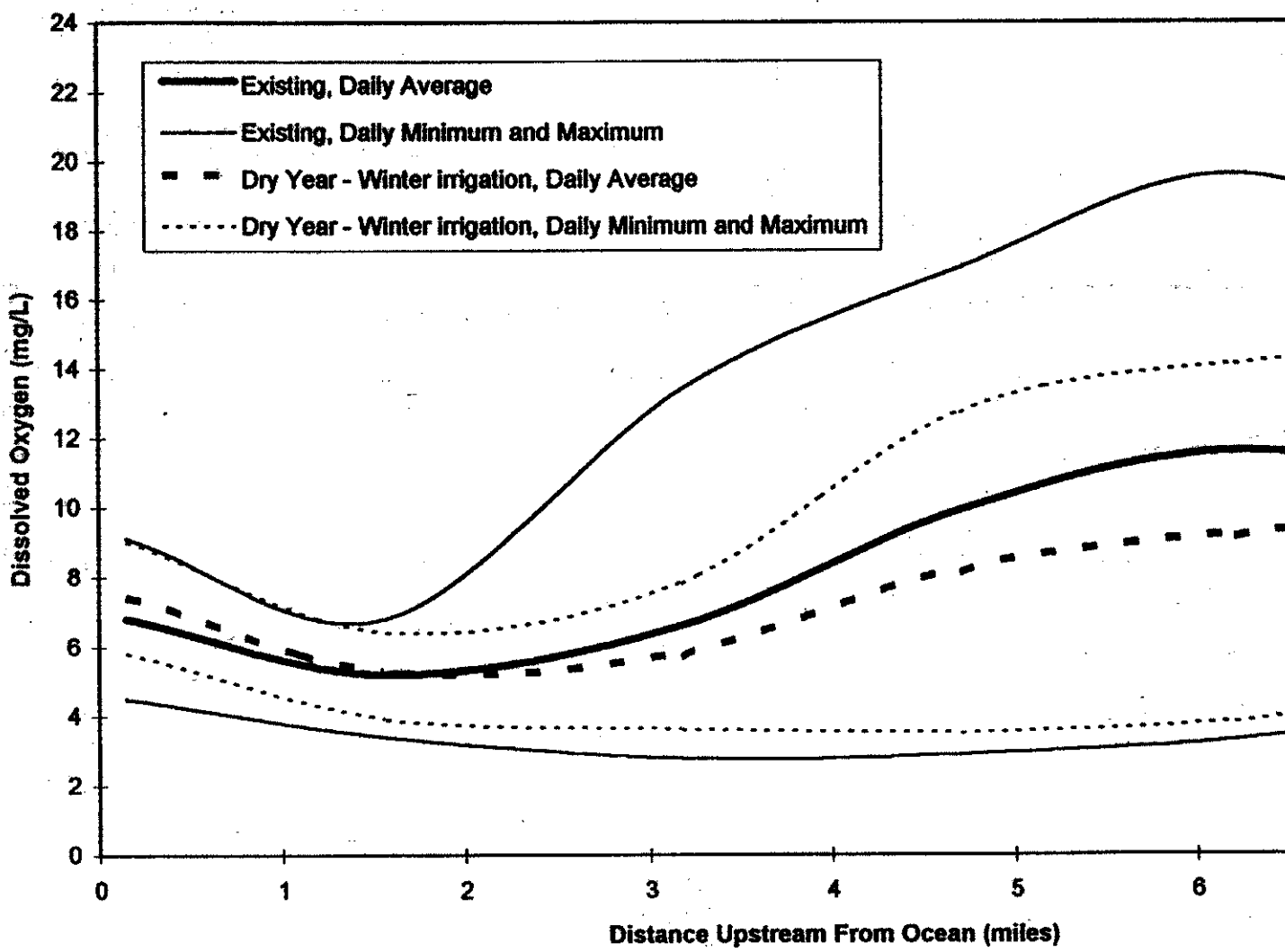

Figure 6-5.19. Irrigation and Storage Impacts on Dissolved Oxygen in Estero de San
Summer Inflow and Bar-Open Conditions

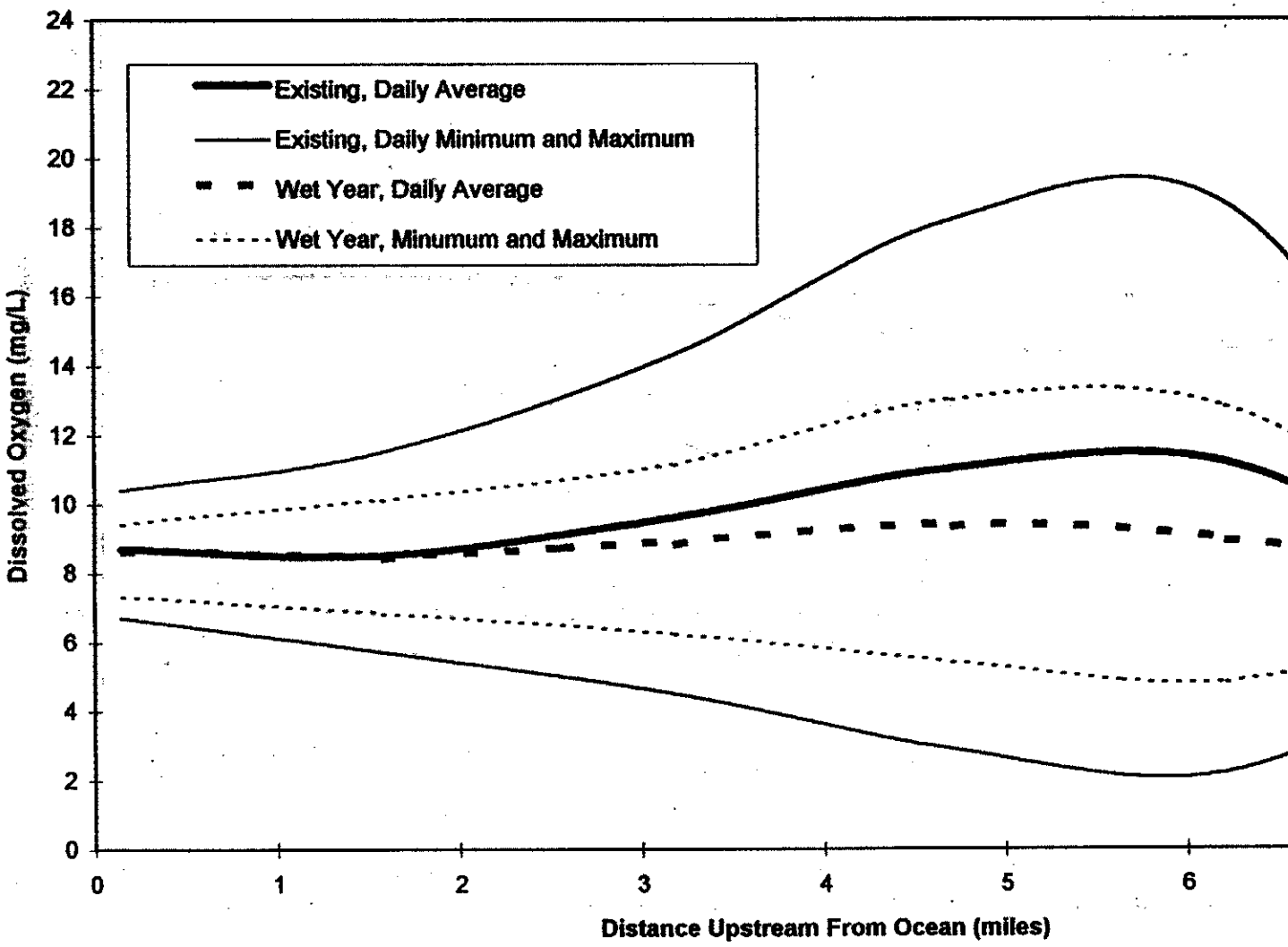

Figure 6-5.20. Irrigation and Storage Impacts on Dissolved Oxygen In Estero de San Antonio Summer Inflow and Bar-Open Conditions

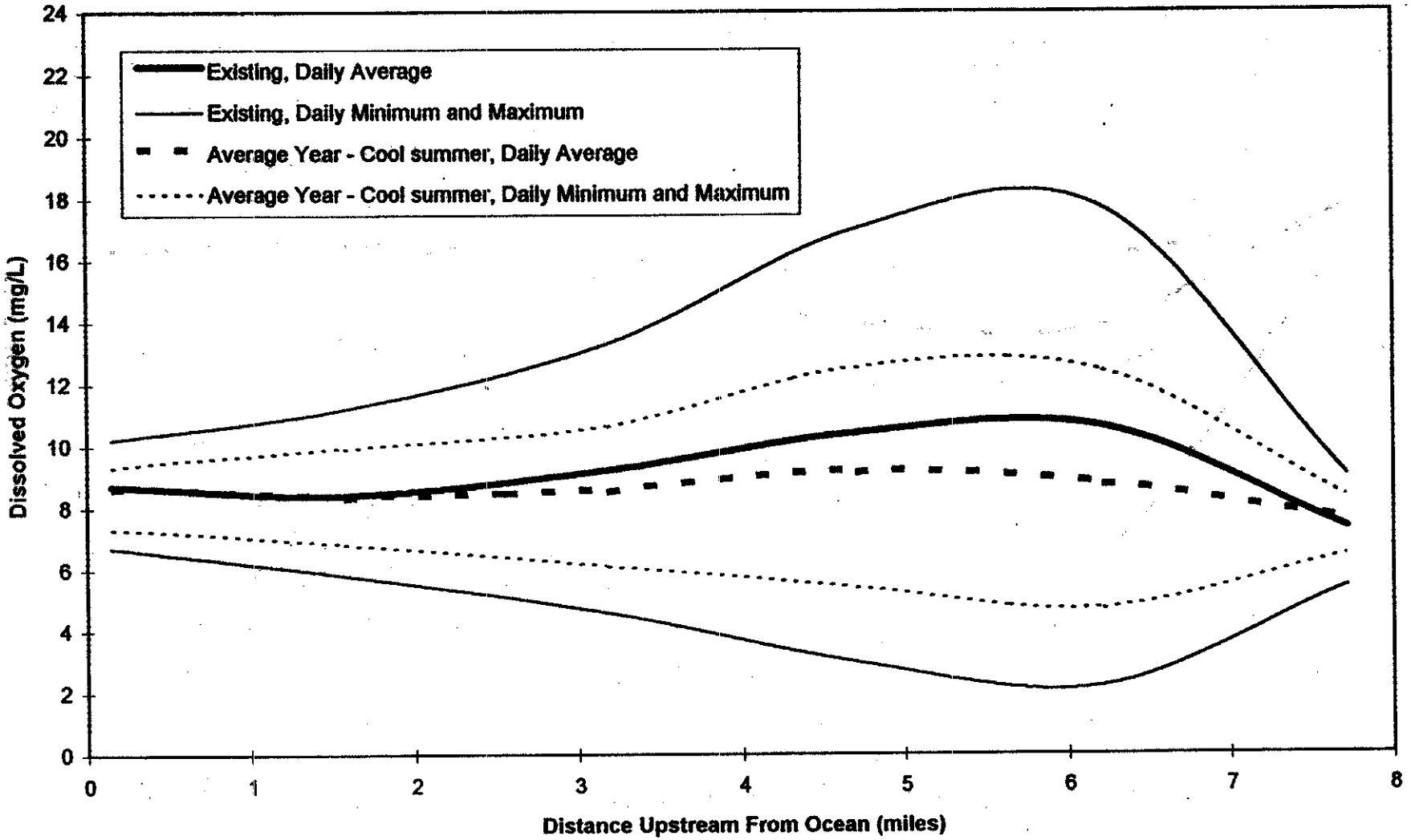

Figure 6-5.21. Irrigation and Storage Impacts on Dissolved Oxygen In Estero de San Antonio Summer Inflow and Bar-Open Conditions

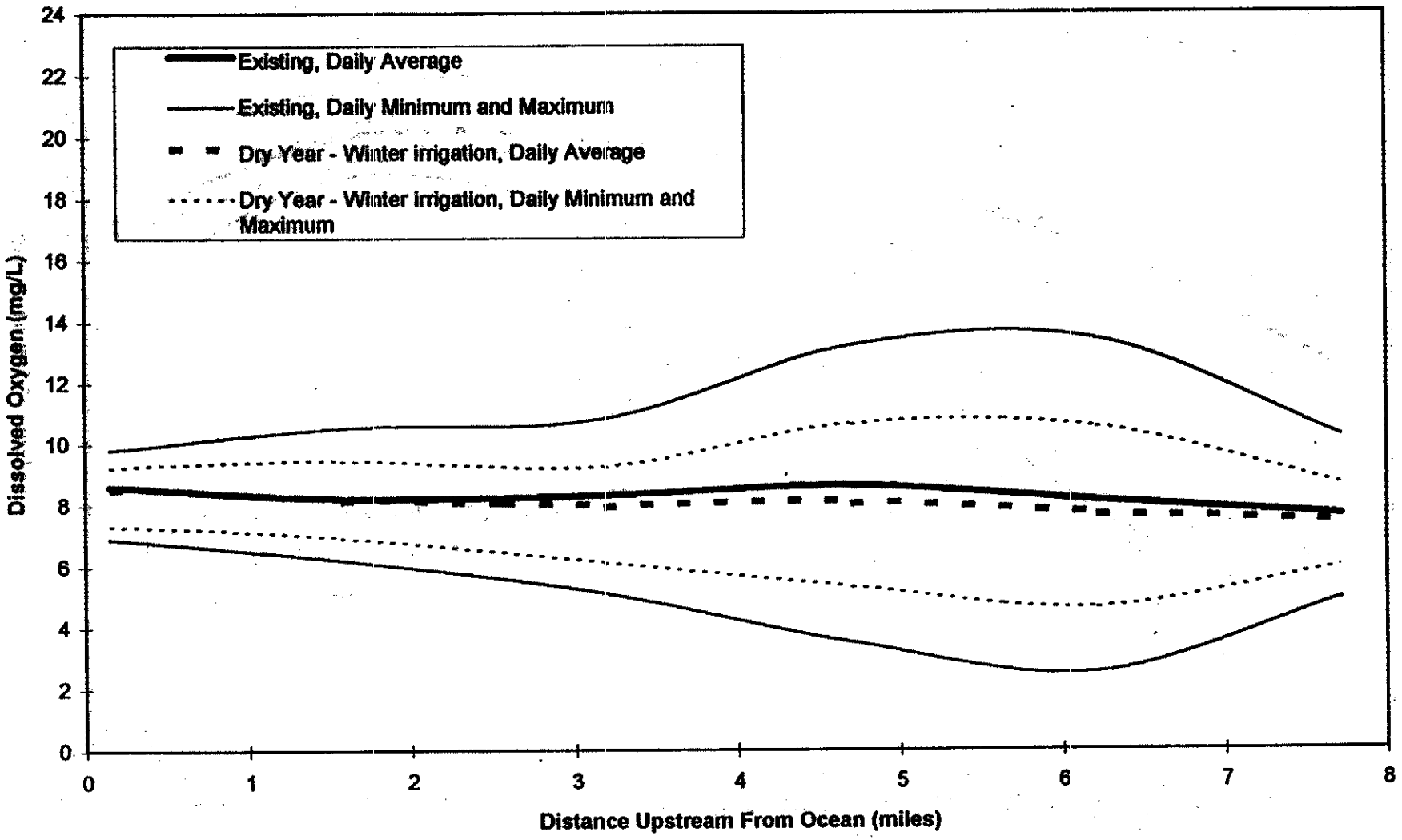

Figure 6-5.22. Irrigation and Storage Impacts on Dissolved Oxygen in Estero de San Antonio Summer Inflow and Bar-Closed Conditions

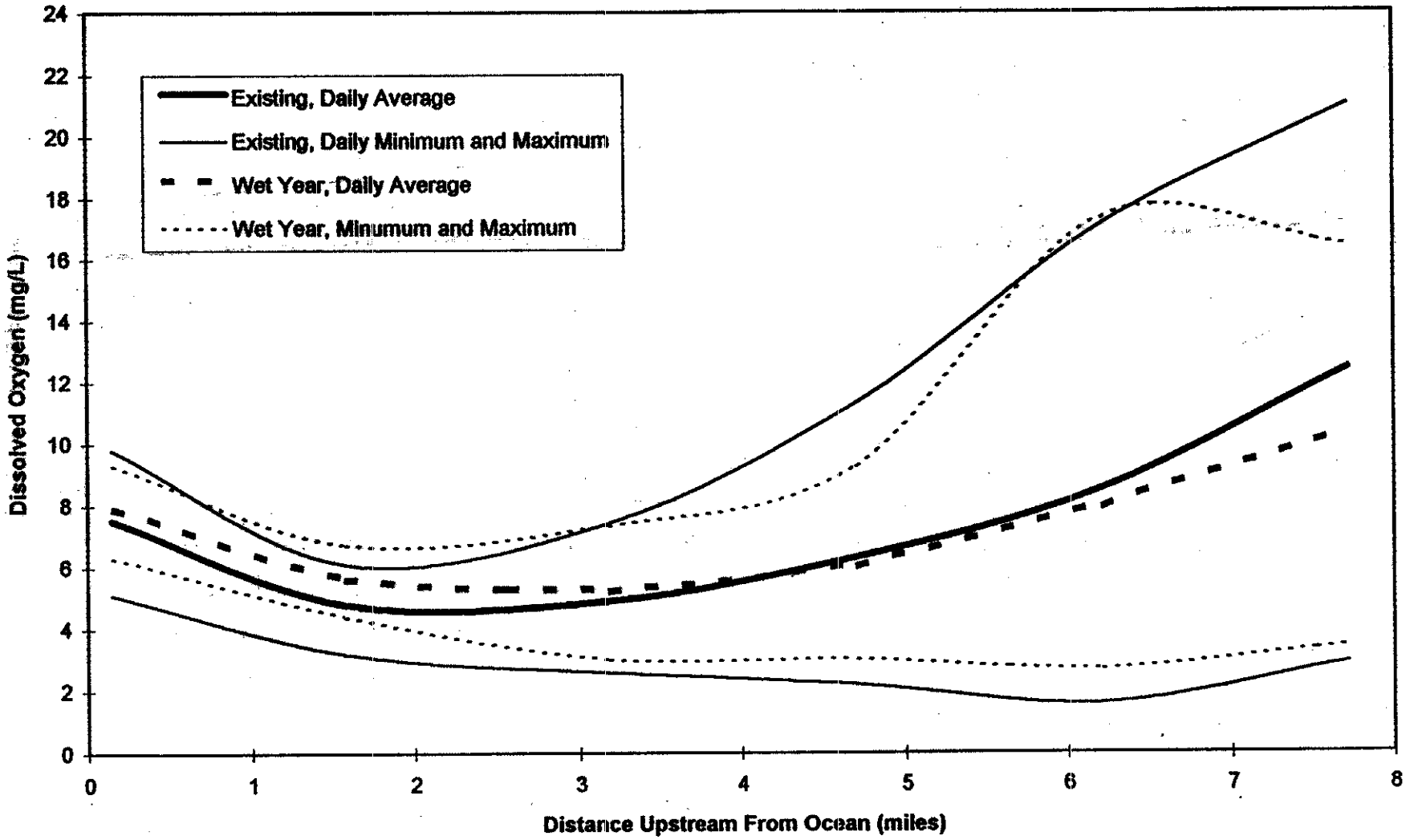

Figure 6-5.23. Irrigation and Storage Impacts on Dissolved Oxygen In Estero de San
Summer Inflow and Bar-Closed Conditions

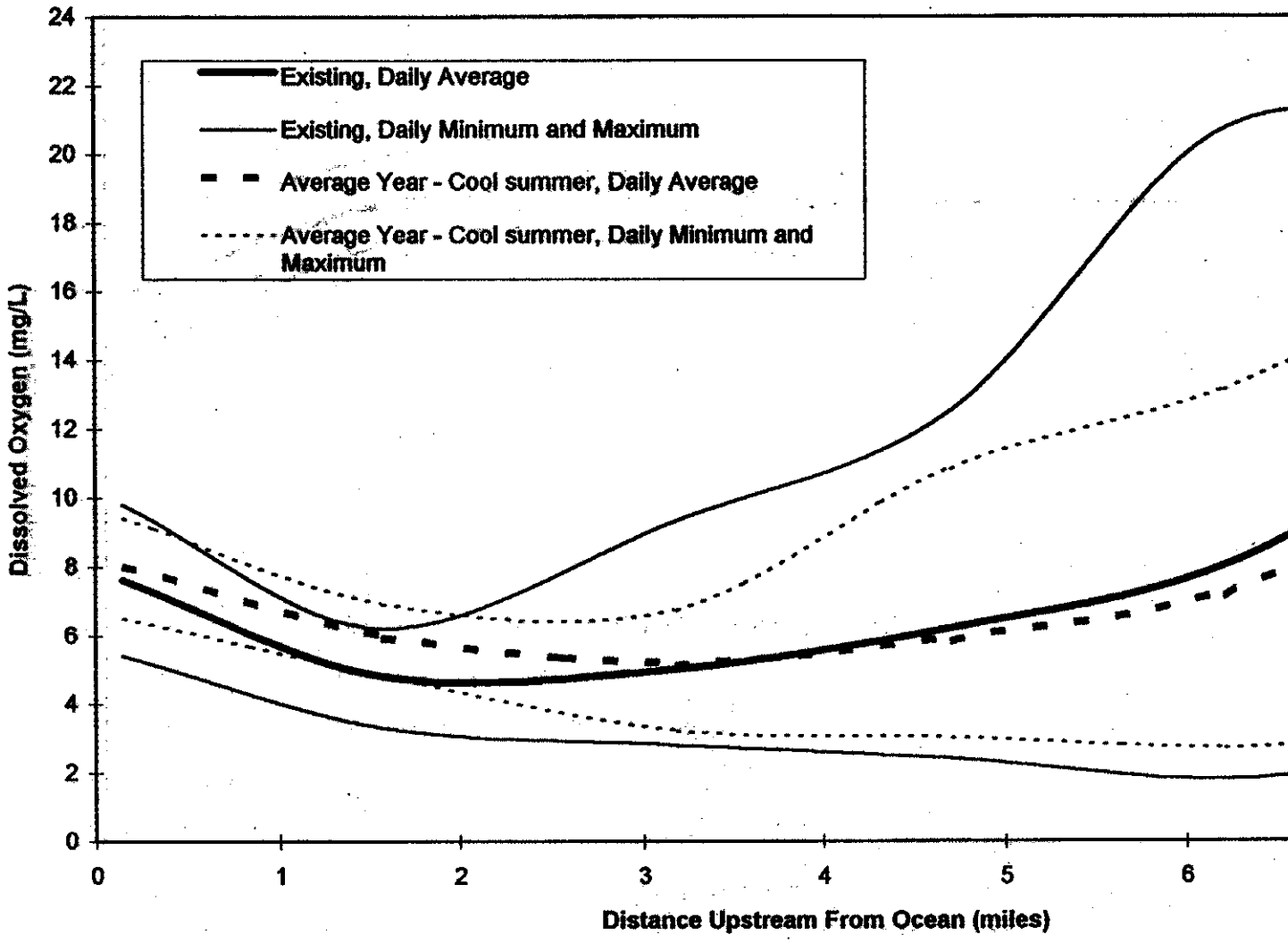

Figure 6-5.24. Irrigation and Storage Impacts on Dissolved Oxygen in Estero de San
Summer Inflow and Bar-Closed Conditions