

Note to Reader: This is a revised working draft prepared by the BDCP consultants. This document is currently undergoing review by the Department of Water Resources with input from the Department of Fish and Game, U.S. Fish and Wildlife Service, National Marine Fisheries Service, and U.S. Bureau of Reclamation and does not necessarily reflect the position of the state or federal agencies. It is expected to go through several more revisions prior to being released for formal public review and comment in 2012. All members of the public will have an opportunity to provide comments on the public draft of a revised version of this document during the formal public review and comment period. Responses will be prepared only on comments submitted in the formal public review and comment period.

Implementation Costs and Funding Sources

Chapter 8

1 **Table 8-50. Cost Estimate of BDCP Capital Outlays in Five-Year Increments (2010 Dollars)**

| | Plan Year | | | | | | | | | |
|---------------------------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 |
| Low Estimate (millions) | | | | | | | | | | |
| Water Conveyance ^a | \$5,170 | \$7,521 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Natural Community Restoration | \$546 | \$514 | \$442 | \$295 | \$297 | \$297 | \$285 | \$284 | \$2 | \$2 |
| Other Stressors | \$27 | \$0 | \$4 | \$0 | \$0 | \$4 | \$0 | \$0 | \$4 | \$0 |
| Total Capital Outlays | \$5,743 | \$8,035 | \$446 | \$295 | \$297 | \$301 | \$285 | \$284 | \$6 | \$2 |
| | Plan Year | | | | | | | | | |
| High Estimate (millions) | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 |
| Water Conveyance ^a | \$5,170 | \$7,521 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Natural Community Restoration | \$741 | \$680 | \$608 | \$367 | \$369 | \$370 | \$355 | \$354 | \$3 | \$3 |
| Other Stressors | \$33 | \$0 | \$5 | \$0 | \$0 | \$5 | \$0 | \$0 | \$5 | \$0 |
| Total Capital Outlays | \$5,944 | \$8,201 | \$613 | \$367 | \$369 | \$375 | \$355 | \$354 | \$8 | \$3 |

^a CMI: Midpoint estimate

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Implementation Costs and Funding Sources

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1 **Table 8-51. Cost Estimate of BDCP Operating Outlays in 5-Year Increments (2010 Dollars)**

| | Plan Year | | | | | | | | | |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 |
| Low Estimate (millions) | | | | | | | | | | |
| Water Conveyance ^a | \$10 | \$10 | \$192 | \$192 | \$422 | \$422 | \$422 | \$422 | \$422 | \$422 |
| Natural Community Restoration | \$15 | \$28 | \$32 | \$38 | \$42 | \$45 | \$49 | \$55 | \$59 | \$59 |
| Other Stressors | \$83 | \$101 | \$105 | \$111 | \$117 | \$123 | \$128 | \$134 | \$136 | \$136 |
| Program Oversight | \$46 | \$47 | \$52 | \$53 | \$54 | \$59 | \$61 | \$61 | \$59 | \$56 |
| Total Operating Outlays | \$154 | \$186 | \$381 | \$394 | \$635 | \$649 | \$660 | \$672 | \$676 | \$673 |
| | Plan Year | | | | | | | | | |
| High Estimate (millions) | 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 |
| Water Conveyance ^a | \$10 | \$10 | \$192 | \$192 | \$422 | \$422 | \$422 | \$422 | \$422 | \$422 |
| Habitat Restoration | \$18 | \$34 | \$40 | \$48 | \$52 | \$57 | \$62 | \$69 | \$74 | \$74 |
| Other Stressors | \$104 | \$132 | \$143 | \$155 | \$167 | \$178 | \$189 | \$201 | \$205 | \$205 |
| Program Oversight | \$57 | \$60 | \$66 | \$69 | \$71 | \$79 | \$83 | \$84 | \$81 | \$77 |
| Total Operating Outlays | \$189 | \$236 | \$441 | \$464 | \$712 | \$736 | \$756 | \$776 | \$782 | \$778 |

^a Midpoint estimate

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Implementation Costs and Funding Sources

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Table 8-52. Funding Estimate Summary by Entity, Sources, and Plan Component¹

[Note to reader: Funding commitments from state and federal water contractors are under discussion. All values in this table are preliminary.]

| Funding Source ³ | Estimated Funding Relevant to BDCP, by Plan Component (in millions \$) ² | | | | | | Total | % |
|--|---|--|---|---|---|--|---------|-------|
| | Program Administration | Monitoring, Research, Adaptive Management, and Remedial Measures | Water Facilities and Operations (CM1, CM22) | Natural Community Protection and Management (CM3, CM11) | Natural Community Restoration (CM2, CM4-10, CM12) | Other Stressors Conservation (CM13-21) | | |
| State and Federal Water Contractors | | | | | | | | |
| State Water Contractors | TBD | TBD | \$8,467 | \$18 | \$136 | \$10 | \$8,631 | 36.5% |
| Federal Water Contractors | TBD | TBD | \$8,467 | \$18 | \$136 | \$10 | \$8,631 | 36.5% |
| U.S. Bureau of Reclamation | | | | | | | | |
| Central Valley Project Improvement Act | | | | \$12 | \$59 | \$28 | \$100 | 0.4% |
| California Bay-Delta Restoration Appropriations ⁴ | \$90 | \$909 | \$95 | | \$603 | \$230 | \$1,926 | 8.2% |
| California Department of Fish and Game | | | | | | | | |
| Ecosystem Restoration Programs ⁵ | | | | | | | | 0.0% |
| Environmental Enhancement Funds ⁵ | | | | | | | | 0.0% |
| Fisheries Restoration Grant Program | | | | | | | | 0.0% |
| Other State Funding | | | | | | | | |
| New Water Bond (2012) | | | | | | | | |
| Water System Ops Improvement | | | | | \$300 | \$300 | \$600 | 2.5% |
| Delta Sustainability | | | | | \$1,204 | \$581 | \$1,785 | 7.6% |
| Conservation/Watershed Protection | | | | \$76 | | | \$76 | 0.3% |
| Water Supply Reliability | | | | | | \$106 | \$106 | 0.4% |
| <i>Subtotal: New Water Bond</i> | | | | \$76 | \$1,504 | \$987 | \$2,567 | 10.9% |
| Proposition 1E | | | | | \$184 | | \$184 | 0.8% |
| Proposition 84 | | | | | \$42 | \$21 | \$63 | 0.3% |
| Wildlife Conservation Board | | | | \$40 | \$10 | | \$50 | 0.2% |
| Delta Stewardship Council | | \$90 | | | | | \$90 | 0.4% |

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| | Estimated Funding Relevant to BDCP, by Plan Component (in millions \$) ² | | | | | Total | % |
|---|---|--|---|---|---|-------|------|
| | Program Administration | Monitoring, Research, Adaptive Management, and Remedial Measures | Water Facilities and Operations (CM1, CM22) | Natural Community Protection and Management (CM3, CM11) | Natural Community Restoration (CM2, CM4-10, CM12) | | |
| U.S. Fish and Wildlife Service | | | | | | | |
| Cooperative Endangered Species Conservation Fund | | | | \$100 | | \$100 | 0.4% |
| Land and Water Conservation Fund | | | | \$25 | | \$25 | 0.1% |
| National Coastal Wetlands Conservation Grants | | | | | \$10 | \$10 | 0.0% |
| CA Bay-Delta Restoration Fund ⁴ | | \$54 | \$9 | \$101 | \$101 | \$266 | 1.1% |
| National Marine Fisheries Service | | | | | | | |
| Regional Ecosystem Conservation | | | | | \$5 | \$5 | 0.0% |
| Estuary Restoration Act | | | | | \$3 | \$2 | 0.0% |
| National/Regional Partnership Grants | | | | | \$7 | \$3 | 0.0% |
| CA Bay-Delta Restoration Fund ⁴ | | | \$72 | | | \$72 | 0.3% |
| U.S. Army Corps of Engineers | | | | | | | |
| Bay-Delta Fund-Related ⁴ | | \$5 | | | \$23 | \$27 | 0.1% |
| U.S. Environmental Protection Agency | | | | | | | |
| San Francisco Bay Area Water Quality Improvement Fund | | | | | \$5 | \$5 | 0.0% |
| Bay-Delta Fund-Related ⁴ | | | | | \$252 | \$252 | 1.1% |
| Natural Resource Conservation Service | | | | | | | |
| Environmental Quality Incentives Program | | | | \$50 | | \$50 | 0.2% |
| Wetlands Reserve Program | | | | \$125 | | \$125 | 0.2% |
| CA Bay-Delta Restoration Fund ⁴ | | | | | \$108 | \$108 | 0.5% |
| U.S. Geological Survey | | | | | | | |
| CA Bay-Delta Restoration Fund (Monitoring, Research) ⁴ | | | | \$158 | | \$158 | 0.7% |
| Other Funding Sources | | | | | | | |
| Interest income | | \$100 | | | | \$65 | 0.7% |

| | Estimated Funding Relevant to BDCP, by Plan Component (in millions \$) ² | | | | | Total | % | |
|----------------------------------|---|--|---|---|---|---------|----------|--|
| | Program Administration | Monitoring, Research, Adaptive Management, and Remedial Measures | Water Facilities and Operations (CM1, CM22) | Natural Community Protection and Management (CM3, CM11) | Natural Community Restoration (CM2, CM4-10, CM12) | | | Other Stressors Conservation (CM13-21) |
| Summary | | | | | | | | |
| Total Funding | \$249 | \$1,238 | \$17,029 | \$566 | \$3,189 | \$1,360 | \$23,630 | 100.0% |
| Total Cost | \$290 | \$1,037 | \$16,934 | \$608 | \$2,886 | \$1,391 | \$23,146 | |
| Funding-Cost | \$(42) | \$201 | \$95 | \$(42) | \$303 | \$(31) | \$494 | 2.1% |
| Total Water Exporter Funding | TBD | TBD | \$16,934 | \$37 | \$272 | \$20 | \$17,263 | 73% |
| Total State Funding ⁶ | \$- | \$- | \$- | \$116 | \$1,740 | \$1,008 | \$2,864 | 12% |
| Total Federal Funding | \$149 | \$1,238 | \$95 | \$289 | \$1,176 | \$268 | \$3,213 | 14% |
| Notes: | <p>1 In most cases, funding amounts are estimates only based on funding history, overlap with BDCP goals, and assessment of competitiveness of BDCP projects. Funding estimates from state and federal agencies do not represent commitments and are subject to annual appropriations from the Legislature and Congress, respectively.</p> <p>2 See text for rationale of funding estimate. Where a range is provided in the text, the midpoint of the range is used for this table. Where funding sources apply to multiple Plan components, funding is allocated proportional to cost across applicable components, unless there is a basis to allocate funds differently. Allocations are estimates of potential funding and do not imply dedicated or guaranteed funding.</p> <p>3 See text for explanation of funding source.</p> <p>4 See Table 8-56 for details on Bay-Delta Fund funding.</p> <p>5 Funding may be provided from this source but it is not assumed due to the uncertainty in funding to support BDCP.</p> <p>6 Include IEP funding, which is jointly state and federally funded.</p> | | | | | | | |

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- 1 to disburse most or all of its funds within 10 years. For the purposes of this funding analysis, all of
- 2 the funds relevant to BDCP are assumed to be disbursed within a 10-year period.

3 **Table 8-67. Funding for 2012 Water Bonds Relevant to BDCP**

4 **[Note to Reader: Funding allocations in the table are preliminary and subject to verification by DWR.]**

| Category Relevant to BDCP | Total Funding Assumed (millions) ¹ | Proportion Assumed for BDCP ² | Total Assumed for BDCP (millions) |
|--|---|--|-----------------------------------|
| <p>Statewide Water System Operation Improvement</p> <ul style="list-style-type: none"> • Provide public benefits associated with water storage projects that improve the operation of the state water system, are cost effective, and provide a net improvement in ecosystem and water quality conditions. | \$3,000 | 20% | \$600 |
| <p>Delta Sustainability</p> <ul style="list-style-type: none"> • Protect and enhance the sustainability of the Delta ecosystem. • Develop and implement the BDCP. • Protect and restore native fish and wildlife, including the acquisition of water rights and the removal of undesirable invasive species. • Reduce greenhouse gas emissions from exposed Delta soils. • Reduce impacts of mercury contamination and remediate and eliminate sources of mercury. • Scientific studies and assessments that support the projects described above. | \$1,500 | 100% | \$1,500 |
| <ul style="list-style-type: none"> • Provide public benefits and support Delta sustainability options, including projects and supporting scientific studies and assessments. • Ensure that urban and agricultural water supplies are not disrupted by failures of Delta levees. • Preserve economic viability and sustainability of agriculture and other economic activities. • Improve quality of drinking water. • Improve levee and flood control facilities and other vital infrastructure. • Provide physical improvements or other actions to create waterflow and water quality to provide adequate habitat for native fish and wildlife. • Facilitate similar projects with costs associated with planning, monitoring, and design of alternatives, and project modifications and adaptations. • Mitigate impacts of water conveyance and ecosystem restoration. • Provide or improve water quality facilities and other infrastructure. | \$450 | 30% | \$135 |

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| Category Relevant to BDCP | Total Funding Assumed (millions) ¹ | Proportion Assumed for BDCP ² | Total Assumed for BDCP (millions) |
|--|---|--|-------------------------------------|
| <ul style="list-style-type: none"> Assist local governments and local agricultural economy suffering loss of productive agricultural lands for habitat and ecosystem restoration. | \$250 | 60% | \$150 |
| <i>Subtotal: Delta Sustainability</i> | | | |
| Conservation and Watershed Protection | | | |
| <ul style="list-style-type: none"> Ecosystem and watershed protection Protection of watersheds, reforestation, vegetation, and fuel treatment activities Central Valley Project Improvement Act project that improves salmonoid fish passage in Sacramento River Public infrastructure revolving fund mitigation programs Farmland Conservancy and Watershed Coordinator grant programs | \$150 \$100 \$60 \$50 \$20 | 20% 5% 40% 25% 20% | \$30 \$5 \$24 \$13 \$4 |
| <i>Subtotal: Conservation and Watershed Protection</i> | | | |
| Water Supply Reliability | | | |
| <ul style="list-style-type: none"> Local and regional conveyance projects San Francisco Bay Hydrologic Region Sacramento River Hydrologic Region San Joaquin River Hydrologic Region Mountain Counties subregion³ | \$350 \$132 \$76 \$64 \$44 | 10% 25% 20% 30% 10% | \$35 \$33 \$15 \$19 \$4 |
| <i>Subtotal: Water Supply Reliability</i> | | | |
| Total Funding Relevant to BDCP | | | |
| \$2,567 | | | |

Note: Funding amounts are based on bond allocations defined in 2009. Allocations for the 2012 election may change or may be reduced. If the bond measure is deferred until 2014, allocations will almost certainly change.

- Based on allocations for 2010 bond; amounts in 2012 or in a future year would likely be greater due to inflation.
- Based on overlap of BDCP conservation measures with the purpose of the program and potential competitiveness of BDCP with other projects in the geographic area of the program (some are local, others are statewide).
- The Sacramento River Hydrologic Region and the San Joaquin River Hydrologic Region are both eligible for a portion of \$44 million for the Mountain Counties sub-region.
Source: California Department of Water Resources 2009, Senate Bill 2, 2009-10 7th Ex. Sess. (CA 2009).

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- Although the passage of the 2012 water bond is not certain, California voters have a long history of passing large water bonds, some by large margins (Table 8-68). If the 2012 water bond fails or is pulled off the ballot by the Legislature, the water bond could be included again on the ballot as early as 2014.
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