

Summary Plan of the Yolo County Integrated Waste Management Plan

Final
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Glossary

AB 939	Assembly Bill 939, California Integrated Waste Management Act of 1989
ADC	Alternative Daily Cover
CCR	California Code of Regulations
C&D	Construction and Demolition Debris
CIWMB	California Integrated Waste Management Board
CIWMP	County Integrated Waste Management Plan
CoSWMP	County Solid Waste Management Plan
CUP	Conditional Use Permit
HHW	Household Hazardous Waste
HHWE	Household Hazardous Waste Element
IWMD	Integrated Waste Management Division of the Yolo County Department of Public Works and Transportation
LEA	Local Enforcement Agency
LTF	Local Task Force
MSW	Municipal Solid Waste
NDFE	Nondisposal Facility Element
PRC	Public Resources Code
SRRE	Source Reduction and Recycling Element
SWFP	Solid Waste Facilities Permit
SWGS	Solid Waste Generation Study
TAC	Technical Advisory Committee
WAC	Waste Advisory Committee
U.C.Davis	University of California at Davis
YCCL	Yolo County Central Landfill

EXECUTIVE SUMMARY FOR THE YOLO COUNTY SUMMARY PLAN

The Integrated Waste Management Act of 1989 (AB 939, Sher) requires each county to prepare a County Integrated Waste Management Plan (CIWMP). CIWMPs must include a Summary Plan. This Yolo County Summary Plan accomplishes the following three key tasks:

- Describes the goals, policies, and objectives for coordinating countywide diversion, marketing, and other waste management programs;
- Identifies the key local agencies involved in CIWMP administration and documents the baseline solid waste management environment; and,
- Summarizes Source Reduction and Recycling Element (SRRE), Household Hazardous Waste Element (HHWE), and Nondisposal Facility Element (NDFE) programs/facilities for each jurisdiction, identifies programs for countywide cooperation, and provides costs and funding sources for countywide programs.

A summary of the findings for each of these tasks is provided below.

GOALS, POLICIES, AND OBJECTIVES

A set of seven goals and 15 policies are defined in Section 1 for promoting countywide integrated solid waste management. They include issues relating to the waste management hierarchy, protection of the environment and public safety, interagency cooperation for waste diversion programs planning and implementation, coordination of household hazardous waste (HHW) management services, cooperation in recovered materials market development, and cooperation in the development of public education programs. Specific objectives and timeframes for accomplishing these items are also defined in Section 1 of the Summary Plan.

CIWMP ADMINISTRATION AND SOLID WASTE ENVIRONMENT

The Summary Plan identifies the key agency(ies) in each jurisdiction (including U.C. Davis) for implementation and administration of local waste management programs. The solid waste management environment in each jurisdiction is defined including: organization of collection services; quantities of solid waste collected, diverted, disposed, transformed, and exported; and existing facilities. A summary of the findings is provided in Table ES-1. All tonnages are for the base year 1990. The Summary Plan also includes a discussion of anticipated collection and transport needs for recovered materials and countywide strategies for recyclable and compostable materials market development.

Table ES-1
Yolo County Solid Waste Environment

Jurisdiction/ Parameter	Davis	West Sacramento	Winters	Woodland	Unincorporated County
Key Agency(ies)	Public Works Department and Finance Department	Finance Department	Public Works Department	Public Works Department and Finance Department	Integrated Waste Management Division and Dept. of Public Health ^a
Organization of Services (Franchises)	Davis Waste Removal	Waste Management of West Sacramento	Waste Management of Winters	Woodland Disposal Company (Waste Management)	Various -- no franchise or permit system ^b
Collected: (tons/year)	34,900	43,900	4,200	64,700	24,400
Self-Hauled: (tons/year)	4,100	4,900	700	4,600	600
Landfilled: (tons/year)	36,400	46,400	4,800	67,200	23,900
Transformed: (tons/year)	2,600	2,400	100	2,100	800
Diverted after Collection: (tons/year)	0	0	0	0	0
Exported: (tons/year)	0	0	0	0	300
Permitted Solid Waste Facilities	None. ^c	None.	None.	None.	Yolo County Central Landfill; U.C. Davis Landfill; Esparto Convenience Center

- a Key agencies for U.C. Davis include Office of Environmental Services, A.S.U.C.D. Project Recycle, and the Student Housing Energy Program.
- b Haulers include Davis Waste Removal, Woodland Disposal, Town & County Sanitation, 3-B Sanitation, Yuba-Sutter Disposal, and Sacramento Valley Environmental Waste.
- c The Davis Waste Removal facility currently accepts only source separated materials for reuse and recycling. The facility does not currently have a solid waste permit at its new location. At its former Davis location, the facility did maintain a solid waste facility permit.

PROGRAMS FOR COUNTYWIDE COORDINATION

Section 4 of the Summary Plan briefly describes the existing and selected SRRE, HHWE, and NDFE programs/facilities for each jurisdiction including target materials and marketing strategies. Ten programs are identified for countywide coordination. These countywide programs and their estimated costs are summarized in Table ES-2.

Table ES-2
Programs for Coordinated Implementation in Yolo County

Program	Estimated Cost
Source Reduction:	
Regional Waste Exchange: Potential countywide waste exchange with tie-in to the CALMAX program.	\$15,000 annually
Technical Assistance Coordination: Coordinated development of model source reduction literature including backyard composting education materials, commercial waste audit/evaluation material, and school curriculum material.	\$64,000 one-time \$60,000 annually
Recycling:	
Bin-Transfer Operation: Develop bin-transfer operation at Yolo County Central Landfill (YCCL) targeting self-haul waste for materials recovery.	\$280,000 capital \$145,000 annually
Automated MRF: (Contingency) Mixed waste recovery facility at YCCL. (excluding City of Davis)	\$5 million capital ^a
Composting:	
Countywide Composting Facility: Expansion of existing operation at YCCL to process jurisdictions' yard waste (excluding City of Davis).	\$570,000 annually
Special Waste:	
Construction/Demolition Diversion: Promote countywide source separation and recycling of inerts through generator education.	\$11,000 one-time \$11,000 annually
Wood Waste Diversion: Use of bin-transfer operation to segregate self-hauled wood waste for processing at YCCL composting facility.	(included in composting and bin-transfer)
Household Hazardous Waste:	
Temporary HHW facility: Temporary recycling storage facility at YCCL for sorting, bulking, and lab packing delivered HHW.	\$240,000 annually
Permanent HHW Facility: (Contingency) Permanent facility at YCCL for ongoing management of all recyclable/non-recyclable HHW types.	\$250,000 - \$300,000 annually
HHW Education Program: Develop countywide educational materials for HHW source reduction and proper recycling/disposal.	\$15,000 annually

^a Original estimate in the county's final SRRE was \$10 million; staff currently estimate approximately \$5 million.

SECTION 1 INTRODUCTION

1.1 PURPOSE AND SCOPE OF THE SUMMARY PLAN

The Yolo County Summary Plan has been prepared in accordance with, and as required by, Public Resources Code (PRC) Division 30, Part 2, Chapter 5, §41751 and the California Code of Regulations (CCR), Title 14, Division 7, Chapter 9, §18757 through §18758. Upon completion and local adoption, this Summary Plan will be incorporated into the Yolo County Integrated Waste Management Plan (CIWMP) and submitted to the California Integrated Waste Management Board (CIWMB) for final approval.

Yolo County and the four incorporated cities of Davis, West Sacramento, Winters, and Woodland have taken a cooperative approach to developing required AB 939 documents and implementing some programs jointly to create cost efficiencies. The purpose of this Summary Plan is to, in part, summarize selected programs of the jurisdictions and consider additional opportunities for cooperative implementation of waste reduction programs. The Summary Plan was developed using information prepared for the unincorporated county and four cities' Source Reduction and Recycling Elements (SRREs), Household Hazardous Waste Elements (HHWEs), and Nondisposal Facility Elements (NDFEs). For this reason, references to "existing" waste disposal, diversion, and generation figures are as of 1990, the documents' base year unless otherwise indicated.

The Yolo County Summary Plan accomplishes the following three key tasks:

- Describes the goals, policies, and objectives for coordinating countywide diversion, marketing, and waste management programs;
- Identifies the key local agencies involved in CIWMP administration and documents the baseline solid waste management environment; and,
- Summarizes SRRE, HHWE, and NDFE programs/facilities for each jurisdiction, identifies programs for countywide cooperation, and provides costs and funding sources for countywide programs.

1.2 GOALS, POLICIES, AND OBJECTIVES

Yolo County developed broad solid waste management goals and objectives during the preparation of the 1989 County Solid Waste Management Plan (CoSWMP) and the 1983 General Plan. These guidelines were built upon to prepare a set of goals and policies specifically for promoting countywide integrated waste management in Yolo County. The Yolo County Waste Advisory Committee (WAC; the local task force for AB 939 compliance) has concurred with the goals and policies as described in Table 1-1 to provide overall direction to Yolo County decision-makers in the development of countywide integrated waste management programs. Specific goals and objectives for source reduction, recycling, composting, special wastes, and public education are defined in those components of the five jurisdictions' SRREs; specific goals and objectives for HHW management are defined in the HHWEs. Goals and objectives for the disposal of solid waste in Yolo County are described in the countywide Siting Element.

Table 1-1
Summary Plan Goals and Policies

Goals	Policies
<p>1. To conserve natural resources, energy, and disposal capacity, the cities and county will minimize the quantity of solid waste requiring disposal using the hierarchy of: (1) source reduction; (2) recycling and composting; and (3) transformation and land disposal.</p>	<p>A. The SRREs and future revisions will be structured, and programs selected, reflecting the waste management hierarchy.</p> <p>B. The Waste Advisory Committee and Technical Advisory Committee will continue to provide input and comment on solid waste services to maximize waste reduction efforts.</p>
<p>2. All integrated waste management programs will continue to be implemented so as to reduce to the extent possible environmental impacts and nuisances and ensure public safety.</p>	<p>A. Evaluation of new or expanded waste reduction, collection, and disposal programs for Yolo County communities will include consideration for minimizing environmental impacts and maximizing public safety.</p> <p>B. All programs will be regularly monitored and evaluated for environmental impacts and public safety assurance.</p>

**Table 1-1
Summary Plan Goals and Policies**

Goals	Policies
<p>3. The cities and county will seek to increase interagency cooperation and cooperation with institutions and the private sector to achieve efficient and cost-effective integrated waste management service in Yolo County.</p>	<p>A. New and expanded programs will continue to be evaluated for potential countywide application, and implemented as such where efficiencies and cost-effectiveness are gained and such consolidation does not conflict with the interests of the jurisdictions.</p> <p>B. Open information exchange and data sharing on waste management activities and results will be fostered between the cities, county, and U.C. Davis staff and appropriate private sector entities and individuals.</p> <p>C. The Waste Advisory Committee and Technical Advisory Committee will serve as resources to identify and facilitate opportunities for cooperative program/services development in Yolo County.</p>
<p>4. To minimize the improper disposal of hazardous wastes, Yolo County residents and appropriate businesses will be provided reasonable access to programs for the safe and efficient management of HHW and small quantity generator (SQG) wastes. Where technically and/or economically feasible, HHW materials will be reused or recycled and the remainder disposed of in an environmentally safe manner.</p>	<p>A. The cities and county will continue cooperation in the conduct of countywide HHW and SQG collection programs, as appropriate, and scheduling of individual city events.</p> <p>B. HHW programs will emphasize reuse and recycling where feasible, transformation or treatment, and provide for disposal when necessary at permitted Class I facilities.</p>
<p>5. The cities and county will cooperate in the consideration and development of local market development programs to ensure outlets for materials recovered in Yolo County.</p>	<p>A. As appropriate, jurisdictions' community development agencies will work to identify, evaluate, and develop feasible, coordinated market development programs that will promote the development of local businesses that can reuse recovered materials.</p>

Table 1-1
Summary Plan Goals and Policies

Goals	Policies
<p>6. The cities and county will cooperate in the development and maintenance of public education programs that benefit all residents of the county and emphasize solid waste reduction and proper management of household hazardous wastes.</p>	<p>A. The cities and county will share resources for countywide programs that educate residents on source reduction, recycling, composting, special waste, and HHW issues.</p> <p>B. The cities and county will continue to seek Waste Advisory Committee, Technical Advisory Committee, and community input in the evaluation, development, and management of new and expanded programs.</p>
<p>7. Maintain ongoing analysis and development of new waste management technologies and programs that will further promote waste reduction and enhance environmental protection.</p>	<p>A. The cities and county will cooperate in the regular monitoring and evaluation of countywide SRRE and HHWE programs, program modifications, and new technologies/programs as necessary.</p> <p>B. The cities and county will cooperate in the preparation of annual reports and reviews updating countywide integrated waste management programs status and required program changes.</p> <p>C. As necessary and appropriate, the cities and county will cooperate in the revision of the SRREs, HHWEs, and NDFEs.</p>

Table 1-2 outlines the basic objectives and actions the cities and county are undertaking to achieve the cooperative goals defined above. The approximate timing for each objective/action is described. Detailed implementation schedules for the various source reduction, recycling, composting, special waste, and education programs are provided in those components of the jurisdictions' final SRREs; the implementation schedules for specific HHW programs are defined in the final HHWEs.

Table 1-2
Objectives to Meet Goals

Goals	Objective/Action	Approximate Dates
Goal 1 Waste Management Hierarchy	Locally adopt final SRREs.	Locally adopted 1992/1993.
	Implement short-term source reduction, recycling, composting, and special waste programs: 4.5% additional diversion in unincorporated county to achieve a total 31.6% diversion rate. 6.5% additional diversion in Davis to achieve a total 43.7% diversion rate. 15.8% additional diversion in West Sacramento to achieve a total 35.5% diversion rate. 22.9% additional diversion in Winters to achieve a total 40.7% diversion rate. 23.9% additional diversion in Woodland to achieve a total 41.9% diversion rate.	1991 - 1995
	Implement mid-term source reduction, recycling, composting, and special waste programs: 23.9% additional diversion in unincorporated co. to achieve a total 55.5% diversion rate. 8.7% additional diversion in Davis to achieve a total 52.4% diversion rate. 19.5% additional diversion in West Sacramento to achieve a total 55.0% diversion rate. 12.6% additional diversion in Winters to achieve a total 53.3% diversion rate. 19.6% additional diversion in Woodland to achieve a total 61.5% diversion rate.	1996 - 2000
	Revise SRREs as necessary to maintain integrated waste management hierarchy. Consider implementation of contingency mixed waste materials recovery facility.	Annual reports, reviews, and periodic SRRE revisions; Approx. 1999 for contingency facility execution.
	Ongoing Waste Advisory Committee and Technical Advisory Committee meetings and communication with cities and county staff.	Approx. monthly or as otherwise necessary.

**Table 1-2
Objectives to Meet Goals**

Goals	Objective/Action	Approximate Dates
Goal 2 Environmental Protection and Public Safety	Alternative evaluations in the locally approved SRREs and HHWEs.	Completed. Ongoing as necessary.
	Execute monitoring and evaluation programs for waste diversion and HHW programs.	Periodic reporting, annual surveys and evaluations as described in SRREs and HHWEs.
Goal 3 Inter-Agency Cooperation	Evaluate availability of alternatives in the locally approved SRREs and HHWEs.	Completed. Ongoing as necessary.
	Ongoing coordination and communication between cities and county staff.	Ongoing, including reports and evaluations sharing.
	Ongoing Waste Advisory Committee and Technical Advisory Committee meetings and communication with cities and county staff.	Approx. monthly or as otherwise necessary.
Goal 4 HHW Management	Short-term: Continue periodic countywide HHW collection program and coordination with cities for individual events.	1991 - 1995 & ongoing.
	Mid-term: Implement countywide permanent HHW facility (contingency plan).	Coordinated with MRF.
	Monitor and evaluate HHW programs for efficiency and recycling opportunities.	Per event and annual reporting/evaluations.
Goal 5 Market Development	The cities and county will continue to cooperate in the evaluation and implementation of feasible programs to promote local markets for recycled materials in Yolo County.	Ongoing.

Table 1-2
Objectives to Meet Goals

Goals	Objective/Action	Approximate Dates
Goal 6 Public Education	Implement/continue short-term countywide education programs, e.g., YCCL services promotion; "Garbage Talk" newsletter; HHW collection promotion; County Fair booth; waste reduction curricula promotion; media promotion/PSAs development.	1991 - 1995 & ongoing.
	Conduct regular public meetings of the Waste Advisory Committee and Technical Advisory Committee.	Approx. monthly or as otherwise necessary.
	Conduct public meetings/hearings for CIWMP approval; conduct project public hearings per local approval process and CEQA requirements.	Approx. 2nd quarter 1995; as projects are proposed.
Goal 7 New Technologies	Execute SRRE programs monitoring and evaluation.	Periodic reporting, annual surveys and evaluations.
	Execute HHWE programs monitoring and evaluation.	Per event and annual reporting/evaluations.
	Prepare annual reports; annual reviews	Reports: approx. 3rd qtr. 1996 & annually. Reviews: approx. 1st qtr. 1997 & annually.
	Prepare cooperative SRRE, HHWE, NDFE revisions.	As indicated by annual reports, reviews, and/or CIWMB biennial reviews.

1.3 STRUCTURE OF THE SUMMARY PLAN

The Yolo County Summary Plan is structured according to the requirements of CCR, Title 14, §18757 *et seq.* and according to the needs of Yolo County for a useful, long-range planning tool. Where appropriate, required information has been provided in a table format to facilitate review and understanding by the community and city and county decision-makers. The document structure is summarized as follows:

<u>Section</u>	<u>Topics</u>	<u>CCR Title 14 Reference</u>
1. Introduction	Purpose/scope; goals, polices, objectives	§18757.1
2. Yolo County Profile and Plan Administration	Physical and demographic description; responsible agencies for CIWMP	§18757.3
3. Current Solid Waste Management in Yolo County	Summary of waste collection and disposal; permitted facilities; market strategies	§18757.5
4. Summary of SRREs, HHWEs, and NDFEs	SRRE, HHWE, NDFE summaries; identification of coordinated programs	§18757.7
5. CIWMP Financing	Cost estimates, funding sources, allocation	§18758

SECTION 2
YOLO COUNTY PROFILE AND PLAN ADMINISTRATION

This section documents basic physical and demographic data for Yolo County and describes the responsible agencies and functions in the county for administration of the Yolo County Integrated Waste Management Plan (CIWMP). This section was compiled using data from several sources including the Yolo County General Plan, Yolo County Fact Book 1991, final SRREs and HHWEs as locally adopted (1992/1993), Department of Finance population data, and 1990 Census data.

2.1 YOLO COUNTY PROFILE

Table 2-1 summarizes basic physical and demographic information for Yolo County. Data are for the base year 1990 unless otherwise indicated.

Table 2-1
Yolo County Profile

Physical Environment:	
Topography:	Eastern and central Yolo County is predominated by the alluvial floodplain of the Sacramento River. Land use is primarily agriculture and peri-urban. A significant geographic feature is the Yolo Bypass, designed to carry the Sacramento River flood waters away from urbanized areas of the eastern part of the county. The Sacramento River defines the eastern edge of the county. The first rise of the Coast Range (maximum elevation of 3,046 feet) lies on the western edge of the county. Land uses in the western county are primarily open space and grazing.
Major Roadways:	Interstate 5 is a primary north-south link through Yolo County and Interstate 80 a primary east-west link. Interstate 505 connects Interstate 5 with Interstate 80, passing near Winters. State Highway 113 runs north-south connecting Davis and Woodland. State Highway 128 runs east-west along the southwestern boundary of the county, through Winters. State Highway 16 connects Woodland with the communities of Esparto and the Capay Valley. See Figure 2-1.
City Boundaries:	The City of Davis, approximately six square miles, is centered about the intersection of State Highway 113 and Interstate 80. The City of West Sacramento, approximately 19 square miles, is centered about the intersection of Interstates 5 and 80 and U.S. Highway 50 along the Sacramento River. The City of Winters, approximately 0.6 square miles, is located one mile west of the intersection of Interstate 505 and State Highway 128. The City of Woodland, approximately nine square miles, is centered about the intersection of State Highways 113 and 16. See Figure 2-1.

Table 2-1
Yolo County Profile

Physical Environment (continued):			
Climate:	Summers are warm and very dry; maximum temperature averages 95°F and the minimum temperature mid-50°F. Winters are cool and wet, minimum temperature approximately 38°F, maximum temperature mid-50s°F. Most rain falls between December and March. Average annual rainfall is approximately 16 inches in the northeast section of the county, increasing to about 24 inches along the western boundary.		
Demographics:			
Population^a:	<u>Jurisdiction</u>	<u>Pop. (1990)</u>	<u>Annual Growth Rate</u>
	Unincorporated County	22,193	-1.8% ^b
	City of Davis	45,310	1.5%
	City of West Sacramento	27,331	0.1% ^b
	City of Winters	4,545	10.1%
	City of Woodland	39,797	3.5%
Ethnicity^c:	<u>Ethnicity</u>	<u>Percentage</u>	
	White	69%	
	Hispanic	20%	
	African American	2%	
	Asian or Pacific Islander	8%	
	American Indian, Eskimo, or Aleut	1%	
Median Age^c:	28.9 years		
Average Household Income^c:	<u>Jurisdiction</u>	<u>Income</u>	
	Unincorporated County	\$31,713	
	City of Davis	\$29,044	
	City of West Sacramento	\$23,287	
	City of Winters	\$31,381	
	City of Woodland	\$31,671	
	County Average	\$28,866	

- a Yolo County Population and Housing Estimates, January 1, 1990, California Department of Finance.
- b Prior to January 1, 1987, West Sacramento was part of the unincorporated county. This accounts for the negative population growth rate for the unincorporated county and small increase for West Sacramento.
- c 1990 Census of Population and Housing for Yolo County, State Data Census Center.

Table 2-1
Yolo County Profile

Demographics (continued):				
Employment ^d :	<u>Industry</u>	<u>Percentage</u>		
	Government	32.9%		
	Retail trade	15.9%		
	Services	14.2%		
	Manufacturing	8.8%		
	Wholesale trade	7.0%		
	Transportation/Utilities	6.5%		
	Agriculture	6.5%		
	Construction	4.5%		
Finance/Insurance/R.E.	3.4%			
Mining	0.3%			
Housing ^e :	<u>Jurisdiction</u>	<u>1-4 Units</u>	<u>5-plus Units</u>	<u>Mobile</u>
	Unincorporated County	4,811	1,136	375
	City of Davis	11,044	6,741	373
	City of West Sacramento	7,832	2,558	1,555
	City of Winters	1,385	195	59
	City of Woodland	10,492	3,794	649
County Total	35,554	14,424	3,011	
Seasonal Fluctuations:	<p>Seasonal variation in agricultural employment ranges between 2,000 and 10,000 jobs. Much of this employment is migrant.</p> <p>Some seasonal fluctuation also observed in Davis and environs from U.C. Davis student population.</p> <p>Less than one percent of housing units countywide are used as second homes.^f</p>			
Transportation Patterns:	<p>Primary transport mode is the automobile. Significant transport mode for Davis and U.C. Davis is the bicycle. Mass transportation (Yolo Bus) links Woodland, Davis, and West Sacramento to the City of Sacramento and light-rail. Amtrak passenger rail service connects Davis with the Bay Area. The community is served by the Yolo County Airport and University Airport in Yolo County and Sacramento Metropolitan Airport in Sacramento County. The International Port of Sacramento (shipping) is located in West Sacramento.</p>			

d "Yolo County Fact Book", Agricultural Issues Center, University of California, May 1991. Data are for the year 1990.

e Yolo County Population and Housing Estimates, January 1, 1990, California Department of Finance.

f 1990 Census of Population and Housing for Yolo County, State Data Census Center.

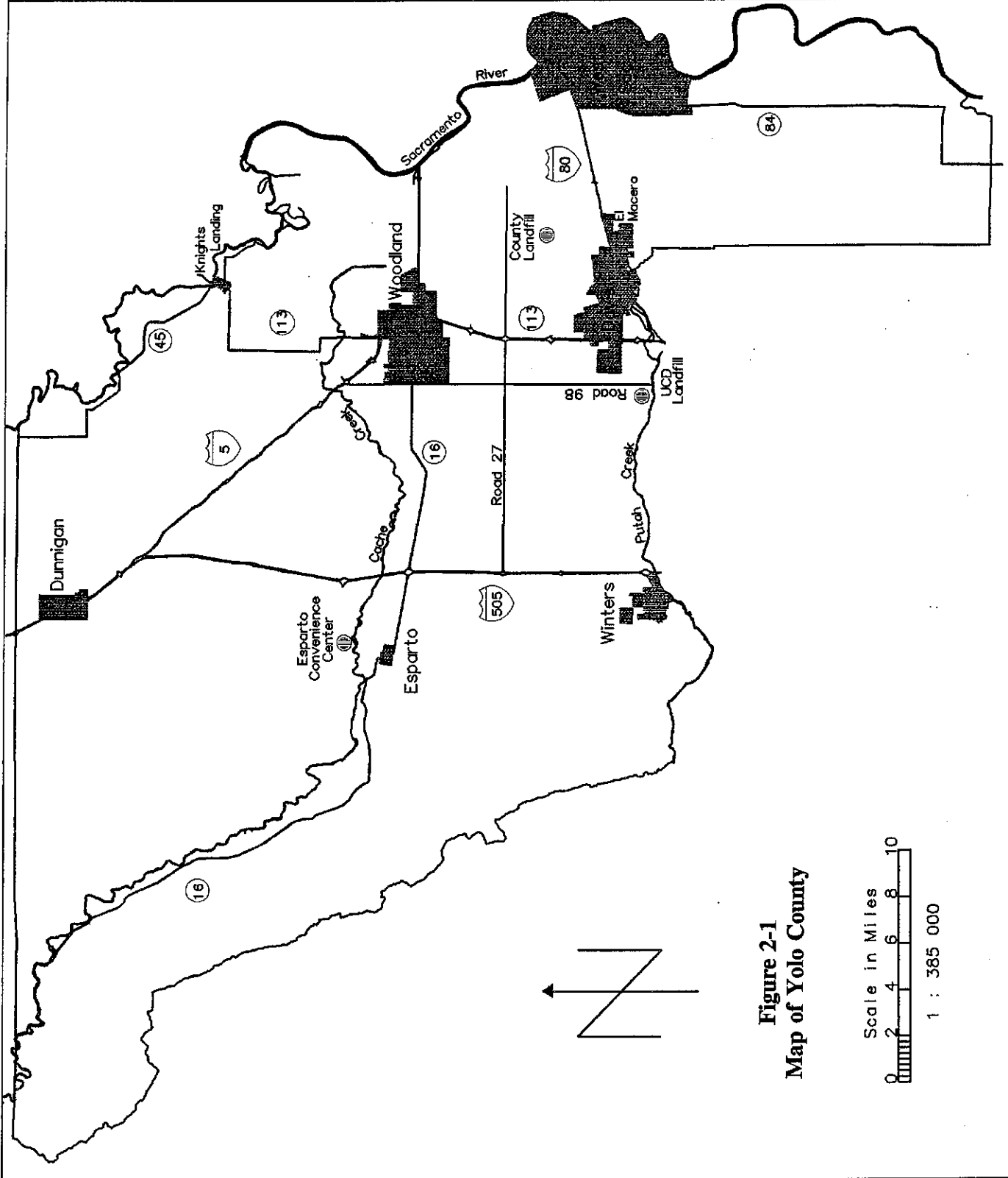
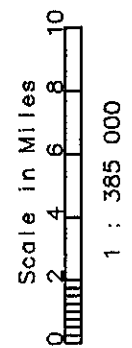


Figure 2-1
Map of Yolo County



2.2 CIWMP ADMINISTRATION

Table 2-2 identifies the primary agencies in Yolo County responsible for integrated waste management and specifically their duties relating to public education, budgeting, implementation of solid waste management programs, and administration. U.C. Davis is broken out from the unincorporated county given the autonomous nature of the university's waste management system. Primary data sources are interviews with staff in each jurisdiction.

Table 2-2
Plan Administration

Responsible Agency	Functions
Yolo County	
Department of Public Works and Transportation, Integrated Waste Management Division	Administers countywide solid waste management program including YCCL operations, unincorporated county SRRE/HHWE implementation, and education and budgeting in support of programs.
Yolo County Department of Public Health	Local Enforcement Agency (LEA) for solid waste facilities permit issuance and compliance in Yolo County.
U.C. Davis	
U.C. Davis Solid Waste Collection & Disposal Section, Office of Environmental Services	Refuse collection and disposal; operation of on-campus recycling programs; education, budgeting and administration in support of these programs.
A.S.U.C.D. Project Recycle	Operation of student on-campus recycling programs; education and budgeting in support of these programs.
U.C. Davis Student Housing Energy Program	Coordinates with Davis Waste Removal for recycling programs in off-campus dormitories; education and budgeting in support of these programs.

**Table 2-2
Plan Administration**

Responsible Agency	Functions
City of Davis	
Public Works Department	Oversees solid waste management program including SRRE/HHWE programs implementation, local programs budgeting and education.
Finance Department	Oversees service provider contracts.
City of West Sacramento	
Finance Department	Oversees solid waste management program including SRRE/HHWE programs implementation, local programs budgeting and education, service provider contracts.
City of Winters	
Public Works Department	Oversees solid waste management program including SRRE/HHWE programs implementation, local programs budgeting and education, service provider contracts.
City of Woodland	
Public Works Department	Oversees solid waste management program including SRRE/HHWE programs implementation, local programs budgeting and education.
Finance Department	Oversees service provider contracts.

SECTION 3
CURRENT SOLID WASTE MANAGEMENT IN YOLO COUNTY

This section describes countywide solid waste management circumstances, conditions, methods, and practices.

3.1 SOLID WASTE COLLECTION AND DISPOSAL

3.1.1 Service Areas

Table 3-1 summarizes the provision of solid waste collection, removal, and disposal services for the four cities and the unincorporated county as of 1994. City franchises are exclusive. Collection and removal services in the unincorporated county are unregulated. With the exception of U.C. Davis, the community of Clarksburg, and a portion of Knight's Landing, disposal services are provided by the Yolo County Department of Public Works and Transportation, Integrated Waste Management Division, at the Yolo County Central Landfill.

Table 3-1
 Organization of Services

Service Area	Residential		Commercial/Industrial	
	Collection & Removal	Disposal	Collection & Removal	Disposal
Unincorp. Co.: greater county ^a	Woodland Disposal; Town & Country Sanitation	Yolo County	Woodland Disposal; Town & Country Sanitation	Yolo County
Unincorp. Co.: north county ^b	3-B Sanitation; Yuba-Sutter Disposal	Yolo County; Yuba-Sutter Disposal	3-B Sanitation; Yuba-Sutter Disposal	Yolo County; Yuba-Sutter Disposal
Unincorp. Co.: outer Davis area	Davis Waste Removal	Yolo County	Davis Waste Removal	Yolo County

a Includes the communities of Brooks, Capay, Dunnigan, Esparto, Hillcrest, Knight's Landing, Madison, Rumsey, Yolo and Zamora.

b Knight's Landing and other northern-most areas of the unincorporated county.

**Table 3-1
Organization of Services**

Service Area	Residential		Commercial/Industrial	
	Collection & Removal	Disposal	Collection & Removal	Disposal
Unincorp. Co.: Clarksburg area	Sacramento Valley Environmental Waste	Hauler/Sacto. County	Sacramento Valley Environmental Waste	Hauler/Sacto. County
Unincorp. Co.: U.C. Davis	U.C. Davis Office of Environmental Services	U.C. Davis Office of Environmental Services	U.C. Davis Office of Environmental Services	U.C. Davis Office of Environmental Services
City of Davis	Franchise: Davis Waste Removal	Yolo County	Franchise: Davis Waste Removal	Yolo County
City of West Sacramento	Franchise: Waste Management of West Sacramento	Yolo County	Franchise: Waste Management of West Sacramento	Yolo County
City of Winters	Franchise: Waste Management of Winters	Yolo County	Franchise: Waste Management of Winters	Yolo County
City of Woodland	Franchise: Woodland Disposal Co.	Yolo County	Franchise: Woodland Disposal Co.	Yolo County

3.1.2 Waste Quantities Collected

Table 3-2 lists the quantity of waste collected daily and annually in each jurisdiction. Data are for the base year 1990 and 1993, and are presented in both tons and cubic yards. Collected waste includes wood waste and tires destined for transformation. Collected waste does not include self-hauled waste. Data for the unincorporated county include U.C. Davis. 1990 data are derived from the jurisdictions' final SRREs as locally adopted in 1992 and 1993. 1993 data are as reported in the jurisdictions' AB 440 reports and subtracting out self-hauled amounts. Self-hauled amounts in 1993 were determined through self-hauler surveys conducted at YCCL in August 1993. Tons were converted to cubic yards assuming an in-place density of 1,200 pounds per cubic yard.

Table 3-2
Quantities of Solid Waste Collected (1990 and 1993)

Jurisdiction	Tons		Cubic Yards	
	Daily	Annual	Daily	Annual
Unincorporated County	1990: 67 1993: 61	1990: 24,442 1993: 22,164	1990: 112 1993: 102	1990: 40,737 1993: 36,940
City of Davis	1990: 96 1993: 87	1990: 34,894 1993: 31,781	1990: 159 1993: 145	1990: 58,157 1993: 52,968
City of West Sacramento	1990: 120 1993: 99	1990: 43,939 1993: 36,200	1990: 201 1993: 165	1990: 73,232 1993: 60,333
City of Winters	1990: 11 1993: 8	1990: 4,185 1993: 2,918	1990: 19 1993: 13	1990: 6,975 1993: 4,863
City of Woodland	1990: 177 1993: 118	1990: 64,744 1993: 43,100	1990: 296 1993: 197	1990: 107,907 1993: 71,833

3.1.3 Storage and Transport Needs

Table 3-3 summarizes the current storage and transport for collected materials targeted for recovery and identifies anticipated storage and transport needs associated with programs selected in the final SRREs and HHWEs. Given the coordinated approach to SRRE and HHWE development among the jurisdictions, Table 3-3 addresses needs for both cities' and county programs. Jurisdiction-specific needs are noted where appropriate.

**Table 3-3
Storage and Transport Needs for Collected Target Materials**

Program	Current Storage and Transport	Storage and Transport Needs
YCCL and Esparto Convenience Center drop-offs	Storage at centers; transport by processor.	YCCL drop-off expansion to incorporate bin-transfer operation targeting self-haulers. Possible mid-/long-term expansion to automated MRF.
U.C.D. Recycling Programs	Storage at service providers' facilities; transport by service providers.	Additional storage and transport capacity as U.C. Davis programs are coordinated and expanded.
Cities' drop-off/buy-back centers	Storage at centers; transport by service providers or processors.	Additional on-site storage, processing and transport capacity as number of acceptable materials increases and number of centers expands.
Curbside and multi-unit recyclables collection	Storage at service providers' facilities; transport by service providers.	Additional storage, processing and transport capacity at Woodland sorting line as additional residences participate in Woodland, West Sacramento, and Winters curbside programs. Intermediate processing facility in West Sacramento for recovered paper processing.
Commercial Collection	Storage at service providers' facilities; transport by service providers.	Additional storage, processing and transport capacity necessary as additional businesses participate. Intermediate processing facility in West Sacramento for recovered paper processing.
Composting Program: (all except City of Davis and U.C. Davis)	Source separated collection and transport by service providers (currently landfilled). ^a	Additional storage, processing and transport capacity needed as yard waste collections are diverted to the planned composting facility at YCCL.

^a Service currently provided in the cities of West Sacramento, Winters, and Woodland.

Table 3-3
Storage and Transport Needs for Collected Target Materials

Program	Current Storage and Transport	Storage and Transport Needs
Composting Program: (City of Davis only)	Collection, storage and transport by service provider.	Additional collection and processing capacity at DWR facility as participation and capture rates increase.
Composting Program: (U.C. Davis only)	Collection, storage and transport by Office of Environmental Services.	Additional storage and processing capacity at U.C.D. Landfill as expanded manure, straw and bedding collections initiated.
Yard Waste Drop-off at Esparto Convenience Center	None.	Sufficiently sized drop-off bins, bin storage area, collection vehicle.
Special Wastes Recovery: (inerts, wood waste, tires)	Storage at YCCL; on-site reuse of inerts and processed wood waste; tires transported for incineration by service provider.	Additional wood waste storage and processing capacity at YCCL compost/chipping site.
HHW Management Program	Storage and transport by service provider.	Temporary and permanent storage facilities at YCCL for reuse/recycling, bulking, and packing. Service provider transport. (Permanent facility is tentative.)

3.1.4 Destination of Collected Waste

Table 3-4 lists the final destination of collected wastes (i.e., landfill, transformation, diversion, export), by quantity (tons and cubic yards) for the base year 1990. All data are derived from the jurisdictions' final SRREs as locally adopted, 1992/1993. "Transformation" includes incineration of wood wastes and tires. "Diversion" is only that material collected in solid waste collection programs then diverted (e.g., mixed waste materials recovery and salvaging). Self-hauled waste is not included. Tons were converted to cubic yards assuming an in-place density of 1,200 pounds per cubic yard.

Table 3-4
Destination of Collected Wastes (1990)

Unit	Landfill	Transformation	Diversion ^a	Export ^b	Total
Tons/Yr	163,940	8,014	0	250	172,204
Cubic Yards/Yr	273,233	13,357	0	417	287,007
% of Total	95.2%	4.7%	0.0%	0.1%	100%

a Includes only that material collected in solid waste collection programs then diverted (e.g., mixed waste materials recovery or landfill salvaging).

b The Yolo County Solid Waste Management Plan (1989) estimates that approximately 200 to 300 tons per year of solid waste are transported from Clarksburg to Sacramento County for disposal. An average of 250 tons was used for this report.

3.2 PERMITTED SOLID WASTE FACILITIES

There are three permitted solid waste facilities in Yolo County: the Yolo County Central Landfill, the U.C. Davis Landfill, and the Esparto Convenience Center. All three facilities are located in the unincorporated county. Figure 2-1 shows the location of these facilities. Non-permitted, non-disposal facilities in Yolo County are identified in Section 4.3.

Facility

Location

Yolo County Central Landfill (57-AA-0001)

On County Road 28H east of County Road 104, two miles north of the City of Davis; unincorporated Yolo County.

U.C. Davis Landfill (57-AA-0004)

Approximately four miles southwest of the City of Davis at County Road 98 and Hutchinson Drive; unincorporated Yolo County.

Esparto Convenience Center (57-AA-0002)

North of the community of Esparto on County Road 19A with frontage on County Road 87; unincorporated Yolo County.

3.3 RECYCLABLE MATERIALS MARKET DEVELOPMENT

This section provides an overview of Yolo County's recovered materials market development strategy including identification of county agencies involved in developing those markets.

3.3.1 Countywide Market Development Strategies

Beyond the objective of meeting mandated diversion goals, an important element of Yolo County's recycling program is to return recovered materials to commerce. Although markets for some materials have experienced rapid growth in the past few years, the county recognizes that increasing supplies of materials recovered through new recycling programs throughout the state may exceed current demand without new market development activities on the local, state, and federal level. To ensure long-term success of the recycling programs outlined in the county's and cities' SRREs, the county has identified some materials marketing strategies discussed below. The lead agency for executing these strategies is the Yolo County Department of Public Works and Transportation, Division of Integrated Waste Management. The Division will coordinate with, and be supported by, local recycling service providers, the Yolo County Community Development Agency and cities' development agencies as appropriate, city government representatives as represented in the Waste Advisory Committee and Technical Advisory Committee, and the City Councils and Board of Supervisors, as appropriate.

Developing Recycling Markets and Local End-Uses

At least in the short-term, existing markets may be flooded with an oversupply of diverted materials. Increased supplies will naturally lead to expansion of new and existing markets; however, a likely consequence of flooded markets could be depressed revenues from material sales, higher material transportation costs, and more stringent material specifications regarding contamination, density, and volume. Therefore, a locally based market development strategy that addresses these and other issues is an important aspect of Yolo County's integrated waste management program.

The overall approach of the market development strategy is to fully incorporate the use of recyclables into a broader community economic development planning process. This will be accomplished through the coordinated efforts of service providers, solid waste planners, local economic development personnel, City Councils and Board of Supervisors to accomplish the following broad market development goals:

- Encourage local development and expansion of a diversity of manufacturing enterprises that use recycled materials as feedstock by considering joining a neighboring Recycling Market Development Zone.

- Implement city and county government procurement policies that promote the purchase of products with recycled material content, more durable products, and bulk purchasing to reduce packaging. Explore joint purchasing agreements among the five jurisdictions.
- Coordinate multijurisdictional cooperation for recovery and marketing of recycled materials where economically feasible.
- In coordination with service providers, provide technical assistance and educational materials to businesses countywide regarding purchasing recycled-content and durable materials.
- In coordination with service providers, maintain a market monitoring and evaluation program that regularly assesses any deficiencies in the marketing of locally recovered materials, evaluates external markets and whether demand levels are changing, and seeks alternative markets/strategies as necessary.

Compost Markets

The ability to successfully and consistently market compost is fundamental to the success of any composting project. It is anticipated that the planned composting program at YCCL will be privately owned and operated. Therefore, county efforts will focus on assisting in compost market development rather than material sales. Compost market development activities for the county include:

- Identify and implement local government end-uses for compost products. Current end-uses include alternative daily cover at the YCCL. Other potential uses for consideration include landscaping material, erosion control, and roadside shoulders.
- Educate local businesses, farmers, and residents on the availability and benefits of locally generated compost products and their correct use.
- Facilitate the exchange of information about compost use and its benefits. Encourage the development and use of innovative technology and creative approaches to processing "waste" organic materials. (Yolo County has already initiated an anaerobic digestion project at the YCCL.)
- Through the Yolo County Department of Public Health (local enforcement agency), ensure that any composting facility is permitted and operated so as to produce quality compost and is operated in accordance with health and safety standards.

SECTION 4
SUMMARY OF SRREs, HHWEs, AND NDFEs

This section summarizes the existing and selected waste diversion strategies for the unincorporated county and the four cities and identifies programs for potential countywide coordination.

4.1 SRRE PROGRAMS SUMMARY

Table 4-1 summarizes the existing, selected, and contingency SRRE programs for each jurisdiction in Yolo County. Information was drawn from the five jurisdictions' final SRREs as locally adopted in 1992 and 1993. Existing programs are defined as those existing at the time of initial SRRE preparation; updates per the jurisdictions' AB 440 reports are noted in parentheses. Included are programs specifically organized for the diversion of solid waste. Activities such as thrift shops, incidental backyard composting, and incidental recycling by supermarkets/chain stores are not included in this summary. Targeted material types and marketing strategy(ies) are listed where known or specified in the jurisdictions' final SRREs (as locally adopted, 1992/1993). Source reduction program descriptions do not include target material types as these programs often target all waste types rather than specific items. Unless otherwise indicated, selected programs include the continuation of existing activities. Program descriptions for the unincorporated county include activities on the U.C. Davis campus.

Table 4-1 Key:	
<u>Material Type:</u>	
1 = Newspaper	11 = Other metals
2 = Cardboard	12 = White goods
3 = Office papers	13 = Yard Waste
4 = Other paper	14 = Wood/wood waste
5 = PET	15 = Other organics
6 = HDPE	16 = Tires/rubber
7 = Other plastic	17 = Asphalt, concrete, inerts
8 = Glass bottles	18 = Construction/demolition
9 = Aluminum cans	19 = Other, bulky, composite, misc.
10 = Steel/tin can	
<u>Marketing Strategies:</u>	
SPM = Service provider marketed	
DM = Direct marketing by local government or generator to processors	
LR = Local reuse	
D = Disposed	

Table 4-1
Summary of SRRE Diversion Programs

SRRE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Source Reduction:					
Technical Assistance	<p>Existing: Waste paper reuse/reduction program in county offices.</p> <p>U.C.D. programs include e-mail and double-sided copying for paper reduction, Bargain Barn for repairable goods, Central Stores reuse programs, and recycled content products purchasing.</p> <p>Selected: Waste audit checklist and waste evaluation assistance to businesses.</p> <p>Government offices waste evaluation and employee education.</p> <p>Residential backyard composting education program through printed materials and seminars.</p> <p>Education on waste reduction techniques to residents and business via workshops and seminars.</p> <p>Explore regional waste exchange with tie-in to CALMAX.</p> <p>Identify projects/events for source reduction in schools.</p> <p>No new programs selected for U.C.D..</p>	<p>Existing: Promotion through outreach at special events, print media, videos, and school programs.</p> <p>Policy established promoting the use of reusable products in government offices. Double-sided copying standard.</p> <p>Promotion of state awards program/local recognition through print media.</p> <p>Backyard composting education program.</p> <p>Selected: City/Davis Waste Removal (DWR) technical assistance for commercial waste evaluations.</p> <p>Enhanced backyard composting program with public education.</p> <p>Enhanced public outreach on source reduction issues.</p> <p>Establish formal awards program with Chamber of Commerce.</p>	<p>Selected: Initiate backyard composting program for yard and food waste through education and seminars. (implemented 1993)</p> <p>Educational programs for source reduction awareness by residents and business.</p> <p>Local awards and recognition program to generate public support.</p> <p>Develop government source reduction policies and model program.</p>	<p>Selected: Commercial waste audits through recycling coordinator's office.</p> <p>Initiate backyard composting program through education and Master Composter program.</p> <p>Educational programs for source reduction awareness by residents and business.</p> <p>Awards and recognition program in coordination with Chamber of Commerce.</p> <p>Develop government source reduction policies and model program.</p> <p>Contingency: Consider mandatory commercial waste audits.</p>	<p>Selected: Initiate backyard composting program through education and Master Composter Program. (implemented 1993)</p> <p>Educational programs for source reduction awareness by residents and businesses.</p> <p>Awards and recognition program in coordination with local media.</p> <p>Develop government source reduction policies and model program.</p>

Table 4-1
Summary of SRRE Diversion Programs

SRRE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Source Reduction (continued):					
Regulatory	<u>Existing:</u> Government recycled paper procurement policy.	<u>Existing:</u> Government procurement ordinance for recyclable and recycled content products.	<u>Selected:</u> Government procurement policies to consider durability, recycled content of all purchases.	<u>Selected:</u> Government procurement policies to consider durability, recycled content of all purchases.	<u>Selected:</u> Government procurement policies to consider durability, recyclability, recycled content, of all purchases.
Rate Structure Modification	<u>Existing:</u> Stratified tip fees at YCCL to promote waste reduction.	None.	<u>Contingency:</u> Establish quantity-based variable rates or user fees.	<u>Contingency:</u> Establish quantity-based variable rates or user fees.	<u>Contingency:</u> Establish quantity-based variable rates or user fees.
Recycling:					
Drop-off/Buy-back	<u>Existing:</u> Drop-off center at YCCL (1981) and Esparto Convenience Center (1991). YCCL: 1,2,5,6,7,8,9,10,13,14,16 SPM ECC: 1,5,6,8,9,10 SPM U.C.D. drop-offs at on-campus student housing. 1,3,4,5,6,8,9 SPM 2 student family housing drop-offs at U.C.D. 1,8,9 SPM <u>Selected:</u> 3 county operated drop-offs in county parks. 8,9 DM (implemented 1993)	<u>Existing:</u> 3 AB 2020 centers including buy-back at the DWR facility. Various materials, SPM Drop-off site at DWR facility. various materials SPM	<u>Existing:</u> 5 AB 2020 centers. Various materials, SPM (Semi-annual drop-off centers implemented 5/93)	<u>Existing:</u> Buy-back center at Town and Country Market, Hwy 128. 1,2,3,4,5,6,8,9 SPM City-maintained drop-off center for cardboard and newspaper. 1,2 DM <u>Selected:</u> Expand drop-off center to accept additional materials and include buy-back. 3,8,9 SPM/DM <u>Contingency:</u> Increase the number of drop-off/buy-back locations.	<u>Existing:</u> Drop-off and AB 2020 buy-back. Various materials SPM
Curbside Collection	None.	<u>Existing:</u> Weekly residential (1-9 unit) curbside recycling program. 1,2,3,4,5,6,9,10, motor oil SPM <u>Selected:</u> Increase promotion of curbside program.	<u>Selected:</u> Residential (1-4 unit) curbside collection. 1,5,6,8,9,10 SPM (implemented 4/92) <u>Contingency:</u> Expand program to include mixed paper and cardboard.	<u>Selected:</u> Residential curbside recycling program with targeted 80 percent participation. 1,4,5,6,8,9,10 SPM (implemented 3/94) <u>Contingency:</u> Expand materials collected in curbside program.	<u>Existing:</u> Weekly residential curbside programs for all single-family units. 1,5,6,8,9,10 SPM <u>Contingency:</u> Expand materials collected in curbside program.

Table 4-1
Summary of SRRE Diversion Programs

SRRE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Recycling (continued):					
Multi-unit Collection	None.	<p><u>Existing:</u> Multi-unit (>10 units) residential recycling program established. 1,2,3,4,5,6,9,10, motor oil SPM</p> <p><u>Selected:</u> Increase promotion of the multi-unit program.</p>	<p><u>Selected:</u> Multi-unit (mobile homes & 5+ units) collection program. 1,5,6,8,9,10 SPM (implemented 4/92)</p>	<p><u>Selected:</u> Multi-unit recycling program and redefine building codes. 1,4,5,6,8,9,10 SPM (implemented 3/94)</p>	<p><u>Existing:</u> Several multi-family units serviced through curbside program. 1,5,6,8,9,10 SPM</p> <p><u>Selected:</u> Increase number of units serviced and materials collected. Redefine building codes. 2,4,7,11 SPM</p>
Commercial Collection	<p><u>Existing:</u> White office paper recycling at selected county offices. 3 SPM</p> <p>U.C.D. office paper and beverage containers collection program through Project Recycle and Solid Waste Division. 3,8,9 SPM</p> <p>U.C.D. Office of Environmental Services sponsored paper collection program. 1,2,3,4,8 SPM</p> <p><u>Selected:</u> How-to education and technical assistance to businesses & haulers. Various materials. SPM</p>	<p><u>Existing:</u> Commercial source separated collection program. 1,2,3,4,5,6,9,10, SPM</p> <p>Bar & restaurant recycling program. 8,9 SPM</p> <p><u>Selected:</u> Expand & promote existing programs in coordination with DWR.</p> <p>Promote commercial wood recycling program in coordination with DWR.</p>	<p><u>Existing:</u> Limited source-separated collection activity. 1,2,3,4,8,9,15 SPM</p> <p><u>Selected:</u> Promote increased participation in source-separated collection in cooperation with hauler. Emphasis on cardboard and office paper. 2,3 SPM</p> <p>(Commercial mixed paper and wood waste programs implemented 1993)</p>	<p><u>Existing:</u> Limited source-separated collection activity. 1,2,5,6,8,9,10 SPM</p> <p><u>Selected:</u> Promote increased participation in source-separated collection in cooperation with hauler and recycling coordinator. 1,2,5,6,8,9,10 SPM</p> <p>(centralized cardboard collection implemented March 1994)</p>	<p><u>Existing:</u> Limited source-separated collection activity. 2,11 SPM</p> <p><u>Selected:</u> Promote increased participation in source-separated collection in cooperation with hauler and recycling coordinator. 2,3,8 SPM</p>

Table 4-1
Summary of SRRE Diversion Programs

SRRE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Recycling (continued)					
Other	<p>Existing: Various inter-departmental programs at U.C.D. including Veterinary Hospital recycling, rec hall recycling, Project Tree (telecommunications recycling), and Central Stores purchasing program.</p> <p>Various materials SPM, LR</p> <p>Selected: Bin-transfer operation at YCCL targeting self-haul loads for recovery. 11,12,13,14,16,18,19 DM,LR</p> <p>Creation of centrally managed campus-wide recycling program at U.C.D. to coordinate and expand all on-campus activities.</p> <p>Contingency: Automated materials recovery facility at YCCL for mixed waste recovery.</p> <p>All recoverable material types SPM, LR</p>	<p>Selected: Use of the planned bin-transfer operation at YCCL.</p> <p>Contingency: Limited participation in the automated materials recovery facility if selected by county.</p>	<p>Selected: Intermediate processing center for papers and OCC processing by hauler.</p> <p>Use of the planned bin-transfer operation at YCCL.</p> <p>Participation in the automated materials recovery facility if selected by county.</p>	<p>Selected: Use of the planned bin-transfer operation at YCCL.</p> <p>Participation in the automated materials recovery facility if selected by county.</p> <p>Contingency: Mandatory source separated residential and commercial collection of recyclables.</p>	<p>Existing: Bi-monthly newspaper collection conducted by non-profit organizations.</p> <p>Selected: Use of the planned bin-transfer operation at YCCL.</p> <p>Participation in the automated materials recovery facility if selected by county.</p>

Table 4-1
Summary of SRRE Diversion Programs

SRRE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Composting:					
Yard Waste	<p>Existing: Private chipping operation at YCCL targeting clean commercial and self-haul loads. 13,14 SPM, LR</p> <p>Manure composting and wood & brush chipping at U.C.D. Landfill for campus reuse. 14,15 LR</p> <p>Selected: Assist existing private operator to expand operation for countywide yard waste materials composting. 13,14 SPM, LR</p> <p>Expanded collection of manure, straw, and bedding at U.C.D. operations for composting at U.C.D. Landfill. 15 LR</p> <p>Contingency: Yard waste drop boxes at various locations in the unincorporated county.</p>	<p>Existing: Weekly curbside collection of source separated residential and commercial yard waste. Chipped at YCCL facility for alternative daily cover and boiler fuel. 13,14 SPM, LR</p> <p>Selected: Expand existing collection program to increase both participation and material capture rate.</p> <p>Mandate source separation of residential yard waste.</p>	<p>Selected: Curbside collection of source separated residential and commercial yard waste for composting at expanded YCCL operation. 13 SPM, LR</p>	<p>Existing: Curbside collection of source separated residential and commercial yard waste (currently landfilled at YCCL). 13 D</p> <p>Selected: Divert collected yard waste to expanded YCCL composting operation. 13 SPM, LR</p>	<p>Existing: Curbside collection of source separated residential yard waste (currently landfilled at YCCL). 13 D</p> <p>Selected: Divert collected yard waste to expanded YCCL composting operation. Include commercial green waste collections. 13 SPM,LR</p>

Table 4-1
Summary of SRRE Diversion Programs

SRRE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Special Wastes:					
Construction & Demolition, Inerts	<p><u>Existing:</u> Separation of inerts for winter roads construction at YCCL. 17 LR</p> <p>U.C.D campus asphalt & concrete used at U.C.D. Landfill for road base. 17 LR</p> <p><u>Selected:</u> Mandatory separation of asphalt and concrete waste delivered to YCCL; reuse at YCCL for road base. 17 LR</p>	<p><u>Existing:</u> Mandatory source separation of inert materials in some city contracts. Reused at YCCL for road base. 17 LR</p> <p><u>Selected:</u> Promote inerts recovery through education and outreach to local construction firms. 17,18 DM, LR</p>	<p><u>Existing:</u> Some diversion of asphalt and concrete at YCCL for road base. 17 LR</p> <p><u>Selected:</u> Require source separation and recycling of asphalt and concrete at large municipal and private sector projects. 17 DM, LR</p>	<p><u>Existing:</u> Some diversion of asphalt and concrete at YCCL for road base. 17 LR</p> <p><u>Selected:</u> Require source separation and recycling of asphalt and concrete at large municipal and private sector projects. Promote source separation through education to construction firms. Support efforts for an ordinance to mandate source separation of inerts. 17 DM, LR</p>	<p><u>Existing:</u> Some diversion of asphalt and concrete at YCCL for road base. 17 LR</p> <p><u>Selected:</u> Promote source separation through education to construction firms. Support efforts for an ordinance to mandate source separation of inerts. Consider revising city construction specifications to require recovered asphalt and concrete in new projects. 17 DM, LR</p>
Tires	<p><u>Existing:</u> Temporary storage at YCCL for use as fuel at Redding facility. 16 SPM</p> <p>Incidental tires found at U.C.D. Landfill are stockpiled for incineration. 16 DM</p> <p><u>Selected:</u> Public education on tire retreading; county government retread program; reuse in county projects; recovery at bin-transfer operation; continued transformation. 16 SPM, LR</p>	<p><u>Existing:</u> Tires received at YCCL are transported for incineration. Contracted tire recycling services divert tires generated by commercial dealers. 16 SPM, DM</p> <p><u>Selected:</u> Use of the self-haul bin transfer operation at YCCL for tire recovery. 16 SPM</p>	<p><u>Existing:</u> Tires received at YCCL are transported for incineration. 16 SPM</p> <p><u>Selected:</u> Use of the self-haul bin transfer operation at YCCL for tire recovery. 16 SPM</p>	<p><u>Existing:</u> Tires received at YCCL are transported for incineration. Contracted tire recycling services divert tires generated by commercial dealers. 16 SPM, DM</p> <p><u>Selected:</u> Use of the self-haul bin transfer operation at YCCL for tire recovery. 16 SPM</p>	<p><u>Existing:</u> Tires received at YCCL are transported for incineration. Contracted tire recycling services divert tires generated by commercial dealers. 16 SPM, DM</p> <p><u>Selected:</u> Use of the self-haul bin transfer operation at YCCL for tire recovery. 16 SPM</p>

Table 4-1
Summary of SRRE Diversion Programs

SRRE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Special Wastes (continued):					
White Goods (and scrap metal)	<p><u>Existing:</u> U.C.D campus metals (& other bulky items) salvaging program. 11,19 SPM</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL and Esparto Convenience Center to target white goods for recovery. 12 DM (phased implementation for white goods begun at ECC in 1993)</p>	<p><u>Existing:</u> Annual cleanup provides pickup of bulky items and white goods (disposed at YCCL). 12,19 D</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target white goods for recovery. 12 DM</p>	<p><u>Existing:</u> Annual cleanup provides pickup of bulky items and white goods (disposed at YCCL). 12,19 D</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target white goods for recovery. 12 DM (White goods collection program implemented 3/94)</p>	<p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target white goods for recovery. 12 DM</p>	<p><u>Existing:</u> Annual cleanup provides pickup of bulky items and white goods (disposed at YCCL). 12,19 D</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target white goods for recovery. 12 DM</p>
Wood waste	<p><u>Existing:</u> Clean loads of wood waste diverted to private chipping site at YCCL. 14 SPM, LR</p> <p>Wood waste from U.C.D. campus stockpiled at U.C.D. landfill for reuse and grinding. 14 SPM, LR</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target wood waste for recovery. 14 SPM, LR</p> <p>Consider mandatory wood waste recycling at construction projects.</p> <p>Provide public education on wood waste recycling.</p>	<p><u>Existing:</u> Wood waste collection at DWR facility. 14 SPM, LR</p> <p>Some diversion at YCCL through private chipping operation. 14 SPM, LR</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target wood waste for recovery. 14 SPM, LR</p>	<p><u>Existing:</u> Some diversion at YCCL through private chipping operation. 14 SPM, LR</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target wood waste for recovery. 14 SPM, LR</p>	<p><u>Existing:</u> Some wood waste chipped and sold as boiler fuel for biomass plants. 14 DM</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target wood waste for recovery. 14 SPM, LR</p>	<p><u>Existing:</u> Some diversion at YCCL through private chipping operation. 14 SPM, LR</p> <p><u>Selected:</u> Self-haul bin transfer operation at YCCL to target wood waste for recovery. 14 SPM, LR</p>

4.2 HHWE PROGRAMS SUMMARY

The county and cities have historically cooperated in the provision of HHW management services through coordination of periodic collection events sponsored by the county at the YCCL and selected city locations. The county and cities have continued this cooperative approach for the preparation of their HHWEs. They embraced this teaming approach to maximize efficiencies of facility and program planning, development, and operation. Table 4-2 summarizes the existing, selected, and contingency HHW programs described in the jurisdictions' final HHWEs, as locally adopted in 1992/1993. Existing programs are defined as those existing at the time of initial HHWE preparation.

<p>Table 4-2 Key:</p> <p><u>Material Type:</u> 1 = Used motor oil 2 = Auto batteries 3 = Latex paints 4 = Anti-freeze 5 = Non-recyclable HHW</p>
<p><u>Marketing Strategies:</u> SPM = Service provider marketed DM = Direct marketing by local government or generator to processors LR = Local reuse D = Disposed at Class I facility</p>

Table 4-2
Summary of HHWE Programs

HHWE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Periodic Collection Events	<p><u>Existing:</u> 4 annual collection events (FY '90 -'91) sponsored by the county. 1,2,3,4,5 SPM, LR, D</p> <p>Ongoing drop-off available at YCCL for used motor oil and spent lead-acid batteries. 1,2 DM</p> <p><u>Selected:</u> Identify dedicated location (YCCL) for events to serve all county residents. Increase number of collection events to 6 or 7 annually including b-o-p drops. 1,2,3,4,5 SPM, LR, D (implemented 1993)</p> <p>Add storage facility at YCCL for used anti-freeze drop-off. 4 DM</p>	<p><u>Existing:</u> 4 annual events (FY '90-'91) coordinated with the county. 3 additional HHW drop-off events and 1 paint drop-off event for city residents at DWR facility. 1,2,3,4,5 SPM, LR, D</p> <p>Ongoing drop-off available at YCCL for used motor oil and spent lead-acid batteries. 1,2 DM</p> <p>Ongoing used oil collection at DWR facility. 1 SPM</p> <p><u>Selected:</u> Expand collection events in cooperation with county program. 1,2,3,4,5 SPM, LR, D (implemented 1993)</p>	<p><u>Existing:</u> 4 annual collection events (FY '90 -'91) coordinated with the county. 1 of 4 events was held in West Sacramento. 1,2,3,4,5 SPM, LR, D</p> <p>Ongoing drop-off available at YCCL for used motor oil and spent lead-acid batteries. 1,2 DM</p> <p><u>Selected:</u> Establish year-round drop-off site within the city for recyclable HHW collection. 1,2,3 DM, LR</p>	<p><u>Existing:</u> 4 annual collection events (FY '90 -'91) coordinated with the county. 1 of 4 events was held in Woodland. 1,2,3,4,5 SPM, LR, D</p> <p>Ongoing drop-off available at YCCL for used motor oil and spent lead-acid batteries. 1,2 DM</p> <p><u>Selected:</u> Expand collection events in cooperation with county program. 1,2,3,4,5 SPM, LR, D (implemented 1993)</p>	<p><u>Existing:</u> 4 annual collection events (FY '90 -'91) coordinated with the county. 1 of 4 events was held in Woodland. 1,2,3,4,5 SPM, LR, D</p> <p>Ongoing drop-off available at YCCL for used motor oil and spent lead-acid batteries. 1,2 DM</p> <p><u>Selected:</u> Ongoing recyclable HHW collection program for Woodland residents. 1,2,3,4 SPM</p>
Permanent Facility	<p><u>Selected:</u> Establish temporary facility at YCCL for all types of HHW collected through regular events. 1,2,3,4,5 SPM, LR, D</p> <p><u>Contingency:</u> Establish permanent HHW facility at the YCCL in mid-term in conjunction with MRF to serve all county residents. 1,2,3,4,5 SPM, LR, D</p>	<p><u>Selected:</u> Participate in temporary HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p> <p><u>Contingency:</u> Participate in permanent HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p>	<p><u>Selected:</u> Participate in temporary HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p> <p><u>Contingency:</u> Participate in permanent HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p>	<p><u>Selected:</u> Participate in temporary HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p> <p><u>Contingency:</u> Participate in permanent HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p>	<p><u>Selected:</u> Participate in temporary HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p> <p><u>Contingency:</u> Participate in permanent HHW facility at YCCL. 1,2,3,4,5 SPM, LR, D</p>

Table 4-2
Summary of HHWE Programs

HHWE Program	Unincorporated County	City of Davis	City of West Sacramento	City of Winters	City of Woodland
Refuse Monitoring	<p><u>Existing:</u> Exclusion program at YCCL and Esparto Convenience Center: load checking and predisposal evaluations.</p> <p>Load checking program at U.C.D. Landfill.</p>	None.	None.	None.	None.
Education Program	<p><u>Existing:</u> Ongoing education program through advertisements, flyers, county newsletter, and brochures (some materials bilingual).</p> <p><u>Selected:</u> Expand program to include direct mailing, utility bill inserts, distribution of source reduction materials, county-run hotline, and school curriculum.</p>	<p><u>Existing:</u> Multi-faceted education program including special events, advertisements, flyers, newsletters and brochures. Some materials bilingual.</p> <p><u>Selected:</u> Expand program to include direct mailing, utility bill inserts, distribution of source reduction materials, point-of-purchase displays, hotline, school curriculum and awards program.</p>	<p><u>Existing:</u> Multi-faceted education program including refuse bill inserts, articles in local papers, distribution of multilingual flyers, and use of county provided materials.</p> <p><u>Selected:</u> Expand program to include direct mailing, distribution of multilingual source reduction materials, HHW hotline, school curriculum and awards program.</p>	<p><u>Existing:</u> Education program through county's program and local media. Some materials bilingual.</p> <p><u>Selected:</u> Expand program to include direct mailing, county hotline, distribution of source reduction materials, school curriculum and awards program.</p>	<p><u>Existing:</u> Multi-faceted education program including advertisements, refuse bill inserts, flyers, and county provided materials (some materials bilingual).</p> <p><u>Selected:</u> Expand program to include direct mailing, distribution of bilingual source reduction materials, hotline, school curriculum and awards program.</p>
Other	None.	<p><u>Existing:</u> Used motor oil, spent lead-acid batteries, and used anti-freeze accepted at 4 city service stations for recycling.</p> <p>1,2,4 DM</p> <p><u>Selected:</u> Potentially expand point-of-purchase collection to include latex paint.</p> <p>3 DM</p>	None.	<p><u>Existing:</u> One automotive-related business accepts used motor oil.</p> <p>1 D</p>	<p><u>Existing:</u> 3 automotive-related businesses accept recyclable HHW.</p> <p>1,2 DM</p>

4.3 NDFE SUMMARY

Yolo County and the four cities prepared and locally adopted NDFEs in 1994/1995. Table 4-3 summarizes those documents to describe existing and anticipated permitted non-disposal facilities for the five jurisdictions.

Table 4-3
NDFE Summary

Facility	Description	Quantity	Host Jurisdiction	Participating Jurisdictions
Existing Permitted Facilities:^a				
Esparto Convenience Center 57-AA-0002	Existing drop-off and recycling center serving the Capay Valley and western Yolo County. Approximately 1,300 tons per year are brought to the facility; about 53 tons per year are anticipated to be recycled. Waste is transferred to the YCCL for disposal.	1	Unincorporated Yolo County	Unincorporated Yolo County
Proposed Permitted Facilities:^b				
Yard Waste Composting Facility	Proposed medium-term yard waste composting operation at YCCL to be operated by Valley By-Products. Vendor currently (April 1995) applying for permit to include composting operation.	1	Unincorporated Yolo County	Unincorporated Yolo County, West Sacramento, Woodland, and Winters
Materials Recovery Facility	Contingency only. Would target selected commercial/industrial waste streams for recovery. Mid-term feasibility study will determine need for the facility, throughput, and potential cost.	1	Unincorporated Yolo County	Unincorporated Yolo County, West Sacramento, Woodland, and Winters (tentative only)

a The Davis Waste Removal facility accepts source separated materials for recycling. It is not included as it does not currently maintain a solid waste facility permit at its new address (2727 2nd St., Davis). Woodland Disposal's processing facility accepts source separated materials for recycling (1324 Paddock Place, Woodland). It is also not included as it is not currently a permitted solid waste facility.

b The proposed intermediate processing center for West Sacramento, as described in the city's final SRRE, is not included as it is anticipated that the facility will be a non-state permitted facility.

4.4 PROGRAMS COORDINATION

Local programs implemented in conjunction with countywide programs can allow for more efficient handling/disposal of solid waste and can more efficiently meet state-mandated diversion goals. The county and four cities have already initiated a coordinated approach to meet source reduction and recycling goals with the goal of maximizing efficiencies of facility and program planning, development, and operation. This coordination has been executed through regular meetings of the county's Waste Advisory Committee and Technical Advisory Committee, and through coordinated preparation of the SRREs and HHWEs. Programs planned for coordinated implementation in the mid- and long-term are identified in Table 4-4. "Mid-term" is defined as 1995 through 1999; "long-term" as 2000 and beyond. At this time, U.C. Davis programs are not included for coordinated implementation. The county and university will consider and evaluate programs coordination on a case-by-case basis through the mid-term planning period.

Table 4-4
Programs for Coordinated Implementation in Yolo County

Program	Timeframe
Source Reduction:	
<p><u>Regional Waste Exchange:</u> Potential countywide waste exchange with tie-in to the CALMAX program. Evaluate cities, U.C. Davis, regional counties', and area businesses interest in, and need for, coordinated program development.</p> <p>If positive, designate lead agency and coordinating committee.</p> <p>Solicit users and select/develop database.</p> <p>Regular promotion of service to business community.</p>	Mid-term
<p><u>Technical Assistance Coordination:</u> Coordinated development of model source reduction literature including backyard composting education materials, commercial waste audit/evaluation material, and school curriculum material.</p> <p>Assess cities, county, and U.C. Davis interest in sharing educational material resources.</p> <p>Identify model materials available from other jurisdictions and CIWMB.</p> <p>Develop and distribute model materials for local jurisdictions adaptation.</p>	Mid-term

Table 4-4
Programs for Coordinated Implementation in Yolo County

Program	Timeframe
Recycling:	
<p>Bin-Transfer Operation: Develop bin-transfer operation at YCCL targeting self-haul waste for materials recovery. Identify site needs for integrating operation into the existing YCCL drop-off center.</p> <p>Design and permit operation. Establish marketing arrangements for target materials.</p> <p>Perform site improvements; retain contractor.</p> <p>Initiate operations; execute countywide promotional campaign for the facility.</p>	<p>Mid-term</p>
<p>Automated MRF: (Contingency Plan) Mixed waste recovery facility at the YCCL. (excluding City of Davis) Identify participating jurisdictions: unincorporated county, West Sacramento, Winters, Woodland.</p> <p>Annually monitor countywide diversion rates and potential need for facility.</p> <p>If go, characterize waste disposal, identify target waste streams and throughput needs, preliminary design, costs, funding mechanisms/cost sharing. Confirm site at YCCL.</p> <p>Identify ownership/operating policies and initiate vendor procurement as appropriate.</p> <p>Execute CEQA compliance and permitting.</p> <p>Perform final design; facility development.</p> <p>Initiate operations; ongoing diversion/performance monitoring.</p>	<p>1993</p> <p>Annually</p> <p>July 1998 for feasibility study; mid-/long-term for remaining tasks depending on study results</p>

Table 4-4
Programs for Coordinated Implementation in Yolo County

Program	Timeframe
Composting:	
<p>Countywide Composting Facility: Expansion of chipping operation at YCCL to compost jurisdictions' yard waste (excluding City of Davis). Identify facility needs to expand existing operation; obtain permits.</p> <p>Secure markets for compost, e.g., ongoing use as alternative daily cover at YCCL.</p> <p>Obtain additional equipment & labor; perform expansions as jurisdictions' yard waste collections are diverted to the operation.</p>	Mid-term
Special Waste:	
<p>Construction/Demolition Diversion: Promote countywide source separation and recycling of inerts including generator education and technical assistance.</p>	Mid-term
<p>Wood Waste Diversion: Use of bin-transfer operation to segregate self-hauled wood waste for processing at YCCL composting facility.</p>	(See bin-transfer operation)
Household Hazardous Waste:	
<p>Temporary HHW facility: Temporary recycling storage facility at YCCL for sorting, bulking and lab packing delivered HHW. Design/coordinate collection program. Local approval and develop funding. Obtain storage containers; site improvement. Implement program.</p>	1995 for all tasks
<p>Permanent HHW Facility: (Contingency Plan) Permanent facility at YCCL for ongoing management of all recyclable/non-recyclable HHW types. Feasibility assessment for expanded operation. Local approval and develop funding. Permitting and CEQA compliance. Develop facility/hire staff. Implement program.</p>	Mid-/long-term; coordinated with MRF assessment
<p>HHW Education Program: Develop countywide educational materials for HHW source reduction and proper recycling/disposal.</p>	1992 & ongoing

SECTION 5 CIWMP FINANCING

The identification and development of adequate financing mechanisms is critical to the successful implementation of the Yolo County Integrated Waste Management Plan. This section provides planning level cost estimates for the countywide programs identified in Section 4.4, a description of the funding sources, and allocation costs and revenues.

5.1 COST ESTIMATES FOR COUNTYWIDE PROGRAMS

Table 5-1 identifies key programs for countywide coordination, the estimated costs of each program, and the anticipated revenue source(s). Costs are drawn from the jurisdictions' final SRREs and HHWEs, as locally adopted in 1992/1993, unless otherwise indicated. In several cases, (e.g., coordinated source reduction materials development and construction and demolition waste program) costs were calculated as the summation of each jurisdiction's individual cost for the activity. The county recognizes that these costs can be substantially reduced if coordinated under a countywide approach. Costs for programs to be located at the YCCL were drawn from the unincorporated county's final SRRE and HHWE. With the exception of the household hazardous waste program, countywide programs do not at this time include participation by U.C. Davis. The county and university will consider programs coordination on a case-by-case basis through the mid-term planning period.

Table 5-1
Countywide Program Costs

Selected Countywide Programs	Estimated Cost	Anticipated Revenue Source(s)
Regional waste exchange	Annual cost \$14,800 ^a	County Sanitation Enterprise Fund, possible grant funding and user fees
Coordinated source reduction materials development ^b	One-time cost \$64,000 Annual cost \$60,000	County Sanitation Enterprise Fund, cities' refuse rates/funds
Bin-transfer operation at YCCL	Capital cost \$280,000 Annual cost \$145,000	County Sanitation Enterprise Fund and material revenues
Automated materials recovery facility (excluding Davis) (contingency plan)	Capital cost approximately \$5 million ^c -- to be defined during feasibility study.	Initial capitalization: to be defined during feasibility study. ^d Operation: tipping fees and material revenues
Countywide composting operation (excluding Davis)	Annual cost \$570,000 ^e	Vendor tipping fees, material revenues
Special wastes program ^f (c & d waste education)	One-time cost \$11,000 Annual cost \$11,000	County Sanitation Enterprise Fund, cities' refuse rates/funds
Temporary HHW facility	Annual cost \$240,000 (collection plus amortized facility)	County Sanitation Enterprise Fund, state grants

- a Estimated at 25 percent recycling coordinator FTE at fully loaded rate of \$59,300 per year.
- b Includes coordinated development of model educational materials in support of local backyard composting, businesses technical assistance for source reduction, general source reduction literature, and school curriculum development. Costs are the summation of individual jurisdictions' costs for these materials development as drawn from the Education and Public Information Components of the final SRREs as locally adopted, 1992/1993.
- c The unincorporated county's final SRRE reported this figure at \$10 million. More recent estimates place this figure at \$5 million. Cost will be more accurately determined as part of the mid-term feasibility study.
- d Options for consideration may include County Sanitation Enterprise Fund, various forms of bond financing, vendor financing and public-private partnerships.
- e Cost was estimated assuming 15,840^{15,000 2001} tons of material (West Sacramento, Winters, Woodland, and the unincorporated county final SRREs estimated diversion for 1995) is processed at a fee of \$36 per ton (current landfill tipping fee).
- f Countywide wood waste processing program costs are included in bin-transfer and composting facility costs. C&D program costs are the summation of individual jurisdictions' costs for educating generators.

Table 5-1
Countywide Program Costs

Selected Countywide Programs	Estimated Cost	Anticipated Revenue Source(s)
Permanent HHW facility (contingency plan)	Annual cost \$250,000 - \$300,000	County Sanitation Enterprise Fund, state grants
HHW education program ^g	Annual cost \$15,000 at full implementation	County Sanitation Enterprise Fund, state grants

^g Includes education and public information materials for countywide distribution.

5.2 ALLOCATION OF COSTS AND REVENUES

The primary source of funding for countywide programs is the County Sanitation Enterprise Fund. The fund derives its monies from tipping fees at the YCCL. As such, each participating jurisdiction is allocated a cost based on the amount of waste it delivers to the facility. Revenues from these operations would most likely be used to offset operating costs of the operations, therefore, revenues would also be allocated based on waste delivery by each jurisdiction. For those programs involving model educational materials development (e.g., source reduction, C&D waste, HHW educational materials), cost of local customizing and distribution would be borne by the individual jurisdictions through their refuse rates and/or other locally appropriate sources.

The county recognizes that as waste diversion programs come on-line, disposal volumes will decrease (discounting the impact of future waste imports), and correspondingly, County Sanitation Enterprise Fund revenues will decrease. To ensure adequate, long-term commitment of funds to countywide programs, the county and cities will need to consider alternative and supplemental funding sources for long-term countywide programs support. Supplemental funding sources for countywide programs to be considered by the county and cities include, but are not limited to:

- **Grants/Loans** -- The county has historically obtained state grants to support local HHW management programs. The county and cities will continue to monitor the availability of, and pursue as appropriate, grants and loans from the CIWMB and other sources to support AB 939 programs.

- **Tipping Fees** -- Tipping fees are currently the only source of monies for the County Sanitation Enterprise Fund. As necessary, the county will consider increasing tipping fees to pay for countywide programs at YCCL. The county will carefully evaluate any increases to ensure that such fees are not overly burdensome to the community and facility economics are not jeopardized.
- **Collection Rates** -- This is the primary source of hauler funding for waste collection and recycling services in the four cities. An increase in these rates is one of the simplest ways to fund local waste diversion programs if the existing hauler provides these additional services. A disadvantage is that only those residents and businesses that are required to sign-up for refuse collection pay for the waste diversion programs financed by the rates.
- **Material Revenues** -- It is anticipated that revenues earned by the sale of materials recovered from countywide facilities located at YCCL would be used to help offset facilities' operating costs.

It is possible that a combination of several funding sources will be employed in the long-term to ensure equitable contribution by all parties receiving solid waste services and to ensure a consistent and adequate flow of funds for countywide programs support.

APPENDIX A:
RESPONSES TO COMMENTS ON THE DRAFT SUMMARY PLAN

APPENDIX A
RESPONSES TO COMMENTS ON THE DRAFT SUMMARY PLAN

A total of three public meetings were held during the 45-day review period to receive comments on the draft Summary Plan: May 11 (public meeting, Esparto); May 18 (public meeting of the Waste Advisory Committee, Davis); and May 23 (Board of Supervisors public hearing, Woodland). All meetings were noticed in accordance with CCR, Title 14, Division 7, Chapter 9, Article 8, §18778 and §18782. The draft Summary Plan was also submitted to the Yolo County Waste Advisory Committee (local task force for AB 939 compliance), Yolo County Technical Advisory Committee, the four incorporated cities of Yolo County, Yolo County Department of Public Health (local enforcement agency), and the California Integrated Waste Management Board for review in accordance CCR, Title 14, Division 7, Chapter 9, Article 8, §18779.

All comments received on the draft Summary Plan during the 45-day review period are included herein. Responses to those comments for this final Summary Plan are summarized following each comment submittal.

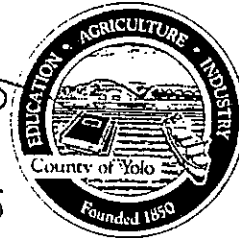
Parties submitting comments on the draft Summary Plan were:

- Yolo County Department of Health, Environmental Health Services
- California Integrated Waste Management Board
- Yolo County Waste Advisory Committee

DEPARTMENT OF PUBLIC HEALTH

Environmental Health Services

file
- cc Michael
with VEG, EVA
COUNTY OF YOLO



RECEIVED
MAY 04 1995
Yolo County Public Works
Integrated Waste Management

ROBERT O. BATES, Jr., M.D. - DIRECTOR / HEALTH OFFICER
THOMAS Y. TO - DIRECTOR OF ENVIRONMENTAL HEALTH

April 19, 1995

10 COTTONWOOD ST. • WOODLAND, CA 95695
(916) 666-8646 FAX (916) 666-8674
 600 "A" ST. • DAVIS, CA 95616
(916) 757-5540 (916) 372-3700

Ms. Tamara Bowcutt, Assistant Director
Yolo County Department of Public Works and Transportation
Division of Integrated Waste Management
600 A Street, Room 158
Davis, CA 95616

RE: Draft County Integrated Waste Management Plan - Siting
Element and Summary Plan

Dear Tamara:

Yolo County Environmental Health, acting as the Local Enforcement Agency (LEA) for solid waste regulations in Yolo County, has reviewed the above referenced draft document. The document appears to meet the intent of the Integrated Waste Management Act of 1989 (AB 939, Sher) specifically, the Public Resources Code (PRC), Division 30, Part 2, Chapter 4, Section 41700 et seq. and Title 14, California Code of Regulations (14 CCR), Division 7, Chapter 9, Sections 18755 et seq.

The LEA is providing the following comments:

- ① 1. Summary Plan, Executive Summary Table ES-1, footnote c, page ES-2. It is recommended that the following language be included to describe the operations conducted at Davis waste Removal: Davis Waste Removal (DWR) currently accepts only source separated materials for reuse/recycling. Transfer station activities as defined in PRC Section 40200 do not occur.
- ② 2. Summary Plan, Section 4.3 NDFE Summary, Table 4-3, footnote a, page 4-12. The recommended language of comment no. 1 above may be used to describe operations at Davis Waste Removal and Woodland Disposal's processing facility. Delete the term "Transfer Station" after Davis Waste Removal in the footnote.
- 3. Siting Element, Section 2 Table 2-1, page 2-2. The owner/operator of the University of California, Davis Sanitary Landfill is described in the latest version (Revised March 9,

1995) of the Report of Disposal Site Information (RDSI) for the facility as follows:

Owner: Regents of the University of California

Operator: University of California, Davis
Facilities Department
Office of Environmental Services

The above noted owner/operator information will be incorporated into the proposed revision of the Solid Waste Facility Permit (SWFP) as it appears in the RDSI and other supporting documentation for the facility.

The date of last permit should be August 1, 1978. On this date the SWFP was actually issued to the University.

The Remaining Permitted Disposal Capacity for the University's Waste Management Unit-1 (WMU-1) as described in the table is correct. You may wish to cite the latest version (March 9, 1995) of the RDSI for the facility.

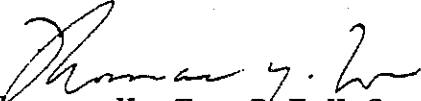
The Maximum Permitted Disposal is inaccurate. The 1978 SWFP allowed 100 to 130 cy of solid wastes per day. The conversion factor used for this facility at the time of SWFP issuance was 500 lbs. per cubic yard. Thus, the maximum daily permitted disposal (in tons) under the SWFP is 32.5. Under the December 16, 1991 Notice and Order (amended September 14, 1992 and September 20, 1993) issued to the facility by the LEA, the facility may receive up to 500 tons per day. Using the current industry standard of 1200 lbs per cy, this amounts to approximately 833 cy allowed under the Notice and Order. The current proposed SWFP for the facility reflects these amounts with the exception that the annual maximum tonnage allowed for this facility will be approximately 54,932 tons (4578 tons per month) as proposed by the University in the March 9, 1995 RDSI for the facility.

The annual figures for Maximum Permitted Disposal at this facility also appear to be incorrect. Under the existing 1978 SWFP, the facility's permitted days of operation are Monday through Saturday (6 days per week or 312 days per year). Using the 32.5 tons per day allowed under the SWFP, the annual maximum permitted disposal at this facility is 10,140 tons (40,560 cy using 1978 conversion factor of 500 lbs per cy). The current proposed SWFP for the facility will limit the annual maximum tonnage allowed at this facility to 54,932 tons (91,553 cy using the current industry standard of 1200 lbs per cy) as identified in the RDSI.

You may need to check other tables in the Siting Element document to see if these revised values affect them.

The LEA appreciates the opportunity to review and comment on this document. Please direct questions regarding this matter to Craig A. Walker at ext. 9140 or myself.

Sincerely,



Thomas Y. To, R.E.H.S., MPH
Director, Environmental Health Services

cw:\ciwmp

Commenting Party/Agency:

Thomas To, Director

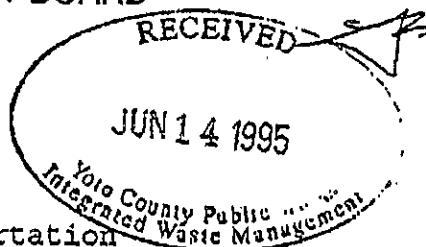
Yolo County Department of Public Health, Environmental Health Services

Comment No.	Response	Text Change
1.	Text corrected as recommended regarding Davis Waste Removal facility.	Page ES-2, Table ES-1
2.	Text corrected as recommended regarding Davis Waste Removal facility and Woodland Disposal's processing facility.	Page 4-12, Table 4-3

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

8800 Cal Center Drive
Sacramento, California 95826

June 13, 1995



Tamara Bowcutt, Assistant Director
Department of Public Works and Transportation
600 A Street, Room 158
Davis, CA 95616

RE: Board Review and Comments on the Preliminary Draft Yolo
County Summary Plan and Siting Element

Dear Ms. Bowcutt:

The California Integrated Waste Management Board (Board) has reviewed the preliminary draft Yolo County Summary Plan (Plan) and Siting Element (CSE) for compliance with Chapter 9, Title 14 of the California Code of Regulations (CCR), Planning Guidelines and Procedures for Preparing and Revising Countywide Integrated Waste Management Plans (Guidelines). Attached to this letter are comments staff had on the Plan and CSE. Please address these comments received by the County in the final Plan and CSE.

Board staff has also reviewed the Siting Element and Summary Plan for the CEQA requirement. These documents do not state whether a CEQA document is being or has been completed for the SE. As a reminder, the Siting Element/Summary Plan will require environmental review, as specified in the California Environmental Quality Act (CEQA). Board regulations require preparation of a Negative Declaration or Environmental Impact Report and subsequent filing of a Notice of Determination [14 CCR 18784 (a)(6)]. The CEQA document must be routed through the State Clearinghouse for distribution to responsible agencies, including the Board, for review and comment. When submitting the final drafts of the Siting Element and Summary Plan to the Board for consideration of approval, please be sure to include the MOD filed with the County Clerk or State Clearinghouse, to ensure that your submittal is complete.

Board staff is available to assist you as you prepare your planning documents. If you have any questions related to the comments on the preliminary draft Summary Plan or Countywide Siting Element, please call Kaoru Cruz at (916) 255-2391. Please contact Yasmin Satter at (916) 255-2394 if you have questions regarding the CEQA requirements.

Sincerely,

Judith J. Friedman, Deputy Director
Diversion, Planning, & Local Assistance Division

Attachments

ATTACHMENT 1
YOLO COUNTY PRELIMINARY DRAFT SUMMARY PLAN COMMENTS

In the following comments on the preliminary draft Summary Plan (Plan), please note that all comments which include a reference to the California Code of Regulations (CCR) or to the Public Resources Code (PRC) concern regulatory or statutory requirements and should be fully addressed in the final Plan. Requests for a definition, missing information, or a clarification of information should also be fully addressed in the final Plan. Other recommendations by Board staff are provided for your consideration.

GOALS AND OBJECTIVES (CCR 18757.1)

1 | On Table 1-2, Goal 1, it is unclear if the diversion mandates will be achieved by each jurisdiction by 1995 and by 2000 because the 1990 diversion rates are unknown; therefore, the sum of projections for short term and mid-term planning periods don't achieve 25% and 50% diversion mandates. It would be helpful to add either 1990 diversion rates or the overall diversion rates (1995 and 2000) under Goal 1. Also, it would be helpful to restate each goal briefly in Table 1-2.

2 | One of the objectives for Goal 4 is implementation of the countywide permanent HHW facility, which is a tentative plan. It states that the objective will be coordinated with a Materials Recovery Facility (MRF), which is a contingency plan. Please clarify if the countywide permanent HHW facility is also a contingency plan or not.

CURRENT SOLID WASTE MANAGEMENT PRACTICES (CCR 18757.5)

3 | In Table 3-4, staff recommends the County add a "total column" to show overall total of waste collected.

SUMMARY OF SRREs, HHWES, & NDFEs (CCR 18757.7)

4 | Table 4-1 identifies that yard wastes in the City of Davis are processed at the Davis Waste Removal (DWR) facility. However, a composting facility at the DWR is not identified in the Table 4-3. If the composting facility at DWR is unpermitted and exempt or exclusion from the SWFP, please provide the estimated amount and type of material recovered or processed, the operator, and owner information as required in CCR 18757.5(c).

5 | In the Program Coordination Section, please specify the timeframe for the feasibility study for the automated MRF. (CCR 18757.7(d)(1)(A))

Commenting Party/Agency:

Judith Friedman, Deputy Director, Local Assistance Division
CA Integrated Waste Management Board

Comment No.	Response	Text Change
1.	1995 and 2000 diversion goals as documented in the jurisdictions' SRREs were added as requested. Goals briefly restated in Table 1-2 as requested.	Pages 1-5 to 1-7, Table 1-2
2.	Countywide permanent HHW facility is planned as a contingency facility. Text corrected accordingly.	Page 1-6, Table 1-2 and Page 4-10, Table 4-2
3.	Total column added as requested.	Page 3-6, Table 3-4
4.	Davis Waste Removal currently delivers yard wastes to YCCL for processing by Valley By-Products. Text corrected accordingly.	Page 4-6, Table 4-1
5.	Timeframe for the feasibility study (July 1998) added as requested.	Page 4-14, Table 4-4

Commenting Party/Agency:

Yolo County Waste Advisory Committee, Michael Lien, Chair*

Comment	Response	Text Change
1. On Page 2-2, change the term "Black" to "African American".	Text changed as requested.	Page 2-2, Table 2-1
2. For Table 2-1, breakout data for persons of Hispanic origin.	Data broken out as requested.	Page 2-2, Table 2-1
3. For Table 2-1, include bicycle as a significant transport mode for Davis and U.C. Davis.	Text added as requested.	Page 2-3, Table 2-1

* Waste Advisory Committee provided these verbal comments during the course of their April 20, 1995 meeting.

APPENDIX B:
RESOLUTIONS FROM THE JURISDICTIONS