



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Consider an amendment to the Refuse Franchise Agreement to provide for addition of industrial refuse service

MEETING DATE: May 1, 1991

PREPARED BY: City Manager

RECOMMENDED ACTION: That City Council conduct a public hearing regarding an amendment to the Refuse Franchise Agreement to provide for the addition of industrial customers, and take action as deemed appropriate.

BACKGROUND INFORMATION: On Wednesday, February 20, 1991, City Council considered the introduction of an ordinance to amend Chapter 13.16 - Solid Waste - of the City Code. This ordinance was tabled pending further review and recommendation of the matter by the City of Lodi Solid Waste Management Task Force.

At its meeting of Monday, March 25, 1991, the Task Force unanimously voted (Dave Vaccarezza abstained) to "recommend to City Council the approval of an amendment to the Refuse Franchise Agreement to provide for addition of Industrial Refuse Service". Representatives from the industrial community were invited, attended, and expressed their concerns at this meeting. After hearing these concerns, Task Force members agreed that if such amendment is made, it should not interfere with industries' management of in-house recyclable materials. That would be materials which an industrial company does not wish to set out for collection by any industrial waste disposal organization.

Minutes of the third meeting of the Task Force are attached to provide further background into the discussion which preceded their recommendations (Exhibit A).

APPROVED: _____

THOMAS A. PETERSON
City Manager

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AGENDA TITLE: Consider an amendment to the Refuse Franchise Agreement to provide
for addition of industrial refuse service

MEETING DATE: May 1, 1991

Page Two

An Ordinance of the Lodi City Council Amending the City's Exclusive Franchise for Waste Disposal Services to Include Industrial Waste (Exhibit B) and An Ordinance of the Lodi City Council Amending Lodi Municipal Code Chapter 13.16 - Solid Waste - to Provide for the Addition of Industrial Refuse Service (Exhibit C) have been attached for Council's review and any necessary action.

A letter from EMCON Associates expressing their position on this subject (Exhibit D), and the City of Lodi Waste Characterization Analysis (Exhibit E) are also attached for your information.

FUNDING: None required.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Thomas A. Peterson", written over a horizontal line.

Thomas A. Peterson
City Manager

Prepared by: Kirk J. Evans
Administrative Assistant to the City Manager

TAP/KE:tp
Attachments

CCAGEN02/TXTA.TLP

CITY OF LODI
SOLID WASTE MANAGEMENT TASK FORCE
MINUTES OF THE THIRD MEETING

Monday, March 25, 1991

City Library
201 W. Locust Street
Lodi, CA 95240

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Meeting began at 7:00 p.m.

1. Roll call

Members present:

Barbara Bowers
Dennis Deg - Chair
Mayor David M. Hinchman
Dave Mende
Janet Pruss
Glenn Robison
Dave Vaccarezza
Theo Vandenberg
Ben Vander Heiden -
Vice Chair

Members absent:

Kevin Van Steenberge

Staff Members:

Kirk Evans, Asst. to the City Mgr.
John F. Boss, Executive Manager
EMCON Associates

Industry Representatives:

Valley Industries-Fred Baumbach
Wallace Computer Services -

Curt Brooks

Rick Long

Interlake-Lodi Fab. Industries-

Steve Fraser

Dale Dieckbernd

General Mills-Nick Holman

Pacific Coast Producers-

Bob Paulat

Pacific Coast Producers Corporate-

Ron Myers

Cal. Waste Removal Systems-

Thomas A. Sanchez

2. Ben Vander Heiden moved, Dennis Deg seconded, for approval, of the minutes of the second Task Force meeting of February 25, 1991.

-Passed-

3. Recommendation to City Council regarding an amendment to the refuse franchise agreement:

- EMCON Associates submitted a letter expressing their position on this subject to all Task Force members.
- Dave Vaccarezza indicated he would not be voting on this issue.
- Question from Interlake Lodi Fab. - Are recyclable materials to be collected as part of the proposed amendment?
- Answer from Dave Vaccarezza - There are different categories of waste materials: 1) By-products 2) In house recyclable materials 3) Refuse with recoverable materials mixed in. He indicated that if California Waste Systems is granted a franchise for industrial waste collection they would focus on collecting refuse with recoverable materials mixed in. Recyclable materials would be collected if they were set out by the industry to be specifically collected by California Waste Systems.
- Theo Vandenberg and Dennis Deg commented that their concern is with waste materials being sent to the landfill, not with materials being recycled internally by industries.
- Janet Pruss indicated she doesn't see any difference between the residential, commercial, and industrial streams - if the City controls collection of the first two types of waste, there should be no problem controlling industrial waste.
- Mayor Hinchman commented that this issue is being considered in part to determine if a centralized processing and accounting entity for industrial waste collection is the most effective method for meeting the requirements of AB939.
- Bob Paulat of Pacific Coast Producers indicated his firm has the data the City needs concerning industrial waste composition and believes all industrial producers have this data. PCP is concerned that lack of free enterprise in this market may inflate prices for industrial waste pickup.
- Mayor Hinchman asked the industry representatives if they are opposed to granting a franchise for collection of industrial nonreusable refuse materials only. None of the industry

representatives indicated opposition to this proposal. Bob Paulat of Pacific Coast Producers indicated his firm wants to be very cooperative and help the City meet its AB939 goals. However, he remains concerned primarily with how collection rates will be kept competitive.

- Dave Mende moved, Theo Vandenberg seconded, that the City of Lodi Solid Waste Management Task Force recommend to City Council the approval of an amendment to the Refuse Franchise Agreement to provide for addition of Industrial Refuse Service.
 - Dave Vaccarezza abstained
 - One member absent
 - Passed unanimously
- 4. Mission Statement -
 - Barbara Bowers moved, Mayor Hinchman seconded for approval of the mission statement as presented.
 - Passed unanimously-
- 5. Members made their recommendations regarding SRRE Goals and Objectives.
 - Dave Vaccarezza questioned p.6 #1 - regional composting program. He also indicated a need for an anti-material theft objective.
 - Dave Mende feels that a funding goal should be included.
 - Inclusion of HHW was questioned considering the fact that Cities' HHW elements are being prepared primarily by San Joaquin County.
 - John Boss recommended that members submit written comments to Kirk Evans by Friday to allow EMCON to compile a new draft.
 - Janet Pruss asked if her comments from last meeting would be reflected in new draft. Answer - Yes.
- 6. John F. Boss provided a general update and indication of materials which will be made available at next meeting.
 1. Revised Goals and Objectives
 2. Solid Waste Generation numbers
 3. Results from questionnaires
 4. Outline of SRR Element
- 7. Members were concerned with the budget for the public information effort they wish to undertake.
 - Kirk Evans was directed to find out if the Refuse Surcharge or another account is available to provide funding for a regular feature in the newspaper.

Minutes - City of Lodi Solid Waste Management Task Force
Monday, March 25, 1991
Page Four

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- Barbara Bowers asked Kirk Evans to write letters requesting permission to use excerpts from a variety of publications.
8. Next meeting of the Task Force was set for Monday, April 29, 1991, at 7:00 p.m..
 9. Dennis Deg moved, Mayor Hinchman seconded, for adjournment.
Adjournment: 9:05 p.m.

- Passed-

Respectfully Submitted,



Kirk Evans
Secretary, Solid Waste Management Task Force
Assistant to the City Manager

KE:tp

KEAAMM14

ORDINANCE NO. 1513

AN ORDINANCE OF THE LODI CITY COUNCIL
AMENDING THE CITY'S EXCLUSIVE FRANCHISE
FOR WASTE DISPOSAL SERVICES TO INCLUDE INDUSTRIAL WASTE

=====

WHEREAS, on September 28, 1988 under Ordinance 1433, the Lodi City Council granted to Lodi Sanitary City Disposal Company, Inc. the exclusive right to collect all residential and commercial waste within the City Limits; and

WHEREAS, it now appears necessary and desirable to modify that Agreement to include the collection of industrial waste; and

WHEREAS, the Lodi City Council hereby determines pursuant to Public Resources Code Section 40059 that the public health, safety and well being require that refuse collection services in the City of Lodi, including collection of industrial waste, be provided by means of an exclusive contract without competitive bidding; and

WHEREAS, Lodi Sanitary City Disposal Company, Inc., a California corporation, is qualified to perform such refuse collection services by means of such contract in the interests of public health, safety, and well being;

NOW, THEREFORE, THE LODI CITY COUNCIL ORDAINS as follows:

SECTION 1. The Agreement entered into between the City and Lodi Sanitary City Disposal Company, Inc. on September 7, 1988 is hereby amended as described in the Addendum to the Agreement attached hereto.

SECTION 2. All ordinances and parts of ordinances in conflict herewith are repealed insofar as such conflict may exist.

SECTION 3. This ordinance shall be published one time in the "Lodi News Sentinel", a daily newspaper of general circulation printed and published in the City of Lodi and shall be in force and take effect thirty days from and after its passage and approval.

Approved this day of 1991

DAVID M. HINCHMAN
Mayor

Attest:

ALICE M. REIMCHE
City Clerk

=====
State of California
County of San Joaquin, ss.

I, Alice M. Reimche, City Clerk of the City of Lodi, do hereby certify that Ordinance No.1513 was introduced at a regular meeting of the City Council of the City of Lodi held May 1, 1991 and was thereafter passed, adopted and ordered to print at a regular meeting of said Council held _____, 1991 by the following vote:

Ayes: Council Members -
Noes: Council Members -
Absent: Council Members -
Abstain: Council Members -

I further certify that Ordinance No. 1513 was approved and signed by the Mayor on the date of its passage and the same has been published pursuant to law.

ALICE M. REIMCHE
City Clerk

Approved as to Form

A handwritten signature in black ink, appearing to read "BW McNatt", with a long horizontal stroke extending to the right.

BOBBY W. McNATT
City Attorney

ORD1513/TXTA.01V

M O D I F I C A T I O N T O A G R E E M E N T

=====

THIS MODIFICATION TO THE AGREEMENT DATED SEPTEMBER 7, 1988 (the Agreement) is entered into this ____ day of _____, 1991, by and between the parties to the original Agreement. All terms of the original Agreement, save and except those additions, deletions, and modifications specified herein, shall continue.

R E C I T A L S

Paragraph 1 (Definitions) is modified by the addition thereto of a subsection (d) as follows:

d. INDUSTRIAL CUSTOMERS

ALL INDUSTRIAL CUSTOMERS WITHIN THE CITY LIMITS.

Paragraph 2 shall read:

2. "Scope of Agreement

"Contractor shall furnish all materials and equipment required for the orderly collection of refuse on a regularly-scheduled basis to all residential, INDUSTRIAL, and commercial customers
... "

Paragraph 3 shall be modified to read:

3. "Exclusive Nature of Agreement

"Contractor shall have within the City limits, subject to the limitations contained in this Agreement, the exclusive right and duty to collect and transport to a site designated by the City all RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL refuse ~~except~~ Industrial refuse ..."

Paragraph 6 shall be modified by the addition thereto of a subparagraph c. as follows:

c. Industrial Customers

(Collection schedule to be added.)

Paragraph 8 shall be modified, to include industrial collection, as follows:

"8. Hours of Collection

" ... INDUSTRIAL COLLECTION SHALL BE MADE ON AN "AS NEEDED" BASIS, SUBJECT TO AGREEMENT BETWEEN THE CONTRACTOR AND INDUSTRIAL CUSTOMER".

Paragraph 30 shall be modified to delete reference to Lodi Municipal Code Section 13.16.060 which section no longer relates to insurance liability, as follows:

"30. Liability Insurance

"... In this connection, Contractor agrees to furnish the City with evidence of COMPLIANCE WITH THE REQUIREMENTS OF SECTION 13.16.060 OF THE LODI MUNICIPAL CODE, AS WELL FURNISHING EVIDENCE of Workers' Compensation Insurance coverage and a certificate of insurance showing a minimum of \$500,000 for damage to property, and \$1,000,000 for injury to persons, with the City of Lodi named as an additional insured on said policy."

IN WITNESS WHEREOF, the parties hereto have set their hands the day and year first hereinabove mentioned.

CITY OF LODI, a municipal
corporation

LODI SANITARY DISPOSAL COMPANY, INC.


THOMAS A. PETERSON
City Manager

DAVID VACCAREZZA
General Manager

ATTEST:

APPROVED AS TO FORM:

ALICE M. REIMCHE
City Clerk



BOBBY W. McNATT
City Attorney

EXHIBIT C

ORDINANCE NO. 1512

AN ORDINANCE OF THE LODI CITY COUNCIL AMENDING LODI MUNICIPAL CODE
CHAPTER 13.16 - SOLID WASTE - TO PROVIDE FOR THE ADDITION OF
INDUSTRIAL REFUSE SERVICE.

BE IT ORDAINED BY THE LODI CITY COUNCIL, as follows:

Lodi Municipal Code Chapter 13.16 - Solid Waste - is hereby
amended to provide for the addition thereto of industrial refuse
service, as follows:

13.16.020. Required Services: Exceptions.

- A. "Every person owning or occupying residential, commercial or
industrial premises within the City limits shall utilize the
refuse collection and transportation services of Contractor for
which the City has contracted, and shall pay the fees for those
services as set by the City. Each owner or occupier of
residential, commercial or industrial property shall directly
arrange with the City for the provision of services. ..."

13.16.040. All Requests for Service to be Met.

"Contractor shall provide refuse collection and transportation
services to all residential, commercial and industrial customers
within the area specified in its contract. ..."

13.16.050. Placement of Containers.

- A. "... B. Commercial and Industrial:

"Commercial and industrial customers shall place refuse in a
location on their premises that is readily accessible to

Contractor's collection vehicles, and that has received Contractor's prior approval as conforming to its specifications and requirements for refuse container facilities. ..."

13.16.080. Container Maintenance.

"... It shall be the responsibility of commercial and industrial customers to maintain refuse containers in a clean and sanitary condition, ... "

13.16.120 Monthly Rates.

"The City shall establish by uncodified ordinance of the City Council, pursuant to Health and Safety Code § 5471, a schedule of rates to be charged ... Such schedule shall set the rates for commercial, residential, and industrial refuse collection, and refuse permits."

SECTION 2. All ordinances and parts of ordinances in conflict herewith are repealed insofar as such conflict may exist.

SECTION 3. This ordinance shall be published one time in the "Lodi News Sentinel", a daily newspaper of general circulation printed and published in the City of Lodi and shall be in force and take effect thirty days from and after its passage and approval.

Approved this day of

DAVID M. HINCHMAN
Mayor

Attest:

ALICE M. REIMCHE
City Clerk

State of California
County of San Joaquin, ss.

I, Alice M. Reimche, City Clerk of the City of Lodi, do hereby certify that Ordinance No. 1512 was introduced at a regular meeting of the City Council of the City of Lodi held May 1, 1991, and was thereafter passed, adopted and ordered to print at a regular meeting of said Council held _____ by the following vote:

Ayes:	Council Members -
Noes:	Council Members -
Absent:	Council Members -
Abstain:	Council Members -

I further certify that Ordinance No. 1512 was approved and signed by the Mayor on the date of its passage and the same has been published pursuant to law.

ALICE M. REIMCHE
City Clerk

Approved as to Form



BOBBY W. McNATT
City Attorney

ORD1512/TXTA.01V



March 25, 1991
Project F64-01.01

Mr. Kirk Evans
Administrative Assistant to the City Manager
City of Lodi
221 West Pine Street
P.O. Box 3006
Lodi, California 95241-1910

Re: Flow Control Issue and AB 939

Dear Mr. Evans:

This letter responds to the City of Lodi's (City's) request to review the issue of exclusive franchise operations as it may relate to integrated waste management planning mandated by Assembly Bill (AB) 939. Flow control is a key issue in any solid waste system and is critical to assure reaching the AB 939 goals and the need for an integrated approach to solid waste management.

A significant amount of waste diversion will come from aggressive separation of commercial and industrial waste, both by appropriate diversion of recyclables rich loads and by separation of recyclables at a centralized materials recovery facility (MRF). In the case of the City, the waste stream is not of sufficient size to economically support more than one MRF. Flow control through issuance of exclusive franchises can guarantee that a sufficient waste or material base and revenues rate base will be available to support the costs of the City's waste processing system. This is especially true for jurisdictions where a facility is already in place for which the owner has expended a significant level of resources.

AB 939 requires each jurisdiction to prepare a plan for integrated waste management and to report annually on progress towards achieving state-mandated goals and objectives (section 41821 of the Public Resources

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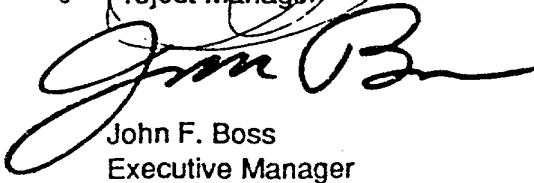
Code). Having one franchise hauler operating within the City limits will significantly reduce the annual costs that would likely be incurred by the City to gather data on waste generation, diversion, and disposal, including information on categories and types of wastes. Under the present arrangement, a number of haulers would have to integrate their accounting systems with the City's reporting requirements.

At the present time, an exclusive franchise arrangement fits the needs of the City of Lodi for purposes of AB 939. In summary, exclusive franchising and flow control centrally assigns the responsibility for (a) providing a service and (b) the mechanism for accountability and financing the operation of the waste removal and recovery system. If you have any questions or require additional information, please do not hesitate to call.

Very truly yours,

EMCON Associates


for: Cheryl L. Shields
Project Manager


John F. Boss
Executive Manager

CLS/JFB:dbm

EXHIBIT E

CITY OF LODI

WASTE CHARACTERIZATION
ANALYSIS 1990

CITY OF LODI
1990 WASTE DELIVERED TO LANDFILLS
TOTAL TONS

27-Mar-91

SOURCE *****	NUMBER OF TONS *****
RESIDENTIAL	19,391
COMMERCIAL	11,479
INDUSTRIAL	17,917
SELF HAUL TO CWS	14,659
SELF HAUL TO HSL	8,822
SELF HAUL TO LTS	0
SELF HAUL TO FSL	592
TOTAL	<hr/> 72,860

PORTIONS AND QUANTITIES OF WASTE IN RESIDENTIAL WASTE STREAM
CITY OF LODI - 1990 YEAR

WASTE TYPE	%	TONS	CONVERSION FACTOR	CUBIC YARDS
PAPER				
CORRUGATED	5.61%	1,088	0.370	2,941
MIXED PAPER	8.43%	1,635	0.370	4,419
NEWSPRINT	6.41%	1,243	0.370	3,359
HI-GRADE	0.85%	165	0.370	446
OTHER PAPER	9.14%	1,772	0.370	4,789
TOTAL PAPER	30.44%	5,903		15,954
PLASTICS				
HDPE	0.67%	130	0.370	351
PET	0.29%	56	0.370	151
FILM	1.82%	353	0.370	954
OTHER	3.48%	675	0.370	1,824
TOTAL PLASTICS	6.26%	1,214		3,281
GLASS				
REFILLABLE	0.05%	10	0.370	27
REDEMPTION	1.01%	196	0.370	530
RECYCLABLE	2.06%	399	0.370	1,078
NON-RECYCLABLE	0.45%	87	0.370	235
TOTAL GLASS	3.57%	692		1,870
METALS				
ALUMINIUM CANS	0.32%	62	0.370	168
FERROUS	2.32%	450	0.370	1,216
NON-FERROUS	0.20%	39	0.370	105
WHITE	0.00%	0	0.370	0
MIXED METALS	1.87%	363	0.370	981
TOTAL METALS	4.71%	914		2,470
YARD WASTE	37.32%	7,237	0.370	19,559
OTHER ORGANICS				
FOOD	12.33%	2,390	0.370	6,459
TIRES	0.18%	35	0.370	95
WOOD	1.27%	246	0.370	665
AGRICUTURAL	0.00%	0	0.370	0
MANURE	0.04%	8	0.370	22
TEXTILES	1.63%	316	0.370	854
TOTAL ORGANICS	15.45%	2,995		8,095
OTHER WASTES				
INERT	1.67%	324	0.370	876
HAZARDOUS	0.58%	112	0.370	303
TOTAL OTHER WASTE	2.25%	436		1,178
TOTAL WASTE STREAM	100.00%	19,391	0.370	52,408

PORTIONS AND QUANTITIES OF WASTE IN COMMERCIAL WASTE STREAM
CITY OF LODI - 1990 YEAR

WASTE TYPE	%	TONS	CONVERSION FACTOR	CUBIC YARDS
PAPER				
CORRUGATED	10.54%	1,210	0.370	3,270
MIXED PAPER	7.31%	839	0.370	2,268
NEWSPRINT	5.78%	663	0.370	1,792
HI-GRADE	1.33%	153	0.370	414
OTHER PAPER	5.86%	673	0.370	1,819
TOTAL PAPER	30.82%	3,538		9,562
PLASTICS				
HDPE	0.54%	62	0.370	168
PET	0.07%	8	0.370	22
FILM	1.96%	225	0.370	608
OTHER	5.22%	599	0.370	1,619
TOTAL PLASTICS	7.79%	894		2,416
GLASS				
REFILLABLE	0.01%	1	0.370	3
REDEMPTION	0.97%	111	0.370	300
RECYCLABLE	0.63%	72	0.370	195
NON-RECYCLABLE	0.16%	18	0.370	49
TOTAL GLASS	1.77%	202		546
METALS				
ALUMINIUM CANS	0.23%	26	0.370	70
FERROUS	3.69%	424	0.370	1,146
NON-FERROUS	0.36%	41	0.370	111
WHITE	0.00%	0	0.370	0
MIXED METALS	1.26%	145	0.370	392
TOTAL METALS	5.54%	636		1,719
YARD WASTE	13.01%	1,493	0.370	4,035
OTHER ORGANICS				
FOOD	12.14%	1,395	0.370	3,770
TIRES	0.14%	16	0.370	43
WOOD	10.87%	1,248	0.370	3,373
AGRICUTURAL	0.00%	0	0.370	0
MANURE	0.12%	14	0.370	38
TEXTILES	8.82%	1,012	0.370	2,735
TOTAL ORGANICS	32.09%	3,685		9,959
OTHER WASTES				
INERT	7.78%	393	0.370	2,414
HAZARDOUS	1.20%	138	0.370	373
TOTAL OTHER WASTE	8.98%	1,031		2,786
TOTAL WASTE STREAM	100.00%	11,479	0.370	31,024

PORTIONS AND QUANTITIES OF WASTE IN INDUSTRIAL WASTE STREAM
CITY OF LODI - 1990 YEAR

WASTE TYPE	%	TONS	CONVERSION FACTOR	CUBIC YARDS
PAPER				
CORRUGATED	13.07%	2,342	0.370	6,330
MIXED PAPER	10.17%	1,822	0.370	4,924
NEWSPRINT	0.18%	32	0.370	86
HI-GRADE	0.23%	41	0.370	111
OTHER PAPER	7.45%	1,335	0.370	3,608
TOTAL PAPER	31.10%	5,572		15,059
PLASTICS				
HDPE	0.81%	145	0.370	392
PET	0.02%	4	0.370	11
FILM	7.30%	1,308	0.370	3,535
OTHER	5.84%	1,046	0.370	2,827
TOTAL PLASTICS	13.97%	2,503		6,765
GLASS				
REFILLABLE	0.00%	0	0.370	0
REDEMPTION	0.06%	11	0.370	30
RECYCLABLE	3.22%	577	0.370	1,559
NON-RECYCLABLE	0.01%	2	0.370	5
TOTAL GLASS	3.29%	590		1,595
METALS				
ALUMINIUM CANS	0.02%	4	0.370	11
FERROUS	5.54%	993	0.370	2,684
NON-FERROUS	0.17%	30	0.370	81
WHITE	0.00%	0	0.370	0
MIXED METALS	0.75%	134	0.370	362
TOTAL METALS	6.48%	1,161		3,138
YARD WASTE	1.58%	283	0.370	765
OTHER ORGANICS				
FOOD	16.81%	3,011	0.370	8,138
TIRES	5.64%	1,011	0.370	2,732
WOOD	2.12%	380	0.370	1,027
AGRICUTURAL	0.00%	0	0.370	0
MANURE	0.00%	0	0.370	0
TEXTILES	7.72%	1,383	0.370	3,738
TOTAL ORGANICS	32.29%	5,785		15,635
OTHER WASTES				
INERT	11.24%	2,014	0.370	5,443
HAZARDOUS	0.05%	9	0.370	24
TOTAL OTHER WASTE	11.29%	2,023		5,468
TOTAL WASTE STREAM	100.00%	17,917	0.370	48,424

PORTIONS AND QUANTITIES OF WASTE IN SELF HAUL WASTE STREAM
CITY OF LODI - 1990 YEAR

WASTE TYPE	%	TONS	CONVERSION FACTOR	CUBIC YARDS
PAPER				
CORRUGATED	2.69%	648	0.370	1,751
MIXED PAPER	9.19%	2,212	0.370	5,978
NEWSPRINT	1.60%	385	0.370	1,041
HI-GRADE	0.70%	159	0.370	457
OTHER PAPER	4.33%	1,042	0.370	2,816
TOTAL PAPER	18.51%	4,456		12,043
PLASTICS				
HDPE	0.46%	111	0.370	300
PET	0.11%	26	0.370	70
FILM	0.60%	144	0.370	389
OTHER	3.47%	835	0.370	2,257
TOTAL PLASTICS	4.64%	1,116		3,016
GLASS				
REFILLABLE	0.00%	0	0.370	0
REDEMPTION	0.66%	159	0.370	430
RECYCLABLE	1.40%	337	0.370	911
NON-RECYCLABLE	0.86%	207	0.370	559
TOTAL GLASS	2.92%	703		1,900
METALS				
ALUMINIUM CANS	0.35%	84	0.370	227
FERROUS	10.73%	2,583	0.370	6,981
NON-FERROUS	1.31%	315	0.370	851
WHITE	2.99%	720	0.370	1,946
MIXED METALS	1.66%	400	0.370	1,081
TOTAL METALS	17.04%	4,102		11,086
YARD WASTE	15.18%	3,654	0.370	9,876
OTHER ORGANICS				
FOOD	4.98%	1,201	0.370	3,246
TIRES	0.54%	130	0.370	351
WOOD	16.46%	3,962	0.370	10,708
AGRICUTURAL	1.36%	327	0.370	884
MANURE	0.25%	60	0.370	162
TEXTILES	7.79%	1,875	0.370	5,068
TOTAL ORGANICS	31.38%	7,555		20,419
OTHER WASTES				
INERT	9.08%	2,186	0.370	5,908
HAZARDOUS	1.25%	301	0.370	814
TOTAL OTHER WASTE	10.33%	2,487		6,722
TOTAL WASTE STREAM	100.00%	24,073	0.370	65,062

PORTIONS AND QUANTITIES OF WASTE IN TOTAL WASTE STREAM
CITY OF LODI - 1990 YEAR

WASTE TYPE	%	TONS	CONVERSION FACTOR	CUBIC YARDS
PAPER				
CORRUGATED	7.26%	5,288	0.370	14,292
MIXED PAPER	8.93%	6,508	0.370	17,589
NEWSPRINT	3.19%	2,323	0.370	6,278
HI-GRADE	0.72%	528	0.370	1,427
OTHER PAPER	6.62%	4,822	0.370	13,032
TOTAL PAPER	26.72%	19,469		52,619
PLASTICS				
HDPE	0.61%	448	0.370	1,211
PET	0.13%	94	0.370	254
FILM	2.79%	2,030	0.370	5,486
OTHER	4.33%	3,155	0.370	8,527
TOTAL PLASTICS	7.86%	5,727		15,478
GLASS				
REFILLABLE	0.02%	11	0.370	30
REDEMPTION	0.65%	477	0.370	1,289
RECYCLABLE	1.90%	1,385	0.370	3,743
NON-RECYCLABLE	0.43%	314	0.370	849
TOTAL GLASS	3.00%	2,187		5,911
METALS				
ALUMINIUM CANS	0.24%	176	0.370	476
FERROUS	6.11%	4,450	0.370	12,027
NON-FERROUS	0.58%	425	0.370	1,149
WHITE	0.99%	720	0.370	1,946
MIXED METALS	1.43%	1,042	0.370	2,816
TOTAL METALS	9.35%	6,813		18,414
YARD WASTE	17.39%	12,667	0.370	34,235
OTHER ORGANICS				
FOOD	10.98%	7,997	0.370	21,614
TIRES	1.64%	1,192	0.370	3,222
WOOD	8.01%	5,836	0.370	15,773
AGRICUTURAL	0.45%	327	0.370	884
MANURE	0.11%	82	0.370	222
TEXTILES	6.29%	4,586	0.370	12,395
TOTAL ORGANICS	27.48%	20,020		54,108
OTHER WASTES				
INERT	7.43%	5,417	0.370	14,641
HAZARDOUS	0.77%	560	0.370	1,514
TOTAL OTHER WASTE	8.20%	5,977		16,154
TOTAL WASTE STREAM	100.00%	72,860	0.370	196,919

RESIDENTIAL WASTE DISPOSED - TYPES AND QUANTITIES
ARRANGED IN DESCENDING ORDER
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	RELATIVE FREQUENCY		CUMULATIVE FREQUENCY	
	TONS	%	TONS	%
YARD WASTE	7,237	37.32%	7,237	37.32%
FOOD	2,390	12.33%	9,627	49.65%
OTHER PAPER	1,772	9.14%	11,399	58.79%
MIXED PAPER	1,635	8.43%	13,034	67.22%
NEWSPRINT	1,243	6.41%	14,277	73.63%
CORRUGATED	1,088	5.61%	15,365	79.24%
OTHER PLASTIC	675	3.48%	16,040	82.72%
FERROUS METALS	450	2.32%	16,490	85.04%
RECYCLABLE GLASS	399	2.06%	16,889	87.10%
MIXED METALS	363	1.87%	17,252	88.97%
FILM PLASTIC	353	1.82%	17,605	90.79%
INERT MATERIALS	324	1.67%	17,929	92.46%
TEXTILES	316	1.63%	18,245	94.09%
WOOD	246	1.27%	18,491	95.36%
REDEMPTION GLASS	196	1.01%	18,687	96.37%
HI-GRADE PAPER	165	0.85%	18,852	97.22%
HDPE PLASTIC	130	0.67%	18,982	97.89%
HAZARDOUS WASTE	112	0.58%	19,094	98.47%
NON-RECYCLABLE GLASS	87	0.45%	19,181	98.92%
ALUMINIUM CANS	62	0.32%	19,243	99.24%
PET PLASTIC	56	0.29%	19,299	99.53%
NON-FERROUS METALS	39	0.20%	19,338	99.73%
TIRES	35	0.18%	19,373	99.91%
REFILLABLE CONTAINERS	10	0.05%	19,383	99.96%
MANURE	8	0.04%	19,391	100.00%
AGRICUTURAL WASTE	0	0.00%	19,391	100.00%
WHITE METALS	0	0.00%	19,391	100.00%
TONS	19,391 100.00%			

COMMERCIAL WASTE DISPOSED - TYPES AND QUANTITIES
ARRANGED IN DESCENDING ORDER
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	RELATIVE FREQUENCY		CUMULATIVE FREQUENCY	
	TONS	%	TONS	%
YARD WASTE	1,493	13.01%	1,493	13.01%
FOOD	1,395	12.14%	2,888	25.15%
WOOD	1,248	10.87%	4,136	36.02%
CORRUGATED	1,210	10.54%	5,346	46.56%
TEXTILES	1,012	8.82%	6,358	55.38%
INERT MATERIALS	893	7.78%	7,251	63.16%
MIXED PAPER	839	7.31%	8,090	70.47%
OTHER PAPER	673	5.86%	8,763	76.33%
NEWSPRINT	663	5.78%	9,426	82.11%
OTHER PLASTIC	599	5.22%	10,025	87.33%
FERROUS METALS	424	3.69%	10,449	91.02%
FILM PLASTIC	225	1.96%	10,674	92.98%
HI-GRADE PAPER	153	1.33%	10,827	94.31%
MIXED METALS	145	1.26%	10,972	95.57%
HAZARDOUS WASTE	138	1.20%	11,110	96.77%
REDEMPTION GLASS	111	0.97%	11,221	97.74%
RECYCLABLE GLASS	72	0.63%	11,293	98.37%
HDPE PLASTIC	62	0.54%	11,355	98.91%
NON-FERROUS METALS	41	0.36%	11,396	99.27%
ALUMINIUM CANS	26	0.23%	11,422	99.50%
NON-RECYCLABLE GLASS	18	0.16%	11,440	99.66%
TIRES	16	0.14%	11,456	99.80%
MANURE	14	0.12%	11,470	99.92%
PET PLASTIC	8	0.07%	11,478	99.99%
REFILLABLE CONTAINERS	1	0.01%	11,479	100.00%
WHITE METALS	0	0.00%	11,479	100.00%
AGRICUTURAL WASTE	0	0.00%	11,479	100.00%
TONS	11,479	100.00%		

INDUSTRIAL WASTE DISPOSED - TYPES AND QUANTITIES
ARRANGED IN DESCENDING ORDER
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	RELATIVE FREQUENCY		CUMULATIVE FREQUENCY	
	TONS	%	TONS	%
FOOD	3,011	16.81%	3,011	16.81%
CORRUGATED	2,342	13.07%	5,353	29.88%
INERT MATERIALS	2,014	11.24%	7,367	41.12%
MIXED PAPER	1,822	10.17%	9,189	51.29%
TEXTILES	1,383	7.72%	10,572	59.01%
OTHER PAPER	1,335	7.45%	11,907	66.46%
FILM PLASTIC	1,308	7.30%	13,215	73.76%
OTHER PLASTIC	1,046	5.84%	14,261	79.60%
TIRES	1,011	5.64%	15,272	85.24%
FERROUS METALS	993	5.54%	16,265	90.78%
RECYCLABLE GLASS	577	3.22%	16,842	94.00%
WOOD	380	2.12%	17,222	96.12%
YARD WASTE	283	1.58%	17,505	97.70%
HDPE PLASTIC	145	0.81%	17,650	98.51%
MIXED METALS	134	0.75%	17,784	99.26%
HI-GRADE PAPER	41	0.23%	17,825	99.49%
NEWSPRINT	32	0.18%	17,857	99.67%
NON-FERROUS METALS	30	0.17%	17,887	99.84%
REDEMPTION GLASS	11	0.06%	17,898	99.90%
HAZARDOUS WASTE	9	0.05%	17,907	99.95%
ALUMINIUM CANS	4	0.02%	17,911	99.97%
PET PLASTIC	4	0.02%	17,915	99.99%
NON-RECYCLABLE GLASS	2	0.01%	17,917	100.00%
AGRICUTURAL WASTE	0	0.00%	17,917	100.00%
MANURE	0	0.00%	17,917	100.00%
WHITE METALS	0	0.00%	17,917	100.00%
REFILLABLE CONTAINERS	0	0.00%	17,917	100.00%
TONS	17,917	100.00%		

SELF HAUL WASTE DISPOSED - TYPES AND QUANTITIES
ARRANGED IN DESCENDING ORDER
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	RELATIVE FREQUENCY		CUMULATIVE FREQUENCY	
	TONS	%	TONS	%
WOOD	3,962	16.46%	3,962	16.46%
YARD WASTE	3,654	15.18%	7,616	31.64%
FERROUS METALS	2,583	10.73%	10,199	42.37%
MIXED PAPER	2,212	9.19%	12,411	51.56%
INERT MATERIALS	2,186	9.08%	14,597	60.64%
TEXTILES	1,875	7.79%	16,472	68.43%
FOOD	1,201	4.98%	17,673	73.41%
OTHER PAPER	1,042	4.33%	18,715	77.74%
OTHER PLASTIC	835	3.47%	19,550	81.21%
WHITE METALS	720	2.99%	20,270	84.20%
CORRUGATED	648	2.69%	20,918	86.89%
MIXED METALS	400	1.66%	21,318	88.55%
NEWSPRINT	385	1.60%	21,703	90.15%
RECYCLABLE GLASS	337	1.40%	22,040	91.55%
AGRICUTURAL WASTE	327	1.36%	22,367	92.91%
NON-FERROUS METALS	315	1.31%	22,682	94.22%
HAZARDOUS WASTE	301	1.25%	22,983	95.47%
NON-RECYCLABLE GLASS	207	0.86%	23,190	96.33%
HI-GRADE PAPER	169	0.70%	23,359	97.03%
REDEMPTION GLASS	159	0.66%	23,518	97.69%
FILM PLASTIC	144	0.60%	23,662	98.29%
TIRES	130	0.54%	23,792	98.83%
HDPE PLASTIC	111	0.46%	23,903	99.29%
ALUMINIUM CANS	84	0.35%	23,987	99.64%
MANURE	60	0.25%	24,047	99.89%
PET PLASTIC	26	0.11%	24,073	100.00%
REFILLABLE CONTAINERS	0	0.00%	24,073	100.00%
TONS	24,073	100.00%		

TOTAL WASTE DISPOSED - TYPES AND QUANTITIES
ARRANGED IN DESCENDING ORDER
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	RELATIVE FREQUENCY		CUMULATIVE FREQUENCY	
	TONS	%	TONS	%
YARD WASTE	12,667	17.39%	12,667	17.39%
FOOD	7,997	10.98%	20,664	28.37%
MIXED PAPER	6,508	8.93%	27,172	37.30%
WOOD	5,836	8.01%	33,008	45.31%
INERT MATERIALS	5,417	7.43%	38,425	52.74%
CORRUGATED	5,288	7.26%	43,713	60.00%
OTHER PAPER	4,822	6.62%	48,535	66.62%
TEXTILES	4,586	6.29%	53,121	72.91%
FERROUS METALS	4,450	6.11%	57,571	79.02%
OTHER PLASTIC	3,155	4.33%	60,726	83.35%
NEWSPRINT	2,323	3.19%	63,049	86.54%
FILM PLASTIC	2,030	2.79%	65,079	89.33%
RECYCLABLE GLASS	1,385	1.90%	66,464	91.23%
TIRES	1,192	1.64%	67,656	92.87%
MIXED METALS	1,042	1.43%	68,698	94.30%
WHITE METALS	720	0.99%	69,418	95.29%
HAZARDOUS WASTE	560	0.77%	69,978	96.06%
HI-GRADE PAPER	528	0.72%	70,506	96.78%
REDEMPTION GLASS	477	0.65%	70,983	97.43%
HDPE PLASTIC	448	0.61%	71,431	98.04%
NON-FERROUS METALS	425	0.58%	71,856	98.62%
AGRICUTURAL WASTE	327	0.45%	72,183	99.07%
NON-RECYCLABLE GLASS	314	0.43%	72,497	99.50%
ALUMINIUM CANS	176	0.24%	72,673	99.74%
PET PLASTIC	94	0.13%	72,767	99.87%
MANURE	82	0.11%	72,849	99.98%
REFILLABLE CONTAINERS	11	0.02%	72,860	100.00%
TONS	72,860	100.00%		

[illegible]

WASTE TYPE	1,990	1,991	1,992	1,993	1,994	1,995	1,996	1,997	1,998	1,999	2,000	2,001	2,002	2,003	2,004
PAPER															
CORRUGATED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIXED PAPER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEWSPRINT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HI-GRADE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER PAPER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PAPER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLASTICS															
HDPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PET	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FILM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL PLASTICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLASS															
REFILLABLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REDEMPTION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RECYCLABLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON-RECYCLABLE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL GLASS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
METALS															
ALUMINIUM CANS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FERROUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON-FERROUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WHITE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIXED METALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL METALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YARD WASTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER ORGANICS															
FOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIRES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WOOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AGRICUTURAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANURE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TEXTILES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ORGANICS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER WASTES															
INERT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAZARDOUS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OTHER WASTE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL WASTE	0	0	0	0	0										

FIFTEEN YEAR PROJECTION OF TOTAL WASTE QUANTITIES DISPOSED AT LANDFILLS - UNDER EXISTING CONDITIONS
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
PAPER															
CORRUGATED	5288	5,364	5,440	5,518	5,597	5,677	5,758	5,841	5,924	6,009	6,095	6,182	6,270	6,360	6,451
MIXED PAPER	6508	6,601	6,695	6,791	6,888	6,987	7,087	7,188	7,291	7,395	7,501	7,608	7,717	7,827	7,939
NEWSPRINT	2323	2,356	2,390	2,424	2,459	2,494	2,530	2,566	2,602	2,640	2,677	2,716	2,755	2,794	2,834
HI-GRADE	528	536	543	551	559	567	575	583	592	600	609	617	626	635	644
OTHER PAPER	4822	4,891	4,961	5,032	5,104	5,177	5,251	5,326	5,402	5,479	5,558	5,637	5,718	5,800	5,882
TOTAL PAPER	19469	19,747	20,030	20,316	20,607	20,901	21,200	21,503	21,811	22,123	22,439	22,760	23,086	23,416	23,751
PLASTICS															
HDPE	448	454	461	467	474	481	488	495	502	509	516	524	531	539	547
PET	94	95	97	98	99	101	102	104	105	107	108	110	111	113	115
FILM	2030	2,059	2,088	2,118	2,149	2,179	2,211	2,242	2,274	2,307	2,340	2,373	2,407	2,442	2,476
OTHER	3155	3,200	3,246	3,292	3,339	3,387	3,436	3,485	3,535	3,585	3,636	3,688	3,741	3,795	3,849
TOTAL PLASTICS	5727	5,809	5,892	5,976	6,062	6,148	6,236	6,325	6,416	6,508	6,601	6,695	6,791	6,888	6,986
GLASS															
REFILLABLE	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13
REDEMPTION	477	484	491	498	505	512	519	527	534	542	550	558	566	574	582
RECYCLABLE	1385	1,405	1,425	1,445	1,466	1,487	1,508	1,530	1,552	1,574	1,596	1,619	1,642	1,666	1,690
NON-RECYCLABLE	314	318	323	328	332	337	342	347	352	357	362	367	372	378	383
TOTAL GLASS	2187	2,218	2,250	2,282	2,315	2,348	2,381	2,416	2,450	2,485	2,521	2,557	2,593	2,630	2,668
METALS															
ALUMINIUM CANS	176	179	181	184	186	189	192	194	197	200	203	206	209	212	215
FERROUS	4450	4,514	4,578	4,644	4,710	4,777	4,846	4,915	4,985	5,057	5,129	5,202	5,277	5,352	5,429
NON-FERROUS	425	431	437	443	450	456	463	469	476	483	490	497	504	511	518
WHITE	720	730	741	751	762	773	784	795	807	818	830	842	854	866	878
MIXED METALS	1042	1,057	1,072	1,087	1,103	1,119	1,135	1,151	1,167	1,184	1,201	1,218	1,236	1,253	1,271
TOTAL METALS	6813	6,910	7,009	7,109	7,211	7,314	7,419	7,525	7,633	7,742	7,852	7,965	8,079	8,194	8,311
YARD WASTE	12667	12,848	13,032	13,218	13,407	13,599	13,793	13,991	14,191	14,394	14,600	14,808	15,020	15,235	15,453
OTHER ORGANICS															
FOOD	7997	8,111	8,227	8,345	8,464	8,585	8,708	8,833	8,959	9,087	9,217	9,349	9,483	9,618	9,756
TIRES	1192	1,209	1,226	1,244	1,262	1,280	1,298	1,317	1,335	1,354	1,374	1,393	1,413	1,434	1,454
WOOD	5836	5,919	6,004	6,090	6,177	6,265	6,355	6,446	6,538	6,632	6,726	6,823	6,920	7,019	7,119
AGRICUTURAL	327	332	336	341	346	351	356	361	366	372	377	382	388	393	399
HANURE	82	83	84	86	87	88	89	91	92	93	95	96	97	99	100
TEXTILES	4586	4,652	4,718	4,786	4,854	4,923	4,994	5,065	5,138	5,211	5,286	5,361	5,438	5,516	5,595
TOTAL ORGANICS	20020	20,306	20,597	20,891	21,190	21,493	21,800	22,112	22,428	22,749	23,074	23,404	23,739	24,078	24,423
OTHER WASTES															
INERT	5417	5,494	5,573	5,653	5,734	5,816	5,899	5,983	6,069	6,155	6,243	6,333	6,423	6,515	6,608
HAZARDOUS	560	568	576	584	593	601	610	619	627	636	645	655	664	674	683
TOTAL OTHER WASTE	5977	6,062	6,149	6,237	6,326	6,417	6,509	6,602	6,696	6,792	6,889	6,987	7,087	7,189	7,291
TOTAL WASTE	72,860	73,901	74,959	76,031	77118	78221	79340	80474	81625	82792	83976	85176	86394	87630	88883

FIFTEEN YEAR PROJECTION OF TOTAL WASTE QUANTITIES GENERATED - UNDER EXISTING CONDITIONS
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	1,990	1,991	1,992	1,993	1,994	1,995	1,996	1,997	1,998	1,999	2,000	2,001	2,002	2,003	2,004
PAPER															
CORRUGATED	5,288	5,364	5,440	5,518	5,597	5,677	5,758	5,841	5,924	6,009	6,095	6,182	6,270	6,360	6,451
MIXED PAPER	6,508	6,601	6,695	6,791	6,888	6,987	7,087	7,188	7,291	7,395	7,501	7,608	7,717	7,827	7,939
NEWSPRINT	2,323	2,356	2,390	2,424	2,459	2,494	2,530	2,566	2,602	2,640	2,677	2,716	2,755	2,794	2,834
HI-GRADE	528	536	543	551	559	567	575	583	592	600	609	617	626	635	644
OTHER PAPER	4,822	4,891	4,961	5,032	5,104	5,177	5,251	5,326	5,402	5,479	5,558	5,637	5,718	5,800	5,882
TOTAL PAPER	19,469	19,747	20,030	20,316	20,607	20,901	21,200	21,503	21,811	22,123	22,439	22,760	23,086	23,416	23,751
PLASTICS															
HDPE	448	454	461	467	474	481	488	495	502	509	516	524	531	539	547
PET	94	95	97	98	99	101	102	104	105	107	108	110	111	113	115
FILM	2,030	2,059	2,088	2,118	2,149	2,179	2,211	2,242	2,274	2,307	2,340	2,373	2,407	2,442	2,476
OTHER	3,155	3,200	3,246	3,292	3,339	3,387	3,436	3,485	3,535	3,585	3,636	3,688	3,741	3,795	3,849
TOTAL PLASTICS	5,727	5,809	5,892	5,976	6,062	6,148	6,236	6,325	6,416	6,508	6,601	6,695	6,791	6,888	6,986
GLASS															
REFILLABLE	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13
REDEMPTION	477	484	491	498	505	512	519	527	534	542	550	558	566	574	582
RECYCLABLE	1,385	1,405	1,425	1,445	1,466	1,487	1,508	1,530	1,552	1,574	1,596	1,619	1,642	1,666	1,690
NON-RECYCLABLE	314	318	323	328	332	337	342	347	352	357	362	367	372	378	383
TOTAL GLASS	2,187	2,218	2,250	2,282	2,315	2,348	2,381	2,416	2,450	2,485	2,521	2,557	2,593	2,630	2,668
METALS															
ALUMINIUM CANS	176	179	181	184	186	189	192	194	197	200	203	206	209	212	215
FERROUS	4,450	4,514	4,578	4,644	4,710	4,777	4,846	4,915	4,985	5,057	5,129	5,202	5,277	5,352	5,429
NON-FERROUS	425	431	437	443	450	456	463	469	476	483	490	497	504	511	518
WHITE	720	730	741	751	762	773	784	795	807	818	830	842	854	866	878
MIXED METALS	1,042	1,057	1,072	1,087	1,103	1,119	1,135	1,151	1,167	1,184	1,201	1,218	1,236	1,253	1,271
TOTAL METALS	6,813	6,910	7,009	7,109	7,211	7,314	7,419	7,525	7,633	7,742	7,852	7,965	8,079	8,194	8,311
YARD WASTE	12,667	12,848	13,032	13,218	13,407	13,599	13,793	13,991	14,191	14,394	14,600	14,808	15,020	15,235	15,453
OTHER ORGANICS															
FOOD	7,997	8,111	8,227	8,345	8,464	8,585	8,708	8,833	8,959	9,087	9,217	9,349	9,483	9,618	9,756
TIRES	1,192	1,209	1,226	1,244	1,262	1,280	1,298	1,317	1,335	1,354	1,374	1,393	1,413	1,434	1,454
WOOD	5,836	5,919	6,004	6,090	6,177	6,265	6,355	6,446	6,538	6,632	6,726	6,823	6,920	7,019	7,119
AGRICUTURAL	327	332	336	341	346	351	356	361	366	372	377	382	388	393	399
MANURE	82	83	84	86	87	88	89	91	92	93	95	96	97	99	100
TEXTILES	4,586	4,652	4,718	4,786	4,854	4,923	4,994	5,065	5,138	5,211	5,286	5,361	5,438	5,516	5,595
TOTAL ORGANICS	20,020	20,306	20,597	20,891	21,190	21,493	21,800	22,112	22,428	22,749	23,074	23,404	23,739	24,078	24,423
OTHER WASTES															
INERT	5,417	5,494	5,573	5,653	5,734	5,816	5,899	5,983	6,069	6,155	6,243	6,333	6,423	6,515	6,608
HAZARDOUS	560	568	576	584	593	601	610	619	627	636	645	655	664	674	683
TOTAL OTHER WASTE	5,977	6,062	6,149	6,237	6,326	6,417	6,509	6,602	6,696	6,792	6,889	6,987	7,087	7,189	7,291
TOTAL WASTE	72860	73901	74959	76031	77118	78221	79340	80474	81625	82792	83976	85176	86394	87630	88883

[illegible]

[illegible]

FIFTEEN YEAR PROJECTION OF TOTAL WASTE QUANTITIES DISPOSED AT LANDFILLS - WITH ACHIEVEMENT OF WASTE DIVERSION GOALS
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	1,990	1,991	1,992	1,993	1,994	1,995	1,996	1,997	1,998	1,999	2,000	2,001	2,002	2,003	2,004
PAPER															
CORRUGATED	5,288	5,364	5,440	5,518	5,597	5,677	5,758	5,841	5,924	6,009	6,095	6,182	6,270	6,360	6,451
MIXED PAPER	6,508	6,601	6,695	6,791	6,888	6,987	7,087	7,188	7,291	7,395	7,501	7,608	7,717	7,827	7,939
NEWSPRINT	2,323	2,356	2,390	2,424	2,459	2,494	2,530	2,566	2,602	2,640	2,677	2,716	2,755	2,794	2,834
HI-GRADE	528	536	543	551	559	567	575	583	592	600	609	617	626	635	644
OTHER PAPER	4,822	4,891	4,961	5,032	5,104	5,177	5,251	5,326	5,402	5,479	5,558	5,637	5,718	5,800	5,882
TOTAL PAPER	19,469	19,747	20,030	20,316	20,607	20,901	21,200	21,503	21,811	22,123	22,439	22,760	23,086	23,416	23,751
PLASTICS															
HDPE	448	454	461	467	474	481	488	495	502	509	516	524	531	539	547
PET	94	95	97	98	99	101	102	104	105	107	108	110	111	113	115
FILM	2,030	2,059	2,088	2,118	2,149	2,179	2,211	2,242	2,274	2,307	2,340	2,373	2,407	2,442	2,476
OTHER	3,155	3,200	3,246	3,292	3,339	3,387	3,436	3,485	3,535	3,585	3,636	3,688	3,741	3,795	3,849
TOTAL PLASTICS	5,727	5,809	5,892	5,976	6,062	6,148	6,236	6,325	6,416	6,508	6,601	6,695	6,791	6,888	6,986
GLASS															
REFILLABLE	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13
REDEMPTION	477	484	491	498	505	512	519	527	534	542	550	558	566	574	582
RECYCLABLE	1,385	1,405	1,425	1,445	1,466	1,487	1,508	1,530	1,552	1,574	1,596	1,619	1,642	1,666	1,690
NON-RECYCLABLE	314	318	323	328	332	337	342	347	352	357	362	367	372	378	383
TOTAL GLASS	2,187	2,218	2,250	2,282	2,315	2,348	2,381	2,416	2,450	2,485	2,521	2,557	2,593	2,630	2,668
METALS															
ALUMINIUM CANS	176	179	181	184	186	189	192	194	197	200	203	206	209	212	215
FERROUS	4,450	4,514	4,578	4,644	4,710	4,777	4,846	4,915	4,985	5,057	5,129	5,202	5,277	5,352	5,429
NON-FERROUS	425	431	437	443	450	456	463	469	476	483	490	497	504	511	518
WHITE	720	730	741	751	762	773	784	795	807	818	830	842	854	866	878
MIXED METALS	1,042	1,057	1,072	1,087	1,103	1,119	1,135	1,151	1,167	1,184	1,201	1,218	1,236	1,253	1,271
TOTAL METALS	6,813	6,910	7,009	7,109	7,211	7,314	7,419	7,525	7,633	7,742	7,852	7,965	8,079	8,194	8,311
YARD WASTE	12,667	12,848	13,032	13,218	13,407	13,599	13,793	13,991	14,191	14,394	14,600	14,808	15,020	15,235	15,453
OTHER ORGANICS															
FOOD	7,997	8,111	8,227	8,345	8,464	8,585	8,708	8,833	8,959	9,087	9,217	9,349	9,483	9,618	9,756
TIRES	1,192	1,209	1,226	1,244	1,262	1,280	1,298	1,317	1,335	1,354	1,374	1,393	1,413	1,434	1,454
WOOD	5,836	5,919	6,004	6,090	6,177	6,265	6,355	6,446	6,538	6,632	6,726	6,823	6,920	7,019	7,119
AGRICUTURAL	327	332	336	341	346	351	356	361	366	372	377	382	388	393	399
MANURE	82	83	84	86	87	88	89	91	92	93	95	96	97	99	100
TEXTILES	4,586	4,652	4,718	4,786	4,854	4,923	4,994	5,065	5,138	5,211	5,286	5,361	5,438	5,516	5,595
TOTAL ORGANICS	20,020	20,306	20,597	20,891	21,190	21,493	21,800	22,112	22,428	22,749	23,074	23,404	23,739	24,078	24,423
OTHER WASTES															
INERT	5,417	5,494	5,573	5,653	5,734	5,816	5,899	5,983	6,069	6,155	6,243	6,333	6,423	6,515	6,608
HAZARDOUS	560	560	576	584	593	601	610	619	627	636	645	655	664	674	683
TOTAL OTHER WASTE	5,977	6,062	6,149	6,237	6,326	6,417	6,509	6,602	6,696	6,792	6,889	6,987	7,087	7,189	7,291
TOTAL WASTE	72860	73901	74959	76031	77118	78221	79340	80474	81625	82792	83976	85176	86394	87630	88883

FIFTEEN YEAR PROJECTION OF TOTAL WASTE QUANTITIES GENERATED - WITH ACHIEVEMENT OF WASTE DIVERSION GOALS
CITY OF LODI - 1990 YEAR
MEASURED IN TONS

WASTE TYPE	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
PAPER															
CORRUGATED	5288	5364	5440	5518	5597	5677	5758	5841	5924	6009	6095	6182	6270	6360	6451
MIXED PAPER	6508	6601	6695	6791	6888	6987	7087	7188	7291	7395	7501	7608	7717	7827	7939
NEWSPRINT	2323	2356	2390	2424	2459	2494	2530	2566	2602	2640	2677	2716	2755	2794	2834
HI-GRADE	528	536	543	551	559	567	575	583	592	600	609	617	626	635	644
OTHER PAPER	4822	4891	4961	5032	5104	5177	5251	5326	5402	5479	5558	5637	5718	5800	5882
TOTAL PAPER	19469	19747	20030	20316	20607	20901	21200	21503	21811	22123	22439	22760	23086	23416	23751
PLASTICS															
HDPE	448	454	461	467	474	481	488	495	502	509	516	524	531	539	547
PET	94	95	97	98	99	101	102	104	105	107	108	110	111	113	115
FILM	2030	2059	2088	2118	2149	2179	2211	2242	2274	2307	2340	2373	2407	2442	2476
OTHER	3155	3200	3246	3292	3339	3387	3436	3485	3535	3585	3636	3688	3741	3795	3849
TOTAL PLASTICS	5727	5809	5892	5976	6062	6148	6236	6325	6416	6508	6601	6695	6791	6888	6986
GLASS															
REFILLABLE	11	11	11	11	12	12	12	12	12	12	13	13	13	13	13
REDEMPTION	477	484	491	498	505	512	519	527	534	542	550	558	566	574	582
RECYCLABLE	1385	1405	1425	1445	1466	1487	1508	1530	1552	1574	1596	1619	1642	1666	1690
NON-RECYCLABLE	314	318	323	328	332	337	342	347	352	357	362	367	372	378	383
TOTAL GLASS	2187	2218	2250	2282	2315	2348	2381	2416	2450	2485	2521	2557	2593	2630	2668
METALS															
ALUMINIUM CANS	176	179	181	184	186	189	192	194	197	200	203	206	209	212	215
FERROUS	4450	4514	4578	4644	4710	4777	4846	4915	4985	5057	5129	5202	5277	5352	5429
NON-FERROUS	425	431	437	443	450	456	463	469	476	483	490	497	504	511	518
WHITE	720	730	741	751	762	773	784	795	807	818	830	842	854	866	878
MIXED METALS	1042	1057	1072	1087	1103	1119	1135	1151	1167	1184	1201	1218	1236	1253	1271
TOTAL METALS	6813	6910	7009	7109	7211	7314	7419	7525	7633	7742	7852	7965	8079	8194	8311
YARD WASTE	12667	12848	13032	13218	13407	13599	13793	13991	14191	14394	14600	14808	15020	15235	15453
OTHER ORGANICS															
FOOD	7997	8111	8227	8345	8464	8585	8708	8833	8959	9087	9217	9349	9483	9618	9756
TIRES	1192	1209	1226	1244	1262	1280	1298	1317	1335	1354	1374	1393	1413	1434	1454
WOOD	5836	5919	6004	6090	6177	6265	6355	6446	6538	6632	6726	6823	6920	7019	7119
AGRICUTURAL	327	332	336	341	346	351	356	361	366	372	377	382	388	393	399
MANURE	62	63	64	66	67	68	69	71	72	73	75	76	77	79	80
TEXTILES	4586	4652	4718	4786	4854	4923	4994	5065	5138	5211	5286	5361	5438	5516	5595
TOTAL ORGANICS	20020	20306	20597	20891	21190	21493	21800	22112	22428	22749	23074	23404	23739	24078	24423
OTHER WASTES															
INERT	5417	5494	5573	5653	5734	5816	5899	5983	6069	6155	6243	6333	6423	6515	6608
HAZARDOUS	560	568	576	584	593	601	610	619	627	636	645	655	664	674	683
TOTAL OTHER WASTE	5977	6062	6149	6237	6326	6417	6509	6602	6696	6792	6889	6987	7087	7189	7291
TOTAL WASTE	72860	73901	74959	76031	77118	78221	79340	80474	81625	82792	83976	85176	86394	87630	88883