

**SEPA** 

United States
Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Ave., NW. (5305W)
Washington, DC 20460

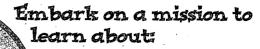
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Order your Planet Protectors Club kit!

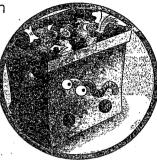
Designed for students in grades K-6, this

kit can be used as a classroom supplement, as part of a larger environmental or Earth Day unit, as a complement to EPA's solid waste teacher's resource, *The Quest for Less*, or as an after-school, extra credit, or at-home project.

The Planet Protectors Club takes kids on a learning adventure with challenging activity books and educational games—on the Web and in print.

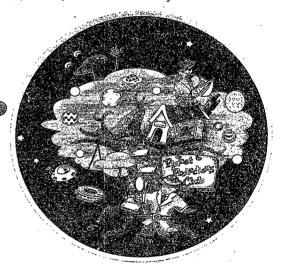


- Resource conservation
- Source reduction
- Climate change and waste
- Composting
- Reuse
- Waste disposal
- Recycling
- Recycled products



Students can use this kit to broaden their skills in problem-solving, analysis and deduction, math, and vocabulary.

Visit the Office of Solid Waste's Kids' Page at <a href="https://www.epa.gov/epaoswer/osw/kids/index.htm">www.epa.gov/epaoswer/osw/kids/index.htm</a> for more information.



Office of Solid Waste and Emergency Response EPA530-F-02-025 June 2002 www.epa.gov/osw

Orde	er f <i>o</i> rm
	Planet Protectors Club Kit
<u> </u>	(EPA530-E-98-002)
F.	One kit per household or per classroom.
Create	e your own kit! (circle English or Spanish)
Quantit	
	Follow That Trail! (grades K-3 activity book) English (EPA530-K-98-001);
	Spanish (EPA530-K-98-001S)
	The Case of the Broken Loop (grades
	4-6 activity book), English (EPA530-K-98-002
	Spanish (EPA530-K-98-002S)
	Planet Protectors Club Certificate English (EPA530-E-98-002c);
-	Spanish (EPA530-E-98-002c),
	Planet Protectors Club Badge
	English (EPA530-E-98-002d);
	Spanish (EPA530-E-98-002dS)
	Trash and Climate Change (activity book) English (EPA530-K-00-001);
	Spanish (EPA530-K-00-001),
	Planet Protectors Create Less Waste in the
	First Place!
•	English (EPA530-K-99-006);
2.1	Spanish (EPA530-K-99-006S)
Other so	olid waste resources are available:
	Science Fair Fun
	English (EPA530-K-00-008);
	Spanish (EPA530-K-00-008S) Service-Learning: Education Beyond the
	Classroom (EPA530-K-02-001)
	Collection of Solid Waste Resources
	(EPA530-C-01-002)
	The Quest for Less (EPA530-R-00-008)
You car	order these and other solid waste resources
by callir	ng 1-800-490-9198 or visiting our Web site at
<www.e< td=""><td>epa.gov/epaoswer/osw&gt;.</td></www.e<>	epa.gov/epaoswer/osw>.
Name	
Addres	3
-	
State _	Zip
Phone (	optional)



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U.S. Environmental Protection Agency National Service Center for Environmental Publications PO Box 42419 Cincinnati OH 45242-2419

					Table 1	1-12. (Cor	tinued)	•				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
2	Swine	Liquid	GF	Midwest	1	188	Medium2	2,839	2,313	1,435	1,928	
2	Swine	Liquid	GF	Mid-Atlantic	2	14	Medium2	57,112	1,319	10,619	896	
2	Swine	Liquid	GF	Midwest	2	37	Medium2	55,744	1,459	9,597	1,035	
2	Swine	Liquid	GF	Mid-Atlantic	3	17	Medium2	76,299	580	4,011	0	
2	Swine	Liquid	GF	Midwest	3	44	Medium2	74,370	580	4,110	0	
3	Swine	Liquid	FF	Mid-Atlantic	1	18	Large1	24,532	736	2,240	253	2,703
3	Swine	Liquid	FF	Midwest	1	95	Large 1	27,640	742	2,524	254	
3	Swine	Liquid	FF	Mid-Atlantic	2	3	Largel	28,915	668	2,130	181	2,370
3	Swine	Liquid	FF	Midwest	2	16	Largel	31,082	739	2,130		156,629
3	Swine	Liquid	FF	Mid-Atlantic	3	3	Large1	142,206	580	24,489	251	3,349
3	Swine	Liquid	FF	Midwest	3	18	Largel	143,237	.580		0	2,703
3	Swine	Liquid	FF	Mid-Atlantic	1	27	Large1	24,565	2,105	24,364 2,260	1.720	2,370
3	Swine	Liquid	FF	Midwest	1	143	Large1	27,661	2,103		1,729	2,703
3	Swine	Liquid	FF	Mid-Atlantic	2	4	Large1	103,041	Ž,234	2,537	1,832	2,370
3	Swine	Liquid	FF	Midwest	2	24	Large1	31,094		16,690	682	2,703
3	Swine	Liquid	FF	Mid-Atlantic	3		Large1		1,541	12,248	1,089	2,370
3	Swine	Liquid	FF	Midwest	3	27	Large1	142,206 143,237	580	7,246	0	2,703
3	Swine	Liquid	FF	Mid-Atlantic	1	14	Large2		580	7,440	0	2,370
3	Swine	Liquid	FF	Midwest	1	34	Large2	101,273 95,118	1,340	5,934	905	2,703
3	Swine	Liquid	FF	Mid-Atlantic	2	7	Large2	464,669	1,228	5,770	762	2,370
3	Swine	Liquid	FF	Midwest	2	16	Large2		808	12,853	331	2,703
3	Swine	Liquid	FF	Mid-Atlantic	3	8		90,865	976	4,848	498	549,868
3	Swine	Liquid	FF	Midwest	3	20	Large2	654,265	580	114,045	0	2,703
3	Swine	Liquid	ŕF	Mid-Atlantic	1 .	21	Large2	542,589	580	93,070	0	2,370
3	Swine	Liquid	FF	Midwest	1	50	Large2	101,437	8,018	6,035	8,106	2,703
3	Swine	Liquid	FF	Mid-Atlantic	2	10	Large2	95,203	7,286	5,823	7,094	2,370
3	Swine	Liquid	.FF	Midwest	2		Large2	464,692	1,724	75,553	1,319	2,703
3	Swine	Liquid	FF	Mid-Atlantic	3	24 12	Large2	385,787	2,566	55,620	2,160	2,370
3	Swine	Liquid	FF	Midwest	$\frac{3}{3}$		Large2	654,265	580	29,927	0	2,703
	DWITTE	Liquid	rr	Midwest	3	30	Large2	542,589	580	25,164	0	2,3

				~	Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
3	Swine	Liquid	FF	Mid-Atlantic	1	29	Mediumla	9,170	672	1,680	214	2,854
3	Swine	Liquid	FF	Midwest	1	300	Mediumla	10,066	644	2,035	, 184	3,048
3	Swine	Liquid	FF	Mid-Atlantic	2	2	Mediumla	13,667	689	1,727	232	2,854
3	Swine	Liquid	FF	Midwest	2	21	Mediumla	14,336	· 709	2,094	252	3,048
3	Swine	Liquid	FF	Mid-Atlantic	3	3	Mediumla	41,187	580	7,033	0	2,854
3	Swine	Liquid	FF	Midwest	3	34	Mediumla	41,098	580	7,209	0	3,048
3	Swine	Liquid	FF	Mid-Atlantic	1	'44	Mediumla	9,981	1,482	2,178	1,067	2,854
3	Swine	Liquid	FF	Midwest	1	450	Mediumla	10,572	1,244	2,345	811	3,048
3	Swine	Liquid	FF	Mid-Atlantic	. 2	3	Mediumla	14,106	1,127	2,636	693	2,854
. 3	Swine	Liquid	FF	Midwest	2	32	Medium1a	14,775	1,231	2,364	797	3,779
3	Swine	Liquid	FF	Mid-Atlantic	3	5	Medium1a	41,187	580	2,876	0	2,854
3	Swine	Liquid	FF	Midwest	3	51	Medium1a	41,098	580	3,209	. 0	3,048
3	Swine	Liquid	FF	Mid-Atlantic	1	*19	Medium1b	13,551	745	1,930	291	- 2,854
3	Swine	Liquid	FF	Midwest	1	200	Medium1b	14,864	695	2,287	237	3,048
·3	Swine	Liquid	FF	Mid-Atlantic	2	1	Medium1b	18,100	685	1,895	227	58,051
3	Swine	Liquid	FF	Midwest	2	14	Medium1b	19,050	709	2,278	252	3,048
3	Swine	Liquid	FF	Mid-Atlantic	3	2	Medium1b	66,992	580	11,478	0	2,854
3	Swine	Liquid	FF	Midwest	3	23	Medium1b	66,517	580	11,512	0	3,048
3	Swine	Liquid	FF	Mid-Atlantic	1	29	Medium1b	15,006	2,199	2,823	1,822	2,854
3	Swine	Liquid	FF	Midwest	. 1	300	Medium1b	15,770	1,771	2,844	1,362	3,048
3	Swine	Liquid	FF	Mid-Atlantic	2	2	Medium1b	50,832	1,127	8,525	693	2,854
3	Swine	Liquid	FF	Midwest	2	21	Medium1b	19,489	1,231	11,369	797	3,048
3	Swine	Liquid	FF	Mid-Atlantic	3	3	Medium1b	66,992	580	4,018	0	
3	Swine	Liquid	FF	Midwest	3	34	Medium1b	66,517	580	4,337	0	
3	Swine	Liquid	FF	Mid-Atlantic	. 1	13	Medium2	17,618	816	2,163	365	2,854
3	Swine	Liquid	FF	Midwest	1	76	Medium2	19,809	750	2,549	294	
3	Swine	Liquid	FF	Mid-Atlantic	2	1	Medium2	22,108	720	2,071	264	92,560
3	Swine	Liquid	FF	Midwest	2	7	Medium2	23,782	752	2,487	297	3,048
3	Swine	Liquid	FF	Mid-Atlantic	3	2	Medium2	91,685	580	15,750	0	2,854

					Table 1	1-12. (Con	tinued)			•		
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
3	Swine	Liquid	FF	Midwest	3.	11	Medium2	93,553	580	16,111	0	3,048
3.	Swine	Liquid	FF	Mid-Atlantic	1	19	Medium2	19,693	2,889	3,437	2,549	2,854
3	Swine	Liquid	FF	Midwest	1	115	Medium2	21,145	2,336	3,369	1,952	3,048
3	Swine	Liquid	FF	Mid-Atlantic	2	2	Medium2	68,727	1,544	11,599	1,132	2,854
3 ·	Swine	Liquid	FF .	Midwest	2	11	Medium2	24,602	1,726	4,618	1,315	3,048
3	Swine	Liquid	FF	Mid-Atlantic	3	3	Medium2	91,685	580	5,111	0	2,854
3	Swine	Liquid	FF	Midwest	3	17	Medium2	93,553	- 580	5,536	. 0	3,048
3	Swine	Liquid	GF	Mid-Atlantic	1	28	Largel	24,796	738	2,252	255	2,703
3	Swine	Liquid	GF	Midwest	· 1	39	Largel	27,458	740	2,515	252	2,370
3	Swine	Liquid	GF	Mid-Atlantic	2	9	Large1	29,165	648	2,140	159	209,958
3	Swine	Liquid	GF	Midwest	2	12	Largel	30,914	699	2,364	209	88,309
3 .	Swine	Liquid	GF	Mid-Atlantic	3	' 8	Large1	143,910	580	31,503	0	2,703
3	Swine	Liquid	GF	Midwest	3	11	Large1	142,191	580	30,643	0	2,370
3	Swine	Liquid	GF	Mid-Atlantic	1	41	Largel	24,830	2,124	2,273	1,750	2,703
3	Swine	Liquid	GF	Midwest	1	59	Large1	27,479	2,238	2,528	1,818	2,370
3	Swine	Liquid	GF	Mid-Atlantic	2	13	Largel	104,243	1,041	17,780	582	2,703
3	Swine	Liquid	GF	Midwest	2	18	Largel	103,093	1,379	15,866	920	2,370
3	Swine	Liquid '	GF	Mid-Atlantic	3	12	Largel	143,910	580	8,217	0	2,703
3	Swine	Liquid	GF	Midwest	3	17	Large1	142,191	580	8,255	0	2,370
3	Swine	Liquid	GF	Mid-Atlantic	1	15	Large2	55,373	975	3,724	511	2,703
3	Swine	Liquid	GF	Midwest	1	9	Large2	70,800	1,050	4,600	576	2,370
3	Swine	Liquid	GF	Mid-Atlantic	2	· 17	Large2	57,498	760	3,288	279	501,026
3	Swine	Liquid	GF	Midwest	2	10	Large2	69,666	892	3,963	410	345,312
3	Swine	Liquid	GF	Mid-Atlantic	3	9	Large2	345,269	580	76,750	0	2,703
3	Swine	Liquid	GF	Midwest	. 3	5	Large2	397,037	580	86,942	0	2,370
3	Swine	Liquid	GF	Mid-Atlantic	1	22	Large2	55,459	4,444	3,776	4,252	2,703
3	Swine	Liquid	GF	Midwest	1	13	Large2	70,862	5,447	4,638	5,172	2,370
3	Swine	Liquid	GF	Mid-Atlantic	2	26	Large2	246,507	1,219	42,247	775	2,703
3	Swine	Liquid	GF	Midwest	2	15	Large2	283,053	1,689	43,365	1,244	2,370

					Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
3	Swine	Liquid	GF	Mid-Atlantic	3	13	Large2	345,269	580	18,483	0	2,703
3	Swine	Liquid	GF	Midwest	3	8	Large2	397,037	580	21,232	0	2,370
3	Swine	Liquid	GF	Mid-Atlantic	1 .	24	Medium1a	9,951	685	1,724	227	2,854
3	Swine	Liquid	GF	Midwest	1	157	Mediumla	10,721	651	2,069	191	3,048
3	Swine	Liquid	GF	Mid-Atlantic	2	3	Mediumla	14,425	639	1,727	180	44,201
3	Swine	Liquid	GF	Midwest	2	19	Mediumla	14,947	653	2,091	194	3,048
3	Swine	Liquid	GF	Mid-Atlantic	3	5	Mediumla	45,698	580	9,628	0	2,854
3	Swine	Liquid	GF	Midwest	3	32	Mediumla	44,498	580	9,484	0	3,048
3	Swine	Liquid	GF :	Mid-Atlantic	1	35	Mediumla	10,874	1,607	2,291	1,198	2,854
3	Swine	Liquid	GF	Midwest	1	236	Medium1a	11,279	1,314	2,412	884	3,048
3	Swine	Liquid	GF	Mid-Atlantic	2	4	Medium1a	35,645	1,026	6,282	586	2,854
3	Swine	Liquid	GF	Midwest	2	28	Mediumla	15,332	1,110	3,234	671	3,048
3	Swine	Liquid	GF	Mid-Atlantic	3	. 7	Medium1a	45,698	580	3,318	0	2,854
3	Swine	Liquid	GF	Midwest	3	48	Medium1a	44,498	580	3,587	0	3,048
3	Swine	Liquid	GF	Mid-Atlantic	. 1	4	Medium1b	13,570	746	1,931	292	2,854
3	Swine	Liquid	GF	Midwest	1	28	Mediumlb	14,587	692	2,273	234	3,048
3	Swine	Liquid	GF	Mid-Atlantic	2	0	Mediumlb	50,425	639	2,669	180	2,854
3	Swine	Liquid	GF	Midwest	2	3	Medium1b	18,735	651	2,238	191	53,292
3	Swine	Liquid	GF	Mid-Atlantic	3	1	Medium1b	67,106	580	14,372	0	2,854
3	Swine	Liquid	GF	Midwest	3	6	Medium1b	65,028	580	13,946	0	3,048
3	Swine	Liquid	GF	Mid-Atlantic	1 ·	<b>†</b> 6	Medium1b	15,028	2,202	2,826	1,825	2,854
3	Swine	Liquid	GF	Midwest	1	42	Medium1b	15,470	1,740	2,815	1,329	3,048
3	Swine	Liquid	GF	Mid-Atlantic	2	1	Medium1b	50,812	1,026	8,859	586	2,854
3	Swine	Liquid	GF	Midwest	2	5	Medium1b	49,418	1,110	8,157	671	3,048
3.	Swine	Liquid	GF	Mid-Atlantic	3	1	Medium1b	67,106	580	4,407	0	2,854
3	Swine	Liquid	GF	Midwest	3	9	Medium1b	65,028	580	4,629	0	3,048
3	Swine	Liquid	GF	Mid-Atlantic	1	12	Medium2	17,737	818	2,170	368	2,854
3	Swine	Liquid	GF	Midwest	1	· 34	Medium2	19,612	748	2,539	292	3,048
3	Swine	Liquid	GF	Mid-Atlantic	2	2	Medium2	22,212	709	2,069	253	103,576

-					Table 1	1-12. (Con	itinued)	-			-	
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
3	Swine	Liquid	GF	· Midwest	2	7	Medium2	23,581	734	2,471	278	18,181
3	Swine	Liquid	GF	Mid-Atlantic	3	' 3	Medium2	92,409	580	20,003	0	2,854
3	Swine	Liquid	GF	Midwest	3	8	Medium2	92,462	580	19,940	0	3,048
3	Swine	Liquid	GF	Mid-Atlantic	1	18	Medium2	19,830	2,909	3,455	2,570	2,854
3	Swine	Liquid	GF	Midwest	1	52	Medium2	20,930	2,313	3,348	1,928	3,048
3	Swine	Liquid	GF	Mid-Atlantic	2	3	Medium2	69,013	1,319	12,094	896	2,854
.3	Swine	Liquid	GF	Midwest	2	10	Medium2	69,126	1,459	11,277	1,035	3,048
3	Swine	_ Liquid	GF	Mid-Atlantic	3	4	Medium2	92,409	580	5,694	0	2,854
3.	Swine	Liquid	GF	Midwest	3	, 12	Medium2	92,462	. 580	6,023	0	3,048
- 3.1	Swine	Liquid	FF	Mid-Atlantic	1	57	Large1	640	736	181	253	2,703
3.1	Swine	Liquid	FF	Midwest	1.	252	Large1	635	742	180	254	2,370
3.1	Swine	Liquid	FF	Mid-Atlantic	· 2	9	Large1	11,597	668	397	181	156,629
3.1	Swine	Liquid	FF	Midwest	2	42	Large1	11,495	739	395	251	3,349
3.1	Swine	Liquid	FF	Mid-Atlantic	3	11	Large1	118,315	580	22,431	0	2,703
3.1	Swine	Liquid	FF	Midwest	3	47	Largel	116,232	580	22,021	0	2,370
3.1	Swine	Liquid	FF	Mid-Atlantic	1	85	Large1	674	2,105	202	1,729	2,703
3.1	Swine	Liquid	FF	Midwest	1	378	Large1	657	2,251	193	1,832	2,370
3.1	Swine -	Liquid	FF	Mid-Atlantic	2 -	14	Large1	85,724	1,134	14,957	682	2,703
3.1	Swine	Liquid	FF	Midwest	2	63	Large1	11,507	1,541	10,272	1,089	2,370
3.1	Swine	Liquid	FF	Mid-Atlantic	3	16	Large1	118,315	580	5,187	. 0	2,703
3.1	Swine	Liquid	FF.	Midwest	3	71	Largel	116,232	580	5,097	0	2,370
3.1	Swine	Liquid	FF	Mid-Atlantic	1	44	Large2	1,139	1,340	200	905	2,703
3.1	Swine	Liquid	FF	Midwest	1	89	Large2	1,040	1,228	192	762	2,370
3.1	Swine	Liquid	FF	Mid-Atlantic	2	, 21	Large2	394,727	808	8,613	331	2,703
3.1	Swine	Liquid	FF	Midwest	2	43	Large2	24,943	976	664	498	549,868
3.1	Swine	Liquid	FF	Mid-Atlantic	3	26	Large2	554,131	580	108,310	0	2,703
3.1	Swine	Liquid	FF	Midwest	3	53	Large2	448,511	580	87,492	0	2,703
3.1	Swine	Liquid	FF	Mid-Atlantic	-1	66	Large2	1,303	8,018	300	8,106	
3.1	Swine	Liquid	FF	Midwest	1	133	Large2	1,126	7,286	245	7,094	2,703 2,370

					Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
3.1	Swine	Liquid	FF	Mid-Atlantic	2	32	Large2	394,750	1,724	71,313	1,319	2,703
3.1	Swine	Liquid	FF	Midwest	2	64	Large2	319,864	2,566	51,436	2,160	2,370
3.1	Swine	Liquid	FF	Mid-Atlantic	3	39	Large2	554,131	580	24,192	0	2,703
3.1	Swine	Liquid	FF	Midwest	3	79	Large2	448,511	580	19,586	0	2,370
3.1	Swine	Liquid	FF	Mid-Atlantic	1	93	Mediumla	1,242	672	392	214	2,854
3.1	Swine	Liquid	FF	Midwest	1	792	Medium1a	1,196	644	567	184	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	2	7	Medium1a	7,500	689	526	232	2,854
3.1	Swine	Liquid	FF	Midwest	2	56	Mediumla	7,419	709	723	252	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	3	10	Medium1a	33,260	580	5,745	0	2,854
3.1	Swine	Liquid	FF	Midwest	3	90	Medium1a	32,228	580	5,742	0	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	1	139	MediumIa	2,053	1,482	890	1,067	2,854
3.1	Swine	Liquid	FF	Midwest	1	1189	Medium1a	1,701	1,244	878	811	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	2	10	Medium1a	7,939	1,127	1,435	693	2,854
3.1	Swine	Liquid	FF	Midwest	2	84	Mediumla	7,858	1,231	993	797	3,779
3.1	Swine	Liquid	FF -	Mid-Atlantic	3	16	Medium1a	33,260	580	1,588	0	2,854
3.1	Swine	Liquid	FF	Midwest	3	135	Medium1a	32,228	580	1,742	0	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	1	62	Medium1b	1,449	745	440	291	2,854
3.1	Swine	Liquid	FF	Midwest	1	528	Medium1b	1,370	695	596	237	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	2	4	Medium1b	8,999	685	554	227	58,051
3.1	Swine	Liquid	FF	Midwest	2	37	Medium1b	8,883	709	752	252	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	3	. 7	Medium1b	54,889	580	9,988	0	2,854
3.1	Swine	Liquid	FF	Midwest	3	60	Medium1b	53,024	580	9,820	· 0	3,048
3.1	Swine	Liquid	FF.	Mid-Atlantic	1	93	Medium1b	2,904	2,199	1,334	1,822	2,854
3.1	Swine	Liquid	FF	Midwest	1	793	Medium1b	2,276	1,771	1,153	1,362	3,048
3.1 .	Swine	Liquid	FF	Mid-Atlantic	2	6	Medium1b	41,731	1,127	7,184		2,854
3.1	Swine	Liquid	FF	Midwest	2	56	Medium1b	9,322	1,231	9,843	797	3,048
3.1	Swine	Liquid	FF	Mid-Atlantic	3	11	Medium1b	54,889	580	2,529		
3.1	Swine	Liquid	FF	Midwest	3	90	Medium1b	53,024	- 580	2,646		
3.1	Swine	Liquid	FF	Mid-Atlantic	11	41	Medium2	1,621	816	485	365	2,854

					Table 1	1-12. (Con	ıtinued)	-				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr red
3.1	Swine	Liquid	FF	Midwest	1	202	Medium2	1,526	750	627	294	3,0
3.1	Swine	Liquid	FF	Mid-Atlantic	2	4	Medium2	10,285	720	600	264	92,5
3.1	Swine	Liquid	FF	Midwest	2	20	Medium2	10,266	752	801	297	3,0
3.1	Swine	Liquid	FF	Mid-Atlantic	3	6	Medium2	75,688	580	14,073	0	2,8
3.1	Swine	Liquid	FF	Midwest	3	30	Medium2	75,270	580	14,189	0	3,0
3.1	Swine	Liquid	FF	Mid-Atlantic	1	62	Medium2	3,696	2,889	1,760	2,549	2,8:
3.1	Swine	Liquid	FF	Midwest	1	303	Medium2	2,862	2,336	1,447	1,952	3,04
3.1	Swine	Liquid	FF	Mid-Atlantic	2	6	Medium2	56,904	1,544	10,128	1,132	2,85
3.1	Swine	Liquid	FF	Midwest	2	30	Medium2	11,086	1,726	2,931	1,132	3,04
3.1	Swine	Liquid	FF	Mid-Atlantic	3	- 9	Medium2	75,688	580	3,434	0	
3.1	Swine	: Liquid	FF	Midwest	3	45	Medium2	75,270	580	3,614	0	2,85
3.1	Swine	Liquid	GF	Mid-Atlantic	1	88	Large1	643	738	181	255	3,04
3.1	Swine	Liquid	GF	Midwest	1	103	Large1	634	740	180	252	2,70
3.1	Swine	Liquid	GF	Mid-Atlantic	2	27	Large1	11,666	648	398	159	2,37
3.1	Swine	Liquid	GF	Midwest	. 2	32	Large1	11,452	699	394		209,95
3.1	Swine	Liquid	GF	Mid-Atlantic	3	25	Large1	119,757	580	29,432	209	88,30
3.1	Swine	Liquid	GF	Midwest	3	29	Large1	115,367	580		0	2,70
3.1	Swine	Liquid	GF	Mid-Atlantic	1	131	Large1	677	2,124	28,308 202	0	2,37
3.1	Swine	Liquid	GF	Midwest	. 1	155	Large1	655	2,238	193	1,750	2,70
3.1	Swine	Liquid	GF .	Mid-Atlantic	2	41	Largel	86,744	1,041	16,038	1,818	2,37
3.1	Swine	Liquid	GF	Midwest	2	48	Large1	83,631	1,379		582	2,70
3.1	Swine	Liquid	GF	Mid-Atlantic	3	37	Largel	119,757	580	13,896	920	2,37
3.1	Swine	Liquid	GF	Midwest	3	44	Large1	115,367	580	6,146	0	2,70
3.1	Swine	Liquid	. GF	Mid-Atlantic	1	47	Large2	883		5,920	0	2,37
3.1	Swine	Liquid	GF	Midwest	1	23	Large2	920	975	189	511	2,70
3.1	Swine	Liquid	GF	Mid-Atlantic	2	55	Large2	19,006	1,050 760	188	576	2,37
3.1	Swine	Liquid	GF -	Midwest	2	27	Large2	20,421	892	545	279	501,02
3.1	Swine	Liquid	GF	Mid-Atlantic	3	29	Large2	290,778		. 573	410	345,31
3.1	Swine	Liquid	GF	Midwest	3	14	Large2	327,157	580 580	73,215 82,531	0	2,70 2,37

					Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
3.1	Swine	Liquid	GF	Mid-Atlantic	1	70	Large2	968	4,444	241	4,252	2,703
3.1	Swine	Liquid	GF	Midwest	1	34	Large2	982	5,447	227	5,172	2,370
3.1	Swine	Liquid	GF	Mid-Atlantic	2	82	Large2	208,015	1,219	39,504	775	2,703
3.1	Swine	Liquid	GF	Midwest	2	40	Large2	233,808	1,689	39,975	1,244	2,370
3.1	Swine	Liquid	GF	Mid-Atlantic	3	43	Large2	290,778	580	14,948	0	· 2,703
3.1	Swine	Liquid	GF	Midwest	3	21	Large2	327,157	580	16,821	. 0	2,370
3.1	Swine	Liquid	GF	Mid-Atlantic	1	. 75	Mediumla	1,281	685	401	227	2,854
3.1	Swine	Liquid	GF	Midwest	1	416	Mediumla	1,222	651	571	191	3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	2	, 9	Mediumla	7,735	639	502	180	44,201
3.1	Swine	Liquid	GF	Midwest	2	50	Medium1a	7,586	653	698	194	3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	3	. 16	Mediumla	37,029	580	8,304	0	2,854
3.1	Swine	Liquid	GF	Midwest	3	85	Mediumla	34,999	580	7,986	0	3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	1	_ 113	Mediumla	2,204	1,607	968	1,198	2,854
3.1	Swine	Liquid	GF	Midwest	1	623	Medium1a	1,780	1,314	914	884	3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	2	14	Mediumla	28,955	1,026	5,056	586	2,854
3.1	Swine	Liquid	GF	Midwest	2	74	Medium1a	7,971	1,110	1,842	671	3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	3	23	Medium1a	37,029	580	1,995	0	2,854
3.1	Swine	Liquid	GF ·	Midwest	3	128	Medium1a	34,999	580	2,089	0	3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	1	13	Medium1b	1,449	746	440	292	2,854
3.1	Swine	Liquid	GF	Midwest	1	74	Medium1b	1,360	692	595	234	3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	2	2	Mediumlb	41,311	639	1,327	180	2,854
3.1	Swine	Liquid	GF	Midwest	2	9	Medium1b	8,755	651	720	191	53,292
3.1	Swine	Liquid	GF	Mid-Atlantic	3	3	Medium1b	54,985	580	12,882	0	2,854
3.1	Swine	Liquid	GF	Midwest	3	15	Medium1b	51,801	580	12,268	0	
3.1	Swine	Liquid	GF	Mid-Atlantic	1	20	Medium1b	2,907	2,202	1,336	1,825	2,854
3.1	Swine	Liquid	GF	Midwest	1	111	Medium1b	2,243	1,740	1,137	1,329	
3.1	Swine	Liquid	GF	Mid-Atlantic	2	2	Medium1b	41,698	1,026	7,518		
3.1	Swine	Liquid	GF	Midwest	2	13	Medium1b	39,438	1,110	6,639		3,048
3.1	Swine	Liquid	GF	Mid-Atlantic	3	4	Medium1b	54,985	580	2,916	0	2,854

					Table 1	1-12. (Cor	ntinued)		-			
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
3.1	Swine	Liquid	GF	Midwest	. 3	- 23	Medium1b	51,801	580	2,951	0	3,04
3.1	Swine	Liquid	GF	Mid-Atlantic	1	37	Medium2	1,626	818	487	368	2,85
3.1	Swine	Liquid	GF	Midwest	1	91	Medium2	1,520	748	625	292	3,04
3.1	Swine	Liquid	GF	Mid-Atlantic	2	7	Medium2	10,311	709	594	253	103,57
3.1	Swine	Liquid	GF	Midwest	. 2	18	Medium2	10,199	734	790	278	18,18
3.1	Swine	Liquid	GF	Mid-Atlantic	3	9	Medium2	76,299	580	18,320	0	2,85
3.1	Swine	Liquid	GF	Midwest	3	21	Medium2	74,370	580	18,027	0	3,04
3.1	Swine	Liquid	GF	Mid-Atlantic	1	56	Medium2	3,719	2,909	1,772	2,570	2,85
3.1	Swine	Liquid	GF	Midwest	1	137	Medium2	2,839	2,313	1,435	1,928	3,04
3.1	Swine	Liquid	GF	Mid-Atlantic	2	11	Medium2	57,112	1,319	10,619	896	2,85
3.1	Swine	Liquid	GF	Midwest	2	27	Medium2	55,744	1,459	9,597	1,035	3,04
3.1	Swine	Liquid	GF ,	Mid-Atlantic	3	13	Medium2	76,299	580	4,011	0	2,85
3.1	Swine	Liquid	GF	Midwest	3	32	Medium2	74,370	580	4,110	- 0	3,04
4	Swine	Liquid	FF	Mid-Atlantic	1 ·	18	Large1	24,532	1,128	7,373	253	2,70
4	Swine	Liquid	FF	Midwest	· 1	95	Large1	27,640	1,134	7,031	254	2,37
4	Swine	Liquid	FF	Mid-Atlantic	2	3	Large1	28,915	1,060	7,263	181	156,62
4	Swine	Liquid	FF	Midwest	2	16	Large1	31,082	1,131	6,879	251	3,34
4	Swine	Liquid	FF	Mid-Atlantic	3	3	Large1	142,206	972	29,622	0	2,70
4	Swine	Liquid	FF	Midwest	3	18	Large1	143,237	972	28,872	0	2,37
4	Swine	Liquid	FF	Mid-Atlantic	1	27	Large1	24,565	2,497	7,393	1,729	2,70
4	Swine	Liquid	FF	Midwest	· 1	143	Large1	27,661	2,643	7,045	1,832	2,37
4	Swine	Liquid	FF	Mid-Atlantic	2	4	Large1	103,041	1,526	21,823	682	2,70
4	Swine	Liquid	FF	Midwest	2	24	Large1	31,094	1,933	16,756	1,089	2,70
4	Swine	Liquid	FF	Mid-Atlantic	3	. 5	Largel	142,206	972	12,379	1,069	2,70
4	Swine	Liquid	FF	Midwest	3	27	Large1	143,237	972	11,948	0	2,70
4	Swine	Liquid	FF	Mid-Atlantic	1	14	Large2	101,273	1,732	11,067	905	2,37
4	Swine	Liquid	FF	Midwest	1	34	Large2	95,118	1,620	10,278	762	
4	Swine	Liquid	FF	Mid-Atlantic	2	7	Large2	464,669	1,200	17,986	331	2,37
4	Swine	Liquid	FF	Midwest	2	16	Large2	90,865	1,368	9,355	498	2,70 549,86

	•				Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
4	Swine	Liquid	FF	Mid-Atlantic	3	8	Large2	654,265	972	119,178	0	2,703
4	Swine	Liquid	FF	Midwest	3	20	Large2	542,589	972	97,578	0	2,370
4	Swine	Liquid	FF	Mid-Atlantic	1	21	Large2	101,437	8,410	11,168	8,106	2,703
4	Swine	Liquid	FF	Midwest	1	50	Large2	95,203	7,678	10,331	7,094	2,370
4	Swine	Liquid	FF	Mid-Atlantic	2	10	Large2	464,692	2,116	80,686	1,319	2,703
4	Swine	Liquid	FF	Midwest	2	` 24	Large2	385,787	2,958	60,127	2,160	2,370
4	Swine	Liquid	FF	Mid-Atlantic	3	12	Large2	654,265	972	35,060	0	2,703
4	Swine	Liquid	FF	Midwest	3	30	Large2	542,589	972	29,672	0	2,370
4	Swine	Liquid	FF	Mid-Atlantic	1	29	Mediumla	9,170	1,064	7,576	214	2,854
4	Swine	Liquid	FF	Midwest	1	300	Mediumla	10,066	1,036	5,373	184	3,048
4	Swine	Liquid	FF	Mid-Atlantic	2	2	Mediumla	13,667	1,081	7,622	232	2,854
4	Swine	Liquid	FF	Midwest	2	21	Mediumla	14,336	1,101	5,433	252	3,048
4	Swine	Liquid	FF	Mid-Atlantic	3	3	Mediumla	41,187	972	12,929	0	2,854
4	Swine	Liquid	FF	Midwest	3	34	Mediumla	41,098	972	10,548	. 0	3,048
- 4	Swine	Liquid	-FF	Mid-Atlantic	1	44	Mediumla	9,981	1,874	8,074	- 1,067	2,854
4	Swine	Liquid	FF	Midwest	1	450	Mediumla	10,572	1,636	5,684		3,048
4	Swine	Liquid	FF	Mid-Atlantic	2	3	Mediumla	14,106	1,519	8,532	693	2,854
4	Swine	Liquid	FF	Midwest	2	32	Mediumla	14,775	1,623	5,702	797	3,779
4	Swine	Liquid	FF	Mid-Atlantic	3	5	Mediumla	41,187	972	8,771	0	2,854
4.	Swine	Liquid	FF	Midwest	3	51	Mediumla	41,098	972	6,548	0	3,048
4	Swine	Liquid	FF	Mid-Atlantic	- 1	19	Medium1b	13,551	1,137	. 7,825	291	2,854
4	Swine	Liquid	FF	Midwest	1	200	Mediumlb	14,864	1,087	5,626	237	3,048
4	Swine	Liquid	FF	Mid-Atlantic	2	1	Medium1b	18,100	1,077	7,790	227	58,051
4	Swine	Liquid	FF	Midwest	2	14	Mediumlb	19,050	1,101	5,617	252	3,048
4	Swine	Liquid	FF	Mid-Atlantic	3	2	Medium1b	66,992	972	17,373		
4	Swine	Liquid	FF	Midwest	3	23	Medium1b	66,517	972	14,850	<del></del>	- ,
4	Swine	Liquid	FF	Mid-Atlantic	1	29	Medium1b	15,006	2,591	8,719	1,822	2,854
4	Swine	Liquid	FF	Midwest	1	300	Medium1b	15,770	2,163	6,182	1,362	3,048
4	Swine	Liquid	· FF	Mid-Atlantic	2	2	Medium1b	50,832	1,519	14,421	693	2,854

-					Table 1	1-12. (Con	ntinued)	1			,	
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
4	Swine	Liquid	FF	Midwest	2	21	Medium1b	19,489	1,623	14,708	797	3,048
4	Swine	Liquid	FF	Mid-Atlantic	3	3	Medium1b	66,992	972	9,914	0	
4	Swine	Liquid	FF	Midwest	3	34	Medium1b	66,517	972	7,676	0	3,048
4	Swine	Liquid	FF	Mid-Atlantic	1	13	Medium2	17,618	1,208	8,059	365	2,854
4	Swine	Liquid	FF	Midwest	! 1	76	Medium2	19,809	1,142	5,888	294	3,048
4	Swine	Liquid	FF	Mid-Atlantic	2	1	Medium2	22,108	1,112	7,967	264	92,560
4	Swine	Liquid	FF	Midwest	12	7	Medium2	23,782	1,144	5,826	297	3,048
4	Swine	Liquid	FF	Mid-Atlantic	<sup>;</sup> 3	. 2	Medium2	91,685	972	21,646	0	2,854
4	Swine	Liquid	FF	Midwest	3	11	Medium2	93,553	972	19,450	0	3,048
4	Swine	Liquid	FF	Mid-Atlantic	1	19	Medium2	19,693	3,281	9,333	2,549	2,854
4	Swine	Liquid	FF	Midwest	! 1	115	Medium2	21,145	2,728	6,708	1,952	3,048
4	Swine	Liquid	FF	Mid-Atlantic	1 2	2	Medium2	68,727	1,936	17,495	1,132	2,854
4	Swine	Liquid	FF	Midwest	+ 2	11	Medium2	24,602	2,118	7,956	1,315	3,048
4	Swine	Liquid	FF	Mid-Atlantic	3	3	Medium2	91,685	972	11,007	1,313	2,854
4	Swine	Liquid	FF	Midwest	: 3	17	Medium2	93,553	972	8,875	0	
4	Swine	Liquid	GF	Mid-Atlantic	1	28	Large1	24,796	1,130	7,385	255	3,048
4	Swine	Liquid	GF	Midwest	1	39	Large1	27,458	1,132	7,023	252	2,703
4	Swine	Liquid	GF	Mid-Atlantic	2	9	Largel	29,165	1,040	7,023	159	2,370
4	Swine	Liquid	GF	Midwest	2	12	Largel	30,914	1,040	6,872	209	209,958
4	Swine	Liquid	GF	Mid-Atlantic	3	8	Largel	143,910	972	36,636		88,309
4	Swine	Liquid	GF	Midwest	3	11	Largel	142,191	972	35,151	0	2,703
4	Swine	Liquid	GF	Mid-Atlantic	1 .	41	Largel	24,830	2,516	7,406	1.750	2,370
4	Swine	Liquid	GF	Midwest	1	59	Largel	27,479	2,630	7,406	1,750	2,703
4	Swine	Liquid	GF	Mid-Atlantic	2	13	Largel	104,243	1,433	22,912	1,818	2,370
4	Swine	Liquid	GF	Midwest	2	18	Large1	103,093	1,771	20,374	582	2,703
4	Swine	Liquid	GF	Mid-Atlantic	3	12	Large1	143,910	972	13,350	920	2,370
4	Swine	Liquid	GF	Midwest	3	17	Largel	142,191	972		0	2,703
4	Swine	Liquid	GF	Mid-Atlantic	1	15	Large2	55,373	1,367	12,763	0	2,370
4	Swine	Liquid	GF	Midwest	1	9	Large2	70,800	1,442	8,857 9,108	511 576	2,703 2,370

					Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
4	Swine	Liquid	GF	Mid-Atlantic	2 .	17	Large2	57,498	1,152	8,421	279	501,026
4	Swine	Liquid	GF	Midwest	2	10	Large2	69,666	1,284	8,471	410	345,312
4	Swine	Liquid	GF	Mid-Atlantic	3	. 9	Large2	345,269	972	81,882	0	2,703
4	Swine	Liquid	GF	Midwest	3	5	Large2	397,037	972	91,450	0	2,370
4	Swine	Liquid	GF	Mid-Atlantic	1	22	Large2	55,459	4,836	8,909	4,252	2,703
4	· Swine	Liquid	GF	Midwest	1	13	Large2	70,862	5,839	9,146	5,172	2,370
4	Swine	Liquid	GF	Mid-Atlantic	2	26	Large2	246,507	1,611	47,380	775	2,703
4	Swine	Liquid	GF	Midwest	2	15	Large2	283,053	2,081	47,873	1,244	2,370
4	Swine	Liquid	GF	Mid-Atlantic	3	13	Large2	345,269	972	23,615	0	2,703
4	Swine	Liquid	GF	Midwest	3	8	Large2	397,037	972	25,740	0	2,370
4	Swine	Liquid	GF	Mid-Atlantic	1	1 24	Mediumla	9,951	1,077	7,620	227	2,854
4.	Swine	Liquid	GF	Midwest	1	157	Mediumla	10,721	1,043	5,408	191	3,048
4	Swine	Liquid	GF	Mid-Atlantic	2	3	Mediumla	14,425	1,031	7,623	180	44,201
4	Swine	Liquid	GF	Midwest	2	19	Mediumla	14,947	1,045	5,429	194	3,048
4	Swine	Liquid	GF	Mid-Atlantic	- 3	- 5	Mediumla	45,698	972	15,523	- 0	2,854
4	Swine	Liquid	GF	Midwest	3	32	Mediumla	44,498	972	12,822	0	3,048
4	Swine	Liquid	GF	Mid-Atlantic	1	35	Mediumla	10,874	1,999	8,187	1,198	2,854
4	Swine	Liquid	GF	Midwest	1	236	Mediumla	11,279	1,706	5,751	884	3,048
4	Swine	Liquid	GF	Mid-Atlantic	2 .	4	Mediumla	35,645	1,418	12,178	586	2,854
4	Swine	Liquid	GF	Midwest	2	28	Mediumla	15,332	1,502	6,572	671	3,048
4	Swine	Liquid	GF	Mid-Atlantic	3	7	Mediumla	45,698	972	9,214	0	
4	Swine	Liquid	GF	Midwest	3	48	Medium1a	44,498	972	6,925	0	3,048
- 4	Swine	Liquid	GF	Mid-Atlantic	1	4	Mediumlb	13,570	1,138	7,826	292	2,854
4	Swine	Liquid	GF	Midwest	1	28	Medium1b	14,587	1,084	5,611	234	3,048
4	Swine	Liquid	GF	Mid-Atlantic	2	0	Medium1b	50,425	1,031	8,564	180	2,854
4	Swine	Liquid	GF	Midwest	2	3	Mediumlb	18,735	1,043	5,576	191	53,292
4	Swine	Liquid	GF	Mid-Atlantic	3	1	Medium1b	67,106		20,268	0	
4	Swine	Liquid	GF	Midwest	3	6	Medium1b	65,028	972	17,285	. 0	
4	Swine	Liquid	GF	Mid-Atlantic	1	6	Medium1b	15,028	2,594	8,722	1,825	2,854

				,	Table 1	1-12. (Cor	ntinued)	•				
Option	Animal .	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
4	Swine	Liquid	GF	Midwest	1	42	Medium1b	15,470	2,132	6,153	1,329	· 3,0
4	Swine	Liquid	GF	Mid-Atlantic	2	1	Medium1b	50,812	1,418	14,755	586	2,85
4	Swine	Liquid	GF	Midwest	2	5	Medium1b	49,418	1,502	11,495	671	3,04
4	Swine	Liquid	GF	Mid-Atlantic	3	1	Medium1b	67,106	972	10,302	0/1	2,85
.4	Swine	Liquid	GF	Midwest	3	. 9	Medium1b	65,028	972	7,968	0	3,04
4	Swine	Liquid	GF	Mid-Atlantic	1	12	Medium2	17,737	1,210	8,066	368	2,85
4	Swine	Liquid	GF	Midwest	1	34	Medium2	19,612	1,140	5,877	292	3,04
4	Swine	Liquid	GF	Mid-Atlantic	2	2	Medium2	22,212	1,101	7,965	253	103,57
4	Swine	Liquid	GF	Midwest	2	7	Medium2	23,581	1,126	5,809	278	18,18
4	Swine	Liquid	GF	Mid-Atlantic	3	3	Medium2	92,409	972	25,899	0	2,85
4	Swine	Liquid	GF	Midwest	3	8	Medium2	92,462	972	23,278	0	3,04
4	Swine	Liquid	GF	Mid-Atlantic	1	18	Medium2	19,830	3,301	9,351	2,570	2,85
4	Swine	Liquid	GF	Midwest	- 1	52	Medium2	20,930	2,705	6,687	1,928	3,04
4	Swine	Liquid	` GF	Mid-Atlantic	2	3	Medium2	69,013	1,711	17,990	896	2,85
4	Swine	Liquid	GF	Midwest	2	10	Medium2	69,126	1,851	14,615	1,035	3,04
4	Swine	Liquid	GF	Mid-Atlantic	3	4	Medium2	92,409	972	11,589	1,033	2,85
4	Swine	Liquid	GF	Midwest	3	12	Medium2	92,462	972	9,362	0	3,04
4.1	Swine	Liquid	. FF	Mid-Atlantic	1	57	Large1	640	1,128	5,314	253	2,703
4.1	Swine	Liquid	FF	Midwest	1	252	Large1	635	1,134	4,688	254	2,370
4.1	Swine	Liquid	FF	Mid-Atlantic	2	9	Large1	11,597	1,060	5,530	181	156,629
4.1	Swine	Liquid	FF	Midwest	2	42	Largel	11,495	1,131	4,903	251	3,349
4.1	Swine	Liquid	FF	Mid-Atlantic	3	11	Large1	118,315	972	27,563	0	2,703
4.1	Swine	Liquid	FF	Midwest	3	47	Large1	116,232	972	26,528	. 0	2,703
4.1	Swine	Liquid	FF	Mid-Atlantic	1	85	Largel	674	2,497	5,334	1,729	
4.1	Swine	Liquid	FF	Midwest	.1	378	Large1	657	2,643	4,701	1,729	2,703
4.1	Swine	Liquid	FF	Mid-Atlantic	2	14	Largel	85,724	1,526	20,090	682	2,370 2,703
4.1	Swine	Liquid	FF	Midwest	2 !-	63	Large1	11,507	1,933	14,779	1,089	
4.1	Swine	Liquid	FF	Mid-Atlantic	3 :	16	Large1	118,315	972	10,320		2,370
4.1	Swine	Liquid	FF	Midwest	3 '	71	Large1	116,232	972	9,605	0	2,703 2,370

					Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
4.1	Swine	Liquid	FF	Mid-Atlantic	1	44	Large2	1,139	1,732	5,332	905	2,703
4.1	Swine	Liquid	FF	Midwest	1	89	Large2	1,040	1,620	4,700	762	2,370
4.1	Swine	Liquid	FF	Mid-Atlantic	2	21	Large2	394,727	1,200	13,746	331	2,703
4.1	Swine	Liquid	FF	Midwest	. 2	43	Large2	24,943	1,368	5,171	498	549,868
4.1	Swine	Liquid	FF	Mid-Atlantic	3	26	Large2	554,131	972	113,443	0	2,703
4.1	Swine	Liquid	FF	Midwest	3	53	Large2	448,511	972	92,000	0	2,370
4.1	Swine	Liquid	FF	Mid-Atlantic	1	66	Large2	1,303	8,410	5,433	8,106	2,703
4.1	Swine	Liquid	FF	Midwest .	1	133	Large2	1,126	7,678	4,753	7,094	2,370
4.1	Swine	Liquid	FF	Mid-Atlantic	2	32	Large2	394,750	2,116	76,446	1,319	2,703
4.1	Swine	Liquid	FF	Midwest	2	64	Large2	319,864	2,958	55,943	2,160	2,370
4.1	Swine	Liquid	FF	Mid-Atlantic	3	39	Large2	554,131	972	29,325	0	2,703
4.1	Swine	Liquid	FF	Midwest	3	79	Large2	448,511	972	24,094	0	2,370
4.1	Swine	Liquid	FF	Mid-Atlantic	1	93	Medium1a	1,242	1,064	6,288	214	2,854
4.1	Swine	Liquid	FF	Midwest	1	792	Medium1a	1,196	1,036	3,906	184	3,048
4.1	Swine	Liquid	FF	Mid-Atlantic	2	7	Mediumla	7,500	1,081	6,422	232	2,854
4.1	Swine	Liquid	FF	Midwest	2	56	Mediumla	7,419	1,101	4,062	252	3,048
4.1	Swine	Liquid	FF	Mid-Atlantic	3 .	10	Medium1a	33,260	972	11,641	.0	2,854
4.1	Swine	Liquid	FF	Midwest	3	90	Medium1a	32,228	972	9,080		3,048
4.1	Swine	Liquid	FF	Mid-Atlantic	1	139	Medium1a	2,053	1,874	6,786	1,067	2,854
4.1	Swine	Liquid	FF	Midwest	1	1189	Medium1a	1,701	1,636	4,216		3,048
4.1	Swine	Liquid	FF	Mid-Atlantic	2	10	Mediumla	7,939	1,519	7,331	693	2,854
4.1.	Swine	Liquid	FF	Midwest	2	84	Medium1a	7,858	1,623	4,331	797	3,779
4.1	Swine	Liquid	FF	Mid-Atlantic	3	16	Medium1a	33,260	972	17,484		
4.1	Swine	Liquid	FF	Midwest	3	135	Mediumla	32,228	972	5,080		
4.1	Swine	Liquid	FF	Mid-Atlantic	1	62	Medium1b	1,449	1,137	6,336		2,854
4.1	Swine	Liquid	FF	Midwest	1	528	Medium1b	1,370	1,087	3,935		3,048
4.1	Swine	Liquid	FF	Mid-Atlantic	2	4	Medium1b	8,999	1,077	6,449	· · · · · · · · · · · · · · · · · · ·	58,051
4.1	Swine	Liquid	FF	Midwest	2	37	Medium1b	8,883	1,101	4,091	252	
4.1	Swine	Liquid	FF	Mid-Atlantic	3	7	Medium1b	54,889	972	15,884	0	2,854

			:	•	Table 1	1-12. (Con	ıtinued)				-	
Option	Animal	Type	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 rm raa
4.1	Swine	Liquid	FF	Midwest	3	60	Medium1b	53,024	972	13,159	3 yr rec 0	5 yr rec 3,04
4.1	Swine	Liquid	FF	Mid-Atlantic	1	. 93	Medium1b	2,904	2,591	7,229	1,822	2,85
4.1	Swine	Liquid	FF	Midwest	1	793	Medium1b	2,276	2,163	4,491	1,362	
4.1	Swine	Liquid	FF	Mid-Atlantic	2	6	Medium1b	41,731	1,519	13,080	693	3,04
4.1	Swine	Liquid	FF	Midwest	2	. 56	Medium1b	9,322	1,623	13,182	797	2,85
4.1	Swine	Liquid	FF	Mid-Atlantic	3	. 11	Medium1b	54,889	972	8,424	0	3,04
4.1	Swine	Liquid	FF	Midwest	3	. 90	Medium1b	53,024	972	5,985	0	2,85
4.1	Swine	Liquid	FF	Mid-Atlantic	1	41	Medium2	1,621	1,208	6,381	365	3,04
4.1	Swine	Liquid	FF	Midwest	- 1	202	Medium2	1,526	1,142	3,965	294	2,85
4.1	Swine	Liquid	FF	Mid-Atlantic	2	4	Medium2	10,285	1,112	6,496	264	3,04
4.1 .	Swine	Liquid	FF	Midwest	2	20	Medium2	10,266	1,144	4,140		92,56
4.1	Swine	Liquid	FF	Mid-Atlantic	3	6	Medium2	75,688	972		297	3,04
4.1	Swine	Liquid	FF	Midwest	3	. 30	Medium2	75,270	972	19,968	0	2,854
4.1	Swine	Liquid	FF	Mid-Atlantic	1	62	Medium2	3,696	3,281	17,528	0 540	3,048
4.1	Swine	Liquid	FF	Midwest	1	303	Medium2	2,862	2,728	7,655	2,549	2,854
4.1	Swine	Liquid	FF	Mid-Atlantic	2	6	Medium2	56,904		4,785	1,952	3,048
4.1	Swine	Liquid	FF	Midwest	2	30	Medium2	11,086	1,936 2,118	16,024	1,132	2,854
4.1	Swine	Liquid	FF	Mid-Atlantic	3	9	Medium2	75,688		6,270	1,315	3,048
4.1	Swine	Liquid	FF	Midwest	3	45	Medium2	75,270	972 972	9,329	0	2,854
4.1	Swine	Liguid	GF	Mid-Atlantic	1	88	Largel			6,953	0	3,048
4.1	Swine	Liquid	GF	Midwest	1	103	Large1	643	1,130	5,314	255	2,703
4.1	Swine	Liquid	GF	Mid-Atlantic	2	27		634	1,132	4,688	252	2,370
4.1	Swine	Liquid	GF	Midwest	2	32	Largel	11,666	1,040	5,531	159	.209,958
4.1	Swine	Liquid	GF	Mid-Atlantic	3	. 25	Large1	11,452	1,091	4,902	209	88,309
4.1	Swine	Liquid	GF	Midwest	3	29	Large1	119,757	972	34,564	0	2,703
4.1	Swine	Liquid	GF	Mid-Atlantic	1	131	Large1	115,367	972	32,816	0	2,370
4.1	Swine	Liquid	GF	Midwest	1	151	Large1	677	2,516	5,335	1,750	2,703
4.1	Swine	Liquid		Mid-Atlantic	2		Large 1	655	2,630	4,701	1,818	2,370
4.1	Swine	Liquid	GF	Midwest	2	41	Large1	86,744	1,433	21,170	582	2,703
				THIUWOSL		48	Large1	83,631	1,771	18,404	920	2,370

					Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
4.1	Swine	Liquid	GF	Mid-Atlantic	3	37	Largel	119,757	972	11,279	0	2,703
4.1	Swine	Liquid	GF	Midwest	3	44	Largel	115,367	972	10,428	0	2,370
4.1	Swine	Liquid	GF	Mid-Atlantic	1	47	Large2	883	1,367	5,322	511	2,703
4.1	Swine	Liquid	GF	Midwest	1	23	Large2	920	1,442	4,696	576	2,370
4.1	Swine	Liquid	GF	Mid-Atlantic	2	55	Large2	19,006	1,152	5,678	279	501,026
4.1	Swine	Liquid	GF	Midwest	2	27	Large2	20,421	1,284	5,081	410	345,312
4.1	Swine	Liquid	GF	Mid-Atlantic	3	29	Large2	290,778	972	78,348	0	2,703
4.1	Swine	Liquid	GF	Midwest	3	14	Large2	327,157	972	87,039	0	2,370
4.1	Swine	Liquid	GF	Mid-Atlantic	1	. 70	Large2	968	4,836	5,374	4,252	2,703
4.1	Swine	Liquid	GF	Midwest	1	34	Large2	982	5,839	4,734	5,172	2,370
4.1	Swine	Liquid	GF	Mid-Atlantic	2	. 82	Large2	208,015	1,611	44,637	775	2,703
4.1	Swine	Liquid	GF	Midwest	2	40	Large2	.233,808	2,081	44,483	1,244	2,370
4.1	Swine	Liquid	GF	Mid-Atlantic	3	. 43	Large2	290,778	972	20,081	0	2,703
4.1	Swine	Liquid	GF	Midwest	3	21	Large2	327,157	972	21,329	0	2,370
4.1	Swine	Liquid	GF	Mid-Atlantic	1	75	Mediumla	1,281	1,077	6,296		2,854
4.1	Swine	Liquid	GF	Midwest	1	416	Mediumla	1,222	1,043	3,910	191	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	2	. 9	Mediumla	7,735	1,031	6,397	180	44,201
4.1	Swine	Liquid	GF	Midwest	2	50	Mediumla	7,586	1,045	4,037	194	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	3	16	Mediumla	37,029	.972	14,200	0	2,854
4.1	Swine	Liquid	GF	Midwest	3	85	Mediumla	34,999	972	11,324	0	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	1	113	Mediumla	2,204	1,999	6,863	1,198	2,854
4.1	Swine	Liquid	GF	Midwest	1	623	Mediumla	1,780	1,706	4,253	884	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	2	14	Medium1a	28,955	1,418	10,952		2,854
4.1	Swine	Liquid	GF	Midwest	2	74	Medium1a	7,971	1,502	5,180		3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	3	23	Mediumla	37,029		7,890		
4.1	Swine	Liquid	GF	Midwest	3	128	Mediumla	34,999		5,428		
4.1	Swine	Liquid	GF	Mid-Atlantic	1	13	Medium1b	1,449		6,336		2,854
4.1	Swine	Liquid	GF	Midwest	1	74	Mediumlb	1,360		3,933		
4.1	Swine	Liquid	GF	Mid-Atlantic	2	2	Medium1b	41,311	1,031	7,223	180	2,854

				, . · · .	Table 1	1-12. (Co	ıtinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
4.1	Swine	Liquid	GF	Midwest	2	9	Medium1b	8,755	1,043	4,059	191	53,292
4.1	Swine	Liquid	GF	Mid-Atlantic	3	3	Medium1b	54,985	972	18,777	0	2,854
4.1	Swine	Liquid	GF	Midwest	3	15	Medium1b	51,801	972	15,607	0	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	1	20	Medium1b	2,907	2,594	7,231	1,825	2,854
4.1	Swine	Liquid	GF	Midwest	1	111	Medium1b	2,243	2,132	4,475	1,329	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	2	. 2	Medium1b	41,698	1,418	13,413	586	2,854
4.1	Swine	Liquid	GF	Midwest	2	. 13	Medium1b	39,438	1,502	9,978	671	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	3	4	Medium1b	54,985	972	8,812	0/1	2,854
4.1	Swine	Liquid	GF	Midwest	3 .	23	Medium1b	51,801	972	6,290	0	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	1	37	Medium2	1,626	1,210	6,382	368	2,854
4.1	Swine	Liquid	GF	Midwest	1	91	Medium2	1,520	1,140	3,964	292	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	2	.7	Medium2	10,311	1,101	6,490	253	103,576
4.1	Swine	Liquid	GF	Midwest	2	. 18	Medium2	10,199	1,126	4,129	278	18,181
4.1	Swine	Liquid	GF	Mid-Atlantic	3	9	Medium2	76,299	972	24,216	0	2,854
4.1	Swine	Liquid	GF	Midwest	3	21	Medium2	74,370	972	21,365	0	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	1	56	Medium2	3,719	3,301	7,668	2,570	2,854
4.1	Swine	Liquid	GF	Midwest	1	137	Medium2	2,839	2,705	4,774	1,928	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	2	11	Medium2	57,112	1,711	16,515	896	2,854
4.1	Swine	Liquid	GF	Midwest	· 2	27	Medium2	55,744	1,851	12,935	1,035	3,048
4.1	Swine	Liquid	GF	Mid-Atlantic	. 3	13	Medium2	76,299	972	9,906	0	2,854
4.1	Swine	Liquid	GF	Midwest	3	32	Medium2	74,370	972	7,449	0	3,048
5	Swine	Liquid	FF	Mid-Atlantic	. 1	75	Large1	118,461	736	2,537	253	0
5	Swine	Liquid	FF	Midwest	1	347	Large1	116,376	742	2,495	254	0
5	Swine	Liquid	FF	Mid-Atlantic	2	12	Large1	85,713	668	29,998	181	0
5	Swine	Liquid	FF	Midwest	2	58	Large1	84,236	739	21,380	251	0
5	Swine	Liquid	FF	Mid-Atlantic	3	14	Large1	118,315	580	22,431	0	0
5	Swine	Liquid	FF	Midwest	3	65	Large1	116,232	580	22,021	0	.0
5	Swine	Liquid	FF	Mid-Atlantic	1	112	Large1	118,494	2,105	2,558	1,729	0
5	Swine	Liquid	FF	Midwest	1	521	Large1	116,398	2,251	2,508	1,832	0

					Table 1	1-12. (Con	tinued)	•				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
5	Swine	Liquid	FF	Mid-Atlantic	2	19	Largel	85,724	1,134	14,738	682	0
5	Swine	Liquid	FF	Midwest	2	87	Largel	84,247	1,541	9,166	1,089	0
5	Swine	Liquid	FF	Mid-Atlantic	3	21	Largel	118,315	580	5,187	0	
5	Swine	Liquid	FF	Midwest	3	98	Large1	116,232	580	5,097	0	
5	Swine	Liquid	FF	Mid-Atlantic	1	58	Large2	554,292	1,340	11,263	905	0
5	Swine	Liquid	FF	Midwest	1	122	Large2	448,663	1,228	9,145	762	0
5	Swine	Liquid	, FF	Mid-Atlantic	2	28	Large2	394,727	808	8,064	331	0
5	Swine	Liquid	FF	Midwest	2	59	Large2	319,841	976	117,607	498	0
5	Swine	Liquid	FF	Mid-Atlantic	3	34	Large2	554,131	580	108,310	0	
5	Swine	Liquid	FF	Midwest	3	73	Large2	448,511	580	87,492	0	0
5	Swine	Liquid	FF	Mid-Atlantic	1	86	Large2	554,456	8,018	11,363	8,106	<del></del>
5	Swine	Liquid	FF	Midwest	1	184	Large2 ·	448,748	7,286	9,197	7,094	
5	Swine	Liquid	FF ·	Mid-Atlantic	2 .	41	Large2	394,750	1,724	70,764	1,319	
5	Swine	Liquid	FF	Midwest	2	88	Large2	319,864	2,566	50,959	2,160	
5 ·	Swine	Liquid	FF	Mid-Atlantic	3	52	Large2	554,131	580	24,192	0	\ <u></u>
5.	Swine	Liquid	FF	Midwest	3	109	Large2	448,511	580	19,586	0	<u> </u>
5	Swine	Liquid	FF	Mid-Atlantic	1	122	Mediumla	33,877	672	1,045	214	<del></del>
5	Swine	Liquid	FF	Midwest	1	1092	Mediumla	32,807	644	1,200	184	
5	Swine	Liquid	FF	Mid-Atlantic	2	9	Mediumla	25,944	689	896	232	0
5	Swine	Liquid	FF	Midwest	2	78	Mediumla	25,212	709	1,080	252	
5	Swine	Liquid	FF	Mid-Atlantic	3	14	Medium1a	33,260	580	5,745	0	
5	Swine	Liquid	FF	Midwest	3	124	Medium1a	32,228	580	5,742	0	<u>`</u>
5	Swine	Liquid	FF	Mid-Atlantic	1	182	Medium1a	34,688	1,482	1,543	1,067	0
. 5	Swine	Liquid	FF	Midwest	1	1639	Mediumla	33,312	1,244	1,510	811	0
5	Swine	Liquid	FF	Mid-Atlantic	2	13	Mediumla	26,383	1,127	1,806	693	
5	Swine	Liquid	FF	Midwest	2	116	Mediumla	25,651	1,231	1,965	797	0
5	Swine	Liquid	FF	Mid-Atlantic	3	20	Medium1a	33,260	580	1,588	0	0
5	Swine	Liquid	FF	Midwest	3	186	Mediumla	32,228	580	1,742	0	0
5	Swine	Liquid	FF	Mid-Atlantic	1	81	Medium1b	55,580	745	1,523	291	C

		· · · · · · · · · · · · · · · · · · ·			Table 1	1-12. (Cor	itinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
. 5	Swine	Liquid	FF	Midwest	1	728	Medium1b	53,646	695	1,642	237	0
5	Swine	Liquid	FF	Mid-Atlantic	2	6	Medium1b	41,288	685	13,364	227	0
5	Swine	Liquid	FF	Midwest	. 2	52	Medium1b	39,968	709	1,375	252	0
- 5	Swine	Liquid	FF	Mid-Atlantic	3	9	Medium1b	54,889	580	9,988	0	0
5	Swine	Liquid	FF	Midwest	3	83	Mediumlb	53,024	580	9,820	0	0
5	Swine	Liquid	FF .	Mid-Atlantic	1	122	Medium1b	57,035	2,199	2,416	1,822	0
5	Swine	Liquid	FF	Midwest	1	1093	Medium1b	54,552	1,771	2,198	1,362	0
5	Swine	Liquid	FF	Mid-Atlantic	2	· 8	Medium1b	41,731	1,127	7,032	693	0
5	Swine	Liquid	FF	Midwest	2	77	Medium1b	40,407	1,231	6,334	797	0
5	Swine	Liquid	FF	Mid-Atlantic	3	. 14	Medium1b	54,889	580	2,529	0	0
5.	Swine	Liquid	FF	Midwest	3	- 124	Medium1b	53,024	580	2,646	0	0
5	Swine	Liquid	FF	Mid-Atlantic	1	54	Medium2	76,449	816	1,982	365	0
5	Swine	Liquid	FF	Midwest	1	278	Medium2	75,938	750	2,115	294	0
5	Swine	Liquid	FF	Mid-Atlantic	2	5	Medium2	56,079	720	18,865	264	0
. 5	Swine	Liquid	FF	Midwest	2	27	Medium2	55,787	752	1,713	297	0
5	Swine	Liquid	FF	Mid-Atlantic	3	8	Medium2	75,688	580	14,073	0	0
5	Swine	Liquid	FF	Midwest	3	42	Medium2	75,270	580	14,189	0	0
5	Swine	Liquid	FF	Mid-Atlantic	1	81	Medium2	78,524	2,889	3,256	2,549	0
5	Swine	Liquid	FF	Midwest	1	418	Medium2	77,274	2,336	2,935	1,952	0
5	Swine	Liquid	FF	Mid-Atlantic	2	. 8	Medium2	56,904	1,544	9,952	1,132	0
5	Swine	Liquid	FF	Midwest	2	41	Medium2	56,607	1,726	3,844	1,315	0
5	Swine	Liquid	FF	Mid-Atlantic	3	12	Medium2	75,688	580	3,434	1,515	<del></del> 0
5	Swine	Liquid	FF	Midwest	3	62	Medium2	75,270	580	3,614	0	<del></del>
. 5	Swine	Liquid	GF	Mid-Atlantic	1	115	Large1	119,903	738	2,566	255	
5	Swine	Liquid	GF	Midwest	1	142	Largel	115,511	740	2,478	252	0
5	Swine	Liquid	GF	Mid-Atlantic	2	36	Largel	86,735	648	37,096	159	0
5	Swine	Liquid	GF	Midwest	2	44	Largel	83,621	699	6,641		0
5	Swine	Liquid	GF	Mid-Atlantic	.3	32	Large1	119,757	580	29,432	209	0
5	Swine	Liquid	GF	Midwést	3	40	Large1	115,367	580	28,308	0	0

					Table 1	1-12. (Con	tinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
5	Swine	Liquid	GF	Mid-Atlantic	1	173	Large1	119,937	2,124	2,587	1,750	0
5	Swine	Liquid	GF	Midwest	1	214	Largel	115,532	2,238	2,491	1,818	0
5	Swine	Liquid	GF	Mid-Atlantic	2	53	Large1	86,744	1,041	15,818	582	0
5	Swine	Liquid	GF	Midwest	2	66	Largel	83,631	1,379	13,680	920	0
5	Swine	Liquid	GF	Mid-Atlantic	3	· 49	Largel	119,757	580	6,146	0	0
-5	Swine	Liquid	GF	Midwest	. 3	61	Large1	115,367	580	5,920	0	0
5	Swine	Liquid	GF	Mid-Atlantic	1	62	Large2	290,930	975	5,990	511	0
5	Swine	Liquid	GF	Midwest	1	31	Large2	327,306	1,050	6,716	576	0
5	Swine	Liquid	GF	Mid-Atlantic	2	72	Large2	208,003	760	37,346	279	0
5	Swine	Liquid	GF	Midwest	2	37	Large2	233,797	892	24,071	410	0
5	Swine	Liquid	GF	Mid-Atlantic	3 .	38	Large2	290,778	580	73,215	- 0	0
5	Swine	Liquid	GF	Midwest	3	19	Large2	327,157	580	82,531	0	0
5	Swine	Liquid	GF	Mid-Atlantic	1	92	Large2	291,015	4,444	6,042	4,252	. 0
5	Swine	Liquid	GF	Midwest	1	47	Large2	327,368	5,447	6,754	5,172	0
5	Swine	Liquid	GF	Mid-Atlantic	2	108	Lårge2	208,015	1,219	39,143	775	0
5	Swine	Liquid	GF	Midwest	2	55	Large2	233,808	1,689	39,587	1,244	0
5	Swine	Liquid	GF	Mid-Atlantic	3	56	Large2	290,778	580	14,948	0	0
5	Swine	Liquid	GF	Midwest	3	29	Large2	327,157	580	16,821	, 0	0
5	Swine	Liquid	GF	Mid-Atlantic	1	99	Medium1a	37,659	685	1,128	<del>}</del>	0
5	Swine	Liquid	GF	Midwest	1	573	Mediumla	35,584	651	1,258		0
5	Swine	Liquid	GF	Mid-Atlantic	2	- 12	Medium1a	28,569	639	10,456	<del></del>	
5	Swine	Liquid	GF	Midwest	2	68	Medium1a	27,131	653	1,091	194	
5	Swine	Liquid	GF	Mid-Atlantic	3	20	Medium1a	37,029	580	8,304		0
5	Swine	Liquid	GF	Midwest	3	118	Mediumla	34,999	580	7,986		
5	Swine	Liquid	GF	Mid-Atlantic	1	148	Mediumla	38,581	1,607	1,695		
5	Swine	Liquid	GF	Midwest	1	859	Mediumla	36,142	1,314	1,601	884	
5	Swine	Liquid	GF	Mid-Atlantic	. 2	18	Medium1a	28,955		4,926		<del></del>
5	Swine	Liquid	GF	Midwest	2	103	Mediumla	27,516		2,234		
5	Swine	Liquid	GF	Mid-Atlantic	3 '	31	Mediumla	37,029	580	1,995	0	0

	· .	* .			Table 1	1-12. (Co	ıtinued)		•			
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
5	Swine	Liquid	GF	Midwest	3	176	Medium1a	34,999	580	2,089	0	3 yr rec
5	Swine	Liquid	GF	Mid-Atlantic	1	. 18	Medium1b	55,676	746	1,525	292	0
5	Swine	Liquid	GF	Midwest	1	102	Medium1b	52,421	692	1,616	234	0
5	Swine	Liquid	GF	Mid-Atlantic	2	. 2	Medium1b	41,311	639	1,174	180	0
5	Swine	Liquid	GF ·	Midwest	2	. 12	Medium1b	39,051	651	15,442	191	0
5	Swine	Liquid	GF	Mid-Atlantic	3	4		54,985	580	12,882	0	0
5	Swine	Liquid ·	GF	Midwest	. 3	. 21	Medium1b	51,801	580	12,268	0	0
5 .	Swine	Liquid	GF	Mid-Atlantic	1	. 26	Medium1b	57,134	2,202	2,420	1,825	0
5	Swine	Liquid	GF	Midwest	1	. 154	Medium1b	53,303	1,740	2,158	1,329	0
5	Swine	Liquid	GF	Mid-Atlantic	2	. 3	Medium1b	41,698	1,026	7,365	586	0
<b>5</b> .	Swine	Liquid	GF	Midwest	,2	18	Medium1b	39,438	1,110	6,490	671	0
5	Swine	Liquid	GF	Mid-Atlantic	3	5	Medium1b	54,985	580	2,916	0/1	
5	Swine	Liquid	GF	Midwest	3	32	Medium1b	51,801	580	2,951	0	0
5	Swine	Liquid	GF	Mid-Atlantic	1	49	Medium2	77,062	818	1,996	368	0
5	Swine	Liquid	GF	Midwest	1	126	Medium2	75,036	748	2,096	292	0
5	Swine	Liquid	GF	Mid-Atlantic	2	. 10	Medium2	56,501	709	23,148		0
5	Swine	Liquid	GF	Midwest	2	25	Medium2	55,134	734	17,748	253	0
5	Swine	Liquid	GF	Mid-Atlantic	3	12	Medium2	76,299	580	18,320	278	0
5	Swine	Liquid	GF .	Midwest	3	30	Medium2	74,370	580	18,027	0	0
5	Swine	Liquid	GF	Mid-Atlantic	1	73	Medium2	79,155	2,909	3,281	0 570	0
5	Swine	Liquid	GF	Midwest	1	188	Medium2	76,355	2,313		2,570	0
5 .	Swine	Liquid	GF	Mid-Atlantic	2	14	Medium2	57,112	1,319	2,905	1,928	0
5 .	Swine	Liquid	GF	Midwest	2	37	Medium2	55,744		10,443	896	0
5 .	Swine	Liquid	GF	Mid-Atlantic	3	17	Medium2	76,299	1,459	9,422	1,035	0
5	Swine	Liquid	GF	Midwest	3	44	Medium2	74,370	580	4,011	0	0
5a	Swine	Liquid	FF	Mid-Atlantic	1	75	Large1	747,825	580 736	4,110	0	0
5a	Swine	Liquid	FF.	Midwest	1	347	Large1	733,979	742	24,463	253	0
5a	Swine	Liquid	FF	Mid-Atlantic	2	12	Large1	649,731		24,013	254	. 0
5a	Swine	Liquid	. FF	Midwest	2:				668	25,565	181	0
Ja	SWIIIC	Liquid	. 11 .	Midwest	2·	58	Large1	637,703	739	24,234	251	

					Table 1	1-12. (Con	tinued)	-				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
5a	Swine	Liquid	FF	Mid-Atlantic	3	14	Largel	649,660	580	24,460	0	0
5a	Swine	Liquid	FF	Midwest	3	65	Largel	637,631	580	24,011	0	0
5a	Swine	Liquid	FF	Mid-Atlantic	1	112	Largel	747,858	2,105	24,484	1,729	0
5a	Swine	Liquid	FF	Midwest	1	521	Largel	734,000	2,251	24,026	1,832	0
5a	Swine	Liquid	FF	Mid-Atlantic	2	· 19	Largel	649,742	1,134	32,648	682	0
5a	Swine	Liquid	FF	Midwest	2	87	Largel	637,714	1,541	25,741	1,089	0
5a	Swine	Liquid	FF	Mid-Atlantic	3	21	Large1	649,660	580	24,460	0	0
5a	Swine	Liquid	FF	Midwest	3	98	Large1	637,631	580	24,011	0	0
5a	Swine	Liquid	FF	Mid-Atlantic	1	58	Large2	3,646,138	1,340	118,656	905	. 0
5a	Swine	Liquid	FF	Midwest	1	122	Large2	2,943,571	1,228	95,820	762	0
5a	Swine	Liquid	FF	Mid-Atlantic	2	28	Large2	3,167,794	808	126,318	. 331	0
5a	Swine	Liquid	FF	Midwest	2	59	Large2	2,557,406	976	99,594	498	0
5a	Swine	Liquid	FF	Mid-Atlantic	3	34	Large2	3,167,808	580	118,644	0	0
5a	Swine	Liquid	FF	Midwest	3	73	Large2	2,557,404	580	95,814	0	
5a	Swine	Liquid	FF	Mid-Atlantic	1	86	Large2	3,646,302	8,018	118,757	8,106	0
5a	Swine	Liquid	FF	Midwest	1	184	Large2	2,943,657	7,286	95,873	7,094	
5a	Swine	Liquid	FF	Mid-Atlantic	2	41	Large2	3,167,816	1,724	171,037	1,319	0
5a	Swine	Liquid	FF	Midwest	2	88	Large2	2,557,428	2,566	106,414		0
5a	Swine	Liquid	FF	Mid-Atlantic	. 3	52	Large2	3,167,808	580	118,644		
5a	Swine	Liquid	FF	Midwest	3	109	Large2	2,557,404	580	95,814		
5a	Swine	Liquid	FF	Mid-Atlantic	11	122	Mediumla	181,384	672	6,247	214	
5a	Swine	Liquid	FF	Midwest	1	1092	Medium1a	174,524	644	6,200		
5a	Swine	Liquid	FF	Mid-Atlantic	2	9	Medium1a	173,451	689	6,381	232	
5a	Swine	Liquid	FF	Midwest	2	78	Mediumla	166,929	709	6,356		
5a	Swine	Liquid	FF	Mid-Atlantic	3	14	Medium1a	157,135		6,150	<del></del>	
5a	Swine	Liquid	FF	Midwest	3	124	Medium1a	151,207	580	6,127		
5a	Swine	Liquid	FF	Mid-Atlantic	1	182	Mediumla	182,195		6,745		
5a	Swine	Liquid	FF	Midwest	1	1639	Medium1a	175,029		6,510		0
5a	Swine	Liquid	FF	Mid-Atlantic	2	13	Medium1a	158,135	1,127	7,818	693	0

					Table 1	1-12. (Co	ntinued)		-			
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
5a	Swine	Liquid	FF	Midwest	2	- 116	Medium1a	152,209	1,231	6,633	797	J yr rec
5a	Swine	Liquid	FF	Mid-Atlantic	3	20	Medium1a	157,135		6,150	0	-
5a	Swine	Liquid	FF	Midwest	,3	186	Mediumla	151,207	580	6,127	0	
5a	Swine	Liquid	FF.	Mid-Atlantic	1	81	Medium1b	324,682	745	10,945	291	
5a	Swine	Liquid	FF	Midwest	1	728	Medium1b	312,253	695	10,699	237	•
5a	Swine	Liquid	FF ,	Mid-Atlantic	2	. 6	Medium1b	282,121	685	11,376	227	*
.5a	Swine	Liquid	FF	Midwest	2	52	Medium1b	298,576	709	10,855	252	
5a	Swine	Liquid	FF	Mid-Atlantic	3	. 9	Medium1b	281,588	580	10,803	232	
5a	Swine	Liquid	FF	Midwest	3	. 83	Medium1b	270,848	580	10,600	. 0	
5a	Swine	Liquid	FF	Mid-Atlantic	1	122	Medium1b	326,137	2,199	11,838	1,822	· · · · · · · · · · · · · · · · · · ·
5a	Swine	Liquid	FF	Midwest	1	1093	Medium1b	313,159	1,771	11,256	1,362	
5a	Swine.	Liquid	FF	Mid-Atlantic	2	8	Medium1b	282,564	1,127	14,910	693	•
5a	Swine	Liquid	FF	Midwest	2	. 77	Medium1b	271,826	1,231	11,808	797	(
5a	Swine	Liquid	FF	Mid-Atlantic	3	14	Medium1b	281,588	580	10,803	0	. (
5a	Swine	Liquid	FF	Midwest	3	124	Medium1b	270,848	580	10,600	0	(
5a	Swine	Liquid	FF	Mid-Atlantic	1	54	Medium2	462,623	816	15,467	365	
5a	Swine	Liquid	FF	Midwest	1	· 278	Medium2	459,759	750	15,518	294	. (
5a	Swine	Liquid	FF	Mid-Atlantic	2	5	Medium2	401,935	720	16,098	264	. (
5a	Swine	Liquid	FF	Midwest	2	27	Medium2	439,609	752	15,693	297	0
5a	Swine	Liquid	FF	Mid-Atlantic	3	8	Medium2	401,385	580	15,282	. 0	
5a	Swine	Liquid	FF	Midwest	3	42	Medium2	398,978	580	15,391	0	- 0
5a	Swine	Liquid	FF	Mid-Atlantic	1	81	Medium2	464,698	2,889	16,742	2,549	0
5a	Swine	Liquid	FF	Midwest	1	418	Medium2	461,095	2,336	16,339	1,952	0
5a	Swine	Liquid		Mid-Atlantic	2	8	Medium2	402,760	1,544	20,573	1,132	0
5a	Swine	Liquid	FF	Midwest	2	41	Medium2	400,353	1,726	16,960	1,315	0
5a	Swine	Liquid		Mid-Atlantic	3	12	Medium2	401,385	580	15,282	0	0
5a	Swine	Liquid	FF	Midwest	3	62	Medium2	398,978	580	15,391	- 0	0
5a	Swine	Liquid		Mid-Atlantic	1	115	Largel	757,409	738	24,775	255	0
5a	Swine	Liquid	GF	Midwest	1	142	Large1	728,228	740	23,826	252	0

	Table 11-12. (Continued)													
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 уг гес	5 yr rec		
5a	Swine	Liquid	GF	Mid-Atlantic	2	36	Large1	658,057	648	26,184	159	0		
5a	Swine	Liquid	GF	Midwest	2	44	Largel	632,705	699	24,558	209	0		
5a	Swine	Liquid	GF	Mid-Atlantic	3	32	Largel	657,987	580	24,772	0	0		
5a	Swine	Liquid	GF	Midwest	3	40	Largel	632,635	580	23,824	0	0		
5a	Swine	Liquid	GF	Mid-Atlantic	1	173	Large1	757,443	2,124	24,796	1,750	0		
5a	Swine	Liquid	GF	Midwest	1	214	Large1	728,249	2,238	23,839	1,818	0		
5a	Swine	Liquid	GF	Mid-Atlantic	2	53	Large1	658,067	1,041	33,898	582	0		
5a	Swine	Liquid	GF	Midwest	2	66	Large1	632,715	1,379	25,875	920	0		
5a	Swine	Liquid	GF	Mid-Atlantic	3	49	Largel	657,987	580	24,772	0	0		
5a	Swine	Liquid	GF	Midwest	3	61	Largel	632,635	580	23,824	0	0		
5a	Swine	Liquid	GF	Mid-Atlantic	1	62	Large2	1,894,502	975	61,729	511	0		
5a	Swine	Liquid	GF	Midwest	1	31	Large2	2,136,432	1,050	69,589	576	0		
5a	Swine	Liquid	GF	Mid-Atlantic	2	. 72	Large2	1,645,966	760	64,952	279	0		
5a	Swine	Liquid	GF	Midwest	2	37	Large2	1,856,159	892	72,043	410	0		
5a	Swine	·Liquid	GF	Mid-Atlantic	- 3	38	Large2	1,645,936	580	61,722	0	0		
5a	Swine	Liquid	GF	Midwest	3	19	Large2	1,856,136	580	69,585	0			
5a	Swine	Liquid	GF	Mid-Atlantic	1	92	Large2	1,894,588	4,444	61,781	4,252	0		
5a	Swine	Liquid	GF	Midwest	1	. 47	Large2	2,136,494	5,447	69,627	5,172	0		
5a	Swine	Liquid	GF	Mid-Atlantic	2	108	Large2	1,645,978	1,219	88,643	775	0		
5a	Swine	Liquid	GF	Midwest	2	. 55	Large2	1,856,170	1,689	78,040	1,244	0		
5a	Swine	Liquid	GF	Mid-Atlantic	3	56	Large2	1,645,936	580	61,722	0	0		
5a	Swine	Liquid	GF	Midwest	3	29	'Large2	1,856,136	580	69,585	0	. 0		
5a	Swine	Liquid	GF	Mid-Atlantic	1	99	Medium1a	206,336	685	7,065	227	0		
5a	Swine	Liquid	GF	Midwest	+ 1	573	Medium1a	192,862	651	6,799	· 191	0		
5a	Swine	Liquid	GF	Mid-Atlantic	2	. 12	Medium1a	179,313	639	7,404	180			
5a	Swine	Liquid	GF	Midwest	· 2	- 68	Medium1a	184,409	653	6,926	194			
5a	Swine	Liquid	GF	Mid-Atlantic	3	20	Medium1a	178,806	580	6,960	0			
5a	Swine	Liquid	GF	Midwest	3	118	Mediumla	167,137	580	6,723	0			
5a	Swine	Liquid	GF	Mid-Atlantic	1	148	Medium1a	207,259	1,607	7,632	1,198	0		

	•			•	Table 1	1-12. (Cor	ıtinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
5a	Swine	Liquid	GF	Midwest	1	. 859	Medium1a	193,421	1,314	7,142	884	J yl lec
5a	Swine	Liquid	GF	Mid-Atlantic	2	18	Medium1a	179,700	1,026	9,337	586	(
5a	Swine	Liquid	GF	Midwest	2	103	Medium1a	168,034	1,110	7,414	671	
5a	Swine	Liquid	GF	Mid-Atlantic	3	. 31	Medium1a	178,806	580	6,960	0/1	<u> </u>
5a	Swine	Liquid	GF	Midwest	3	176	Medium1a	167,137	580	6,723	0	(
5a	Swine	Liquid	GF	Mid-Atlantic	1	18	Medium1b	325,321	746	10,966	292	(
5a	Swine	Liquid	GF	Midwest	1	102	Medium1b	304,152	692	10,435	234	(
5a	Swine	Liquid	GF	Mid-Atlantic	2	2	Medium1b	282,632	639	11,625	180	0
5a	Swine	Liquid .	GF	Midwest	2	12	Medium1b	264,302	651	10,864	191	- (
5a	Swine	Liquid .	GF	Mid-Atlantic	3	4	Medium1b	282,143	580	10,824	0	0
5a	Swine	Liquid	GF	Midwest	3	21	Medium1b	263,811	580	10,337	0	. 0
5a	Swine	Liquid	GF	Mid-Atlantic	1	26	Medium1b	326,779	2,202	11,861	1,825	. (
5a	Swine	Liquid	GF	Midwest	1	154	Medium1b	305,035	1,740	10,977	1,329	
5a	Swine	Liquid	GF	Mid-Atlantic	2	3	Medium1b	283,019	1,026	15,225	586	0
5a	Swine	Liquid	GF	Midwest	2	18	Medium1b	264,688	1,110	11,597	671	0
5a	Swine	Liquid	GF	Mid-Atlantic	3	. 5	Medium1b	282,143	580	10,824	0/1	0
5a	Swine	Liquid	GF	Midwest	3	32	Medium1b	263,811	580	10,337	0	. 0
5a.	Swine	Liquid	GF	Mid-Atlantic	1	49	Medium2	466,674	818	15,600	368	
5a	Swine	Liquid	GF	Midwest	1	126	Medium2	453,791	748	15,324	292	0
5a	Swine	Liquid	GF	Mid-Atlantic	2	10	Medium2	405,442	709	16,287	253	
5a	Swine	Liquid	GF	Midwest	2	25	Medium2	394,335	734	15,580	278	0
5a	Swine	Liquid	GF	Mid-Atlantic	3	12	Medium2	404,903	580	15,414	0	0
5a	Swine	Liquid	GF	Midwest	3	30	Medium2	393,794	580	15,197	0	0
5a	Swine	Liquid	GF	Mid-Atlantic	1	, 73	Medium2	468,767	2,909	16,885		0
5a	Swine	Liquid	GF	Midwest	1	188	Medium2	455,110	2,313	16,133	2,570	0
5a	Swine	Liquid	GF	Mid-Atlantic	2	14	Medium2	406,052	1,319	21,401	1,928	0
5a	Swine	Liquid	GF	Midwest	2	37	Medium2	394,945	1,459		896	0
5a	Swine	Liquid	GF	Mid-Atlantic	3	17	Medium2	404,903	580	16,944	1,035	0
5a	Swine	Liquid	GF	Midwest	3	. 44	Medium2	393,794	580	15,414 15,197	0	0

	Table 11-12. (Continued)														
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec			
-											0				
6	Swine	Liquid	FF	Mid-Atlantic	1	112	Largel	98,256	42,105	-8,314	1,729	5,000			
6	Swine	Liquid	FF	Midwest	1	521	Largel	155,263	42,251	-15	1,832	5,000			
6	Swine	Liquid	FF	Mid-Atlantic	2	19	Largel	183,306	41,134	-3,580	682	5,000			
6	Swine	Liquid	FF	Midwest	2	87	Large1	168,426	41,541	-5,311	1,089	5,000			
6	Swine	Liquid	FF	Mid-Atlantic	3	21	Largel	215,897	40,580	-3,329	0	5,000			
6	Swine	Liquid	FF	Midwest	:3	98	Large1	273,151	40,580	-3,604	0	5,000			
6	Swine	Liquid	FF	Mid-Atlantic	1	86	Large2	286,501	48,018	-32,752	8,106	5,000			
6	Swine	Liquid	FF	Midwest	1	184	Large2	362,915	47,286	-43,278	7,094	5,000			
6	Swine	Liquid	FF	Mid-Atlantic	2	41	Large2	679,948	41,724	-9,519	1,319	5,000			
6	Swine	Liquid	FF ·	Midwest	2	88	Large2	795,452	42,566	-12,322	2,160	5,000			
6	Swine	Liquid	FF	Mid-Atlantic	3	52	Large2	839,329	40,580	-8,860	0	5,000			
6	Swine	Liquid	FF	Midwest	3	109	Large2	924,099	40,580	-9,710	0	5,000			
6	Swine	Liquid	GF	Mid-Atlantic	1	173	Large1	98,039	. 27,124	-17,555	1,750	5,000			
6	Swine	Liquid	GF	Midwest	1 -	214	Large1	155,261	27,238	-15,110	- 1 <b>,</b> 818	5,000			
6	Swine	Liquid	GF	Mid-Atlantic	2	53	Large1	184,106	26,041	-12,464	582	5,000			
6	Swine	Liquid	GF	Midwest	2	66	Large1	238,237	26,379	-10,717	920	5,000			
6	Swine	Liquid	GF	Mid-Atlantic	3	49	Large1	217,119	25,580	-11,611	0	5,000			
6	Swine	Liquid	GF	Midwest	3	61	Large1	269,973	25,580	-9,383	0	.5,000			
6	Swine	Liquid	GF	Mid-Atlantic	1 '	92	Large2	173,966	29,444	-42,722	4,252	5,000			
6	Swine	Liquid	GF	Midwest	1	47	Large2	362,771	30,447	-43,296	5,172	5,000			
6	Swine	Liquid	GF	Mid-Atlantic	2	108	Large2	381,013	26,219	-29,927	775	5,000			
6	Swine	Liquid	GF	Midwest	2	55	Large2	595,597	26,689	-30,331	1,244	. 5,000			
6	Swine	Liquid	GF	Mid-Atlantic	3	56	Large2	463,776	25,580	-28,015	0				
6	Swine	Liquid	GF	Midwest	3	29	Large2	688,946	25,580	-26,702	0				
7	Swine	Liquid	FF	Mid-Atlantic	1	75	Large1	640	736	181	253				
7	Swine	Liquid	FF	Midwest	1	347	Large1	635	742	180	254				
7	Swine	Liquid	FF	Mid-Atlantic	2	12	Large1	15,128	668	11,320	181	6			
7	Swine	Liquid	FF	Midwest	2	58	Large1	14,994	739	11,220	251	6			

					Table 1	1-12. (Co	ntinued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 177 700
7	Swine	Liquid	FF	Mid-Atlantic	3	· 14		118,315		22,431	J yl lec	5 yr rec
7	Swine	Liquid	FF	Midwest	3	65		116,232	580	22,021	0	6
7	Swine	Liquid	FF	Mid-Atlantic	1	112		674	2,105	202	1,729	6
7	Swine	Liquid	FF	Midwest	1	521	8	657	2,251	193		6
7	Swine	Liquid	FF	Mid-Atlantic	2	19		89,254	1,134	25,880	1,832	6
7	Swine	Liquid	FF	Midwest	2	87		15,005	1,541		682	6
7	Swine	Liquid	FF	Mid-Atlantic	3	21		118,315	580	21,096	1,089	6
7	Swine	Liquid	FF	Midwest	3	98		116,232		5,187	0	6
7	Swine	Liquid	FF	Mid-Atlantic	1	58		1,139	580	5,097	0	6
7	Swine	Liquid	FF	Midwest	1	122	Large2		1,340	200	905	6
7	Swine	Liquid	FF	Mid-Atlantic	2	28		1,040	1,228	192	762	6
7	Swine	Liquid	FF	Midwest	2	59		403,602	808	36,073	331	6
7	Swine	Liquid	FF	Mid-Atlantic	3	34		32,639	976	24,477	498	6
7	Swine	Liquid	FF	Midwest	3	73	Large2	554,131	580	108,310	0	6
7	Swine	Liquid	FF	Mid-Atlantic	1	86	Large2	448,511	580	87,492	0	6
7	Swine	Liquid	FF	Midwest	1	184		1,303	8,018	300	8,106	6
7	Swine	Liquid	FF	Mid-Atlantic	2	41	Large2 Large2	1,126	7,286	. 245	7,094	- 6
7	Swine	Liquid	FF	Midwest	2	88	Large2	403,625	1,724	98,773	1,319	6
7	Swine	Liquid	FF	Mid-Atlantic	3	52	Large2	327,560	2,566	75,249	2,160	6
7	Swine	Liquid	FF	Midwest	3	109	Large2	554,131	580	24,192	0	6
7	Swine	Liquid	FF	Mid-Atlantic	1	122	Medium1a	448,511	580	19,586	0	
7	Swine	Liquid	FF	Midwest	i	1092	Medium1a	1,242	672	392	214	(
7	Swine	Liquid	FF	Mid-Atlantic	2	9	Medium1a	1,196	644	567	184	
7	Swine	Liquid	FF	Midwest	2	78	Medium1a Medium1a	10,594	689	6,778	232	. (
7	Swine	Liquid	FF	Mid-Atlantic	3	14	Medium1a  Medium1a	10,476	709	6,900	252	(
7	Swine	Liquid	FF	Midwest	3	124	Medium1a  Medium1a	33,260	580	5,745	0	(
7	Swine	Liquid	· · · · · · · · · · · · · · · · · · ·	Mid-Atlantic	1.	182		32,228	<b>580</b>	5,742	0	(
7	Swine	Liquid	FF	Midwest Midwest	1		Medium1a	2,053	1,482	890	1,067	(
7	Swine	Liquid		Mid-Atlantic	2	1639	Medium1a	1,701	1,244	878	811	(
	2	-iquiu		witu-Muanuc		13	Medium1a	11,033	1,127	7,687	693	1 . 1

	Table 11-12. (Continued)													
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 уг гес	5 yr rec		
7	Swine	Liquid	FF	Midwest	2	· 116	Medium1a	10,915	1,231	7,170	797	731		
7	Swine	Liquid	FF	Mid-Atlantic	3	20	Mediumla	33,260	580	1,588	0	0		
7	Swine	Liquid	FF	Midwest	3	186	Mediumla	32,228	580	1,742	0	0		
7	Swine	Liquid	FF	Mid-Atlantic	1	- 81	Medium1b	1,449	745	440	291	0		
7	Swine	Liquid	FF	Midwest	1	· 728	Medium1b	1,370	695	596	237	0		
7	Swine	Liquid	FF	Mid-Atlantic	2	· 6	Medium1b	12,776	685	8,185	227	55,197		
7	Swine	Liquid	FF	Midwest	2	· 52	Medium1b	12,605	709	8,273	252	0		
7	Swine	Liquid	FF	Mid-Atlantic	3	9	Medium1b	54,889	580	9,988	. 0	0		
7	Swine	Liquid	FF	Midwest	3	- 83	Mediumlb	53,024	580	9,820	0	0		
7	Swine	Liquid	- FF	Mid-Atlantic	1	122	Medium1b	2,904	2,199	1,334	1,822	0		
7	Swine	Liquid	FF	Midwest	1	1093	Medium1b	2,276	1,771	1,153	1,362	0		
7	Swine	Liquid	FF	Mid-Atlantic	2	8	Medium1b	45,508	1,127	14,816	693	0		
7	Swine	Liquid	FF	Midwest	2	. 77	Mediumlb	13,044	1,231	17,364	797	0		
7	Swine	Liquid	FF	Mid-Atlantic	.3	14	Medium1b	54,889	580	2,529	0	0		
7	Swine	Liquid	FF	Midwest	3	124	Medium1b	53,024	580	2,646	0	. 0		
7	Swine	Liquid	FF	Mid-Atlantic	1	54	Medium2	1,621	816	485	365	0		
7	Świne	Liquid	FF	Midwest	1	278	Medium2	1,526	750	627	294	0		
7	Swine	Liquid	FF	Mid-Atlantic	2	. 5	Medium2	14,634	720	9,387	264	89,706		
7	Swine	Liquid	FF	Midwest	2	. 27	Medium2	14,604	752	9,566	297	0		
7	Swine	Liquid	FF	Mid-Atlantic	3	. 8	Medium2	75,688	. 580	14,073	0	0		
7	Swine	Liquid	FF	Midwest	3	42	Medium2	75,270	.580	14,189	Ò	. 0		
7	Swine	Liquid	FF	Mid-Atlantic	1	81	Medium2	3,696	2,889	1,760	2,549	0		
7	Swine	Liquid	FF	Midwest	1	418	Medium2	2,862	2,336	1,447	1,952	0		
7	Swine	Liquid	FF	Mid-Atlantic	2	. 8	Medium2	61,253	1,544	18,916				
7	Swine	Liquid	FF	Midwest	2	41	Medium2	15,424	1,726	11,697	1,315			
7	Swine	Liquid	FF	Mid-Atlantic	3	12	Medium2	75,688	580	3,434	0	0		
7	Swine	Liquid	FF	Midwest	3	. 62	Medium2	75,270	580	3,614	0	0		
7	Swine	Liquid	GF	Mid-Atlantic	1	115	Large1	643	738	181	255			
7	Swine	Liquid	GF	Midwest	1	142	Largel	634	740	180	252	0		

			•		Table 1	1-12. (Co	ntinued)	•				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 yr rec	5 yr rec
7	Swine	Liquid	GF	Mid-Atlantic	2	36	<del></del>	15,218	648	11,387	159	207,25
7	Swine	Liquid	GF	Midwest	2	44		14,937	699	11,178	209	85,93
7	Swine	Liquid	GF	Mid-Atlantic	3	32		119,757	580	29,432	0	63,93
. 7	Swine	Liquid	GF	Midwest	3	40		115,367	580	28,308	0	
7	Swine	Liquid	GF	Mid-Atlantic	1	173		677	2,124	20,300	1,750	
7	Swine	Liquid	GF	Midwest	1	- 214		655	2,238	193	1,730	
7	Swine	Liquid	GF	Mid-Atlantic	2	53		90,296	1,041	27,027	582	
- 7	Swine	Liquid	GF	Midwest	2	66		87,116	1,379	24,680	920	
7	Swine	Liquid	GF.	Mid-Atlantic	3	49		119,757	580	6,146	0	
7	Swine	Liquid	GF	Midwest	3	61	Largel	115,367	580	5,920	. 0	
7	Swine	Liquid	GF	Mid-Atlantic	1	· 62		883	975	189	511	
7	Swine .	Liquid	GF	Midwest	1	31	Large2	920	1,050	188	576	- (
7	Swine	Liquid	GF	Mid-Atlantic	2	72	Large2	24,844	760	18,609	279	400.200
7	Swine	Liquid	GF	Midwest	2	37	Large2	26,702	892	20,006	410	498,323 342,942
7	Swine	Liquid	GF ·	Mid-Atlantic	3	38		290,778	580	73,215	410	
7	Swine	Liquid	GF	Midwest	3	19	Large2	327,157	580	82,531	. 0	(
7	Swine	Liquid	GF	Mid-Atlantic	1	. 92	Large2	968	4,444	241	4,252	
7	Swine	Liquid	GF	Midwest	·1	. 47	Large2	982	5,447	227		
7	Swine	Liquid	GF	Mid-Atlantic	2	108	Large2	213,853	1,219	57,568	5,172 775	(
7	Swine	Liquid	GF	Midwest	2	55	Large2	240,089	1,689	59,408		(
7	Swine	Liquid	GF	Mid-Atlantic	3	56	Large2	290,778	580	14,948	1,244	
7	Swine	Liquid	GF	Midwest	3	- 29	Large2	327,157	580		0	
. 7	Swine	Liquid	GF	Mid-Atlantic	1	. 99	Medium1a	1,281	685	16,821	0	
7	Swine	Liquid	GF	Midwest	1	573	Medium1a	1,222	651	401	227	. (
7	Swine	Liquid	GF	Mid-Atlantic	2	12	Medium1a	10,958	639	571	191	(11.0.15
7	Swine	Liquid	GF	Midwest	2	68	Medium1a	10,740		7,014	180	41,347
7	Swine	Liquid	GF	Mid-Atlantic	3	20	Mediumla		653	7,072	194	(
7	Swine	Liquid	GF	Midwest	3	· 118		37,029	580	8,304	0	(
7	Swine	Liquid	GF	Mid-Atlantic	1		Mediumla	34,999	580	7,986	0	(
	J. TIMO	Diquid	Oi.	TATIO-VARIABILIE	l	148	Mediumla	2,204	1,607	968	1,198	(

	Table 11-12. (Continued)													
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3 уг гес	5 yr rec		
7	Swine	Liquid	GF	Midwest	1	859	Mediumla	1,780	1,314	914	884	0		
7	Swine	Liquid	GF	Mid-Atlantic	2	18	Medium1a	32,178	1,026	11,569	586	0		
7	Swine	Liquid	GF	Midwest	2	103	Medium1a	11,125	1,110	8,215	671	0		
7	Swine	Liquid	GF	Mid-Atlantic	3	31	Medium1a	37,029	580	1,995	0	0		
7	Swine	Liquid	GF	Midwest	3	176	Medium1a	34,999	580	2,089	0	0		
7	Swine	Liquid	GF	Mid-Atlantic	1	18	Medium1b	1,449	746	440	292	0		
7	Swine	Liquid	GF	Midwest	1	102	Medium1b	1,360	692	595	234	0		
7	Swine	Liquid	GF	Mid-Atlantic	2	2	Medium1b	45,091	639	8,964	180	0		
7	Swine	Liquid	GF	Midwest	2	12	Medium1b	12,441	651	8,169	191	50,244		
7	Swine	Liquid	GF	Mid-Atlantic	3	4	Medium1b	54,985	580	12,882	0	0		
7	Swine	Liquid	GF	Midwest	3	21	Medium1b	51,801	580	12,268	0	0		
7	Swine	Liquid	GF	Mid-Atlantic	1	26	Medium1b	2,907	2,202	1,336	1,825	0		
7	Swine	Liquid	GF	Midwest	1	154	Medium1b	2,243	1,740	1,137	1,329	0		
7	Swine	Liquid	GF	Mid-Atlantic	2	3	Medium1b	45,478	1,026	15,155	586	0		
7	Swine	Liquid	GF	Midwest	1. 2	-18	Medium1b	43,124	1,110	14,088	671	- 0		
7	Swine	Liquid	GF	Mid-Atlantic	3	5	Mediumlb	54,985	580	2,916	0	0		
7	Swine	Liquid	GF	Midwest	3	32	Medium1b	51,801	580	2,951	0	1		
7	Swine	Liquid	GF	Mid-Atlantic	. 1	49	Medium2	1,626	818	487	368	. 0		
7.	Swine	Liquid	GF	Midwest	1	126	Medium2	1,520	748	625	292	0		
7	Swine	Liquid	GF	Mid-Atlantic	1 2	. 10	Medium2	14,676	709	9,415		<del></del>		
7	Swine	Liquid	GF .	Midwest	2	25	Medium2	14,513	734	9,508				
7	Swine	Liquid	GF	Mid-Atlantic	3	12	Medium2	76,299	580	18,320		0		
7	Swine	Liquid	GF	Midwest	3	30	Medium2	74,370	580	18,027	<u> </u>	<u> </u>		
7	Swine	Liquid	GF	Mid-Atlantic	1	73	Medium2	3,719	2,909	1,772	2,570	<del></del>		
7	Swine	Liquid	GF	Midwest	, 1	188	Medium2	2,839	2,313	1,435				
7	Swine	Liquid	GF	Mid-Atlantic	2	14	<u> </u>	61,477	1,319	19,440				
7	Swine	Liquid	GF	Midwest	2	37	Medium2	60,058	1,459	18,314		<del>1</del>		
7	Swine	Liquid	GF	Mid-Atlantic	3	. 17	Medium2	76,299	580		0			
7	Swine	Liquid	GF	Midwest	3	44	Medium2	74,370	_580	4,110	0	0		

Table 11-13. Regulatory Compliance Costs for the Poultry (BR, broiler; LA, dry layers; LW, wet layers) Operations

Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
1	Chic	Solid	BR	Mid-Atlantic	1	47	Largel	64,538	2,214	2,249	2,391	0
1	Chic	Solid	BR	South	1	98	Largel	65,498	2,453	2,432	2,740	0
1	Chic	Solid	BR	Mid-Atlantic	2	687	Large1	63,405	890	2,289	536	0
1	Chic	Solid	BR	South	2	1,417	Large1	63,932	851	2,158	496	. 0
1	Chic	Solid	BR	Mid-Atlantic	3	336	Large1	62,675	580	1,355	0	. 0
1	Chic	Solid	BR	South	3	694	Large1	63,142	580	1,268	. 0	. 0
1	Chic	Solid	BR	Mid-Atlantic	1	7	Large2	168,396	4,878	4,342	6,120	0
1	Chic	Solid	BR	South	1	21	Large2	155,678	5,064	4,659	6,395	0
1	Chic	Solid	BR	Mid-Atlantic	2	132	Large2	165,119	1,047	3,439	756	0
1	Chic	Solid	BR	South	2	301	Large2	151,693	988	3,248	688	. 0
1	Chic	Solid	BR	Mid-Atlantic	3	53	Large2	164,255	580	2,049	0	0
1	Chic	Solid	BR	South	3	147	Large2	150,769	580	1,927	0	0
1	Chic	Solid	BR	Mid-Atlantic	1 .	108	Mediumla	21,127	1,075	1,351	791	0
1	Chic	Solid	BR	South	1	.170	Mediumla	20,967	1,172	1,383	946	0
1	Chic	Solid	BR	Mid-Atlantic	2	.904	Mediumla	20,831	747	1,362	331	0
1	Chic	Solid	BR	South	2	1,430	Mediumla	20,547	736	1,382	• 336	0
1	Chic	Solid	BR	Mid-Atlantic	3	677	Mediumla	20,239	580	1,043	0	0
1	Chic	Solid	BR	South	3	1,072	Medium1a	19,872	580	992	0	0
1	Chic	Solid	BR	Mid-Atlantic	1	50		29,305	1,274	1,539	1,069	0
1	Chic	Solid	BR	South	1	78		29,076	1,410	1,614	1,279	0
1	Chic	Solid	BR	Mid-Atlantic	2	415		28,830		1,559	331	0
1	Chic	Solid	BR	South	2	656	Medium1b	28,427	736	1,614	336	0
1	Chic	Solid	BR	Mid-Atlantic	3	311	Medium1b	28,237	580	1,122	0	0
1	Chic	Solid	BR	South	3 .	491	Medium1b	27,751	580	1,083	0	0
1	Chic	Solid	BR	Mid-Atlantic	. 1	61	Medium2	41,467	1,570	1,714	1,483	0
1	Chic	Solid	BR	South	1	122	Medium2	41,417	1,772	1,838	1,786	0
1.	Chic	Solid	BR ·	Mid-Atlantic	2	737	Medium2	40,767	794	1,744	397	. 0
1	Chic	Solid	BR	South	2	1,467	·Medium2	40,467	787	1,772	407	0

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			T	T	Ta	ble 11-13.	(Continued	<u>l)</u>				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
1	Chic	Solid	BR	Mid-Atlantic	3	486	Medium2	40,132	580	1,133	0	
1	Chic	Solid	BR	South	3	967	Medium2	39,743	- 580	1,092	0	
1	Chic	Solid	LA	Midwest	1	2	Largel	59,137	2,901	1,123	4,426	
1	Chic	Solid	LA	South	1	4	Largel	52,774	2,430	1,457	3,441	
1	Chic	Solid	LA	Midwest	2	102	Largel	58,186	875	1,235	660	
1	Chic	Solid	LA	South	2	127	Large1	51,323	821	1,315	545	(
1	Chic	Solid	LA	Midwest	3	115	Large1	57,840	- 580	439	0	(
1	Chic	Solid	LA	South	3	144	Large1	50,843	580	412	0	
1	Chic	Solid	LA	Midwest	1	0	Large2	259,389	10,799	4,442	19,106	(
1	Chic	Solid	LA	South	1	. 0	Large2	158,261	6,153	4,120	10,143	
1	Chic	Solid	LA	Midwest	2	23	Large2	254,878	1,187	3,101	1,239	0
_1	Chic	Solid	LA	South	2	<sup>"</sup> 40	Large2	153,681	1,076	2,848	1,004	0
1	Chic	Solid	LA	Midwest	3	26	Large2	254,386	580	1,481	. 0	0
1	Chic	Solid	LA	South	3	45	Large2	152,971	580	1,012	0	. 0
1	Chic	Solid	LA	Midwest	1	10	Medium1a	8,268	895	272	697	0
1	Chic	Solid	LA	South	1.	9	Mediumla	6,146	784	292	478	0
1	Chic	Solid	LA	Midwest	2	84	Medium1a	8,187	722	317	376	0
1	Chic	Solid	LA	South	2	78	Medium1a	6,067	696	307	321	0
1	Chic	Solid	LA	Midwest	3	· 46	Medium1a	7,913	580	166	0	0
1	Chic	Solid	LA	South	3 ·	43	Mediumla	5,700	580	159	0	0
_1	Chic	Solid	LA	Midwest	. 1	. 6	Medium1b	11,362	1,017	333	924	. 0
1	Chic	Solid	LA	South	1	6	Medium1b	8,384	863	338	621	0
1	Chic	Solid	LA	Midwest,	2	55	Medium1b	11,224	722	412	376	0
11	Chic	Solid	LA	South	2		Medium1b	8,234	696	368	321	0
1	Chic	Solid	LA	Midwest	3		Medium1b	10,950	580	192	0	
1	Chio	Solid	LA	South	3		Medium1b	7,867	580	161	0	0
1	Chic	Solid	LA	Midwest	1	18	Medium2	20,828	1,390	470	1,618	0
1	Chic	Solid	LA	South	1	20	Medium2	17,759	1,194	572		- 0
1	Chic	Solid	LA	Midwest	2	146	Medium2	20,582	865	610	1,216 641	0

					Ta	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
1	Chic	Solid	LA	South	2	176	Medium2	17,415	813	640	· 530	0
1	Chic	Solid	LA	Midwest	3	117	Medium2	20,240	580	221	0	0
1	Chic	Solid	LA	South	3	142	Medium2	16,943	580	212	0	0
1	Chic	Liquid	LW	South	1	24	Largel	1,053	1,128	460	1,097	0
1	Chic	Liquid	LW	South	2	217	Large1	107,287	799	23,262	505	0
1	Chic	Liquid	LW	South	3	119	Large1	106,827	580	7,046	0	. 0
1	Chic	Liquid	LW	South	1	97	Medium2	415	603	166	153	0
1	Chic	Liquid	LW	South	2	393	Medium2	10,221	590	1,232	130	0
1	Chic	Liquid	LW	South	3	310	Medium2	9,949	580	530	0	0
2	Chic	Solid	BR	Mid-Atlantic	1	28	Large1	65,240	3,036	2,680	3,541	0
2	Chic	Solid	BR	South	1	39	Large1	67,908	4,917	3,912	<sup>‡</sup> 6,189	. 0
2	Chic	Solid	BR	Mid-Atlantic	2	412	Large1	63,427	916	6,327	573	0
2	Chic	Solid	BR	South	2	567	Large1'	63,964	884	3,538	543	0
· 2	Chic	Solid	BR	Mid-Atlantic	3	202	Large1 '	62,675	580	1,355	0	0
2	Chic	Solid	BR	South	3	. 278	Large1 '	63,142	580	1,268	. 0	0
2	Chic	Solid	BR	Mid-Atlantic	1	4	Large2	170,244	7,038	5,476	9,144	0
2	Chic	Solid	BR	South	1	8	Large2	161,445	10,963	8,201	14,653	. 0
2	Chic	- Solid	BR	Mid-Atlantic	2	79	Large2	165,162	1,097	10,330	827	0
2	Chic	Solid	BR	South	2	120	Large2	151,736	1,033	5,286	751	0
2	Chic	Solid	BR	Mid-Atlantic	3	32	Large2	164,255	580	2,049	0	0
2	Chic	Solid	BR	· South	3 .	59	Large2	150,769	580	: 1,927	: 0	. 0
2	Chic	Solid	BR	Mid-Atlantic	1	65	Medium1a	21,351	1,324	1,488	1,139	0
2	Chic	Solid	BR	South	1	68	Medium1a	21,717	1,950	1,844	2,036	0
2	Chic	Solid	BR	Mid-Atlantic	2	542	Medium1a	20,856	774	2,481	· 369	. 0
2	Chic	Solid	BR	South	2	572	Medium1a	20,571	. 761	1,849	371	0
2	Chic	Solid	BR	Mid-Atlantic	3	406	Medium1a	20,239	580	1,043	0	0
2	Chic	Solid	BR	South	3	429	Mediumla	19,872	580	992	0	0
2	Chic	Solid	BR	Mid-Atlantic	1	30	Medium1b	29,619	1,623	1,732	1,557	0
2	Chic	Solid	BR	South	1	31	Medium1b	30,128	2,501	2,261	2,807	0

					Тя	hle 11_13	(Continue	17	•			
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	<i>5</i>
2	Chic	Solid	BR	Mid-Atlantic	2	249	·	28,854	774	3,268	369	5yr. rec.
2	Chic	Solid	BR	South	2	262		28,451	761	2,269	371	
2	Chic	Solid	BR	Mid-Atlantic	3	187		28,237	580	1,122	0	
2.	Chic	Solid	BR	South	3	196		27,751	580	1,083	. 0	
2	Chic	Solid	BR	Mid-Atlantic	1	37		41,915	2,067	1,990	2,180	
2	Chic	Solid	BR	South	1	49		42,929	3,340	2,766	3,982	
2	Chic	Solid	BR	Mid-Atlantic	2	442		40,791	821	4,249	435	· · · · · · · · · · · · · · · · · · ·
2	Chic	Solid	BR	South	2	587	Medium2	40,485	805	2,779	433	
2	Chic	Solid	BR	Mid-Atlantic	3	292	Medium2	40,132	580	1,133		·
2	Chic	Solid	BR	South	3	387	Medium2	39,743	580	1,092	0	*
2	Chic	Solid	LA	Midwest	1	1	Large1	65,120	15,651	4,798		**
2	Chic	Solid	LA	South	1	2	Largel	61,940	12,589	7,086	28,125	
2	Chic	Solid	LA	Midwest	2	61	Largel	58,227	962	2,370	21,728	
2	Chic	Solid	LA	South '	2	51	Largel	51,387	892		822	<del></del>
2	Chic	Solid	LA	Midwest	3	69	Large1	57,840	580	3,330	674	<u> </u>
2	Chic	Solid	LA	South	3	58	Large1	50,843	580	439	0	<del></del>
2	Chic	Solid	LA	Midwest	1	. 0	Large2	285,727	66,923	20,617	102.401	
2	Chic	Solid	LA	South	1:	. 0	Large2	185,877	36,762		123,431	· · · · · · · · · · · · · · · · · · ·
2	Chic	Solid	LA	Midwest	2	14	Large2	254,898	1,230	21,080	65,239	
2	Chic	Solid	LA	South	2	16	Large2	153,712	1,111	4,751	1,319	
2	Chic	Solid	LA	Midwest	3	. 16	Large2	254,386	580	5,955	1,067	
2	Chic	Solid	LA.	South	3	18	Large2	152,971	580	1,481	0	
2	Chic	Solid	LA	Midwest	1	6	Mediumla	9,081	2,626	1,012	0	
2.	Chic	Solid	LA ·	South	ī	4	Mediumla	7,157	1,905	771	3,914	
2	Chic	Solid	LA	Midwest	2	50	Medium1a	8,203	757	913 499	2,495	······································
2	Chic	Solid	LA	South	2	31	Medium1a	6,092	724	571	439	
2	Chic	Solid	LA	Midwest	3		Medium1a	7,913	580	166	371	·
2	Chic	Solid	LA	South	3		Medium1a	5,700	580	159	0	<del> </del>
2	Chic	Solid	LA	Midwest	1		Medium1b	12,489	3,418	1,025	5,387	

					Ta	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5уг. гес.
2	Chic	Solid	LA	South	1	2	Mediumlb	9,787	2,417	1,199	3,419	0
2	Chic	Solid	LA	Midwest	2	33	Mediumlb	11,240	757	639	439	0
2	Chic	Solid	LA	South	2	21	Medium1b	8,259	724	709	371	0
2	Chic	Solid	LA	Midwest	3	18	Mediumlb	10,950	580	192	0	0
2	Chic	Solid	LA	South	3	12	Medium1b	7,867	580	161	0	0
2	Chic	Solid	LA	Midwest	1	11	Medium2	22,917	5,842	1,753	9,892	, 0
2	Chic	Solid	LA	South	1	8	Medium2	20,801	4,566	2,440	7,285	0
2	Chic	Solid	LA	Midwest	2	88	Medium2	20,621	949	1,043	797	0
2	Chic	Solid	LA	South	2	70	Medium2	17,477	881	1,373	654	0
2	Chic	Solid	LA	Midwest	3	70	Medium2	20,240	580	221	0	0
2	Chic	Solid	LA	South	3	57	Medium2	16,943	580	212	0	0
2	Chic	Liquid	LW	South	1	10	Largel	3,767	4,135	2,126	6,511	0
2	Chic	Liquid	LW	South	2	87	Largel	107,325	841	20,209	580	0
2	Chic	Liquid	LW	South	3	48	Largel	106,827	580	2,745	0	0
2	Chic	Liquid	LW	South	1	39	Medium2	529	729	236	380	0
2	Chic	Liquid	LW	South	2	157	Medium2	10,259	632	1,126	205	0
2	Chic	Liquid	LW	South	3	! 124	Medium2	9,949	580	350	0	0
3	Chic	Solid	BR	Mid-Atlantic	1	4	Large1	69,049	2,214	3,281	2,391	3,082
3	Chic	Solid	BR	South	1 '	13	Large1	69,793	2,453	3,402	2,740	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	66	Large1	67,916	890	3,321	536	3,082
3	Chic	Solid	BR	South	2 .	191	Large1	68,226	851	3,128	496	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	32	Large1	67,187	580	2,387	0	3,082
3	Chic	Solid	BR	South	3	93	Large1	67,437	580	2,238	0	3,082
3	Chic	Solid	BR	Mid-Atlantic	1	7	Large1	69,752	3,036	3,712	3,541	3,082
3	Chic	Solid	BR	South	1	9	Large1	72,202	4,917	4,882	6,189	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	99	Large1	67,938	916	7,359	573	3,082
3	Chic	Solid	BR	South	2	127	Large1	68,259	884	4,508	543	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	48	Largel	67,187	580	2,387	0	3,082
3	Chic	Solid	BR	South	3	62	Large1	67,437	580	2,238	0	3,082

					Ta	ble 11-13.	(Continued	i)			•	•
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
3	Chic	Solid	BR	Mid-Atlantic	1	. 1	Large2	178,012	4,878	5,475	6,120	3,082
3	Chic	Solid	BR	South	1	. 3	Large2	164,153	5,064	5,712	6,395	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	13	Large2	174,735	1,047	4,572	756	3,082
_ 3	Chic	Solid	BR	South	2	41	Large2	160,168	988	4,301	688	3,082
3	Chic	Solid	BR	Mid-Atlantic	. 3	5	Large2	173,871	580	3,182	0	3,082
3	Chic	Solid	BR	South	3	20	Large2	159,244	580	2,980	0	3,082
3	Chic	Solid	BR	Mid-Atlantic	1	1	Large2	179,859	7,038	6,609	9,144	3,082
3	Chic	Solid	BR	South	. 1	2		169,920	10,963	9,254	14,653	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	19		174,778	1,097	11,463	827	3,082
3	Chic	Solid	BR	South	2	27		160,211	1,033	6,338	751	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	8		173,871	580	3,182	731	3,082
3	Chic	Solid	BR	South	3	13		159,244	580	2,980	0	3,082
3	Chic	Solid	BR	Mid-Atlantic	1	10		23,506	1,075	2,340	791	
3	Chic	Solid	BR	South	1	23	Medium1a	23,197	1,172	2,312	946	3,082 3,082
3	Chic	Solid	BR	Mid-Atlantic	2	86		23,210	747	2,352	331	
3	Chic	Solid	BR	South	2	193	Medium1a	22,777	736	2,311	336	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	65	Medium1a	22,618	580	2,033	330	3,082 3,082
3	Chic	Solid	BR	South	3	144	Medium1a	22,101	580	1,921		3,082
3	Chic	Solid	BR	Mid-Atlantic	1	15		23,730	1,324	2,478	1,139	3,082
3	Chic	Solid	BR	South	1	15	Medium1a	23,947	1,950	2,772	2,036	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	130	Medium1a	23,235	774	3,470	369	3,082
3	Chic	Solid	BR	South	2	128	Medium1a	22,801	761	2,778	371	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	97	Medium1a	22,618	580	2,033	0	3,082
3	Chic	Solid	BR	South	3	96	Medium1a	22,101	580	1,921	0	3,082
3	Chic	Solid-	BR	Mid-Atlantic	1	5	Medium1b	32,086	1,274	2,537	1,069	3,082
3	Chic	Solid	BR	South `	1	11	Medium1b	31,682	1,410	2,551	1,009	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	40	Medium1b	31,611	747	2,556	331	3,082
3	Chic	Solid	BR	South	2	88	Medium1b	31,032	736	2,550	336	3,082
3	Chic	Solid	BR	Mid-Atlantic	3		Medium1b	31,019	580	2,119	0	3,082

		•			Tal	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуг. гес.	5уг. гес.
3	Chic	Solid	BR	South	3	66	Medium1b	30,357	580	2,020	0	3,082
3	Chic	Solid	BR	Mid-Atlantic	1	7	Mediumlb	32,400	1,623	2,730	1,557	3,082
3	Chic	Solid	BR	South	1	. 7	Medium1b	32,734	2,501	3,197	2,807	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	60	Medium1b	31,636	774	4,266	369	3,082
3	Chic	Solid	BR	South	2	*59	Medium1b	31,057	761	3,206	371	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	45	Medium1b	31,019	580	2,119	0	3,082
3	Chic	Solid	BR	South	3	44	Medium1b	30,357	580	2,020	0	3,082
3	Chic	Solid	BR	Mid-Atlantic	1	, 6	Medium2	44,846	1,570	2,724	1,483	3,082
3	Chic	Solid	BR	South	1	'16	Medium2	44,594	1,772	2,786	1,786	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	<sup>'</sup> 70	Medium2	44,146	794	2,753	397	3,082
3	Chic	Solid	BR	South	2	198	Medium2	43,645	787	2,720	407	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	46	Medium2	43,511	580	2,142	0	3,082
3	Chic	Solid	BR	South ·	3	130	Medium2	42,920	580	2,040	0	3,082
3	Chic	Solid	BR	Mid-Atlantic	. 1	- 9	Medium2	45,294	2,067	2,999	2,180	3,082
3	Chic	Solid	BR	South	1	11	Medium2	46,106	3,340	3,714	3,982	3,082
3	Chic	Solid	BR	Mid-Atlantic	2	106	Medium2	44,170	821	5,258	435	3,082
3	Chic	Solid	BR	South	2	132	Medium2	43,662	805	3,726	432	3,082
3	Chic	Solid	BR	Mid-Atlantic	3	70	Medium2	43,511	580	2,142	0	3,082
3	Chic	Solid	BR	South	3	87	Medium2	42,920	580	2,040	0	3,082
3	Chic	Solid	LA	Midwest	1	0	Large1	62,939	2,901	2,281	4,426	2,746
3	Chic	Solid	LA	South	1	1	Large1	55,975	2,430	2,405	3,441	1,849
3	Chic	Solid	LA	Midwest	2	11	Large 1	61,988	875	2,393	660	2,746
3	Chic	Solid	LA	South	2	- 17	Large 1	54,524	821	2,263	545	1,849
3	Chic	Solid	LA	Midwest	3	13	Large1	61,642	580	1,597	0	2,746
3	Chic	Solid	LA	South	3	19	Large1	54,044	580	1,360	0	1,849
3	Chic	Solid	LA	Midwest	1	0	Largel	68,922	15,651	5,955	28,125	2,746
3	Chic	Solid	LA	South	1	0	Large1	65,141	12,589	8,034	21,728	1,849
3	Chic	Solid	LA	Midwest	2	17	Large1	62,029	962	3,528	822	2,746
3	Chic	Solid	LA	South	2	11	Large1	54,588	892	4,278	674	1,849

- 1	·				Ta	ble 11-13.	(Continue	d)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
3	Chic	Solid	LA	Midwest	3	. 19	Large1	61,642	580	1,597	0)1.100.	2,746
3	Chic	Solid	LA	South	3	13		54,044	580	1,360	0	1,849
3	Chic	Solid	LA	Midwest	1	. 0	Large2	270,735		5,748	19,106	2,746
3	Chic	Solid	LA	South	1	0		165,299	6,153	5,144	10,143	1,849
3	Chic	Solid	LA	Midwest	2	3		266,224	1,187	4,408	1,239	2,746
3	Chic	Solid	LA	South -	2			160,718	1,076	3,872	1,004	1,849
3	Chic	Solid	LA	Midwest	3	3		265,732	580	2,788	0	2,746
3	Chic	Solid	LA	South	3	6	Large2	160,008	580	2,036	0	1,849
3	Chic	Solid	LA	Midwest	1	0		297,074	66,923	21,924	123,431	2,746
_ 3	Chic	Solid	LA	South	1	0		192,914	36,762	22,104	65,239	1,849
_ 3	Chic	Solid	LA	Midwest	2	4		266,244	1,230	6,058	1,319	2,746
3	Chic	Solid	LA	South	2	4	Large2	160,749	1,111	6,979	1,067	1,849
3	Chic	Solid	LA	Midwest	3	. 4	Large2	265,732	580	2,788	0	
3	Chic	Solid	LA	South	3	4	Large2	160,008	580	2,036	0	2,746 1,849
3	Chic	Solid	LA	Midwest	1	1	Mediumla	10,154	895	1,391	697	
3	Chic	Solid	LA	South	1	1	Mediumla	7,652	784	1,207	478	2,746
3	Chic	Solid	LA	Midwest	2	9	Medium1a	10,073	722	1,437	376	1,849
3	Chic	Solid	LA	South	2 .	. 11	Medium1a	7,573	696	1,222	321	2,746
3	Chic	Solid	LA	Midwest	3	5	Mediumla	9,798	580	1,285		1,849
3	Chic	Solid	LA	South	3	6	Medium1a	7,205	580	1,074	0	2,746
3	Chic	Solid	LA·	Midwest	1	2	Medium1a	10,966	2,626	1,890	2 014	1,849
3	Chic	Solid	LA	South	1	1	Mediumla	8,663	1,905		3,914	2,746
3	Chic	Solid	LA	Midwest	2	14	Medium1a	10,089	757	1,828	2,495	1,849
3	Chic	Solid	LA	South	2	7	Medium1a	7,598		1,619	439	2,746
3	Chic	Solid	LA	Midwest	3	, Q	Medium1a	9,798	724	1,486	371	1,849
3	Chic	Solid	LA	South	3	0 	Medium1a		580	1,285	0	2,746
3	Chic	Solid	LA	Midwest	1	1	Medium1b	7,205	580	1,074	0	1,849
3	Chic	Solid	LA	South	1	1		13,364	1,017	1,455	924	2,746
3	Chic	Solid	LA	Midwest	2	1	Medium1b	9,971	863	1,254	621	1,849
		Dona	LAL	MIUMOSI		6	Medium1b	13,226	722	1,534	376	2,746

ľ					Ta	ble 11-13. (	Continued	)				
Option	Animal	Турс	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
3	Chic	Solid	LA	South	2	7	Medium1b	9,821	696	1,284	321	1,849
3	Chic	Solid	LA	Midwest	3	3	Medium1b	12,952	580	1,314	0	2,746
3	Chic	Solid	LA	South	3	4	Medium1b	9,453	580	1,078	0	1,849
3	Chic	Solid	LA	Midwest	1	. 1	Medium1b	14,491	3,418	2,147	5,387	2,746
3	Chic	Solid	LA	South	1.	1	Medium1b	11,374	2,417	2,116	3,419	1,849
3	· Chic	Solid	LA	Midwest	2	. 9	Mediumlb	13,242	757	1,761	439	2,746
3	Chic	Solid	LA	South	2	. 5	Mediumlb	9,846	724	1,625	371	1,849
3	Chic	Solid	LA	Midwest	3	5	Mediumlb	12,952	580	1,314	0	2,746
3	Chic	Solid	LA	South	3	3	Mediumlb	9,453	580	1,078	0	1,849
3	Chic	Solid	LA	Midwest	1	. 2	Medium2	23,187	1,390	1,599	1,618	2,746
3	Chic	Solid	LA	South	1	3	Medium2	19,687	1,194	1,495	1,216	1,849
3	Chic	Solid	LA	Midwest	2	16	Medium2	22,940	865	1,739	641	2,746
3	Chic	Solid	LA	South	2	24	Medium2	19,343	813	1,563	530	1,849
3	Chic	Solid	LA	Midwest	3	. 13	Medium2	22,599	580	1,350	0	2,746
3	Chic	Solid	LA	South	. 3	_ 19	Medium2	18,871	580	1,135	0	1,849
3	Chic	Solid	LA	Midwest	1	3	Medium2	25,276	5,842	2,882	9,892	2,746
3	Chic	Solid	LA	South	1	. 2	Medium2	22,729	4,566	3,363	7,285	1,849
3	Chic	Solid	LA	Midwest	2	24	Medium2	22,980	949	2,172	797	2,746
3	Chic	Solid	LA	South	2	16	Medium2	19,405	881	2,296	654	1,849
3	Chic	Solid	LA	Midwest	3	19	Medium2	22,599	580	1,350	0	2,746
3	Chic	Solid	LA	South	3	13	Medium2	18,871	580	1,135	0	1,849
3	Chic	Liquid	LW	South	1	3	Large1	18,612	1,128	2,159	1,097	1,849
3	Chic	Liquid	LW.	South	2	- 29	Large1	124,846	799	24,961	505	1,849
3	Chic	Liquid	LW	South	3	16	Large1	124,386	580	8,745	0	1,849
3	Chic	Liquid	LW	South	1	- 2	Largel	21,326	4,135	3,825	6,511	1,849
3	Chic	Liquid	LW	South	2	, 19	Large1	124,884	841	21,907	580	1,849
3	Chic	Liquid	LW	South	3	11	Largel	124,386	580	4,444	. 0	1,849
3	Chic	Liquid	LW	South	1	13	Medium2	3,095	603	1,144	153	1,849
3	Chic	Liquid	LW	South	2	53	Medium2	12,901	590	2,210	130	1,849

Option	Animal	Туре	Operation	Region	Category	# Facilities	(Continued Size ID	Capital	Fixed	O&M	2	
3	Chic	Liquid	LW	South	3	42		12,629	580	1,509	3yr. rec.	5yr. rec.
3	Chic	Liquid	LW	South	1	9		3,209	729	1,214	380	1,849
3	Chic	Liquid	LW	South	2	35		12,939	632	2,104	205	1,849
3	Chic	Liquid	LW	South	3	28		12,629	580	1,328	0	1,849
3.1	Chic	Solid	BR	Mid-Atlantic	1	. 14		64,538	2,214	2,249	2,391	1,849 3,082
3.1	Chic	Solid	BR	South	1	46		65,498	2,453	2,432	2,740	<del></del>
3.1	Chic	Solid	BR	Mid-Atlantic	2	209		63,405	890	2,289	536	3,082
3.1	Chic	Solid	BR	South	2	659	Largel	63,932	851	2,158	496	3,082 3,082
3.1	Chic	Solid	BR	Mid-Atlantic	. 3	102	Largel	62,675	580	1,355	0	
3.1	Chic	Solid	BR	South	3	323	Largel	63,142	580	1,268	0	3,082 3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	21	Large1	65,240	3,036	2,680	3,541	3,082
3.1	Chic	Solid	BR	South	.1	30	Large1	67,908	4,917	3,912	6,189	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	314	Large1	63,427	916	6,327	573	3,082
3.1	Chic	Solid	BR	South	2	440	Large1	63,964	884	3,538	543	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3 1	153	Largel	62,675	580	1,355	0	3,082
3.1	Chic	Solid	BR	South	3 ;	215	Largel	63,142	580	1,268	0	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	2	Large2	168,396	4,878	4,342	6,120	3,082
3.1	Chic	Solid	BR	South	1	10	Large2	155,678	5,064	4,659	6,395	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	40	Large2	165,119	1,047	3,439	756	3,082
3.1	Chic	Solid	BR	South	2	140	Large2	151,693	988	3,248	688	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3 ,	. 16	Large2	164,255	580	2,049	0	3,082
3.1	Chic	Solid	BR	South	3	68	Large2	150,769	580	1,927	0	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	3	Large2	170,244	7,038	5,476	9,144	3,082
3.1	Chic	Solid	BR	South	1 !	7	Large2	161,445	10,963	8,201	14,653	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	60	Large2	165,162	1,097	10,330	827	3,082
3.1	Chic	Solid	BR	South	2	93	Large2	151,736	1,033	5,286	751	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3	24	Large2	164,255	580	2,049	0	3,082
3.1	Chic	Solid	BR	South	3	46	Large2	150,769	580	1,927	0	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	33	Medium1a	21,127	1,075	1,351	791	3,082

			1		Ta	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
3.1	Chic	Solid	BR	South	1	79	Mediumla	20,967	1,172	1,383	946	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	275	Mediumla	20,831	747	1,362	331	3,082
3.1	Chic	Solid	BR	South	2	665	Mediumla	20,547	736	1,382	336	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3	206	Mediumla	20,239	580	1,043	0	3,082
3.1	Chic	Solid	BR	South	3	499	Mediumla	19,872	580	992	0	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	. 49	Mediumla	21,351	1,324	1,488	1,139	3,082
3.1	Chic	Solid	BR	South	1	. 53	Mediumla	21,717	1,950	1,844	2,036	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	413	Mediumla	20,856	774	2,481	369	3,082
3.1	Chic	Solid	BR	South	2	444	Mediumla	20,571	761	1,849	371	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3	309	Mediumla	20,239	580	1,043	0	3,082
3.1	Chic	Solid	BR	South	3	333	Mediumla	19,872	580	992	0	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	15	Mediumlb	29,305	1,274	1,539	1,069	3,082
3.1	Chic	Solid	BR	South	1	36	Medium1b	29,076	1,410	1,614	1,279	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	126	Medium1b	28,830	747	1,559	331	3,082
3.1	Chic	Solid	BR	South	2	305	Mediumlb	28,427	736	1,614	336	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3	, 95	Mediumlb	28,237	580	1,122	0	3,082
3.1	Chic	Solid	BR	South	3	228	Medium1b	27,751	580	1,083	0	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	23	Mediumlb	29,619	1,623	1,732	1,557	3,082
3.1	Chic	Solid	BR	South	1	24	Medium1b	30,128	2,501	2,261	2,807	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	189	Medium1b	28,854	774	3,268	369	3,082
3.1	Chic	Solid	BR	South	2	203	Medium1b	28,451	761	2,269	371	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3	.142	Medium1b	28,237	∙580	1,122	0	3,082
3.1	Chic	Solid	BR	South	3	152	Medium1b	27,751	580	1,083	0	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	1	. 19	Medium2	41,467	1,570	1,714	1,483	3,082
3.1	Chic	Solid	BR	South	1	57	Medium2	41,417	1,772	1,838	1,786	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	224	Medium2	40,767	794	1,744	397	3,082
3.1	Chic	Solid	BR	South	2	683	Medium2	40,467	787	1,772	407	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3	148	Medium2	40,132	580	1,133	0	3,082
3.1	Chic	Solid	BR	South	3	450	Medium2	39,743	580	1,092	0	3,082

					Ta	ble 11-13.	(Continue	i)				
Option	Animal	Type	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
3.1	Chic	Solid	BR	Mid-Atlantic	1	28	Medium2	41,915	2,067	1,990	2,180	3,082
3.1	Chic	Solid	BR	South	1	38	Medium2	42,929	3,340	2,766	3,982	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	2	336	Medium2	40,791	821	4,249	435	3,082
3.1	Chic	Solid	BR	South	2 .	455	Medium2	40,485	805	2,779	432	3,082
3.1	Chic	Solid	BR	Mid-Atlantic	3	222	Medium2	40,132	580	1,133	0	3,082
3.1	Chic	Solid	BR	South	3	300	Medium2	39,743	580	1,092	0	3,082
3.1	Chic	Solid	LA	Midwest	1	1	Large1	59,137	2,901	1,123	4,426	2,746
3.1	Chic	Solid	LA	South	1	2	Largel	52,774	2,430	1,457	3,441	1,849
3.1	Chic	Solid	LA	Midwest	2	30	Large1	58,186	875	1,235	660	2,746
3.1	Chic	Solid	LA	South	2	59	Large1	51,323	821	1,315	545	1,849
3.1	Chic	Solid	LA	Midwest	3	33	Large 1	57,840	580	439	0	2,746
3.1	Chic	Solid	LA	South	3	- 67	Large1	50,843	580	412	. 0	1,849
3.1	Chic	Solid	LA	Midwest	1	1	Largel	65,120	15,651	4,798	28,125	2,746
3.1	Chic	Solid	LA	South	1	1	Largel	61,940	12,589	7,086	21,728	1,849
3.1	Chic	Solid	LA	Midwest	2	44	Large1	58,227	962	2,370	822	2,746
3.1	Chic	Solid	LA	South	2	39	Largel	51,387	892	3,330	674	1,849
3.1	Chic	Solid	LA	Midwest	3	50	Large1	57,840	580	439	0	2,746
3.1	Chic	Solid	LA	South	3	45	Large1	50,843	580	412	0	1,849
3.1	Chic	Solid	LA	Midwest	1	0	Large2	259,389	10,799	4,442	19,106	2,746
3.1	Chic	Solid	LA	South	1	0	Large2	158,261	6,153	4,120	10,143	1,849
3.1	Chic	Solid	LA	Midwest	2	, 7	Large2	254,878	1,187	3,101	1,239	2,746
3.1	Chic	Solid	. LA	South	2	19	1 Large2	153,681	1,076	2,848	1,004	1,849
3.1	Chic ·	Solid	LA	Midwest	3	. 8	Large2	254,386	580	1,481	0	2,746
3.1	Chic	Solid	LA	South	3	21	Large2	152,971	580	1,012	0	
3.1	Chic	Solid	LA	Midwest	1	0	Large2	285,727	66,923	20,617	123,431	1,849
3.1	Chic	Solid	LA	South	. 1	0	Large2	185,877	36,762	21,080	65,239	2,746
3.1	Chic	Solid	LA	Midwest	2	10	Large2	254,898	1,230	4,751	1,319	1,849
3.1	Chic	Solid	LA	South	2	12	Large2	153,712	1,111	5,955		2,746
3.1	Chic	Solid	LA	Midwest	3	11	Large2	254,386	580	1,481	1,067	1,849
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					Ta	ble 11-13. (	Continued	)				
Option	Animal	Турс	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
3.1	Chic	Solid	LA	South	3	. 14	Large2	152,971	580	1,012	0	- 1,849
3.1	Chic	Solid	LA	Midwest	1	_ 3	Mediumla	8,268	895	272	697	2,746
3.1	Chic	Solid	LA	South	1	4	Mediumla	6,146	784	292	478	1,849
3.1	Chic	Solid	LA	Midwest	2	24	Mediumla	8,187	722	317	376	2,746
3.1	Chic	Solid	LA	South	2	36	Mediumla	6,067	696	307	321	1,849
3.1	Chic	Solid	LA	Midwest	3	13	Mëdiumla	7,913	580	166	0	2,746
3.1	Chic	Solid	LA	South	3	20	Mediumla	5,700	580	159	0	1,849
3.1	Chic	Solid	LA	Midwest	1	4	Mediumla	9,081	2,626	771	3,914	2,746
3.1	Chic	Solid	LA	South	1	3	Mediumla	7,157	1,905	913	2,495	1,849
3.1	Chic	Solid	LA	Midwest	2	37	Medium1a	8,203	- 757	499	439	2,746
3.1	Chic	Solid	LA	South	2	24	Mediumla	6,092	724	571	371	1,849
3.1	Chic	Solid	LA	Midwest	3	20	Medium1a	7,913	580	166	0	2,746
3.1	Chic	Solid	LA	South	3	13	Medium1a	5,700	580	159	. 0	1,849
3.1	Chic	Solid	LA·	Midwest	1	2	Medium1b	11,362	1,017	333	924	2,746
3,1	Chic	Solid	LA	South	1	. 3	Medium1b	8,384	863	338	621	1,849
3.1	Chic	Solid	LA	Midwest	2	16	Medium1b	11,224	722	412	376	2,746
3.1	Chic	Solid	LA	South	2	24	Medium1b	8,234	696	368	321	1,849
3.1	Chic	Solid	LA	Midwest	3	9	Medium1b	10,950	580	192	0	2,746
3.1	Chic	Solid	LA	South	3	13	Medium1b	7,867	580	161	0	1,849
3.1	Chic	Solid	LA	Midwest	1	3	Medium1b	12,489	3,418	1,025	5,387	2,746
3.1	Chic	Solid	LA	South	1 .	2	Medium1b	9,787	2,417	1,199	3,419	1,849
3.1	Chic	Solid	LA	Midwest	2	24	Medium1b	11,240	757	639	439	2,746
3.1	Chic	Solid	LA	South	2	_ 16	Medium1b	8,259	724	709	371	1,849
3.1	Chic	Solid	LA	Midwest	3	. 13	Medium1b	10,950	580	192	0	2,746
3.1	Chic	Solid	LA	South	3	9	Medium1b	7,867	580	161	0	1,849
3.1	Chic	Solid	LA	Midwest	1	- 5	Medium2	20,828	1,390	470	1,618	2,746
3.1	Chic	Solid	LA	South	1	. 9	Medium2	17,759	1,194	572	1,216	1,849
3.1	Chic	Solid	LA	Midwest	2	. 42	Medium2	20,582	865	610	641	2,746
3.1	Chic	Solid	LA	South	2 .	. 82	Medium2	17,415	813	640	530	1,849

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Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
3.1	Chic	Solid	LA	Midwest	3	<sup>'</sup> 34	Medium2	20,240	580	221	0	2,746
3.1	Chic	Solid	LA	., South	3	66	Medium2	16,943	580	212	0	1,849
3.1	Chic	Solid	LA	Midwest	1	8	Medium2	22,917	5,842	1,753	9,892	2,746
3.1	Chic	Solid	LA.	South	1	6	Medium2	20,801	4,566	2,440	7,285	1,849
3.1	Chic	Solid	LA	Midwest	2	64	Medium2	20,621	949	1,043	797	2,746
3.1	Chic	Solid	LA	South	2	55	Medium2	17,477	881	1,373	654	1,849
3.1	Chic	Solid	LA	Midwest	3	51	Medium2	20,240	580	221	054	2,746
3.1	Chic	Solid	LA	South	3	44	Medium2	16,943	580	212	0	1,849
3.1	Chic	Liquid	LW	South	1	11	Largel	1,053	1,128	460	1,097	1,849
3.1	Chic	Liquid	LW	South	2	101	Largel	107,287	799	23,262	505	1,849
3.1	Chic	Liquid	LW	South	3	. 55	Large1	106,827	580	7,046	0	
3.1	Chic	Liquid	LW	South	1	7	Large1	3,767	4,135	2,126	6,511	1,849
3.1	Chic	Liquid	LW	South	2	67	Large1	107,325	841	20,209	580	1,849
3.1	Chic	Liquid	LW	South	3	37	Large1	106,827	580	2,745		1,849
3.1	Chic	Liquid	LW	South	1	45	Medium2	415	603	166	153	1,849
3.1	Chic	Liquid	LW	South	2	183	Medium2	10,221	590		153	1,849
3.1	Chic	Liquid	LW	South	3	144	Medium2	9,949	580	1,232	130	1,849
3.1	Chic	Liquid	LW	South	1	30	Medium2	529	729	530	0	1,849
3.1,	Chic	Liquid	LW	South	2	122	Medium2	10,259		236	380	1,849
3.1	Chic	Liquid	LW	South	3	96	Medium2		632	1,126	205	1,849
4	Chic	Solid	BR	Mid-Atlantic	1	4	Large1	9,949	580	350	0	1,849
4	Chic	Solid	BR	South	1	13		69,049	2,606	9,533	2,391	3,082
4	Chic	Solid	BR	Mid-Atlantic	2	66	Large1	69,793	2,845	9,654	2,740	3,082
4	Chic	Solid	BR	South	2	191	Large1	67,916	1,282	9,573	536	3,082
4	Chic	Solid	BR	Mid-Atlantic	3	32	Largel	68,226	1,243	9,380	496	3,082
4	Chic	Solid	BR	South	3	93	Large1	67,187	972	8,639	0	3,082
4	Chic	Solid	BR	Mid-Atlantic	1	7	Largel	67,437	972	8,490	0	3,082
4	Chic	Solid	BR	South	1		Largel	69,752	3,428	9,964	3,541	3,082
4	Chic	Solid	BR	Mid-Atlantic	2	9	Large1	72,202	5,309	11,134	6,189	3,082
السينسان		~0114	DK	MIN-MUMITIC		99	Largel	67,938	1,308	13,611	573	3,082

				,	Tal	ble 11-13. (	Continued	)				
Option	Animal	Type	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуг. гес.	5yr, rec.
4	Chic	Solid	BR	South	2	127	Largel	68,259	1,276	10,760	543	3,082
4	Chic	Solid	BR	Mid-Atlantic	3	. 48	Large1	67,187	972	8,639	0	3,082
4	Chic	Solid	BR	South	3	. 62	Largel	67,437	972	8,490	0	3,082
4	Chic	Solid	BR	Mid-Atlantic	1	. 1	Large2	178,012	5,270	. 11,727	6,120	3,082
4	Chic	Solid	BR	South	1	. 3	Large2	164,153	5,456	11,964	6,395	3,082
4	Chic	Solid	BR	Mid-Atlantic	2	13	Large2	174,735	1,439	10,824	756	3,082
4	Chic	Solid	BR	South	- 2	· . 41	Large2	160,168	1,380	10,553	688	3,082
4	Chic	Solid	BR	Mid-Atlantic	3	5	Large2	173,871	972	9,434	0	3,082
4	Chic	Solid	BR	South	3	20	Large2	159,244	972	9,232	0	3,082
4	Chic	Solid	BR	Mid-Atlantic	- 1	. 1	Large2	179,859	7,430	12,861	9,144	3,082
4	Chic	Solid	BR	South	1	2	Large2	169,920	11,355	15,506	14,653	3,082
4	Chic	Solid	BR	Mid-Atlantic	2	. 19	Large2	174,778	1,489	17,715	827	3,082
4	Chic	Solid	BR	South	2	27	Large2	160,211	1,425	12,590	751	3,082
4	Chic	Solid	BR	Mid-Atlantic	3	- 8	Large2	173,871	972	9,434	.0	3,082
4	Chic	Solid	BR	South	3	13	Large2	159,244	972	9,232	0	3,082
4	Chic .	Solid	BR	Mid-Atlantic	1	10	Medium1a	23,506	1,467	8,592	791	3,082
4	Chic	Solid	BR	South	1	23	Medium1a	23,197	1,564	8,564	946	3,082
4	Chic	Solid	BR	Mid-Atlantic	2	86		23,210	1,139	8,604	331	3,082
4	Chic	Solid	BR	South	2	193	Medium1a	22,777	1,128	8,563	336	3,082
4	·Chic	Solid	BR	Mid-Atlantic	3	65	Medium1a	22,618	972	8,285	0	3,082
4	Chic	Solid	BR	South	3	144		22,101	972	8,173	0	3,082
4	Chic	Solid	BR	Mid-Atlantic	1	15	Medium1a	23,730		8,730	1,139	3,082
4	Chic	Solid	BR	South	1	15	<del></del>	23,947	2,342	9,024	2,036	3,082
4	Chic	Solid	BR	Mid-Atlantic	2	130	<u> </u>	23,235		9,722	369	3,082
4	Chic	Solid	BR	South	2	128	Mediumla	22,801	1,153	9,030	<del>,</del>	3,082
4	Chic	Solid	BR	Mid-Atlantic	3	. 97	Mediumla	22,618		8,285		3,082
4	Chic	Solid	BR	South	3.	. 96	Mediumla	22,101	972	8,173	<del></del>	3,082
4	Chic	Solid	BR	Mid-Atlantic	1	5	Medium1b	32,086		8,789		3,082
4	Chic	Solid	BR	South	1	11	Medium1b	31,682	1,802	8,803	1,279	3,082

Option	Animal	Туре	Operation	Region	Category	# Facilities	(Continue	<del>/</del> _				
4	Chic	Solid	BR	Mid-Atlantic	2		Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
4	Chic	Solid	BR	South	2	40		31,611	1,139	8,808	331	3,0
4	Chic	Solid	BR	Mid-Atlantic	3	88		31,032	1,128	8,802	336	3,0
4	Chic	Solid	BR	South		30		31,019	972	8,371	0	3,0
4	Chic	Solid	BR	Mid-Atlantic	3	66		30,357	972	8,272	0	3,0
4	Chic	Solid	BR	South	1	7	Medium1b	32,400	2,015	8,982	1,557	3,0
4	Chic	Solid	BR	Mid-Atlantic		7	Medium1b	32,734	2,893	9,449	2,807	3,08
4	Chic	Solid	BR	South	2	60	2120GIGIII	31,636	1,166	10,518	369	3,0
4	Chic	Solid	BR	Mid-Atlantic	2	59		31,057	1,153	9,458	371	3,08
4	Chic	Solid	BR	South	3	45		31,019	972	8,371	0	3,08
4	Chic	Solid	BR	Mid-Atlantic	3	44		30,357	972	8,272	0	3,08
4	Chic	Solid	BR	South .	1	6	Medium2	44,846	1,962	8,976	1,483	3,08
4	Chic	Solid	BR	Mid-Atlantic	1	16		44,594	2,164	9,038	1,786	3,08
4	Chic	Solid	BR	South South	2	70		44,146	1,186	9,005	, 397	3,08
4	Chic	Solid	BR	Mid-Atlantic	2	198	Medium2	43,645	1,179	8,972	407	3,08
4	Chic	Solid	BR	South	3	46	Medium2	43,511	972	8,394	0	3,08
4	Chic	Solid	BR	Mid-Atlantic	3	130	Medium2	42,920	972	8,292	0	3,08
4	Chic	Solid	BR	South	1	9	Medium2	45,294	2,459	9,251	2,180	3,08
4	Chic	Solid	BR		1	11	Medium2	46,106	3,732	9,966	3,982	3,08
4	Chic	Solid	BR	Mid-Atlantic	2	106	Medium2	44,170	1,213	11,510	435	3,08
4	Chic	Solid		South	2	132	Medium2	43,662	1,197	9,978	432	3,08
4	Chic	Solid		Mid-Atlantic	3	70	Medium2	43,511	972	8,394	0	3,08
4	Chic	Solid	BR LA	South	3	. 87	Medium2	42,920	972	8,292	0	3,08
4	Chic	Solid		Midwest	1	0	Large1	62,939	3,293	8,533	4,426	2,74
4	Chic	Solid	LA	South	1	1	Large1	55,975	2,822	8,657	3,441	1,84
4	Chic		LA	Midwest	2	11	Large1	61,988	1,267	8,645	660	2,74
4		Solid	LA	South	2	17	Large1	54,524	1,213	8,515	545	1,84
	Chic	Solid	LA	Midwest	3	13	Large1	61,642	972	7,849	0	2,74
4	_	Solid	LA	South	3	19	Large1	54,044	972	7,612	0	1,84
4	Chic	Solid	LA	Midwest	1	0	Large1	68,922	16,043	12,207	28,125	2,74

					Ta	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
4	Chic	Solid	LA	South	1	0	Largel	65,141	12,981	14,286	21,728	1,849
4	Chic	Solid	LA	Midwest	2	17	Largel	62,029	1,354	9,780	822	2,746
4	Chic	Solid	LA	South	2	11	Largel	54,588	1,284	10,530	674	1,849
4	Chic	Solid	LA	Midwest	3	19	Largel	61,642	972	7,849	0	2,746
4	Chic	Solid	LA	South	- 3	13	Large1	54,044	972	7,612	0	1,849
4	Chic	Solid	LA	Midwest	1	. 0	Large2	270,735	11,191	12,000	19,106	2,746
4	Chic	Solid	LA	South	1	0	Large2	165,299	6,545	11,396	10,143	1,849
4	Chic	Solid	LA	Midwest	2	3	Large2	266,224	1,579	10,660	1,239	2,746
4	Chic	Solid	LA	South	2	5	Large2	160,718	1,468	10,124	1,004	1,849
4	Chic	Solid	LA	Midwest	3	3	Large2	265,732	972	9,040	0	2,746
4	Chic	Solid	LA	South	3	6	Large2	160,008	972	8,288	0	1,849
4	Chic	Solid	LA	Midwest	1	0	Large2	297,074	67,315	28,176	123,431	2,746
4	Chic	Solid	LA	South	1	0	Large2	192,914	37,154	28,356	65,239	1,849
4	Chic	Solid	LA	Midwest	2	4	Large2	266,244	1,622	12,310	1,319	2,746
4	Chic	Solid	LA	South	2	4	Large2	160,749	1,503	13,231	1,067	1,849
4	Chic	Solid	LA	Midwest	3	4	Large2	265,732	972	9,040	0	2,746
4	Chic	Solid	LA	South	3	4	Large2	160,008	972	8,288	0	1,849
4	Chic	Solid	LA	Midwest	1	1	Medium1a	10,154	1,287	7,643	. 697	2,746
4	Chic	Solid	LA	South	1	1	Mediumla	7,652	1,176	7,459	478	1,849
4	Chic	Solid	LA	Midwest	2	9	Medium1a	10,073	1,114	7,689	376	2,746
4	Chic	Solid	LA	South	2	11	Medium1a	7,573	1,088	7,474	321	1,849
4	Chic	Solid	LA	Midwest	3	5	Medium1a	9,798	972	7,537	0	2,746
4	Chic	Solid	LA	South	3	. 6	Medium1a	7,205	972	7,326	0	1,849
4	Chic	Solid	LA	Midwest	1	2	Medium1a	10,966	3,018	8,142	3,914	2,746
4	Chic	Solid ·	LA	South	1	1	Medium1a	8,663	2,297	8,080	2,495	1,849
- 4	Chic	Solid	LA	Midwest	2.	14	Medium1a	10,089	- 1,149	7,871	439	2,746
4	Chic	Solid	LA	South	2	. 7	Medium1a	7,598	1,116	7,738	371	1,849
4	Chic	Solid	LA	Midwest	3	8	Medium1a	9,798	972	7,537	0	2,746
4	Chic	Solid	LA	South	3	4	Medium1a	7,205	972	7,326	0	1,849

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Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
4	Chic	Solid	LA	Midwest	1	1	Medium1b	13,364	1,409	7,707	924	2,746
4	Chic	Solid	LA	South	1	1	Medium1b	9,971	1,255	7,506	621	1,849
4	Chic	Solid	LA	Midwest	2	6	Medium1b	13,226	1,114	7,786	376	2,746
4	Chic	Solid	LA	South	2	7	Medium1b	9,821	1,088	7,536	321	1,849
4	Chic	Solid	LA	Midwest	3	3	Medium1b	12,952	972	7,566	0	2,746
4	Chic	Solid	LA	South	3	4	Medium1b	9,453	972	7,330	0	1,849
4	Chic	Solid	LA	Midwest	1	1	Medium1b	14,491	3,810	8,399	5,387	2,746
4	Chic	Solid	LA	South	1	1	Medium1b	11,374	2,809	8,368	3,419	1,849
4	Chic	Solid	LA	Midwest	2	. 9	Medium1b	13,242	1,149	8,013	439	2,746
4	Chic	Solid	LA	South	2	5	Medium1b	9,846	1,116	7,877	371	1,849
4	Chic	Solid	LA	Midwest	3	5	Medium1b	12,952	972	7,566	0	2,746
4	Chic	Solid	LA	South	3	3	Medium1b	9,453	972	7,330	0	1,849
4	Chic	Solid	LA	Midwest	1	2	Medium2	23,187	1,782	7,851	1,618	2,746
4	Chic	Solid	LA	South	1	3	Medium2	19,687	1,586	7,747	1,216	1,849
4	Chic	Şolid	LA	Midwest	2	16	Medium2	22,940	1,257	7,991	641	2,746
4	Chic	Solid	LA	South	2	24	Medium2	19,343	1,205	7,815	530	1,849
4	Chic	Solid	LA	Midwest	3	13	Medium2	22,599	972	7,602	0	2,746
4	Chic	Solid	LA	South	3	19	Medium2	18,871	972	7,387	0	1,849
4	Chic	Solid	LA	Midwest	1	3	Medium2	25,276	6,234	9,134	9,892	2,746
4	Chic	Solid	LA	South	1	2	Medium2	22,729	4,958	9,615	7,285	1,849
4	Chic	Solid	LA	Midwest	2	24	Medium2	22,980	1,341	8,424	797	2,746
4	Chic	Solid	LA	South	2	16	Medium2	19,405	1,273	8,548	654	1,849
4	Chic	Solid	LA	Midwest	3	19	Medium2	22,599	972	7,602	034	2,746
4	Chic	Solid	LA	South	3.	13	Medium2	18,871	972	7,387	0	1,849
4	Chic	Liquid	LW	South	1	3	Large1	18,612	1,520	8,411	1,097	1,849
4	Chic	Liquid	LW	South	2	29	Large1	124,846	1,191	31,213	505	1,849
4	Chic	Liquid	LW	South	3	16	Large1	124,386	972	14,997	0	1,849
4	Chic	Liquid	LW	South	1	2	Large1	21,326	4,527	10,077	6,511	1,849
4	Chic	Liquid	LW	South	2	19	Large1	124,884	1,233	28,159	580	1,849

					Ta	ble 11-13. (	Continued					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
4	Chic	Liquid	LW	South	3	11	Large1	124,386	972	10,696	0	1,849
4	Chic	Liquid	LW	South	1	13	Medium2	3,095	995	7,396	153	1,849
4	Chic	Liquid	LW	South	2	53	Medium2	12,901	982	8,462	130	1,849
4	Chic	Liquid	LW	South	3	42	Medium2	12,629	972	7,761	0	1,849
4	Chic	Liquid	LW	South	1	9	Medium2	3,209	1,121	7,466	380	1,849
4	Chic	Liquid	LW	South	2	35	Medium2	12,939	1,024	8,356	205	1,849
4	Chic	Liquid	LW	South	3	28	Medium2	12,629	972	7,580	0	1,849
4.1	Chic	Solid	BR	Mid-Atlantic	1	. 14	Large1	64,538	2,606	8,501	2,391	3,082
4.1	Chic	Solid	BR	South	1	. 46	Large1	65,498	2,845	8,684	2,740	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	209	Large1	63,405	1,282	. 8,541	536	3,082
4.1	Chic	Solid	BR	South	2	659	Large1	63,932	1,243	8,410	496	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	3	102	Large1	62,675	972	7,607	0	3,082
4.1	Chic	Solid	BR	South	3	323	Large1	63,142	972	7,520	. 0	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	1	21	Large1	65,240	3,428	8,932	3,541	3,082
4.1	Chic	Solid	BR	South	1	30	Largel	6 <u>7,</u> 908	5,309	10,164	6,189	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2 .	314	Largel	63,427	1,308	12,579	573	3,082
4.1	Chic	Solid	BR	South	2	440	Large1	63,964	1,276	9,790	543	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	3	153	Large1	62,675	972	7,607	0	3,082
4.1	Chic	Solid	BR	South	3	215	Largel	63,142	972	7,520	0	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	1	2	Large2	168,396	5,270	10,594	6,120	3,082
4.1	Chic	Solid	BR	South	1	10		155,678	5,456	10,911	6,395	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	40		165,119	1,439	9,691	756	3,082
4.1	Chic	Solid	BR	South	. 2	140		151,693	1,380	9,500	688	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	-3	16		164,255	972	8,301	0	3,082
4.1	Chic	Solid	BR	South	3	. 68	<del> </del>	150,769	. 972	8,179	0	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	1	3		170,244	7,430	11,728		3,082
4.1	Chic	Solid	BR	South	1	7	<del></del>	161,445	11,355	14,453	14,653	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	60		165,162	1,489	16,582	827	3,082
4.1	Chic	Solid	BR	South	2	93	Large2	151,736	1,425	11,538	751	3,082

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	·	- <del></del>			Ta	ble 11-13.	(Continued	ł)			-	
Option	Animal	Type	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
4.1	Chic	Solid	BR	Mid-Atlantic	3	- 24	Large2	164,255	972	8,301	0	3,082
4.1	Chic	Solid	BR	South	3	46	Large2	150,769	972	8,179	0	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	1	33	Medium1a	21,127	1,467	7,603	. 791	3,082
4.1	Chic	Solid	BR	South	1	79	Medium1a	20,967	1,564	7,635	946	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	275	Medium1a	20,831	1,139	7,614	331	3,082
4.1	· Chic	Solid	BR	South	2	665	Medium1a	20,547	1,128	7,634	336	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	3	206	Medium1a	20,239	972	7,295	0	3,082
4.1	Chic	Solid	BR	South	.3	499	Medium1a	19,872	972	7,244	0	
4.1	Chic	Solid	BR	Mid-Atlantic	1	49	Medium1a	21,351	1,716	7,740	1,139	3,082
4.1	Chic	Solid	BR	South	i	53	Medium1a	21,717	2,342	8,096	2,036	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	413	Mediumla	20,856	1,166	8,733	369	3,082
4.1	Chic .	Solid	BR	South '	2	444	Medium1a	20,571	1,153	8,101	371	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	3	309	Medium1a	20,239	972	7,295	0	3,082
4.1	Chic	Solid	BR	South	3	333	Medium1a	19,872	972	7,244	0	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	· 1	15	Medium1b	29,305	1,666	7,791	1,069	3,082
4.1	Chic	Solid	BR	South	1	36	Medium1b	29,076	1,802	7,866	1,009	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	126	Medium1b	28,830	1,139	7,811	331	3,082
4.1	Chic	Solid	BR	South	2	305	Medium1b	28,427	1,128	7,866	336	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	3	95	Medium1b	28,237	972	7,374	0	3,082
4.1	Chic	Solid	BR	South	3 /	228	Medium1b	27,751	972	7,335	0	3,082 3,082
4.1	Chic	Solid	BR	Mid-Atlantic	1	23	Medium1b	29,619	2,015	7,984	1,557	
4.1	Chic	Solid	BR	South	i		Medium1b	30,128	2,893	8,513	2,807	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2		Medium1b	28,854	1,166	9,520	369	3,082
4.1	Chic	Solid	BR	South	2		Medium1b	28,451	1,153	8,521		3,082
4.1.	Chic	Solid	BR	Mid-Atlantic	3		Medium1b	28,237	972	7,374	371	3,082
4.1	Chic	Solid	BR	South	3		Medium1b	27,751	972	7,374	0	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	1	19	Medium2	41,467	1,962	7,333	1 492	3,082
4.1	Chic	Solid	BR	South	1	57	Medium2	41,417	2,164		1,483	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	224	Medium2	40,767	1,186	8,090	1,786	3,082
						227	1710010111Z	40,707	1,100	7,996	397	3,082

					Ta	ble 11-13. (	Continued	l)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуг. гес.	5yr. rec.
4.1	Chic	Solid	BR	South	2	683	Medium2	40,467	1,179	8,024	407	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	3	148	Medium2	40,132	972	7,385	0	3,082
4.1	Chic	Solid	BR	South	3	450	Medium2	39,743	972	7,344	0	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	1	28	Medium2	41,915	2,459	8,242	2,180	3,082
4.1	Chic	Solid	BR	South	1	38	Medium2	42,929	3,732	9,018	3,982	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	2	336	Medium2	40,791	1,213	10,501	435	3,082
4.1	Chic	Solid	BR	South	2	455	Medium2	40,485	1,197	9,031	432	3,082
4.1	Chic	Solid	BR	Mid-Atlantic	3	222	Medium2	40,132	972	7,385	0	3,082
4.1	Chic	Solid	BR	South	3	300	Medium2	39,743	972	7,344	0	3,082
4.1	Chic	Solid	LA	Midwest	1	1	Large1	59,137	3,293	7,375	4,426	2,746
4.1	Chic	Solid	LA	South	1	2	Large1	52,774	2,822	7,709	3,441	1,849
4.1	Chic	Solid	LA	Midwest	2	30	Large1	58,186	1,267	7,487	660	2,746
4.1	Chic	Solid	LA	South	2	59	Large1	51,323	1,213	7,567	545	1,849
4.1	Chic	Solid	LA	Midwest	3	33	Large1	57,840	972	6,691	0	2,746
4.1	Chic	Solid	LA	South	3	67	Largel	50,843	972	6,664	0	1,849
4.1	Chic	Solid	LA	Midwest	1	1	Large1	65,120	16,043	11,050	28,125	2,746
4.1	Chic	Solid	LA	South	1	. 1	Large1	61,940	12,981	13,338	21,728	1,849
4.1	Chic	Solid	LA	Midwest	2	44	Largel	58,227	1,354	8,622	822	2,746
4.1	Chic	Solid	LA	South	2	39	Largel	51,387	1,284	9,582	674	1,849
4.1	Chic	Solid	LA	Midwest	3	50	Largel	57,840	972	6,691	0	2,746
4.1	Chic	Solid	LA	South	3	45	Largel	50,843	972	6,664	3 0	1,849
4.1	Chic	Solid	LA	Midwest	1	0	Large2	259,389	11,191	10,694	19,106	2,746
4.1	Chic	Solid	LA	South	1	0	Large2	158,261	6,545	10,372	10,143	1,849
4.1	Chic	Solid	LA	Midwest	2	7	Large2	254,878	1,579	9,353	1,239	2,746
4.1	Chic	Solid	LA	South	2	19	Large2	153,681	1,468	9,100	1,004	1,849
4.1	Chic	Solid	LA	Midwest	3	. 8	Large2	254,386		7,733	0	2,746
4.1	Chic	Solid	LA	South	3	21	Large2	152,971	972	7,264	0	1,849
4.1	Chic	Solid	LA	Midwest	1	0	Large2	285,727	67,315	26,869	123,431	2,746
4.1	Chic	Solid	LA	South	1	0	Large2	185,877	37,154	27,332	65,239	1,849

	·				Ta	ble 11-13.	(Continued	1)				, .
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
4.1	Chic	Solid	· LA	Midwest	2	10	Large2	254,898	1,622	11,003	1,319	2,746
4.1	Chic	Solid	LA -	South	2	12	Large2	153,712	1,503	12,207	1,067	1,849
4.1	Chic	Solid	LA	Midwest	- 3	11	Large2	254,386	972	7,733	0	2,746
4.1	Chic	Solid	LA	South	3	. 14	Large2	152,971	972	7,264	<u> </u>	1,849
4.1	Chic	Solid	LA	Midwest	1	3	Mediumla	8,268	1,287	6,524	697	2,746
4.1	Chic	Solid	LA	South	1	4	Medium1a	6,146	1,176	6,544	478	1,849
4.1	Chic	Solid	LA	Midwest	2	24	Mediumla	8,187	1,114	6,569	376	2,746
4.1	Chic	Solid	LA	South	2	36	Medium1a	6,067	1,088	6,559	321	1,849
4.1	Chic	Solid	LA .	Midwest	3	13	Mediumla	7,913	972	6,418	0	2,746
4.1	Chic	Solid	LA	South	3	20	Medium1a	5,700	972	6,411	0	1,849
4.1	Chic	Solid	LA	Midwest	1	. 4	Medium1a	9,081	3,018	7,023	3,914	
4.1	Chic	Solid	LA	South	1	3	Medium1a	7,157	2,297	7,165	2,495	2,746
4.1	Chic	Solid	LA	Midwest	2	37	***************************************	8,203	1,149	6,751	439	1,849
4.1	Chic	Solid	LA	South	2	24	Medium1a	6,092	1,116	6,823	371	2,746
4.1	Chic	Solid	LA	Midwest	3	20	Medium1a	7,913	972	6,418		1,849
4.1	Chic	Solid	LA	South	3	13		5,700	972	6,411	0	2,746
4.1	Chic	Solid	LA	Midwest	1	2	Medium1b	11,362	1,409	6,585	924	1,849
4.1	Chic	Solid	LA	South	1	3	Medium1b	8,384	1,255	6,590		2,746
4.1	Chic	Solid	. LA	Midwest	2		Medium1b	11,224	1,114	6,664	621	1,849
4.1	Chic	Solid	LA	South	2		Medium1b	8,234	1,088		376	2,746
4.1	Chic	Solid	LA	Midwest	3		Medium1b	10,950	972	6,620	321	1,849
4.1	Chic	Solid	LA	South	3		Medium1b	7,867	972	6,444	. 0	2,746
4.1	Chic	Solid	LA	Midwest	1		Medium1b			6,413	0	1,849
4.1	Chic	Solid	LA	South	<del>- i  </del>		Medium1b	12,489	3,810	7,277	5,387	2,746
4.1	Chic	Solid	LA	Midwest	2		Medium1b	9,787	2,809	7,451	3,419	1,849
4.1	Chic	Solid	LA	South	2		Medium1b	11,240	1,149	6,891	439	2,746
4.1	Chic	Solid	LA	Midwest	$\frac{2}{3}$			8,259	1,116	6,961	371	1,849
4.1	Chic	Solid	LA	South	3		Medium1b	10,950	972	6,444	0	2,746
4.1	Chic	Solid	LA	Midwest	1		Medium1b	7,867	972	6,413	0	1,849
		JUM	LILL	MIUWEST	1	5	Medium2	20,828	1,782	6,722	1,618	2,746

					Ta	ble 11-13. (	Continued	)			*	
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
4.1	Chic	Solid	LA	South	1	9	Medium2	17,759	1,586	6,824	1,216	1,849
4.1	Chic	Solid	LA	Midwest	2	42	Medium2	20,582	1,257	6,862	641	2,746
4.1	Chic	Solid	LA	South	2	82	Medium2	17,415	1,205	6,892	530	1,849
4.1	Chic	Solid	LA	Midwest	3	34	Medium2	20,240	972	6,473	0	2,746
4.1	Chic	Solid	LA	South	3	66	Medium2	16,943	-972	6,464	0	1,849
4.1	Chic	Solid ·	LA	Midwest	1	8	Medium2	22,917	6,234	8,005	9,892	2,746
4.1	Chic	Solid	LA	South	1	6	Medium2	20,801	4,958	8,692	7,285	1,849
4.1	Chic	Solid	LA	Midwest	2	64	Medium2	20,621	1,341	7,295	797	2,746
4.1	Chic	Solid	. LA	South	2	55	Medium2	17,477	1,273	7,625	654	1,849
4.1	Chic	Solid	LA	Midwest	3	. 51	Medium2	20,240	972	6,473	0	2,746
4.1	Chic	Solid	LA	South	3	44	Medium2	16,943	972	6,464	0	1,849
4.1	Chic	Liquid	LW	South	1	11	Large1	1,053	1,520	6,712	1,097	1,849
4.1	Chic	Liquid	LW	South	2	101	Large1	107,287	1,191	29,514	505	1,849
4.1	Chic	Liquid	LW	South	3	55	Large1	106,827	972	13,298	0	1,849
4.1	Chic	Liquid	LW	South	1	7	Large1	3,767	4,527	8,378	6,511	1,849
4.1	Chic	Liquid	LW	South	2	67	Large1	107,325	1,233	26,461	580	1,849
4.1	Chic	Liquid	LW	South	3	37	Largel	106,827	972	8,997	0	1,849
4.1	Chic	Liquid	LW	South	1	45	Medium2	415	995	6,418	153	1,849
4.1	Chic	Liquid	LW	South	2	183	Medium2	10,221	982	7,484	130	1,849
4.1	Chic	Liquid	LW	South	3	144	Medium2	9,949	972	6,782	0	1,849
4.1	Chic	Liquid	LW	South	1	30	Medium2	529	1,121	6;488	380	1,849
4.1	Chic	Liquid	LW	South	2	122	Medium2	10,259	1,024	7,378	205	1,849
4.1	Chic	Liquid	LW	South	3	96	Medium2	9,949	972	6,602	. 0	1,849
- 5	Chic	Solid	BR	Mid-Atlantic	1	19	Large1	64,538	2,214	2,249	2,391	0
5	Chic	Solid	BR	South.	1	59	Largel	65,498	2,453	2,432	2,740	0
5	Chic	Solid	BR	Mid-Atlantic	2	275	Large1	63,405	890	2,289	536	0
5	Chic	Solid	BR	South.	2	850	Large1	63,932	851	2,158	496	0
5	Chic	Solid	BR	Mid-Atlantic	3	134	Large1	62,675	580	1,355	0	0
5	Chic	Solid	BR.	South	3	416	Large1	63,142	580	1,268	0	0

			-		Ta	ble 11-13.	(Continue	i)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
5	Chic	Solid	BR	Mid-Atlantic	1	28	Large1	65,240	3,036	2,680	3,541	0
-5	Chic	Solid	BR	South	1	. 39	Large1	67,908	4,917	3,912	6,189	0
5	Chic	Solid	BR	Mid-Atlantic	2	412	Largel	63,427	916	6,327	573	0
5	Chic	Solid	BR	South	. 2	567	Large1	63,964	884	3,538	543	. 0
5	Chic	Solid	BR	Mid-Atlantic	3	202	Largel	62,675	580	1,355	0	0
5	Chic	Solid	BR	South	. 3	278	Large1	63,142	580	1,268	0	0
5	Chic	Solid	BR	Mid-Atlantic	1	3	Large2	168,396	4,878	4,342	6,120	0
5	Chic	Solid	BR	South	1	13	Large2	155,678	5,064	4,659	6,395	. 0
5	Chic	Solid	BR	Mid-Atlantic	2 -	53	Large2	165,119	1,047	3,439	756	0
5	Chic	Solid	BR	South	2	181	Large2	151,693	988	3,248	688	0
5	Chic	Solid	BR	Mid-Atlantic	· 3·	21	Large2	164,255	580	2,049	0	. 0
5	Chic	Solid	BR	South	3	88	Large2	150,769	580	1,927	0	0
5	Chic	Solid	BR	Mid-Atlantic	1	. 4	Large2	170,244	7,038	5,476	9,144	0
5	Chic	Solid	BR	South	1	8	Large2	161,445	10,963	8,201	14,653	0
5	Chic	Solid	BR	Mid-Atlantic	2	. 79	Large2	165,162	1,097	10,330	827	0
5	Chic	Solid	BR	South	2	120	Large2	151,736	1,033	5,286	751	0
5	Chic	Solid	BR	Mid-Atlantic	3	32	Large2	164,255	580	2,049	0	0
5	Chic	Solid	BR	South	3	59	Large2	150,769	. 580	1,927	0	. 0
5	Chic	Solid	BR	Mid-Atlantic	1	43	Medium1a	21,127	1,075	1,351	791	. 0
5	Chic	Solid	BR.	South	1	102	Medium1a	20,967	1,172	1,383	946	0
5	Chic	Solid	BR	Mid-Atlantic	. 2	362	Medium1a	20,831	747	1,362	331	0
5	Chic	Solid	BR	South	2	858	Medium1a	20,547	736	1,382	336	0
5	Chic	Solid	BR	Mid-Atlantic	3	271	Medium1a	20,239	580	1,043	0	0
5	Chic	Solid	BR	South	3	643	Medium1a	19,872	580	992	0	0
. 5	Chic	Solid	BR	Mid-Atlantic	1	65	Medium1a	21,351	1,324	1,488	1,139	0
_5	Chic	Solid	BR	South	· 1	68	Medium1a	21,717	1,950	1,844	2,036	0
5	Chic	Solid	BR	Mid-Atlantic	2	542	Mediumla	20,856	774	2,481	369	0
5	Chic	Solid	BR	South	2	572	Mediumla	20,571	761	1,849	371	0
5	Chic	Solid	BR	Mid-Atlantic	3	406	Mediumla	20,239	580	1,043	0	0

					Ta	ble 11-13. (	Continued	)			-	
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5уг. гес.
5	Chic	Solid	BR	South	3	429	Mediumla	19,872	580	992	0	0
5	Chic	Solid	BR	Mid-Atlantic	1	20	Medium1b	29,305	1,274	1,539	1,069	0
5	Chic	Solid	BR	South	1	47	Medium1b	29,076	1,410	1,614	1,279	0
5	Chic	Solid	BR	Mid-Atlantic	. 2	166	Medium1b	28,830	747	1,559	- 331	0
5	Chic	Solid	BR	South	2	394	Medium1b	28,427	736	1,614	336	0
5	Chic	Solid	BR	Mid-Atlantic	3	124	Medium1b	28,237	580	1,122	0	0
5	Chic	Solid	BR	South	3	295	Medium1b	27,751	580	. 1,083	0	0
5	Chic	Solid	BR	Mid-Atlantic	1	30	Medium1b	29,619	1,623	1,732	1,557	0
5	Chic	Solid	BR	South .	1	31	Mediumlb	30,128	2,501	2,261	2,807	0
5	Chic	Solid	BR	Mid-Atlantic	2	249	Medium1b	28,854	774	3,268	369	0
5	Chic	Solid	BR	South	2	262	Medium1b	28,451	761	2,269	371	0
5	Chic	Solid	BR	Mid-Atlantic	3	187	Medium1b	28,237	. 580	1,122	. 0	0
5	Chic	Solid	BR	South	3	196	Medium1b	27,751	580	1,083	0	0
5	Chic	Solid	BR	Mid-Atlantic	1	24	Medium2	41,467	1,570	1,714	1,483	0
5	Chic	Solid	BR	South	1	73	Medium2	41,417	1,772	1,838	1,786	0
5	Chic	Solid	BR	Mid-Atlantic	2	295	Medium2	40,767	794	1,744	397	0
5	Chic	Solid	BR	South	2	880	Medium2	40,467	787	. 1,772	407	0
5	Chic	Solid	BR	Mid-Atlantic	3	194	Medium2	40,132	580	1,133	1 0	0
5	Chic	Solid	BR	South	3	580	Medium2	39,743	580	1,092	0	0
5 .	Chic	Solid	BR	Mid-Atlantic	1	. 37	Medium2	41,915	2,067	1,990	2,180	0
5	Chic	Solid	BR	South	1	, 49	Medium2	42,929	3,340	2,766	3,982	0
5	Chic	Solid	BR	Mid-Atlantic	2	442	Medium2	40,791	821	4,249	435	0
5	Chic	Solid	BR	South	2	587	Medium2	40,485	805	2,779	432	0
5	Chic	Solid	BR	Mid-Atlantic	3	292	Medium2	40,132	580	1,133	0	0
5	Chic	Solid	BR	South	3	387	Medium2	39,743	580	1,092	0	. 0
5	Chic	Solid	LA	Midwest	1	1	Large1	59,137	2,901	1,123	4,426	0
5	Chic	Solid	LA	South	1	. 2	Largel	52,774	2,430	1,457	3,441	0
5	Chic	Solid	LA	Midwest	2	41	Large1	58,186	875	1,235	660	. 0
5	Chic	Solid	LA	South	2	76	Large1	51,323	821	1,315	545	0

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Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
5	Chic	Solid	LA	Midwest	3	46	Large1	57,840	580	439	0	. (
5	Chic	Solid	LA	South	3	86	Large1	50,843	580	412	0	(
5	Chic	Solid	LA	Midwest	1.	" 1	Large1	65,120	15,651	4,798	28,125	(
5	Chic	Solid	LA	South	1	2	Large1	61,940	12,589	7,086	21,728	
5	Chic	Solid	LA	Midwest	2	61	Large1	58,227	962	2,370	822	. 0
·5	Chic	Solid	LA ·	South	2	51	Largel	51,387	892	3,330	674	
5	Chic	Solid	LA	Midwest	3	69	Large1	57,840	580	439	0	0
5	Chic	Solid	LA	South	3	58	Large1	50,843	580	412	0	0
5	Chic	Solid	LA	Midwest	1	0	Large2	259,389	10,799	4,442	19,106	0
5 .	Chic	Solid	LA	South	1	0	Large2	158,261	6,153	4,120	10,143	0
5	Chic	Solid	LA	Midwest	2	9	Large2	254,878	1,187	3,101	1,239	0
5	Chic	Solid	LA	South	- 2	24	Large2	153,681	1,076	2,848	1,004	0
5	Chic	Solid	LA	Midwest	3	10	Large2	254,386	. 580	1,481	0	0
5	Chic	Solid	LA	South	3 .	27	Large2	152,971	580	1,012	0	0
5	Chic	Solid	LA	Midwest	1	0	Large2	285,727	66,923	20,617	123,431	0
5	Chic	Solid	LA	South	1	0	· Large2	185,877	36,762	21,080	65,239	0
5	Chic	Solid	LA	Midwest	2	14	Large2	254,898	1,230	4,751	1,319	0
5	Chic	Solid	LA	South	2	16	Large2	153,712	1,111	5,955	1,067	0
5	Chic	Solid	LA	Midwest	3	16	Large2	254,386	580	1,481	0	0
5	Chic	Solid	LA	South	3 ·	18	Large2	152,971	580	1,012	0	0
5	Chic	Solid	LA	Midwest	1	4	Medium1a	8,268	895	272	697	0
5	Chic	Solid	LA	South	_11	· 5	Mediumla	6,146	784	292	478	0
5	Chic	Solid	LA	Midwest	2	34	Medium1a	8,187	722	317	376	0
5	Chic	Solid	LA	South	2	47	Medium1a	6,067	696	307	321	0
5	Chic	Solid	LA	Midwest	3	18	Medium1a	7,913	580	166	0	0
5	Chic	Solid	LA	South	3	26	Mediumla	5,700	580	159	0	- 0
5	Chic	Solid	LA	Midwest	1	6	Medium1a	9,081	2,626	771	3,914	0
5	Chic	Solid	LA	South	1	4	Medium1a	7,157	1,905	913	2,495	0
5	Chic	Solid	LA	Midwest	2		Mediumla	8,203	757	499	439	0

					Ta	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуг. гес.	5yr. rec.
5	Chic	Solid	LA	South	2	31	Mediumla	6,092	724	571	371	0
5	Chic	Solid	LA	Midwest	3	28	Mediumla	7,913	580	166	0	0
5	Chic	Solid	LA	South	3	17	Mediumla	5,700	580	159	0	0
5	Chic	Solid	LA	Midwest	1	2	Mediumlb	11,362	1,017	333	924	0
5	Chic	Solid	LA	South	1	4	Mediumlb	8,384	863	338	621	0
5	Chic	Solid	LA	Midwest	2	22	Mediumlb	11,224	722	412	376	0
5	Chic	Solid	LA	South	2	31	Mediumlb	8,234	696	368	321	0
5	Chic	Solid	LA	Midwest	3	12	Medium1b	10,950	- 580	192	0	0
5	Chic	Solid	LA	South	3	17	Medium1b	7,867	580	161	0	0
5	Chic	Solid	LA	Midwest	1	4	Medium1b	12,489	3,418	1,025	5,387	0
5	Chic	Solid	LA	South	1	2	Mediumlb	9,787	2,417	1,199	3,419	0
5	Chic	Solid	LA	Midwest	2	33	Medium1b	11,240	757	639	439	0
5	Chic	Solid	LA	South	2	21	Mediumlb	8,259	724	709	371	0
5.	Chic	Solid	LA	Midwest	3	18	Medium1b	10,950	580	192	0	0
5	Chic	Solid	LA	South	3	12	Medium1b	7,867	580	161	0	0
5	Chic	Solid	LA ·	Midwest	1	7	Medium2	20,828	1,390	470	1,618	0
5	Chic	Solid	LA	South	1	12	Medium2	17,759	1,194	572	1,216	. 0
5	Chic	Solid	LA	Midwest	2	58	Medium2	20,582	865	610	641	0
5	Chic	Solid	LA	South	2	106	Medium2	17,415	813	640	530	0
5	Chic	Solid	LA	Midwest	3	47	Medium2	20,240	580	221	. 0	0
5	Chic	Solid	LA	South	3	85	Medium2	16,943	580	212	0	0
5	Chic	Solid	LA	Midwest	1	11	Medium2	22,917	5,842	1,753	9,892	0
5	Chic	Solid	LA	South	1	8	Medium2	20,801	4,566	2,440	7,285	0
5	Chic	Solid	LA	Midwest	2	88	Medium2	20,621	949	1,043	797	0
5	Chic	Solid	LA	South	2	70	Medium2	17,477	881	• 1,373	654	0
5	Chic	Solid	LA	Midwest	3	70	Medium2	20,240	580	221	0	0
5	Chic	Solid	LA	South	3	57	Medium2	16,943	580	212	0	0
5	Chic	Liquid	LW	South	1	14	Largel	107,584	1,128	2,590	1,097	. 0
5	Chic	Liquid	LW	South	2	130		107,287	799	23,262	505	0

					Ta	ble 11-13.	(Continued	(E				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
5	Chic	Liquid	LW	South	· 3	71	Large1	106,827	580	7,046	0	Jy1. 100.
5	Chic	Liquid	LW	South	1	10	Large1	110,298	4,135	4,257	6,511	· · · · · · · · · · · · · · · · · · ·
5	Chic	Liquid	LW	South	2	<sup></sup> 87	Large1	107,325	841	20,209	580	
- 5	Chic	Liquid	LW	South	3	48	Large 1	106,827	580	2,745	0	
5	Chic	Liquid	LW	South	1	<sup>,</sup> 58	Medium2	10,233	603	362	153	
5	Chic	Liquid	LW	South	2	236	Medium2	10,221	590	1,232	130	
5	Chic	Liquid	LW	South	3	186	Medium2	9,949	580	530	0	
5	Chic	Liquid	LŴ	South	1	39	Medium2	10,347	729	432	380	
5	Chic	Liquid	LW	South	2	157	Medium2	10,259	632	1,126	205	
5	Chic	Liquid	LW	South	3	124	Medium2	9,949	580	350	0	
5a	Chic	Solid	BR	Mid-Atlantic	1	19	Large1	64,538	2,214	2,249	2,391	
5a	Chic	Solid	BR	South	1	59	Large1	65,498	2,453	2,432	2,740	
5a	Chic	Solid	BR	Mid-Atlantic	2	275	Large1	63,405	890	2,289	536	
5a	Chic	Solid	BR	South	2	850	Large1	63,932	851	2,158	496	
5a	Chic	Solid	BR	Mid-Atlantic	3	134	Largel	62,675	580	1,355	490	
5a	Chic	Solid	BR	South	3	416	Large1	63,142	580	1,268	0	
5a	Chic	Solid	BR	Mid-Atlantic	1	28	Large 1	65,240	3,036	2,680	3,541	
5a	Chic	Solid	BR	South	1	39	Largel	67,908	4,917	3,912		
5a	Chic	Solid	BR	Mid-Atlantic	2	412	Large1	63,427	916	6,327	6,189	<del></del>
5a	Chic	Solid	BR	South	2	567	Large1	63,964	884	3,538	573	
5a	Chic	Solid	BR	Mid-Atlantic	3	202	Large1	62,675	580	1,355	543	
5a	Chic	Solid	BR	South	3	278	Large1	63,142	580		0	
5a	Chic	Solid	BR	Mid-Atlantic	1	3	Large2	168,396	4,878	1,268	0	
5a	Chic	Solid	BR	South	1	<sup>-</sup> 13	Large2	155,678		4,342	6,120	
5a	Chic	Solid	BR	Mid-Atlantic	2	53	Large2	165,119	5,064 1,047	4,659	6,395	
5a	Chic	Solid	BR	South	2	181	Large2	151,693		3,439	756	
5a	Chic	Solid		Mid-Atlantic	3	21	Large2	164,255	988 580	3,248	688	
5a	Chic	Solid	BR	South	3	88	Large2	150,769		2,049	. 0	
5a	Chic	Solid		Mid-Atlantic	1		Large2	170,244	580 7,038	1,927 5,476	9,144	· · · · · · · · · · · · · · · · · · ·

					Tal	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
5a	Chic	Solid	BR	South	1	8	Large2	161,445	10,963	8,201	14,653	0
5a	Chic	Solid	BR	Mid-Atlantic	2	79	Large2	165,162	1,097	10,330	827	0
5a	Chic	Solid	BR	South	2	120	Large2	151,736	1,033	5,286	751	0
5a	Chic	Solid	BR	Mid-Atlantic	3	32	Large2	164,255	580	2,049	0	0
5a	Chic	Solid	BR	South	3	59	Large2	150,769	580	1,927	0	0
5a	Chic	Solid	BR	Mid-Atlantic	1	43	Medium1a	21,127	1,075	1,351	791	0
5a	Chic	Solid	BR	South	1	102	Medium1a	20,967	1,172	1,383	946	0
5a	Chic	Solid	BR	Mid-Atlantic	2	362	Medium1a	20,831	747	1,362	331	0
5a	Chic	Solid	BR	South	2	858	Mediumla	20,547	736	1,382	336	0
5a	Chic	Solid	BR	Mid-Atlantic	3	271	Medium1a	20,239	580	1,043	0	0
5a	Chic	Solid	BR	South	3	643	Mediumla	19,872	580	992	0	0
5a	Chic	Solid	BR	Mid-Atlantic	1	. 65	Mediumla	21,351	1,324	1,488	1,139	0
5a	Chic	Solid	BR	South	1	68	Mediumla	21,717	1,950	1,844	2,036	0
5a	Chic	Solid	BR	Mid-Atlantic	2	542	Mediumla	20,856	774	2,481	369	0
.5a	Chic	Solid	BR	South	2	572	Mediumla	20,571	761	1,849	371	. 0
5a	Chic	Solid	BR	Mid-Atlantic	3	406	Medium1a	20,239	580	1,043	0	0
5a	Chic	Solid	BR	South .	3	429	Mediumla	19,872	580	992	0	0
5a	Chic	Solid	BR	Mid-Atlantic	1	20	Medium1b	29,305	1,274	1,539	1,069	0
5a	Chic	Solid	BR	South	1	47	Medium1b	29,076	1,410	1,614	1,279	0
5a	Chic	Solid	BR	Mid-Atlantic	2	166	Medium1b	28,830	747	1,559	331	. 0
5a	Chic	Solid	BR	South	2	394	Medium1b	28,427	736	1,614	336	0
5a	Chic	Solid	BR	Mid-Atlantic	3	124	Medium1b	28,237	580	1,122	0	0
5a	Chic	Solid	BR	South	3	295		27,751	580	1,083	0	0
5a	Chic	Solid	BR	Mid-Atlantic	1	30	<del> </del>	29,619	1,623	1,732	1,557	0
5a	Chic	Solid	BR	South	1	31		30,128	2,501	2,261	2,807	0
5a	Chic	Solid	BR	Mid-Atlantic	2	249		28,854	774	3,268	<del></del>	. 0
5a	Chic	Solid	BR	South	2	262		28,451	761	2,269	371	0
5a	Chic	Solid	BR	Mid-Atlantic	3	187		28,237	580	1,122	0	0
5a	Chic	Solid	BR	South	- 3	196	Medium1b	27,751	580	1,083	0	0

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		· · · · · · · · · · · · · · · · · · ·			Ta	ble 11-13.	(Continue	d)				•
Option	Animal	Type	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
5a	Chic	Solid	BR	Mid-Atlantic	1	24	Medium2	41,467	1,570	1,714	1,483	331.100.
5a	Chic	Solid	BR	South	1.	73	Medium2	41,417	1,772	1,838	1,786	0
5a	Chic	Solid	BR	Mid-Atlantic	2	295	Medium2	40,767	794	1,744	397	0
5a	Chic	Solid	BR	South	2	880	Medium2	40,467	787	1,772	407	. 0
5a .	Chic	Solid	BR	Mid-Atlantic	3	194	Medium2	40,132	580	1,133	0	0
5a	Chic	Solid	BR	South	3	580	Medium2	39,743	580	1,092	0	0
5a	Chic	Solid	BR.	Mid-Atlantic	1	- 37	Medium2	41,915	2,067	1,990	2,180	0
5a	Chic	Solid	BR	South	1	49	Medium2	42,929	3,340	2,766	3,982	
5a	Chic	Solid	BR	Mid-Atlantic	2	442	Medium2	40,791	821	4,249	435	0
5a .	Chic	Solid	BR	South	2	587	Medium2	40,485	805	2,779	432	0
5a	Chic	Solid	BR	Mid-Atlantic	3	292	Medium2	40,132	580	1,133	0	0
5a	Chic	Solid	BR	South	3	387	Medium2	39,743	580	1,092	0	. 0
5a	Chic	Solid	LA	Midwest	1	1	Large1	59,137	2,901	1,123	4,426	0
5a	Chic	Solid	LA	South	1	2	Large1	52,774	2,430	1,457	3,441	0
5a	Chic	Şolid	LA	Midwest	- 2	41	Large1	58,186	875	1,235	660	0
5a	Chic	Solid	LA	South	2	76	Large1	51,323	821	1,315	545	0
5a	Chic	Solid	LA	Midwest	3	46	Large1	57,840	580	439	0	· 0
5a	Chic	Solid	LA	South	3	<sup>-</sup> 86	Large1	50,843	580	412	0	0
5a	Chic	Solid	LA	Midwest	1	· 1	Large1	65,120	15,651	4,798	28,125	0
5a	Chic	Solid	LA	South	1	2	Large1	61,940	12,589	7,086	21,728	0
5a -	Chic	Solid	LA	Midwest	2	61	Large1	58,227	962	2,370	822	. 0
5a	Chic	Solid	LA	South	2	- 51	Large1	51,387	892	3,330	674	0
5a	Chic	Solid	LA	Midwest	3	69	Large1	57,840	580	439	0,4	0
5a	Chic	Solid	LA	South	3	58	Largel	50,843	580	412	0	0
5a	Chic	Solid	LA	Midwest	1	0	Large2	259,389	10,799	4,442	19,106	0
5a	Chic	Solid	LA	South	1	0	Large2	158,261	6,153	4,120	10,143	0
5a	Chic	Solid	LA	Midwest	2	9	Large2	254,878	1,187	3,101	1,239	0
5a -	Chic	Solid	LA	. South	2	- 24	Large2	153,681	1,076	2,848	1,004	0
5a	Chic	Solid	LA	Midwest	3	10	Large2	254,386	. 580	1,481	1,004	- 0

					Ta	ble 11-13. (	(Continued	)				
Option	Animal	Турс	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
5a	Chic	Solid	LA	South	3	. 27	Large2	152,971	580	1,012	0	0
5a	Chic	Solid	LA	Midwest	1	0	Large2	285,727	66,923	20,617	123,431	. 0
5a	Chic	Solid	LA	South	1	0	Large2	185,877	36,762	21,080	65,239	0
5a	Chic	Solid	LA	Midwest	2	. 14	Large2	254,898	1,230	4,751	1,319	0
5a	Chic	Solid	LA	South	2	16	Large2	153,712	1,111	5,955	1,067	0
5a	Chic .	Solid	LA -	Midwest	3	16	Large2	254,386	580	1,481	0	0
5a	Chic	Solid	LA	South	3	18	Large2	152,971	580	1,012	0	0
5a	Chic	Solid	LA	Midwest	1	4	Medium1a	8,268	895	272	697	0
5a	Chic	Solid	LA	South	1	5	Mediumla	6,146	784	292	478	0
5a	Chic	Solid	LA	Midwest	2	34		8,187	722	317	376	0
5a	Chic	Solid	LA	South	2	47	Medium1a	6,067	696	307	321	0
5a	Chic	Solid	LA	Midwest	3	18		7,913	580	166	. 0	0
5a	Chic	Solid	LA	South	3	26	Medium1a	5,700	580	159	0	0
5a	Chic	Solid	LA	Midwest	1 -	6	Mediumla	9,081	2,626	771	3,914	0
5a	Chic	Solid	LA	South	1	4	Medium1a	7,157	1,905	913	2,495	0
5a	Chic	Solid	LA	Midwest	2	. 50		8,203	757	499	439	0
5a	Chic	Solid	LA	South	2	31	Medium1a	6,092	724	- 571	371	. 0
5a	Chic	Solid	LA	Midwest	3	28		7,913	580	166	0	0
5a	Chic	Solid	LA	South	3	17	Medium1a	5,700	580	159	0	0
5a-	Chic	Solid	LA	Midwest	1	2	Medium1b	11,362	1,017	333	924	0
5a	Chic	Solid	LA	South	1	. 4	Medium1b	8,384	.863	338	621	0
5a	Chic	Solid	LA	Midwest	2	22	Medium1b	11,224	722	412	376	0
5a	Chic	Solid	LA	South	2	31	Medium1b	8,234	696	368	321	0
5a .	Chic	Solid	LA	Midwest	3	12	Medium1b	10,950	580	192	· 0	. 0
5a	Chic	Solid	LA	South	3	17	Medium1b	7,867	580	161	0	. 0
5a	Chic	Solid	LA	Midwest	1	4	Medium1b	12,489	3,418	1,025	5,387	0
5a	Chic	Solid	LA	South	1	2	Medium1b	9,787	2,417	1,199	3,419	0
5a	Chic	Solid	LA	Midwest	2	33	Medium1b	11,240	757	639	439	0
5a	Chic	Solid	. LA	South	2	21	Medium1b	8,259	724	709	371	0

					Ta	ble 11-13.	(Continued	l)				
Option	·Animal	Type	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
5a	Chic	Solid	LA	Midwest	3	· '18	Medium1b	10,950	580	192	0	0
5a	Chic	Solid	LA	South	3	12	Medium1b	7,867	580	161	0	0
5a	Chic	Solid	LA	Midwest	1	. 7	Medium2	20,828	1,390	470	1,618	. 0
5a	Chic	Solid	LA	South	1	12	Medium2	17,759	1,194	572	1,216	0
5a	Chic	Solid	LA	Midwest	2 ·	58	Medium2	20,582	865	610	641	0
5a	. Chic	Solid	LA	South	2	106	Medium2	17,415	813	640	530	0
5a	Chic	Solid	LA	Midwest	3	47	Medium2	20,240	580	221	. 0	0
5a	Chic	Solid	LA	South	3	85	Medium2	16,943	580	212	0	0
5a	Chic	Solid	LA	Midwest	1	11	Medium2	22,917	5,842	1,753	9,892	0
5a	Chic	Solid	LA	South	1	8	Medium2	20,801	4,566	2,440	7,285	0
5a	Chic	Solid	LA	Midwest	2	. 88	Medium2	20,621	949	1,043	797	. 0
5a	Chic	Solid	LA	South	2	70	Medium2	17,477	881	1,373	654	0
5a	Chic	Solid	LA	Midwest	3	70	Medium2	20,240	580	221	0	0
5a	Chic	Solid	LA	South	3	· 57	Medium2	16,943	580	212	0	0
5a	Chic	Liquid	LW	South	1	14	Large1	1,053	1,128	460	1,097	0
5a	Chic	Liquid	LW	South	2	130	Large1	107,287	799	23,262	505	0
5a	Chic	Liquid	LW	South	3	71	Largel	106,827	580	136	0	0
5a	Chic	Liquid	LW	South	1	10	Large1	3,767	4,135	2,126	6,511	0
5a	Chic	Liquid	LW	South	2	87	Large1	107,325	841	20,209	580	0
5a	Chic	Liquid	LW	South	3	48	Large1	106,827	580	136	0	0
5a	Chic	Liquid	LW	South	1 -	58	Medium2	415	603	166	153	0
5a	Chic	Liquid	LW	South	2	236	Medium2	10,221	590	1,232	130	0
5a	Chic	Liquid	LW	South	3	186	Medium2	9,949	580	133	0	0
5a		Liquid	LW	South	1	39	Medium2	529	729	236	380	0
5a	Chic	Liquid	LW	South	2	157	Medium2	10,259	632	1,126	205	0
5a	Chic	Liquid	LW	South	3	124	Medium2	9,949	580	133	0	0
7	Chic	Solid	BR	Mid-Atlantic	1	19	Largel	64,538	2,214	2,249	2,391	0
7	Chic	Solid	BR	South	1	59	Large1	65,498	2,453	2,432	2,740	0
7	Chic	Solid	BR	Mid-Atlantic	2	275	Large1	63,405	890	2,289	536	0

					Ta	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5уг. гес.
7	Chic	Solid	BR	South	2	850	Largel	63,932	851	2,158	496	0
7	Chic	Solid	BR	Mid-Atlantic	3	134	Large1	62,675	580	1,355	0	0
7	Chic	Solid	BR	South	3	416	Largel	63,142	580	1,268	0	0
7	Chic	Solid	BR	Mid-Atlantic	1	28	Large1	65,240	3,036	2,680	3,541	0
7	Chic	Solid	BR	South	1	39	Largel	67,908	4,917	3,912	6,189	0
7	Chic	Solid	BR	Mid-Atlantic	2	412	Largel	63,427	916	6,327	573	0
7	Chic	Solid	BR	South	2	567	Largel	63,964	884	3,538	543	0
7	Chic	Solid	BR	Mid-Atlantic	3	202	Largel	62,675	580	1,355	0	0
7	Chic	Solid	BR	South	3	278	Largel	63,142	-580	1,268	0	0
7	Chic	Solid	BR	Mid-Atlantic	1	3	Large2	168,396	4,878	4,342	6,120	0
7	Chic	Solid	BR	South	1	13	Large2	155,678	5,064	4,659	6,395	0
7	Chic	Solid	BR	Mid-Atlantic	2	53	Large2	165,119	1,047	3,439	756	0
7	Chic	Solid	BR	South	- 2	181	Large2	151,693	988	3,248	688	- 0
7	Chic	Solid	BR	Mid-Atlantic	3	_ 21	Large2	164,255	580	2,049	0	0
7	Chic	Solid	BR	South	· 3	88	Large2	150,769	580	1,927	0	0
7	Chic	Solid	BR	Mid-Atlantic	1 .	4	Large2	170,244	7,038	5,476	9,144	0
7	Chic	Solid	BR	South	1 .	8	Large2	.161,445	10,963	8,201	14,653	0
7	Chic	Solid	BR.	Mid-Atlantic	2	79	Large2	165,162	1,097	10,330	827	0
7	Chic	Solid	BR	South	2	120	Large2	151,736	1,033	5,286	751	0
7	Chic	Solid	BR	Mid-Atlantic	3	32	Large2	164,255	580	2,049	0	0
7	Chic	Solid	BR	South	3	59	Large2	150,769	580	1,927	0	. 0
7	Chic	Solid	BR	Mid-Atlantic	1	43	Medium1a	21,127	1,075	1,351	791	0
7	Chic	Solid	BR	South -	1	102	Medium1a	20,967	1,172	1,383	946	0
. 7	Chic	Solid	BR	Mid-Atlantic	2	362	Medium1a	20,831	747	1,362	. 331	. 0
7	Chic	Solid	BR	South	2	858	Medium1a	20,547	736	1,382	336	0
7	Chic	Solid	BR	Mid-Atlantic	3.	271	Medium1a	20,239	580	1,043	0	0
7_	Chic	Solid	BR	South	3	643	Medium1a	19,872	580	992	0	0
7	Chic	Solid	BR	Mid-Atlantic	1	65	Medium1a	21,351	1,324	1,488	1,139	0
7	Chic	Solid	BR	South	1	68	Medium1a	21,717	1,950	1,844	2,036	0

Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
7	Chic	Solid	BR	Mid-Atlantic	2	-542	Medium1a	20,856	774	2,481	369	Jyr. rec.
7	Chic -	Solid	BR	South	2	-572	Médium1a	20,571	761	1,849	371	
7	Chic	Solid	BR	Mid-Atlantic	3	406	Medium1a	20,239	580	1,043	0	· · · · · · · · · · · · · · · · · · ·
7	Chic	Solid	BR	South	3	429	Medium1a	19,872	580	992	0	
7	Chic	Solid	BR	Mid-Atlantic	1	20	Medium1b	29,305	1,274	1,539	1,069	
7	Chic	Solid	BR	South	1	47		29,076	1,410	1,614	1,279	<del></del>
7.	Chic	Solid	BR	Mid-Atlantic	2	·166		28,830	747	1,559	331	
7	Chic	Solid	BR	South	2	394		28,427	736	1,614	336	
7	Chic	Solid	BR	Mid-Atlantic	3	124		28,237	580	1,122	0	
7	Chic	Solid	BR	South	3	295	Medium1b	27,751	580	1,083	0	
7	Chic	Solid	BR	Mid-Atlantic	1	30		29,619	1,623	1,732	1,557	<del></del>
7	Chic	Solid	BR	South	1	31	Medium1b	30,128	2,501	2,261	2,807	<del></del>
7	Chic	Solid	BR	Mid-Atlantic	2	249	Medium1b	28,854	774	3,268	369	
7	Chic	Solid	BR	South	2	262	Medium1b	28,451	761	2,269	371	· · · · · · · · · · · · · · · · · · ·
7	Chic	Solid	BR	Mid-Atlantic	1 3	187	Medium1b	28,237	580	1,122		
7	Chic	Solid	BR	South	3	196	Medium1b	27,751	580	1,083	0	•
7	Chic	Solid	BR	Mid-Atlantic	1	24	Medium2	41,467	1,570	1,714	1,483	
7	Chic	Solid	BR <sup>‡</sup>	South	1	73	Medium2	41,417	1,772	1,838		
7	Chic	Solid	BR <sup>1</sup>	Mid-Atlantic	2	295	Medium2	40,767	794	1,744	1,786 397	
7	Chic	Solid	BR ·	South	2	880	Medium2	40,467	787	1,772	407	
7	Chic	Solid	BR	Mid-Atlantic	3	194	Medium2	40,132	580	1,133	0	
7	Chic	Solid	BR	South	3	580	Medium2	39,743	580	1,092	0	
7	Chic	Solid	BR	Mid-Atlantic	1	37	Medium2	41,915	2,067	1,990	2,180	
7	Chic	Solid	BR	South	1	49	Medium2	42,929	3,340	2,766	3,982	
7 .	Chic	Solid	BR	Mid-Atlantic	2	442	Medium2	40,791	821	4,249	435	
7	Chic	Solid	BR	South	2	587	Medium2	40,485	805	2,779	433	····
7	Chic	Solid	BR	Mid-Atlantic	3	292	Medium2	40,132	580	1,133	0	
7	Chic	Solid	BR	South	3	387	Medium2	39,743	580	1,092	0	
7	Chic	Solid	LA	Midwest	1	1	Largel	59,137	2,901	1,123	4,426	

					Tal	ble 11-13. (	Continued	)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
7	Chic	Solid	LA	South	1	2	Largel	52,774	2,430	1,457	3,441	0
7	Chic	Solid	LA	Midwest	2	41	Largel	58,186	875	1,235	660	0
7	Chic	Solid	LA	South	2	76	Largel	51,323	821	1,315	545	0
7	Chic	Solid	LA	Midwest	3	46	Largel	57,840	580	439	0	0
7	Chic	Solid	LA	South	3	86	Largel	50,843	580	412	0	0
7	· Chic	Solid	LA	Midwest	1	1	Large1	65,120	15,651	4,798	28,125	0
7	Chic	Solid	LA	South	1	. 2	Largel	61,940	12,589	7,086	21,728	0
7	Chic	Solid	LA	Midwest	2	61	Large 1	58,227	962	2,370	822	0
7	Chic	Solid	LA	South	2	51	Large1	51,387	892	3,330	674	0
7	Chic	Solid	LA	· Midwest	3	69	Large1	57,840	580	439	0	0
7	Chic	Solid	LA	South	3	58	Large1	50,843	580	412	0	0
7.	Chic	Solid	LA	Midwest	1	0	Large2	259,389	10,799	4,442	19,106	0
7	Chic	Solid	LA	South	1	0	Large2	158,261	6,153	4,120	10,143	0
7	Chic	Solid	LA	Midwest	. 2	9	Large2	254,878	1,187	3,101	1,239	0
7	Chic	Solid	LA	South	2	24	Large2	153,681	1,076	2,848	1,004	0
7	Chic	Solid	LA	Midwest	3	10	Large2	254,386	580	1,481	0	0
7	Chic	Solid	. LA	South	3	27	Large2	152,971	580	1,012	0	. 0
7	Chic	Solid	LA	Midwest	1 1	0	Large2	285,727	66,923	20,617	123,431	0
7	Chic	Solid	LA	South	1 1	0	Large2	185,877	36,762	21,080	65,239	0
7	Chic	Solid	LA	Midwest	2	14	Large2	254,898	1,230	4,751	1,319	0
7	Chic	Solid	LA	South	1 2	16	Large2	153,712	1,111	5,955	1,067	0
7	Chic	Solid	LA	Midwest	1 3	16	Large2	254,386	580	1,481	0	0
7	Chic	Solid	LA	South	1 3	18	Large2	152,971	580	1,012	0	0
7	Chic	Solid	LA	Midwest	1	4	Medium1a	8,268	895	272	697	0
7	Chic	Solid	LA	South	1	5	Medium1a	6,146	784	292	478	. 0
7	Chic	Solid	LA	Midwest	2	34	Medium1a	8,187	722	317	376	0
7	Chic	Solid	LA	South	2	47	Medium1a	6,067	696	307	321	0
7	Chic	Solid	LA	Midwest	3	18	Medium1a	7,913	580	166	0	. 0
7	Chic	Solid	LA	South	3	26	Medium1a	5,700	580	159	0	0

Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
7	Chic	Solid	LA	Midwest	1	. 6	Medium1a	9,081	2,626	771	3,914	3y1.100.
7	Chic	Solid	LA	South	1	4	Medium1a	7,157	1,905	913	2,495	
7	Chic	Solid	$\mathbf{L}\mathbf{A}^{i}$	Midwest	· 2	50	Mediumla	8,203	757	499	439	
7	Chic	Solid	LA	South	2	31	Mediumla	6,092	724	571	371	
7	Chic	Solid	LA <sup>'</sup>	Midwest	3	28	Mediumla	7,913	580	166	0	
7	Chic	Solid	LA	South	3	17	Mediumla	5,700	580	159	0	
7	Chic	Solid	LA <sup>'</sup>	Midwest	1	.2	Medium1b	11,362	1,017	333	924	
7	Chic	Solid	LA <sup>t</sup>	South	1	· 4	Medium1b	8,384	863	338	621	
7	Chic	Solid	LA	Midwest	2	22	Medium1b	11,224	722	412	376	
7	Chic	Solid	LA	South	2	31	Medium1b	8,234	696	368	321	
7.	Chic	Solid	LA'	Midwest	3	12	Medium1b	10,950	580	192	0	<del> </del>
7	Chic	Solid	LA	South	3°	17	Medium1b	7,867	580	161	0	
7.	Chic	Solid	LA	Midwest	1	4	Medium1b	12,489	3,418	1,025	5,387	
7	Chic	Solid	LA	South	1	2	Mediumlb	9,787	2,417	1,199	3,419	
7	Chic	Solid	LA	Midwest	2	33	Medium1b	11,240	757	639	439	
7	Chic	Solid	LA	South	2	21	Medium1b	8,259	724	709	371	
7	Chic	Solid	LA	Midwest	3		Mediumlb	10,950	580	192	0	<del></del>
7	Chic .	Solid	LA	South	3	12	Medium1b	7,867	580	161	0	·
7	Chic	Solid	LA	Midwest	1	7	Medium2	20,828	1,390	470	1,618	****
7	Chic	Solid	LA	South	1	12	Medium2	17,759	1,194	572	1,216	
7	Chic	Solid	LA	Midwest	2	58	Medium2	20,582	865	610	641	
7	Chic	Solid	- LA	South	2	106	Medium2	17,415	813	640	530	
7	Chic	Solid	LA	Midwest	. 3	47	Medium2	20,240	580	221	0	
7	Chic	Solid	LA	South	3	85	Medium2	16,943	580	212	0	
7	Chic	Solid	LA	Midwest	1 .	11	Medium2	22,917	5,842	1,753	9,892	
7	Chic	Solid	LA	South	1.	8	Medium2	20,801	4,566	2,440	7,285	<del> :</del>
7	Chic	Solid	LA	Midwest	2	88	Medium2	20,621	949	1,043	7,283	
7	Chic	Solid	LA	South	2		Medium2	17,477	881	1,373		•
7	Chic	Solid	LA	Midwest	3	-	Medium2	20,240	580	221	654	

					Ta	ble 11-13. (	Continued	1)				
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yr. rec.	5yr. rec.
7	Chic	Solid	LA	South	3	57	Medium2	16,943	580	212	0	0
7	Chic	Liquid	LW	South	1	14	Large1	1,053	1,128	460	1,097	0
7	Chic	Liquid	LW	South	2	130	Largel	107,287	799	23,262	505	0
7	Chic	Liquid	LW	South	3	71	Large1	106,827	580	7,046	0	0
7	Chic	Liquid	LW	South	1	10	Large1	3,767	4,135	2,126	6,511	0
7	Chic	Liquid	LW	South	2	87	Largel	107,325	841	20,209	580	0
7	Chic	Liquid	LW	South	3	48	Largel	106,827	580	2,745	0	0
7	Chic	Liquid	LW	South	1	58	Medium2	415	603	166	153	. 0
7	Chic	Liquid	LW	South	2	236	Medium2	- 10,221	· 590	1,232	130	0
7	Chic	Liquid	LW	South	3	186	Medium2	9,949	580	530	0	0
7	Chic	Liquid	LW	South	1	39	Medium2	529	729	236	380	- 0
7	Chic	Liquid	LW	South	2	157	Medium2	10,259	632	1,126	205	0
7	Chic	Liquid	LW	South	3	124	Medium2	9,949	580	350	0	0

Table 11-14. Regulatory Compliance Costs for the Turkey (SL, slaughter) Operations

Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	G., 3.1	731 4			
1	Turk	Solid	SL	Mid-Atlantic	oatogory 1			Capital	Fixed	O&M	3yrrec	5yrrec
1	Turk	Solid	SL	Mid-Atlantic	1	. 30	Medium1a	7,842	1,483	1,755	1,380	0
1	Turk	Solid	SL	Mid-Atlantic  Mid-Atlantic	1	20	Medium1b	12,627	2,103	2,307	2,248	0
1	Turk	Solid	SL	Mid-Atlantic	1	8	Medium2	17,863	2,781	2,802	3,197	. 0
1	Turk	Solid	SL	Midwest	1	. 5	Large1	37,378	5,266	4,674	6,676	0
1	Turk	Solid	SL	Midwest	1	26	Mediumla	18,125	1,314	1,224	1,032	0
1	Turk	Solid	SL	Midwest	1	. 17	Medium1b	30,109	1,818	1,572	1,660	0
1	Turk	Solid	SL	Midwest	1	. 7	Medium2	44,537	2,424	2,022	2,416	0
1	Turk	Solid	SL	Mid-Atlantic	2	200	Large1	153,603	7,003	6,060	8,850	0
	Turk	Solid	SL	Mid-Atlantic	2	288	Mediumla	7,780	1,401	1,762	1,266	0
1	Turk	Solid	SL	Mid-Atlantic		192	Medium1b	12,098	1,401	2,416	1,266	0
1	Turk	Solid	SL		2	127	Medium2	16,986	1,619	2,986	1,571	0
1	Turk	Solid	SL	Mid-Atlantic	2	90	Large1	35,073	2,239	5,167	2,439	0
1	Turk	Solid	SL	Midwest Midwest	2	247	Medium1a	18,215	1,434	1,280	1,182	0
$\frac{1}{1}$	Turk	Solid	SL		2	165	Medium1b	29,798	1,404	1,748	1,145	0
1	Turk	Solid	SL	Midwest	2	113	Medium2	43,935	1,623	2,367	1,418	0
1	Turk	Solid		Midwest	2	124	Large1	150,038	2,261	8,147	2,403	0
1	Turk	Solid	SL	Mid-Atlantic	3	123	Medium1a	6,637	580	1,297	0	0
1	Turk	Solid	SL	Mid-Atlantic	3	82	Medium1b	10,955	580	1,562	0	0
1	Turk	Solid	SL	Mid-Atlantic	3	59	Medium2	15,679	580	1,742	. 0	0
1			SL	Mid-Atlantic	3	60	Large1	33,290	580	2,442	0	0
<del>-                                    </del>	Turk	Solid	SL ·	Midwest	3	106	Medium1a	17,240	580	861	0	0
1	Turk	Solid	SL	Midwest	3	! 70	Medium1b	28,845	580	976	0	0
1	Turk	Solid	SL	Midwest	3	52	Medium2	42,817	580	1,146	0	0
1	Turk	Solid	- SL	Midwest	3	. 83	Large1	148,300	580	3,058	0	0
2.	Turk	Solid	SL	Mid-Atlantic	1	18	Medium1a	11,037	5,716	3,718	7,306	0
2	Turk	Solid	SL	Mid-Atlantic	1	12	Medium1b	18,016	9,242	5,617	12,243	0
2	Turk	Solid	SL	Mid-Atlantic	1	5	Medium2	25,653	13,100	7,586	17,644	0
2	Turk	Solid	SL	Mid-Atlantic	1	3	Large1	54,117	27,239	14,953	37,438	0

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Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуггес	5yrrec
2	Turk	Solid	SL	Midwest	1	16	Mediumla	22,410	7,013	3,856	8,137	0
2	Turk	Solid	SL	. Midwest	1	10	Medium1b	37,336	11,429	6,010	13,644	0
2	Turk	Solid	SL	Midwest	1	: 4,	Medium2	55,305	16,747	8,635	20,273	0
2	Turk	Solid	SL	Midwest	1	4	Largel	191,109	56,888	29,093	76,673	0
2	Turk	Solid	SL	Mid-Atlantic	2	- 173	Mediumla	7,929	. 1,599	4,331	1,543	0
2	Turk	Solid	SL	Mid-Atlantic	2	. 115	Mediumlb	12,220	1,563	7,131	1,493	0
2	Turk	Solid	SL	Mid-Atlantic	2	76	Medium2	17,116	1,790	9,830	1,811	0
2	Turk	Solid	SL	Mid-Atlantic	2	54	Large1	35,423	2,699	19,871	3,082	0
2	Turk	Solid	SL	Midwest	2	148	Medium1a	18,342	1,603	2,287	1,392	0
2	Turk	Solid	SL	Midwest	2	99	Medium1b	29,921	1,567	3,152	1,347	0
2	Turk	Solid	SL	Midwest	2	68	Medium2	44,064	1,795	4,303	1,632	0
2	Turk	Solid	SL	Midwest	2 ·	74	Large1	150,389	2,727	13,404	3,036	0
2	Turk	Solid	SL	Mid-Atlantic	3	: 74	Medium1a	6,637	580	1,297	. 0	0
2	Turk	Solid	SL	Mid-Atlantic	3 .	49	Medium1b	10,955	580	1,562	0	0
2	Turk	Solid	SL	Mid-Atlantic	3	35	Medium2	15,679	580	1,742	0	0
2	Turk	Solid	SL	Mid-Atlantic	3	36	Large 1	33,290	580	2,442	0	0
2	Turk	Solid	SL	Midwest	3	. 64	Mediumla	17,240	580	861	. 0	0
2	Turk	Solid	SL	Midwest	3	42	Medium1b	28,845	580	976	0	0
2	Turk	Solid	SL	Midwest	3	31	Medium2	42,817	580	1,146	0	0
2	Turk	Solid	SL	Midwest	3	50	Largel	148,300	580	3,058	0	0
3	Turk	Solid	SL	Mid-Atlantic	1	3	Medium1a	10,925	1,483	2,759	1,380	3,082
3	Turk	Solid	SL	Mid-Atlantic	1	2	Medium1b	16,881	2,103	3,334	2,248	
3	Turk	Solid	SL	Mid-Atlantic	1	1	Medium2	23,397	2,781	3,854	3,197	3,082
3	Turk	Solid	SL	Mid-Atlantic	11	0	Large1	47,685				
3	Turk	Solid	SL	Midwest	1	- 3	Medium1a	21,619				3,082
3	Turk	Solid	SL	Midwest	1	2	Medium1b	34,915			1,660	
3	Turk	Solid.	SL	Midwest	1	1	Medium2	50,922	2,424			
3	Turk	Solid	SL	Midwest	1	1	Large1	171,906		7,505	8,850	
3	Turk	Solid	SL	Mid-Atlantic	2	28	Mediumla	10,864	1,401	2,766	1,266	3,082

						DIC TIPIT.	(Continued)			4		,
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yrrec	5yrrec
3	Turk	Solid	SL	Mid-Atlantic	2	: 18	Medium1b	16,351	1,401	3,443	1,266	3,082
3	Turk	Solid	SL	Mid-Atlantic	2	12	Medium2	22,520	1,619	4,038	1,571	3,082
3	Turk	Solid	SL	Mid-Atlantic	2	≟ 9	Large1	45,379	2,239	6,313	2,439	3,082
3	Turk	Solid	SL	Midwest	2	27	Medium1a	21,710	1,434	2,431	1,182	3,082
3	Turk	Solid	SL	Midwest	2	18	Medium1b	34,604	1,404	2,925	1,145	3,082
3	Turk	Solid	SL	Midwest	2	12	Medium2	50,319	1,623	3,576	1,418	3,082
3	Turk	Solid	SL	Midwest	2	14	Large1	168,341	2,261	9,592	2,403	3,082
3	Turk	Solid	SL	Mid-Atlantic	3	12	'Medium1a	9,721	580	2,300	2,403	3,082
3	Turk	Solid	SL	Mid-Atlantic	3	8	Medium1b	15,209	580	2,588	0	3,082
3	Turk	Solid	SL	Mid-Atlantic	3.	. 6	Medium2	21,213	580	2,794	. 0	3,082
3	Turk	Solid	SL	Mid-Atlantic	3	. 6	Large1	43,597	580	3,589	0	3,082
3	Turk	Solid	SL	Midwest	3	. 12	Medium1a	20,734	580	2,012	0	3,082
3	Turk	Solid	SL	Midwest	3	. 8	Medium1b	33,651	580	2,153	0	3,082
3	Turk	Solid	SL	Midwest	3	6	Medium2	49,202	580	2,354	0	3,082
3	Turk	Solid	SL	Midwest	3	. 9	Large1	166,603	580	4,503	0	3,082
3	Turk	Solid	SL	Mid-Atlantic	1	. 4	Medium1a	14,121	5,716	4,721	7,306	3,082
3	Turk	Solid	SL ;	Mid-Atlantic	1 ·	. 3	Medium1b	22,270	9,242	6,643	12,243	3,082
3	Turk	Solid	SL	Mid-Atlantic	1	. 1	Medium2	31,186	13,100	8,638	17,644	3,082
3	Turk	Solid	SL	Mid-Atlantic	1 .	1	Largel	64,423	27,239	16,099	37,438	3,082
3	Turk	Solid	SL	Midwest	11	. 4	Medium1a	25,904	7,013	5,007	8,137	3,082
3	Turk	Solid	SL	Midwest	1	. 3	Medium1b	42,142	11,429	7,187	13,644	3,082
3	Turk	Solid	SL	Midwest	1	. 1	Medium2	61,690	16,747	9,843	20,273	3,082
3	Turk	Solid	SL	Midwest	1	1	. Large1	209,412	56,888	30,538	76,673	3,082
3	Turk	Solid	SL	Mid-Atlantic	2	41	Medium1a	11,013	1,599	5,334	1,543	3,082
3	Turk	Solid	SL	Mid-Atlantic	2	28	Medium1b	16,474	1,563	8,157	1,493	3,082
3	Turk	Solid	SL	Mid-Atlantic	2	18	Medium2	22,649	1,790	10,882	1,811	3,082
3	Turk	Solid	SL	Mid-Atlantic	2	13	Large1	45,729	2,699	21,017	3,082	3,082
3	Turk	Solid	SL	Midwest	2	. 41	Medium1a	21,837	1,603	3,439	1,392	3,082
3	Turk	Solid	SL	Midwest	2	27	Medium1b	34,726	1,567	4,330	1,347	3,082

Table 11-14. (Continued)

Ontion	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуггес	5уггес
Option												
3	Turk	Solid	SL	Midwest	2	19	Medium2	50,449	1,795	5,511	1,632	3,082
3	Turk	Solid	SL	Midwest	2	20	Largel	168,691	2,727	14,849	3,036	3,082
3	Turk	Solid	SL	Mid-Atlantic	3	18	Mediumla	9,721	580	2,300	0	3,082
3	Turk	Solid	SL	Mid-Atlantic	3	- 12	Medium1b	15,209	580	2,588	0	3,082
3	Turk	Solid	SL	Mid-Atlantic	3	8	Medium2	21,213	580	2,794	0	3,082
3	Turk	Solid	SL	Mid-Atlantic	3	. 9	Large1	43,597	580	3,589	0	3,082
3	Turk	Solid	SL	Midwest	3	17	Medium1a.	20,734	580	2,012	0	3,082
3	Turk	Solid	SL	Midwest	3	- 12	Medium1b	33,651	580	2,153	0	3,082
3	Turk	Solid	SL	Midwest	3	9	Medium2	49,202	580	2,354	. 0	3,082
3	Turk	Solid	SL	Midwest	3	14	Largel	166,603	580	4,503	0	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	1	. 9	Mediumla	7,842	1,483	1,755	1,380	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	11	. 6	Medium1b	12,627	2,103	2,307	2,248	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	1	. 2	Medium2	17,863	2,781	2,802	3,197	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	1	. 2	Largel	37,378	5,266	4,674	6,676	3,082
3.1	Turk	Solid	SL	Midwest	1	· · · · · 8	Medium1a	18,125	1,314	1,224	1,032	3,082
3.1	Turk	Solid	SL	Midwest	1	. 5	Medium1b	30,109	1,818	1,572	1,660	3,082
3.1	Turk	Solid	SL	Midwest .	1	. 2	Medium2	44,537	2,424	2,022	2,416	3,082
3.1	Turk	Solid	SL	Midwest	1	2	Largel	153,603	7,003	6,060	8,850	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	2	88	Medium1a	7,780	1,401	1,762	1,266	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	2	58	Medium1b	12,098	1,401	2,416	1;266	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	2	39	Medium2	16,986	1,619	2,986	1,571	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	2	27	Largel	35,073	2,239	5,167	2,439	3,082
3.1	Turk	Solid	SL	Midwest	2	. 72	Medium1a	18,215	1,434	1,280	1,182	3,082
3.1	Turk	Solid	SL	Midwest	2	48	Medium1b	29,798	1,404	1,748	1,145	3,082
3.1	Turk	Solid	SL	Midwest	2	. 33	Medium2	43,935	1,623	2,367	1,418	3,082
3.1	Turk	Solid	SL	Midwest	2	. 36	Large1	150,038	2,261	8,147	2,403	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	3	37	Medium1a	6,637	580	1,297	0	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	3	25		10,955		1,562	. 0	<del></del>
3.1	Turk	Solid	SL	Mid-Atlantic	3	18	<del></del>	15,679			0	<del></del>

					. 14	Die 11-14.	(Continued)			•		
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	О&М	3yrrec	- 5yrrec
3.1	Turk	Solid	SL	Mid-Atlantic	3	18	Large1	33,290	580	2,442	0	3,082
3.1	Turk	Solid	SL	Midwest	3	31	Medium1a	17,240	580	861	0	3,082
3.1	Turk	Solid	SL	Midwest	3	20	Medium1b	28,845	580	976	0	3,082
3.1	Turk	Solid	SL	Midwest	3	15	Medium2	42,817	580	1,146	0	3,082
3.1	Turk	Solid	SL	Midwest	3	24	Large1	148,300	580	3,058	- 0	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	1	14	Medium1a	11,037	5,716	3,718	7,306	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	1	9	Medium1b	18,016	9,242	5,617	12,243	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	1	4	Medium2	25,653	13,100	7,586	17,644	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	1	2	Large1	54,117	27,239	14,953	37,438	3,082
3.1	Turk	Solid	SL	Midwest	1	11	Medium1a	22,410	7,013	3,856	8,137	3,082
3.1	Turk	Solid	SL	Midwest	1	. 7	Medium1b	37,336	11,429	6,010	13,644	3,082
3.1	Turk	Solid	SL	Midwest	1	3	Medium2	55,305	16,747	8,635	20,273	3,082
3.1	Turk	Solid	SL	Midwest	1	· 3	Large 1	191,109	56,888	29,093	76,673	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	2	131	Mediumla	7,929	1,599	4,331	1,543	
3.1	Turk	Solid	SL	Mid-Atlantic	2	88	Medium1b	12,220	1,563	7,131	1,493	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	2	58	Medium2	17,116	1,790	9,830	1,493	3,082 3,082
3.1	Turk	Solid	SL	Mid-Atlantic	2	- 41	Large 1	35,423	2,699	19,871	3,082	3,082
3.1	Turk	Solid	SL	Midwest	2	108	Medium1a	18,342	1,603	2,287	1,392	3,082
3.1	Turk	Solid	SL	Midwest	2	72	Medium1b	29,921	1,567	3,152	1,347	
3.1	Turk	Solid	SL	Midwest	2	49	Medium2	44,064	1,795	4,303	1,632	3,082
3.1	Turk	Solid	SL	Midwest	2	54	Large1	150,389	2,727	13,404		3,082
3.1	Turk	Solid	SL	Mid-Atlantic	3	56	Medium1a	6,637	580	1,297	3,036	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	3	37	Medium1b	10,955	580	1,562	0	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	3	27	Medium2	15,679	580	1,742	0	3,082
3.1	Turk	Solid	SL	Mid-Atlantic	3	27	Large1	33,290	580		0	3,082
3.1	Turk	Solid	SL	Midwest	3	46	Medium1a	17,240	580	2,442	0	3,082
3.1	Turk	Solid	SL	Midwest	3	30	Medium1b	28,845	580	861	0	3,082
3.1	Turk	Solid	SL	Midwest	3	23	Medium2			976	- 0	3,082
3.1	Turk	Solid	SL	Midwest	3	36	Large1	42,817	580	1,146	0	3,082
						301	Large1	148,300	580	3,058	0	3,082

		-			SELECTION OF THE SECOND OF		(Continued)	G4-1	72:1	0816	2	6
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуггес	5уггес
4	Turk	Solid	SL	Mid-Atlantic	1	3	Mediumla	10,925	1,875	9,011	1,380	3,082
4	Turk	Solid	SL	Mid-Atlantic	1	. 2	Medium1b	16,881	2,495	9,586	2,248	3,082
4	Turk	Solid	SL	Mid-Atlantic	1	1	Medium2	23,397	3,173	10,106	3,197	3,082
4	Turk	Solid	SL	Mid-Atlantic	1 -	0	Largel	47,685	5,658	12,072	6,676	3,082
4	Turk	Solid	SL	Midwest	1	3	Mediumla	21,619	1,706	8,628	1,032	3,082
4	Turk	Solid	SL	Midwest	1	2	Medium1b	34,915	2,210	9,001	1,660	3,082
4	Turk	Solid	SL	Midwest	1	1	Medium2	50,922	2,816	9,482	2,416	3,082
4	Turk	Solid	SL	Midwest	1	1	Large1	171,906	7,395	13,757	8,850	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	28	Medium1a	10,864	1,793	9,018	1,266	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	18	Mediumlb	16,351	1,793	9,695	1,266	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	12	Medium2	22,520	2,011	10,290	1,571	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	9	Largel	45,379	2,631	12,565	2,439	3,082
4	Turk	Solid	SL	Midwest	2	27	Medium1a	21,710	1,826	8,683	1,182	3,082
4	Turk	Solid	SL	Midwest	2	18	Medium1b	34,604	1,796	9,177	1,145	3,082
4	Turk	Solid	SL	Midwest	2	12	Medium2	50,319	2,015	9,828	1,418	3,082
4	Turk	Solid	SL	Midwest	2	14	Largel	168,341	2,653	15,844	2,403	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	12	Medium1a	9,721	972	8,552	0	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	8	Medium1b	15,209	972	8,840	0	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	6	Medium2	21,213	972	9,046	0	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	6	Large1	43,597	972	9,841	0	3,082
4	Turk	Solid	SL	Midwest	3	12	Medium1a	20,734	972	8,264	0	3,082
4	Turk	Solid	SL	Midwest	3	. 8	Medium1b	33,651	972	8,405	0	3,082
4	Turk	Solid	SL	Midwest	3	6	Medium2	49,202	972	8,606	0	3,082
4	Turk	Solid	SL	Midwest	3	9	Largel	166,603	972	10,755	0	0,000
4	Turk	Solid	SL	Mid-Atlantic	1	4	Medium1a	14,121	6,108	10,973	7,306	3,082
4	Turk	Solid	SL	Mid-Atlantic	1	3	Medium1b	22,270	9,634	12,895	12,243	3,082
4	Turk	Solid	SL	Mid-Atlantic	1	1	Medium2	31,186	13,492	14,890	17,644	3,082
4	Turk	Solid	SL -	Mid-Atlantic	1	1	Large1	64,423	27,631	22,351	37,438	
4	Turk	Solid	SL	Midwest	1	4	Medium1a	25,904	7,405	11,259	8,137	3,082

r					1.4	DIE 11-14.	(Continued)			•	•	
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуггес	5yrrec
4	Turk	Solid	SL	Midwest	1	3	Medium1b	42,142	11,821	13,439	13,644	3,082
4	Turk	Solid	SL	Midwest	1	: 1	Medium2	61,690	17,139	16,095	20,273	3,082
4	Turk	Solid	SL	Midwest	1 .	1	Large1	209,412	57,280	36,790	76,673	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	41	Medium1a	11,013	1,991	11,586	1,543	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	28	Medium1b	16,474	1,955	14,409	1,493	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	18	Medium2	22,649	2,182	17,134	1,811	3,082
4	Turk	Solid	SL	Mid-Atlantic	2	13	Largel	45,729	3,091	27,269	3,082	3,082
4	Turk	Solid	SL	Midwest	2	41	Mediumla	21,837	1,995	9,691	1,392	3,082
4	Turk	Solid	SL	Midwest	2	. 27	Medium1b	34,726	1,959	10,582	1,347	3,082
4.	Turk	Solid	SL	Midwest	2	19	Medium2	50,449	2,187	11,763	1,632	3,082
4	Turk	Solid	SL	Midwest	2	20	Large1	168,691	3,119	21,101	3,036	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	18	Medium1a	9,721	972	8,552	0,030	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	12	Medium1b	15,209	972	8,840	0	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	8	Medium2	21,213	972	9,046	. 0	3,082
4	Turk	Solid	SL	Mid-Atlantic	3	9	Large1	43,597	972	9,841	0	3,082
4	Turk	Solid	SL	Midwest	3	17	Medium1a	20,734	972	8,264	0	3,082
4	Turk	Solid	SL	Midwest	3	12	Medium1b	33,651	972	8,405	0	3,082
4	Turk	Solid	SL	Midwest	. 3	. 9	Medium2	49,202	972	8,606	0	3,082
4	Turk	Solid	SL	Midwest	3	14	Largel	166,603	972	10,755	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	1	9	Medium1a	7,842	1,875	8,007	1,380	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	1	6	Medium1b	12,627	2,495	8,559	2,248	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	11	2	Medium2	17,863	3,173	9,054	3,197	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	1	2	Largel	37,378	5,658	10,926	6,676	3,082
4.1	Turk	Solid	SL	Midwest	1	8	Medium1a	18,125	1,706	7,476	1,032	3,082
4.1	Turk	Solid	SL	Midwest	1	. 5	Medium1b	30,109	2,210	7,824	1,660	3,082
4.1	Turk	Solid	SL	Midwest	1	. 2	Medium2	44,537	2,816	8,274	2,416	3,082
4.1	Turk	Solid	SL	Midwest	1	. 2	Large1	153,603	7,395	12,312	8,850	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	2	. 88	Medium1a	7,780	1,793	8,014	1,266	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	2	58	Medium1b	12,098	1,793	8,668	1,266	3,082

		60					(Continued)	Conital	Fixed	O&M	Зуггес	5уггес
Option	Animal	Туре	Operation	Region	,	# Facilities	Size ID	Capital				
4.1	Turk	Solid	SL	Mid-Atlantic	2	39	Medium2	16,986	2,011	9,238	1,571	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	2	27	Large1	35,073	2,631	11,419	2,439	3,082
4.1	Turk	Solid	SL	Midwest	2	72	Mediumla	18,215	1,826	7,532	1,182	3,082
4.1	Turk	Solid	SL	Midwest	2	48	Medium1b	29,798	1,796	8,000	1,145	3,082
4.1	Turk	Solid	SL	Midwest	2	. 33	Medium2	43,935	2,015	8,619	1,418	3,082
4.1	Turk	Solid	SL	Midwest	2	36	Largel	150,038	2,653	14,399	2,403	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3.	37	Mediumla	6,637	972	7,549	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3	25	Medium1b	10,955	972	7,814	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3	. 18	Medium2	15,679	972	7,994	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3	18	Large1	33,290	972	8,694	. 0	3,082
4.1	Turk	Solid	SL	Midwest	3	31	Mediumla	17,240	972	7,113	0	3,082
4.1	Turk	Solid	SL	Midwest	3	20	Medium1b	28,845	972	7,228	0	3,082
4.1	Turk	Solid	SL .	Midwest	3	15	Medium2	42,817	972	7,398	0	3,082
4.1	Turk	Solid	SL	Midwest	3	24	Large1	148,300	972	9,310	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	- 1	- 14	Medium1a	11,037	6,108	9,970	7,306	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	1	9	Medium1b	18,016	9,634	11,869	12,243	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	. 1	. 4	Medium2	25,653	13,492	13,838	17,644	3,082
4.1	Turk	Solid	SL .	Mid-Atlantic	1	2	Largel	54,117	27,631	21,205	37,438	3,082
4.1	Turk	Solid	SL	Midwest	1	. 11	Medium1a	22,410	7,405	10,108	8,137	3,082
4.1	Turk	Solid	SL	Midwest	1	. 7	Medium1b	37,336	11,821	12,262	13,644	3,082
4.1	Turk	Solid	SL	Midwest	1	3	Medium2	55,305	17,139	14,887	20,273	3,082
4.1	Turk	Solid	SL	Midwest	1	3	Large1	191,109	57,280	35,345	76,673	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	2	131	Medium1a	7,929	1,991	10,583	1,543	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	2	88	Medium1b	12,220	1,955	13,383	1,493	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	2	. 58	Medium2	17,116	2,182	16,082	1,811	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	2	41	Largel	35,423	3,091	26,123	3,082	3,082
4.1	·Turk	Solid	SL	Midwest	2	108	Mediumla	18,342	1,995	8,539	1,392	3,082
4.1	Turk	Solid	SL	Midwest	2	72	Medium1b	29,921	1,959	9,404	1,347	3,082
4.1	Turk	Solid	SL	Midwest	2	49	Medium2	44,064	2,187	10,555	1,632	3,082

						DIC 11-17.	(Continued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yrrec	5yrrec
4.1	Turk	Solid	. SL	Midwest	2	. 54		150,389	3,119	19,656	3,036	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3	56	Medium1a	6,637	972	7,549	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3 :	37	Mediumlb	10,955	972	7,814	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3	27	Medium2	15,679	972	7,994	0	3,082
4.1	Turk	Solid	SL	Mid-Atlantic	3	27	Large1	33,290	972	8,694	0	3,082
4.1	Turk	Solid	SL	Midwest	3	46	Medium1a	17,240	972	7,113	0	3,082
4.1	Turk	Solid	SL	Midwest	3	30	Medium1b	28,845	972	7,228	0	3,082
4.1	Turk	Solid	SL	Midwest	3	23	Medium2	42,817	972	7,398	0	3,082
4.1	Turk	Solid	SL	Midwest	3	36	Large1	148,300	972	9,310	0	3,082
5	Turk	Solid	SL	Mid-Atlantic	. 1	12	Mediumla	7,842	1,483	1,755	1,380	0,002
5	Turk	Solid	SL	Mid-Atlantic	1,	: 8	Medium1b	12,627	2,103	2,307	2,248	0
5	Turk	Solid	SL	Mid-Atlantic	1 !	3	Medium2	17,863	2,781	2,802	3,197	0
5	Turk	Solid	SL	Mid-Atlantic	1	· · · 2	Large1	37,378	5,266	4,674	6,676	0
5	Turk	Solid	SL	Midwest	1	10	Medium1a	18,125	1,314	1,224	1,032	0
5	Turk	Solid	SL	Midwest	.1	. 7	Medium1b	30,109	1,818	1,572	1,660	0
5	Turk	Solid	SL	Midwest	1	3	Medium2	44,537	2,424	2,022	2,416	0
5	Turk	Solid	SL .	Midwest	1	3	Largel	153,603	7,003	6,060	8,850	0
5	Turk	Solid	SL	Mid-Atlantic	2	115	Medium1a	7,780	1,401	1,762	1,266	0
5	Turk	Solid	SL	Mid-Atlantic	2	- 77	Medium1b	12,098	1,401	2,416	1,266	0
5	Turk	Solid	SL	Mid-Atlantic	2	51	Medium2	16,986	1,619	2,986	1,571	. 0
5	Turk	Solid	SL	Mid-Atlantic	2	36	Largel	35,073	2,239	5,167	2,439	0
5	Turk	Solid	SĿ	Midwest	2	99	Medium1a	18,215	1,434	1,280	1,182	0
5	Turk	Solid	SL ,	Midwest	2	66	Medium1b	29,798	1,404	1,748	1,145	0
5	Turk	Solid	SL	Midwest	2	45	Medium2	43,935	1,623	2,367	1,418	0
5	Turk	Solid	SL	Midwest	2	- 50	Large1	150,038	2,261	8,147	2,403	0
5	Turk	Solid	SL	Mid-Atlantic	3	49	Medium1a	6,637	580	1,297	2,403	0
5	Turk	Solid	SL	Mid-Atlantic	3	- 33	Medium1b	10,955	580	1,562	0	0
5	Turk	Solid	SL	Mid-Atlantic	3	24	Medium2	15,679	580	1,742	0	
5	Turk	Solid	SL	Mid-Atlantic	3	24	Large1	33,290	580	2,442		0
	-							33,270	200	2,442	0	0

Option	Animal	Туре	Operation	Region		# Facilities	Size ID	Capital	Fixed	O&M	Зуггес	5уггес
		Solid	SL	Midwest	3	42	Medium1a	17,240	580	861	0	0
5	Turk	Solid	SL	Midwest	3	28	Medium1b	28,845	580	976	0	0
5	Turk	Solid	SL	Midwest	3	21	Medium2	42,817	580	1,146	0	0
5	Turk	Solid	SL	Midwest	3	33	Largel	148,300	580	3,058	0	0
5	Turk	Solid	SL	Mid-Atlantic	1	18	Medium1a	11,037	5,716	3,718	7,306	0
5	Turk	Solid	SL	Mid-Atlantic	1	12	Medium1b	18,016	9,242	5,617	12,243	0
5	Turk	Solid	SL	Mid-Atlantic	1	. 5	Medium2	25,653	13,100	7,586	17,644	0
5	Turk	Solid	SL	Mid-Atlantic	1	3	Largel	54,117	27,239	14,953	37,438	0
5	Turk Turk	Solid	SL	Midwest	1	16	Medium1a	22,410	7,013	3,856	8,137	0
5	Turk	Solid	SL	Midwest	1	10	Medium1b	37,336	11,429	6,010	13,644	0
5	Turk	Solid	SL	Midwest	1	4	Medium2	55,305	16,747	8,635	20,273	. 0
5	Turk	Solid	SL	Midwest	1	4	Large1	191,109	56,888	29,093	76,673	0
5	Turk	Solid	SL	Mid-Atlantic	2	173	Mediumla	7,929	1,599	4,331	1,543	0
5	Turk	Solid	SL	Mid-Atlantic	2	115	Medium1b	12,220	1,563	7,131	1,493	0
5	Turk	Solid	SL	Mid-Atlantic	2	- 76	Medium2	17,116	1,790	9,830	1,811	0
5	Turk	Solid	SL	Mid-Atlantic	2	54	Large1	35,423	2,699	19,871	3,082	0
5	Turk	Solid	SL	Midwest	2	148	Medium1a	·18,342	1,603	2,287	1,392	. 0
5	Turk	Solid	SL	Midwest	2	99	Medium1b	29,921	1,567	· 3,152	1,347	0
5	Turk	Solid	SL	Midwest	2	- 68	Medium2	44,064	1,795	4,303	1,632	0
5	Turk	Solid	SL	Midwest	2	74	Large1	150,389	2,727	13,404	3,036	0
5	Turk	Solid	SL	Mid-Atlantic	3	74	Mediumla	6,637	580	1,297	0	0
5	Turk	Solid	SL	Mid-Atlantic	3	49	Medium1b	10,955	580	1,562	0	0
5	Turk	Solid	SL	Mid-Atlantic	3	35	Medium2	15,679	580	1,742	0	0
$\frac{5}{5}$	Turk	Solid	SL	Mid-Atlantic	3	. 36	Large1	33,290	580	2,442	0	0
5	Turk	Solid	SL	Midwest	3 .	64	Medium1a	17,240	580	861	0	0
5	Turk	Solid	SL	Midwest	3	42	Medium1b	28,845	580	976	0	Ó
5	Turk	Solid	SL	Midwest	3	31	Medium2	42,817	580	1,146	0	
5	Turk	Solid	SL	Midwest	3	50	Large1	148,300	580	3,058	0	0
.5a	Turk	Solid	SL	Mid-Atlantic	1	12	Medium1a	7,842	1,483	1,755	1,380	0

F					1.0	DIC IT-14.	(Continued)					-
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yrrec	5yrrec
5a	Turk	Solid	SL	Mid-Atlantic	1	. 8	Medium1b	12,627	2,103	2,307	2,248	0
5a	Turk	Solid	SL	Mid-Atlantic	1	. 3	Medium2	17,863	2,781	2,802	3,197	0
5a	Turk	Solid	SL	Mid-Atlantic	1	2	Large1	37,378	5,266	4,674	6,676	0
5a	Turk	Solid	SL	Midwest	1	10	Medium1a	18,125	1,314	1,224	1,032	0
5a	Turk	Solid	SL	Midwest	1	. 7	Medium1b	30,109	1,818	1,572	1,660	0
5a	Turk	Solid	SL	Midwest	1	- 3	Medium2	44,537	2,424	2,022	2,416	0
5a	Turk	Solid	SL	Midwest	1	3	Large1	153,603	7,003	6,060	8,850	0
5a	Turk	Solid	SL	Mid-Atlantic	2	115	. Medium1a	7,780	1,401	1,762	1,266	0
5a	Turk	Solid	SL	Mid-Atlantic	2 .	77	Medium1b	12,098	1,401	2,416	1,266	0
5a	Turk	Solid	· SL	Mid-Atlantic	- 2	. 51	Medium2	16,986	1,619	2,986	1,571	0
5a	Turk	Solid	SL	Mid-Atlantic	2	- 36	Large1	35,073	2,239	5,167	2,439	0
5a	Turk	Solid	SL	Midwest	2	. 99	Mediumla	18,215	1,434	1,280	1,182	0
5a	Turk	Solid	SL	Midwest	2	66	Medium1b	29,798	1,404	1,748	1,145	0
5a	Turk	Solid	SL	Midwest	2	45	Medium2	43,935	1,623	2,367	1,418	0
5a	Turk	Solid	SL	Midwest	2	50	Large1	150,038	2,261	8,147	2,403	0
5a	Turk	Solid	SL	Mid-Atlantic	3	- 49	Medium1a	6,637	580	1,297	2,105	0
5a	Turk	Solid	SL	Mid-Atlantic	3	33	Medium1b	10,955	580	1,562	0	0
5a	Turk	Solid	SL	Mid-Atlantic	3	24	Medium2	15,679	580	1,742	0	0
5a	Turk	Solid	SL	Mid-Atlantic	3	- 24	Largel	33,290	580	2,442	0	0
5a	Turk	Solid	SL	Midwest	3	42	Medium1a	17,240	580	861	0	0
5a	Turk	Solid	SL	Midwest	3	28	Medium1b	28,845	580	976	0	0
5a	Turk	Solid	SL	Midwest	3	21	Medium2	42,817	580	1,146	0	0
5a	Turk	Solid	SL	Midwest	3	: 33	Large1	148,300	580	3,058	0	. 0
5a	Turk	Solid	SL	Mid-Atlantic	1	18	Medium1a	11,037	5,716	3,718	7,306	0
5a	Turk	Solid	SL	Mid-Atlantic	1	12	Medium1b	18,016	9,242	5,617	12,243	0
5a	Turk	Solid	SL	Mid-Atlantic	_1	. 5	Medium2	25,653	13,100	7,586	17,644	0
5a	Turk	Solid	SL	Mid-Atlantic	1	3	Large1	54,117	27,239	14,953	37,438	0
5a 5a	Turk	Solid	SL	Midwest	1	16	Medium1a	22,410	7,013	3,856	8,137	0
Ja	Turk	Solid	· SL	Midwest	1	· 10	Medium1b	37,336	11,429	6,010	13,644	0

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Option	Animal	Турс	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зуггес	5уггес
5a	Turk	Solid	SL	Midwest	1	4	Medium2	55,305	16,747	8,635	20,273	0
5a	Turk	Solid	SL	Midwest	1	4	Largel	191,109	56,888	29,093	76,673	0
5a	Turk	Solid	SL	Mid-Atlantic	2	173	Mediumla	7,929	1,599	4,331	1,543	0
5a	Turk	Solid	SL	Mid-Atlantic	2	115	Mediumlb	12,220	1,563	7,131	1,493	0
5a	Turk	Solid	SL	Mid-Atlantic	2	76	Medium2	17,116	1,790	9,830	1,811	0
5a	Turk	Solid	SL	Mid-Atlantic	2	54	Large1	35,423	2,699	19,871	3,082	0
5a	Turk	Solid	SL	Midwest	2	148	Medium1a	18,342	1,603	2,287	1,392	0
5a	Turk	Solid	SL	Midwest	2	. 99	Medium1b	29,921	1,567	3,152	1,347	0
5a	Turk	Solid	SL	Midwest	2	68	Medium2	44,064	1,795	4,303	1,632	0
5a	Turk	Solid	SL	Midwest	2	74	Large1	150,389	2,727	13,404	3,036	0
5a	Turk	Solid	SL	Mid-Atlantic	3	74	Mediumla	6,637	580	1,297	0	0
5a	Turk	Solid	SL	Mid-Atlantic	3	· 49	Medium1b	10,955	580	1,562	0	0
5a	Turk	Solid	SL	Mid-Atlantic	.3	35	Medium2	15,679	580	1,742	0	0
5a	Turk	Solid	SL	Mid-Atlantic	3	36	Largel	33,290	580	2,442	. 0	0
5a	Turk	Solid	SL	Midwest	3	64	Medium1a	17,240	580	861	_ 0	0
5a	Turk	Solid	SL	Midwest	3	42	Medium1b	28,845	580	976	0	0
5a	Turk	Solid	SL	Midwest	3	31	Medium2	42,817	580	1,146	0	0
5a	Turk	Solid	SL	Midwest	3	50	Large1	148,300	580	3,058	0	0
7	Turk	Solid	SL	Mid-Atlantic	1	12	Medium1a	7,842	1,483	1,755	1,380	
7	Turk	Solid	SL	Mid-Atlantic	1	8	Medium1b	12,627	2,103	2,307	2,248	
7	Turk	Solid	SL	Mid-Atlantic	1	3	Medium2	17,863	2,781	2,802	3,197	0
7	Turk	Solid	SL	Mid-Atlantic	1	2	Large1	37,378	5,266		6,676	
7	Turk	Solid	SL	Midwest	1	10	Medium1a	18,125	1,314	1,224	1,032	0
7	Turk	Solid	SL	Midwest	1	7	Medium1b	30,109	1,818	1,572	1,660	
7	Turk	Solid	SL	Midwest	1	3	Medium2	44,537	2,424	2,022	2,416	<del></del>
7	Turk	Solid	SL	Midwest	1	3	Large1	153,603	7,003	6,060	8,850	<del></del>
7	Turk	Solid	SL	Mid-Atlantic	2	115		7,780		1,762	1,266	
7	Turk	Solid	SL	Mid-Atlantic	2	77	Medium1b	12,098		2,416	1,266	
7	Turk	Solid	SL .	Mid-Atlantic	2	51	Medium2	16,986	1,619	2,986	1,571	0

	<u> </u>					DIC II-14.	(Continued)					
Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	3yrrec	5yrrec
7	Turk	Solid	SL	Mid-Atlantic	2.	. 36	Largel	35,073	2,239	5,167	2,439	0
7	Turk	Solid	SL	Midwest	2	99	Mediumla	18,215	1,434	1,280	1,182	0
7	Turk	Solid	SL	Midwest	2	- 66	Medium1b	29,798	1,404	1,748	1,145	0
_ 7	Turk	Solid	SL .	Midwest	2	- 45	Medium2	43,935	1,623	2,367	1,418	0
7	Turk	Solid	SL	Midwest	2	50	Largel	150,038	2,261	8,147	2,403	0
7	Turk	Solid	SL	Mid-Atlantic	3	- 49	Medium1a	6,637	580	1,297	2,403	
7	Turk	Solid	SL	Mid-Atlantic	3	33	Medium1b	10,955	580	1,562	0	0
7	Turk	Solid	SL	Mid-Atlantic	3	24	Medium2	15,679	580	1,742	0	0
7	Turk	Solid	SL	Mid-Atlantic	3	24	Large1	33,290	580	2,442	0	- 0
7	Turk	Solid	SL	Midwest	3 ·	42	Mediumla	17,240	580	861	0	0
7	Turk	Solid	SL	Midwest	3	28	Medium1b	28,845	580	976	0	0
7	Turk	Solid	SL	Midwest	3	- 21	Medium2	42,817	580	1,146	0	0
7	Turk	Solid	SL	Midwest	3	33	Large1	148,300	580	3,058	0	0
7	Turk	Solid	SL	Mid-Atlantic	1	18	Mediumla	11,037	5,716	3,718	7,306	0
7	Turk	Solid	SL	Mid-Atlantic	1	12	Medium1b	18,016	9,242	5,617	12,243	0
7	Turk	Solid	SL	Mid-Atlantic	1	. 5	Medium2	25,653	13,100	7,586	17,644	0
7	Turk	Solid	SL	Mid-Atlantic	1	3	Large1	54,117	27,239	14,953	37,438	0
7	Turk	Solid	SL	Midwest	1	16	Medium1a	22,410	7,013	3,856	8,137	0
7	Turk	Solid	SL	Midwest	1	10	Medium1b	37,336	11,429	6,010	13,644	0
7	Turk	Solid	SL	Midwest	1	4	Medium2	55,305	16,747	8,635	20,273	Ö
7	Turk	Solid	SL ·	Midwest	1	4	Large1	191,109	56,888	29,093	76,673	<u> </u>
7	Turk	Solid	SL	Mid-Atlantic	2	173	Medium1a	7,929	1,599	4,331	1,543	0
7	Turk	Solid	SL	Mid-Atlantic	2	. 115	Medium1b	12,220	1,563	7,131	1,493	0
7	Turk	Solid	SL	Mid-Atlantic	2	76	Medium2	17,116	1,790	9,830	1,811	0
7	Turk	Solid	SL	Mid-Atlantic	2	54	Large1	35,423	2,699	19,871	3,082	
7	Turk	Solid	SL	Midwest	2	148	Medium1a	18,342	1,603	2,287	1,392	0
7	Turk	Solid	SL	Midwest	2	99	Medium1b	29,921	1,567	3,152	1,347	
7	Turk	Solid	SL	Midwest	2	68	Medium2	44,064	1,795	4,303	1,632	0
7	Turk	Solid	SL	Midwest	2	· 74	Large1	150,389	2,727	13,404	3,036	0

Option	Animal	Туре	Operation	Region	Category	# Facilities	Size ID	Capital	Fixed	O&M	Зугтес	5yrrec
7	Turk	Solid	SL	Mid-Atlantic	3	74	Mediumla	6,637	580	1,297	0	0
7	Turk	Solid	SL	Mid-Atlantic	3	49	Mediumlb	10,955	580	1,562	0	0
7	Turk	Solid	SL	Mid-Atlantic	3	35	Medium2	15,679	580	1,742	0	0
7	Turk	Solid	SL	Mid-Atlantic	3	36	Large1	33,290	580	2,442	0	0
7	Turk	Solid	SL	Midwest	3	64	Mediumla	17,240	580	861	O	0
7	Turk	Solid	SL	Midwest	3	42	Mediumlb	28,845	580	976	0	0
7	Turk	Solid	SL	Midwest	3	` 31	Medium2	42,817	580	1,146	0	0
7	Turk	Solid	SL	Midwest	3	50	Large1	148,300	580	3,058	0	0

Table 11-15. Regulatory Compliance Costs for the Dairy Industry

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
11	Dairy	0	0	Central	1	Largel	66,157	1,980	3,364	3,034
1	Dairy	0	0	Central	2	Large1	439,469	1,006	34,150	1,184
1	Dairy	0	0	Central	3	Large1	66,157	190	2,533	600
1	Dairy	0	0	Mid-Atlantic	1	Large1	45,347	2,334	3,153	
1	Dairy	0	0	Mid-Atlantic	. 2	Large1	45,347	1,006	46,898	3,690
1	Dairy	0	0	Mid-Atlantic	3	Large1	45,347	190	2,117	1,184
1	Dairy	0	0	Midwest	1.	Large1	45,347	2,492	3,245	
1	Dairy	0	0	Midwest	2	Largel	45,347	1,164	55,084	3,982
1	Dairy	0	0	Midwest	3	Large1	45,347	190	2,117	1,497 600
1	Dairy	0	0	Pacific	1	Largel	66,157	2,234	3,511	
1	Dairy	. 0	0	Pacific	2	Largel	439,469	986	37,270	3,495
1	Dairy	0	0 .	Pacific	3	Largel	66,157	190	2,533	1,158
. 1	Dairy	0	0	South	1 .	Large1	66,157	2,111	3,440	600
1	Dairy	0	0	South	2	Largel	66,157	782	54,494	3,270
1	Dairy	0	0	South	3	Large1	66,157	190	2,533	764
1	Dairy	0	0	Central	1	Medium2	31,721	1,106	2,560	600
1	Dairy	0	. 0	Central	2	Medium2	31,426	829	27,117	1,379
1 .	Dairy	0	0	Central	3	Medium2	28,581	190	1,964	866
1	Dairy	0 .	0	Mid-Atlantic	· 1	Medium2	26,056	1,225	2,732	· 600
1	Dairy	0	0	Mid-Atlantic	2	Medium2	25,400	840	13,629	1,599
1	Dairy	0	0	Mid-Atlantic	3	Medium2	21,117	190		882
1	Dairy	. 0	0 .	Midwest	1	Medium2	25,046	1,275	1,854	600
1	Dairy	0	0	Midwest	2	Medium2	24,363	894	2,734	1,707
1	Dairy	0	0	Midwest	3	Medium2	20,003	190	15,789	974
1	Dairy	0	0	Pacific	1	Medium2	34,281	1,191	1,801	600
1	Dairy	0	0	Pacific	2	Medium2	33,882	832	2,769	1,533
1	Dairy	0	0	Pacific		Medium2	31,034	190	30,648 2,087	87 <u>,</u> 1 6000

Table 11-15. (Continued)

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
1	Dairy	0	0	South	1	Medium2	33,730	1,152	2,706	1,461
1	Dairy	0	0	South	2	Medium2	33,357	767	15,809	744
1	Dairy	0	0	South	3	Medium2	30,533	190	2,062	600
1	Dairy	0	0	Central	1	Medium1	20,442	902	2,024	1,005
1	Dairy	0	0	Central	2	Medium1	20,394	852	4,499	897
1	Dairy	0	0	Central	3	Medium1	17,528	190	1,681	600
1	Dairy	0	0	Mid-Atlantic	1	Medium1	17,832	963	2,142	1,107
1	Dairy	0	0	Mid-Atlantic	2	Medium1	17,726	894	2,798	974
1	Dairy	0	0	Mid-Atlantic	3	Medium1	13,367	190	1,616	600
1	Dairy	0	0	Midwest	1.	Medium1	17,220	990	2,154	1,164
1	Dairy	0	0	Midwest	2	Medium1	17,110	921	2,961	1,031
1	Dairy	0	0	Midwest	3	Medium1	12,711	190	1,585	600
1	Dairy	0	0	Pacific	1	Medium1	21,924	944	2,157	1,082
1	Dairy	0	0	Pacific	2	Medium1	21,863	883	4,972	959
- 1	Dairy	0	0 .	Pacific	. 3	Medium1	18,968	190	1,753	600
1	Dairy	0	0	South	1	Medium1	21,593	925	2,115	1,036
1	Dairy	0	0	South	• 2	Medium1	21,526	856	3,400	903
1	Dairy	0	0	South	3	Medium1	18,656	190	1,737	600
1	Dairy	0	0	Central	1	Largel	273,999	2,458	14,034	3,933
1	Dairy	0	- 0	Mid-Atlantic	1	Largel	349,278	. 2,759	18,597	4,491
1	Dairy	0	0	Midwest	1	Largel	280,372	2,795	15,173	4,554
1	Dairy	0	. 0	Pacific	1	Largel	290,359	2,530	14,893	4,057
1	Dairy	0	0	South	1	Largel	168,524	2,382	8,716	3,783
1	Dairy	0	0	Central	1	Medium2	109,228	1,422	6,665	1,972
1	Dairy	0	0	Mid-Atlantic	1	Medium2	136,137	1,368	8,359	1,872
1	Dairy	0	0	Midwest	1	Medium2	<sup>1</sup> 108,918		7,039	1,959
1	Dairy	0	0	Pacific	1	Medium2	119,249	1,306		1,757
1	Dairy	0	0	South	1	Medium2	74,211	1,209	4,776	1,569
1	Dairy	0	0	Central	1	Medium1	20,653	1,064	2,193	1,310

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
1	Dairy	0	0	Mid-Atlantic	1	Medium1	17,964	1,037	2,241	1,249
1	Dairy	0	0	Midwest	. 1	Medium1	17,349	1,060		1,294
1	Dairy	0	0	Pacific	1	Medium1	21,991	1,004		1,187
1	Dairy	. 0	0	South	1	Medium1	21,627	955		1,093
1	Dairy	0	0	Central	2	Largel	273,999	1,228	78,162	1,603
1	Dairy	. 0	0	Mid-Atlantic	2 -	Largel	349,278	1,075	57,990	1,314
1	Dairy	0	0	Midwest	2	Largel	280,372	1,281	45,242	1,709
1	Dairy	0 ·	0	Pacific	2	Largel	290,359	1,010	76,755	
1	Dairy	0	0 .	South	2	Largel	168,524	742	40,386	- 1,203 690
1	Dairy	0	0	Central	2	Medium2	108,613	1,057	21,077	1,289
. 1	Dairy	0	0	Mid-Atlantic	2	Medium2	135,282	937	18,846	1,289
1	Dairy	0	0	Midwest	2	Medium2	108,074	1,006	14,994	1,192
1	Dairy	0,	0	Pacific	2	Medium2	118,748	902	21,607	993
1 .	Dairy	0	0	South	2	Medium2	73,771	802	15,323	812
1	Dairy	0	0 ·	Central	2	Medium1	20,717	1,122	3,741	
1	Dairy	. 0	0	Mid-Atlantic	2	Medium1	17,932	1,019	3,035	1,412
1	Dairy	0 .	0	Midwest	2	Medium1	17,328	1,048	2,824	1,214
1	Dairy	. 0	0	Pacific	2	Medium1	21,954	971	3,676	1,268
1	Dairy	0	0	South	2	Medium1	21,592	919	3,070	1,121
1	Dairy	0	0	Central	3	Largel	273,999	190	12,925	1,025
1	Dairy	0	0	Mid-Atlantic	3	Largel	349,278	190	17,313	600
1	Dairy	. 0	0	Midwest	3	Large1	280,372	190	13,868	
1	Dairy	0	0 -	Pacific	3	Large1	290,359	190	13,743	600
1	Dairy	0	0	South	3	Large1	168,524	190		600
1	Dairy	0	0	Central	3	Medium2	105,511	190	7,652 5,811	. 600
1	Dairy	0	0	Mid-Atlantic	3	Medium2	130,852	190		600
1	Dairy	0	0	Midwest		Medium2	103,530	190	7,341	600
1	Dairy	0	0	Pacific	3	Medium2	115,834	190	5,978	600
1	Dairy	0	0	South		Medium2	70,929	190	6,327 4,081	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
1	Dairy	0	0	Central	3	Medium1	17,528	190	1,681	600
1	Dairy	0	0	Mid-Atlantic	3	Medium1	13,367	190	1,616	600
i	Dairy	0	0	Midwest	3.	Medium1	12,711	190	1,585	600
1	Dairy	0	0	Pacific	3	Medium1	18,968	190	1,753	600
1	Dairy	0	0	South	3	Medium1	18,656	190	1,737	600
2	Dairy	0	0	Central	1	Large1	66,157	2,458	3,642	3,933
2	Dairy	0	0	Mid-Atlantic	1	Large1	45,347	2,759	3,401	4,491
2	. Dairy	0	0	Midwest	1	. Large1	45,347	2,795	3,422	4,554
2	Dairy	0	0	Pacific	1	Large1	66,157	2,530	3,683	4,057
2	Dairy	0	0 .	South	1	. Large1	66,157	2,382	3,598	3,783
2	Dairy	0	0	Central	2	. Large1	66,157	1,228	67,770	1,603
2	Dairy	0	0	Mid-Atlantic	2	_ Large1	45,347	1,075	42,794	1,314
2	Dairy	0	0	Midwest	2	- Large1	45,347	1,281	33,491	1,709
2	Dairy	Ò	0	Pacific	. 2	. Large1	66,157	1,010	65,545	1,203
2	Dairy	0	0	South	2	. Large1	66,157	742	35,267	690
2	Dairy	0	0	Central	3	Large1	66,157	190	2,533	600
2	Dairy	0	0	Mid-Atlantic	3	Large1	45,347	190	2,117	600
2	Dairy	0	0	Midwest	3	Large1	45,347	190	2,117	600
2	Dairy	0	- 0	Pacific	3	Large1	66,157	190	2,533	. 600
2	Dairy	0	0	South	3	. Large1	66,157	190	2,533	600
2	Dairy	0	0	Central	1	Medium1	20,653	1,064	2,193	1,310
2	Dairy	0	0	Mid-Atlantic	1	Medium1	17,964	1,037	2,241	1,249
2	Dairy	0	0	Midwest	1	Medium1	17,349	1,060	2,244	1,294
2	Dairy	0	0	Pacific	1	Medium1	21,991	1,004	2,229	1,187
2	Dairy	0	0 :	South	1	Medium1	21,627	955	2,150	1,093
2	Dairy	0	0	Central	2	Medium1	20,717	1,122	3,741	1,412
2	Dairy	0	0	Mid-Atlantic	2	Medium1	17,932	1,019	3,035	1,214
2	Dairy	0	0	Midwest	2	Medium1	17,328	1,048	2,824	1,268
2	Dairy	0	0	Pacific	2	Medium1	21,954	971	3,676	1,121

Option	Animal	Man type	Operation	Region	Category	-15. (Cont Size ID	Capital	Fixed	0 & M	
2	Dairy	0	0	South	2	Medium1	21,592	919		3 yr rec
2	Dairy	0	0	Central	3	Medium1	17,528		3,212	1,025
2	Dairy	0	0	Mid-Atlantic	3	Medium1	13,367	190	.,,	600
2	Dairy	0	0	Midwest	3	Medium1	12,711	190	7	600
2	Dairy	0	0	Pacific	3	Medium1	18,968	190	1,585	600
2 .	Dairy	0	0	South	3	Medium1	18,656	190	1,753	600
2	Dairy	0	0	Central	Î	Medium2	32,299	1,422	1,737	600
2	. Dairy	0	0	Mid-Atlantic	1	Medium2	26,402	1,368	2,818	1,972
2	Dairy	0	0	Midwest	1	Medium2	25,392	1,411	2,872	1,872
2	Dairy	0	0	Pacific	1	Medium2	34,450	1,306	2,863	1,959
2	Dairy	0	- 0	South	1	Medium2	33,815	1,209	2,873	1,757
2	Dairy	0 .	0	Central	2	Medium2	31,683	1,057	2,756 17,230	1,569
2	Dairy	0	0	Mid-Atlantic	2	Medium2	25,547	937	13,359	1,289
2	Dairy	0	0	Midwest	2	Medium2	24,548	1,006	10,818	1,060
2	Dairy -	0	0	Pacific	2	Medium2	33,949	902	17,367	1,192 993
2	Dairy	0	0	South	2	Medium2	33,376	802	13,303	812
2	Dairy	0	0	Central	3	Medium2	28,581	190	1,964	600
2	Dairy	0	0	Mid-Atlantic	3	Medium2	21,117	190	1,854	600
2	Dairy	0	0	Midwest	3	Medium2	20,003	190	1,801	600
2	Dairy	0	0	Pacific	3	Medium2	31,034	190	2,087	600
2	Dairy	0	0	South	3	Medium2	30,533	190	2,062	600
3	Dairy	0	0	Central	1	Large1	205,246	5,140	10,396	3,933
3	Dairy	0	0	Mid-Atlantic	1	Large1	296,252	4,966	15,660	4,491
3	Dairy	0	0	Midwest	1	Large1	322,071	5,324	16,925	4,491
3	Dairy	0	0	Pacific	1	Largel	212,269	4,540	10,808	4,057
3	Dairy	0	0	South	1	Largel	321,901	4,827	16,037	3,783
3	Dairy	0	0	Central	2 .	Largel	205,246	1,228	74,524	1,603
3	Dairy	0	0	Mid-Atlantic	2	Large1	296,252	1,075	55,052	1,314
3	Dairy	0	0	Midwest	2	Large1	322,071	1,281	46,995	1,709

Table 11-15. (Continued)

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
3	Dairy	0	0	Pacific	2	Largel	212,269	1,010	72,669	1,203
3	Dairy	0	0	South	2	Largel	321,901	742	47,706	690
3	Dairy	0	0	Central	3	·Large1	205,246	190	9,287	600
3	Dairy	0	0	Mid-Atlantic	3	Large1	296,252	190	14,376	600
3	Dairy	0	0	Midwest	3	Large1	322,071	190	15,621	600
3	Dairy	0	0	· Pacific	3	Large1	212,269	190	9,657	600
3	Dairy	0	0	South	3	Large1	321,901	190	14,972	600
3	Dairy	0	0	Central	1	Medium1	58,077	3,284	4,014	1,310
3	Dairy	0	0	Mid-Atlantic	1	Medium1	87,351	3,204	5,634	1,249
3	Dairy	0	0	Midwest	1 .	Medium1	91,593	3,356	5,868	1,294
3	Dairy	0	0	Pacific	1	Medium1	62,841	2,791	4,225	1,187
3	Dairy	0	0	South	1	Medium1	98,010	3,636	5,882	1,093
3	Dairy	0	0	Central	2	Mediuml	58,142	1,122	5,562	1,412
3	Dairy	0	0	Mid-Atlantic	2	Mediuml	87,319	1,019	6,428	1,214
3	Dairy	0	0	Midwest	2	Mediuml	91,573	1,048	6,448	1,268
3	Dairy	0	0	Pacific	2	Medium1	62,804	971	5,673	1,121
3	Dairy	0	0	South	2	Medium1	97,975	919	6,944	1,025
3	Dairy	0	0	Central	3	Medium1	54,953	190	3,501	600
3	Dairy	0	0	Mid-Atlantic	3	Medium1 ·	82,754	190	5,009	-600
3	Dairy	0	0	Midwest	3	Medium1	86,955	190	5,209	600
3	Dairy	0	0	Pacific	3	Medium1	59,818	190	3,749	600
3	Dairy	0	0	South	3	Medium1	95,039	190	5,469	- 600
3	Dairy	0	0	Central	1	Medium2	86,664	3,642	5,515	1,972
3	Dairy	0	0	Mid-Atlantic	- 1	Medium2	126,691	3,535	7,877	1,872
3	Dairy	0	0	Midwest	1	Medium2	135,126	3,708	8,336	1,959
3	Dairy	0	0	Pacific	1	Medium2	92,200	3,093	5,742	1,757
3	Dairy	0	0	South .	1	Medium2	141,772	3,890	8,116	1,569
3	Dairy	0	0	Central	2	Medium2	86,048	1,057	19,928	1,289
3	Dairy	0	0	Mid-Atlantic	2	Medium2	125,836	937	18,365	1,060

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3
3	Dairy	0	.0	Midwest	2	Medium2	134,282	1,006		3 yr rec
3	Dairy	0	0	Pacific	2	Medium2	91,699	902		1,192
3	Dairy -	0	0	South	2	Medium2	141,332	802		993
3	Dairy	0	0	Central	3	Medium2	82,947	190		812
3	Dairy	0	0	Mid-Atlantic	3	Medium2	121,406	190	,,,,,,	600
3	Dairy	0	0	Midwest	3	Medium2	129,738	190	7	600
3	Dairy	. 0	0	Pacific	3	Medium2	88,784	190		600
3	Dairy	0	0	South	3	Medium2	138,490	190		600
4	Dairy	0	0	Central	1	Largel	205,638			600
4	Dairy	0	0	Mid-Atlantic	1	Largel	296,644	4,966		3,933
4	Dairy	0	0	Midwest	1	Large1	322,463	· · · · · · · · · · · · · · · · · · ·		4,491
4	Dairy	0	0	Pacific	1	Largel	212,661	5,324		4,554
4	Dairy	0	0	South	1	Large1	322,293	4,540 4,827		4,057
4	Dairy	0	. 0.	Central	2	Largel	205,638	1,228	22,289	3,783
4	Dairy	0	<del></del>	Mid-Atlantic	2	*Large1	296,644		80,776	1,603
4	Dairy	0	0	Midwest	2	Largel	322,463	1,075 1,281	61,304	1,314
4	Dairy	0	0	Pacific	2	Large1	212,661		53,247	1,709
4	Dairy	0	0	South	2	Largel	322,293	1,010 742	78,921	1,203
4	Dairy '	0	0	Central	3	Largel	205,638	190	53,958	690
4	Dairy	0.		Mid-Atlantic	3	Large1	296,644	190	15,539	600
4	Dairy	0	0	Midwest	-3	Largel	322,463	190	20,628	600
4	Dairy	0	0	Pacific	3	Large1	212,661	190	21,873	600
4	Dairy	0	0	South	3	Large1	322,293	190	15,909	600
4	Dairy	0	0	Central	1	Medium1	58,469		21,224	600
4	Dairy	. 0		Mid-Atlantic	1	Medium1	87,743	3,284 3,204	10,266	1,310
4	Dairy	0	0	Midwest	1	Medium1	91,985		11,886	1,249
4	Dairy	0 :	0	Pacific	1	Medium1	63,233	3,356	12,120	1,294
4	Dairy	0	0	South	1	Medium1	98,402	2,791	10,477	1,187
4	Dairy	0	0	Central	2	Medium1	58,534	3,636	12,134	1,093
		· · · · · · · · · · · · · · · · · · ·		20111111			30,334	1,122	11,814	1,412

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
4	Dairy	0	· 0	Mid-Atlantic	2	Medium1	87,711	1,019	12,680	1,214
4	Dairy	0	0	Midwest	2	Mediuml	91,965	1,048	12,700	1,268
4	Dairy	0	0	Pacific	2	Mediuml	63,196	971	11,925	1,121
4	Dairy	0	0	South	2	Medium1	98,367	919	13,196	1,025
4	Dairy	0	0	Central	3	Medium1	55,345	190	9,753	600
4 .	Dairy	0	0	Mid-Atlantic	3 *	Mediuml	83,146	190	11,261	600
4	Dairy	0	0	Midwest	3	Medium1	87,347	190	11,461	600
4	Dairy	0	0	Pacific	3	Medium1	60,210	190	10,001	600
4	Dairy	· 0	0	South	3	Medium1	95,431	190	11,721	600
4	Dairy	0	0	Central	1	Medium2	87,056	3,642	11,767	1,972
4	Dairy	0	0	Mid-Atlantic	1	Medium2	127,083	3,535	14,129	1,872
4	Dairy	0	0	Midwest	1	Medium2	135,518	3,708	· 14,588	1,959
4	Dairy	0	. 0	Pacific	1	Medium2	92,592	3,093	11,994	1,757
4	Dairy	0	0	South	1	Medium2	142,164	3,890	14,368	1,569
4	Dairy	0	0	Central	2	Medium2	86,440	1,057	26,180	1,289
4	Dairy	0	0	Mid-Atlantic	2	Medium2	126,228	937	24,617	1,060
4	Dairy	0	0	Midwest	2	Medium2	134,674	1,006	22,543	1,192
4	Dairy	0	0	Pacific	2	Medium2	92,091	902	26,489	. 993
4	Dairy	0	0	South	2	Medium2	141,724	802	24,914	812
4	Dairy	0	0	Central	3	Medium2	83,339	190	10,914	600
4	Dairy	0	0	Mid-Atlantic	3	Medium2	121,798	190	13,112	600
4	Dairy	. 0	0	Midwest	3	Medium2	130,130	190	13,526	600
4	Dairy	0	0	Pacific	3	Medium2	89,176		11,208	600
4	Dairy	0	0.	South	3	Medium2	138,882		13,673	· 600
5	Dairy	0	0	Central	1	Largel	75,314		31,227	3,933
5	Dairy	0	0	Mid-Atlantic	1	Large1	54,504	2,759	43,339	4,491
5	Dairy	0	0	Midwest	. 1	Large1	54,504	2,795	44,823	4,554
5	Dairy	0	0	Pacific	1	Large1	75,314	2,530		4,057
5	Dairy	0	0	South	1	Large1	75,314	2,382	26,422	3,783

Table 11-15. (Continued)

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O & M	3 yr rec
5	Dairy	0.	0	Central	2	Largel	75,314	1,228	101,067	1,603
5	Dairy	0	0	Mid-Atlantic	2	Large1	54,504	1,075	82,623	1,314
5	Dairy	0	0	Midwest	2 .	Large1	54,504	1,281	70,773	1,709
5	Dairy	0	0	Pacific	2	Largel	75,314	1,010	82,352	1,203
5	Dairy	0	0	South	2	Largel	75,314	742	52,255	690
5	Dairy	0	0	Central	3	Largel	75,314	190	30,119	600
5	Dairy	0	0	Mid-Atlantic	3	Largel	54,504	190	42,055	600
5	Dairy	0	0	Midwest	3	Large1	54,504	190	43,518	600
5	Dairy	0	0	Pacific	3	Large1	75,314	190	26,329	600
5	Dairy	0	0	South	3	Large1	75,314	190	25,358	600
5	Dairy	0	0	Central	1	Medium1	29,810	1,064	9,121	1,310
5 ·	Dairy	0	. 0	Mid-Atlantic	1	Medium1	27,120	1,037	11,362	1,249
5	Dairy	0	0	Midwest	1	Medium1	26,505	1,060	11,488	1,294
5	Dairy	0 .	0	Pacific	1	Medium1	31,147	1,004	8,737	1,187
5	Dairy	0	0	South	1	Medium1	30,784	955	8,546	1,093
5	Dairy	0	0	Central	2	Medium1	29,874	1,122	11,680	1,412
5	Dairy	0	0	Mid-Atlantic	2	Mediuml	27,089	1,019	12,131	1,214
5	Dairy	0	0	Midwest	2	Medium1	26,485	1,048	11,734	1,268
5	Dairy	Ò	0.	Pacific	2	Medium1	31,111	971	9,214	1,121
5	Dairy	- 0	0	South	2	Medium1	30,749	919	10,397	1,025
5	Dairy	0	0	Central	3	Medium1	26,685	190	8,608	600
5	Dairy	0	0	Mid-Atlantic	3	Medium1	22,524	190	10,736	600
5	Dairy	0	0	Midwest	3	Medium1	21,867	190	10,829	600
- 5	Dairy	0	0	Pacific	3	Medium1	28,124	190	8,261	600
5	Dairy	0	0	South	3	Medium1	27,813	190	8,133	600
5	Dairy	0	0	Central	1	Medium2	41,456	1,422	16,367	1,972
5	Dairy	0	0	Mid-Atlantic	1	Medium2	35,559	1,368	20,721	1,872
5	Dairy	0	0.	Midwest	1	Medium2	34,549	1,411	20,955	1,959
5	Dairy	0	0	Pacific	1	Medium2	43,606	1,306	15,601	1,757.

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
5	Dairy	0	0	South	1	Medium2	42,972	1,209	15,270	1,569
5	Dairy	0	·0	Central	2	Medium2	40,840	1,057	30,979	1,289
5	Dairy	0	0	Mid-Atlantic	2	Medium2	34,704	937	31,154	1,060
5	Dairy	0	0	Midwest	2	Medium2	33,704	1,006	30,870	1,192
5	Dairy	. 0	0	Pacific	2	Medium2	43,106	902	30,278	993
5	Dairy	0	0	South	2	Medium2	42,533	802	25,792	812
5	Dairy	0	0	Central	3	Medium2	37,738	190	15,513	600
5	Dairy	0	0	Mid-Atlantic	3	Medium2	30,274	190	19,703	600
5	Dairy	0	0 -	Midwest	3	Medium2	29,160	190	19,893	600
5	Dairy	0 -	0	Pacific	3	Medium2	40,191	190	14,815	600
5	Dairy	0 -	0	South	3	Medium2	39,690	190	14,576	600
6	Dairy	0	0	Central	1	Largel	321,284	2,458	-39,295	3,933
6	Dairy	0	0	Mid-Atlantic	1	Large1	341,247	2,759	-40,410	4,491
6	Dairy	0	0	Midwest	1	Large1	341,247	2,795	-40,389	4,554
6	Dairy	0	0	· Pacific	1	Large1	321,284	2,530	-39,253	4,057
6	Dairy	0	0	South	1	Large1	321,284	2,382	-39,339	3,783
6	Dairy	0	0	Central	2	Large1	321,284	1,228	30,562	1,603
6	Dairy	0	0	Mid-Atlantic	2	Large1	341,247	1,075	4,346	1,314
6	Dairy	0	0	Midwest	. 2	Large1	341,247	1,281	-5,383	1,709
6	Dairy	0	. 0	Pacific	2	Large1	321,284	1,010	27,515	1,203
6	· Dairy	0	0	South	2	Large1	321,284	742	-4,907	690
6	Dairy	0	. 0	Central	3	Large1	321,284	190	-40,403	600
6	Dairy	0	0	Mid-Atlantic	3	Large1	341,247	190	-41,694	600
6 -	Dairy	0	0	Midwest	3	Large1	341,247	190	-41,694	600
6	Dairy	0	0	Pacific	3	Large1	321,284	190	-40,403	600
6	Dairy	0	0	South	3	Large1	321,284	190	-40,403	600
6	Dairy	0	0	Central	1	Medium1	20,653	1,064	2,193	1,310
6	Dairy	0	0	Central	3	Medium1	17,528	190	1,681	. 600
6	Dairy	0	0	Mid-Atlantic	3	Medium1	13,367	190	1,616	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
6	Dairy	0	0	Midwest	3	Medium1	12,711	190	1,585	5 yr rec 600
6	Dairy	0	0 ·	Pacific	3	Medium1	18,968	190	1,753	600
6	Dairy	0	0	South	3	Medium1	18,656	190	1,737	600
- 6	Dairy	0.	0	Mid-Atlantic	1	Medium1	17,964	1,037	2,241	1,249
6	Dairy	. 0	0	Midwest	<sup>3</sup> 1	Medium1	17,349	1,060		
6	Dairy	0	- 0	Pacific	1	Medium1	21,991	1,004	2,229	1,294 1,187
6	Dairy	0	0	South	1	Medium1	21,627	955	2,150	1,093
6	Dairy	0	0	Central	2	Medium1	20,717	1,122	4,998	1,412
6	Dairy	0	0	Mid-Atlantic	2	Medium1	17,932	1,019	4,249	1,412
6	Dairy	0 .	0	Midwest	2	Medium1	17,328	1,048	3,922	1,214
6	Dairy	0	0	Pacific	: 2	Medium1	21,954	.971	4,843	1,121
6	Dairy	0	0	South	2	Medium1	21,592	919	4,188	1,025
6	Dairy	0	0	Central	1	Medium2	180,161	1,422	-6,133	1,023
6	Dairy	0	0 .	Mid-Atlantic	1	Medium2	188,664	1,368	-7,555	1,972
6	Dairy	0	0	Midwest	- 1	Medium2	187,653	1,411	-7,564	
6	Dairy	0	0	Pacific	1	Medium2	182,312	1,306	-6,078	1,959
6	Dairy	0	. 0	South	1	Medium2	181,678	1,209	-6,195	1,757
6	Dairy	0	0	Central	2	Medium2	179,546	1,057	10,865	1,569 1,289
6	Dairy	0	0	Mid-Atlantic	2	Medium2	187,808	937	5,610	1,289
6	Dairy	0	. 0	Midwest	2	Medium2	186,809	1,006	2,649	1,192
6	Dairy	0	0	Pacific	2	Medium2	181,811	902	10,904	993
6	Dairy	0	0	South	2	Medium2	181,238	802	6,331	812
6	Dairy	0	0	Central	3	Medium2	176,444	190	-6,987	600
6	Dairy	0	0	Mid-Atlantic	3	Medium2	183,378	190	-8,572	
6	Dairy	0	0	Midwest	3	Medium2	182,265	190	-8,625	600
6	Dairy	0	0	Pacific	3	Medium2	178,897	190	-6,864	600
6	Dairy	0	0	South	3	Medium2	178,395	190	-6,889	600
7	Dairy	0	0 .	Central	1	Large1	273,999	2,458	14,034	600
7	Dairy	0	0	Central	2	Largel	273,999	1,228	78,162	3,933 1,603

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
7	Dairy	0	0	Central	3	Largel	273,999	190	12,925	600
7	Dairy	0	0	Mid-Atlantic	1	Largel	349,278	2,759	18,597	4,491
7	Dairy	0	0	Mid-Atlantic	2 .	Large1	349,278	1,075	. 57,990	1,314
7	Dairy	0	0	Mid-Atlantic	3	Large1	349,278	190	17,313	600
7	Dairy	0	0	Midwest	1	Large1	280,372	2,795	15,173	4,554
7	Dairy	0	0	Midwest	2	Largel	280,372	1,281	45,242	1,709
7	Dairy	0	0	Midwest	3	Largel	280,372	190	13,868	600
7	Dairy	0	0	Pacific '	1	Large1	290,359	2,530	14,893	4,057
7	Dairy	0	0	Pacific	2	Large1	290,359	1,010	76,755	1,203
7	Dairy	0	0	Pacific	3	Large1	290,359	190	13,743	600
7	Dairy	0	0	South	1	Large1	168,524	2,382	8,716	3,783
7	Dairy	0	0	South	2	Largel	168,524	742	40,386	690
7	Dairy	0	0	South	3	Large1	168,524	190	7,652	600
7	Dairy	0	0	Central	1 ;	Medium1	20,653	1,064	2,193	1,310
7	Dairy	0	0	Central	2 '	Medium1	20,717	1,122	3,741	1,412
7	Dairy	0	0	Central	3	Medium1	17,528	190	1,681	600
7	Dairy	0	0	Mid-Atlantic	· 1	Medium1	17,964	1,037	2,241	1,249
7	Dairy	0	0	Mid-Atlantic	2	Medium1	17,932	1,019	3,035	1,214
7	Dairy	0	0	Mid-Atlantic	3	Medium1	13,367	190	1,616	600
7	Dairy	0	0 .	Midwest	1	Medium1	17,349	1,060	2,244	1,294
7	Dairy	0	0	Midwest	2	Medium1	17,328	1,048	2,824	1,268
7	Dairy	0	0	Midwest	3	Medium1	12,711	190	1,585	600
7	Dairy	0	0	Pacific	1	Medium1	21,991	1,004	2,229	1,187
7	Dairy	0	0	Pacific	2	Medium1	21,954	971	3,676	1,121
7	Dairy	0	0	Pacific	3	Medium1	18,968	190	1,753	600
7	Dairy	0	0	South	. 1	Medium1	21,627	955	2,150	
7	Dairy	0	0	South	2	Medium1	21,592	919	3,212	1,025
7	Dairy	0	0	South	3	Medium1	18,656	190	1,737	600
7	Dairy	0	0	Central	1	Medium2	109,228	1,422	6,665	1,972

Table 11-15. (Continued)

						13. (CORC				
Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
7	Dairy	0	. 0	Central	2	Medium2	108,613	1,057	21,077	1,289
7	Dairy	0	0	Central	3	Medium2	105,511	190	5,811	600
7	Dairy	0	0	Mid-Atlantic	1	Medium2	136,137	1,368	8,359	1,872
7 .	Dairy	0	0	Mid-Atlantic	2	Medium2	135,282	937	18,846	1,060
7	Dairy	0	- 0	Mid-Atlantic	3	Medium2	130,852	190	7,341	600
7	Dairy	0	0	Midwest	1	Medium2	108,918	1,411	7,039	1,959
7 .	Dairy	. 0	0	Midwest	2	Medium2	108,074	1,006	14,994	1,192
7	Dairy	0	0	Midwest	3	Medium2	103,530	190	5,978	600
7	Dairy	0	0	Pacific	1	Medium2	119,249	1,306	7,112	
7	Dairy	0 .	0	Pacific	2	Medium2	118,748	902	21,607	1,757
7	Dairy	0	0	Pacific	3	Medium2	115,834	190	6,327	993
7	Dairy	. 0	0	South	1	Medium2	74,211	1,209	4,776	600
7	Dairy	0	0	South	2	Medium2	73,771	802	15,323	1,569
7	Dairy	0	0	South	-3	Medium2	70,929	190	4.081	· 812 600

Table 11-16. Regulatory Compliance Costs for the Beef Industry

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
1	Beef	0	0	Central	1	Largel	869	1,941	2,061	2,962
1	Beef	0	0	Central	2	Large1	869	1,283	47,302	1,717
1	Beef	0	0	Central	3	Large1	869	190	1,253	600
1	Beef	0	0	Mid-Atlantic	1	Large1	2,464	2,014	2,184	3,100
1	Beef	0	0	Mid-Atlantic	2	Largel	2,464	1,264	24,559	1,671
1	Beef	. 0	0	Mid-Atlantic	3	Large1	2,464	190	1,333	600
1	Beef	0	0	Midwest	1	Large1	2,321	2,476	2,445	.3,961
1	Beef	0	0	Midwest	2	Large1	2,321	1,464	28,815	2,060
1	Beef	0	0	Midwest	. 3	Large1	2,321	190	1,326	600
1	Beef	0	0	Pacific	1	Large1	1,741	2,330	2,331	- 3,685
1	Beef	0	0	Pacific	2	Large1	1,741	1,487	53,685	2,091
1	Beef	0	0	Pacific	3	Large1	1,741	190	1,297	600
1	Beef	0	0	South	1	Large1	3,771	2,272	2,399	3,567
1	Beef	0	0	South	2	Large1	3,771	1,375	26,763	1,881
1	Beef	0	0	South	3	Large1	3,771	190	1,399	600
1	Beef	0	0	Central	1	Large2	12,238	21,531	14,027	39,812
1	Beef	0	0	Central	2	Large2	664,614	13,927	145,574	25,512
1	Beef	0	0	Central	3	Large2	12,238	190	1,822	600
1	Beef	0	0	Mid-Atlantic	1	Large2	38,849	22,767	16,077	42,133
1	Beef	0	0	Mid-Atlantic	. 2	Large2	687,347	14,089	105,111	25,809
1	Beef	0	0	Mid-Atlantic	3	Large2	38,849	190	3,152	600
1	Beef	0	0	Midwest	1	Large2	36,430	30,494	20,451	56,680
1	Beef	0 -	0	Midwest	2	Large2	622,064	18,774	108,476	34,627
1	Beef	0	0	Midwest	3	Large2	36,430	190	3,032	600
1 .	Beef	0	0	Pacific	1	Large2	26,754	28,019	18,527	52,032
1	Beef	0	0	Pacific -	2	Large2	701,378	18,285	162,592	33,710
1	Beef	0	0	Pacific	3	Large2	26,754	190	2,548	600
1	Beef	0	0	South	1	Large2	60,622	27,068	19,667	50,234

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Pid		
1	Beef	0	0	South	2	Large2	638,840	Fixed	O & M	3 yr rec
1	Beef	0	0	South	3	Large2		16,695	103,905	30,712
1	Beef	0	ŏ	Central	. J	Medium2	60,622	190	4,241	. 600
1	Beef	0 .	0	Central	2	Medium2	40,168	1,206	5,024	1,573
1	Beef	0	0	Central	3	Medium2	38,706	1,090	6,719	1,358
1	Beef	0	0	Mid-Atlantic	1	Medium2	7,501	190	1,477	600
1	Beef	0	0	Mid-Atlantic	2	Medium2	46,348	1,237	5,445	1,635
· 1	Beef	0.	0	Mid-Atlantic	3	Medium2	44,611	1,102	5,939	1,374
1 .	Beef	0	0	Midwest	1	Medium2	13,266	190	1,766	600
1	Beef	0	0	Midwest	2	Medium2	45,620	1,429	5,981	1,994
1	Beef	0	0	Midwest	3	Medium2	42,943	1,248	6,658	1,650
1	Beef	0	0	Pacific	1	Medium2	9,702	190	1,593	600
1	Beef	0	0	Pacific	2	Medium2  Medium2	49,009	1,368	5,984	1,871
1	Beef	0	0	Pacific	3		46,865	1,217	7,974	1,589
1	Beef	0	0	South		Medium2	14,043		1,804	600
1	Beef	0	0	South	2	Medium2	49,496	1,345	5,944	1,820
1	Beef	0	0	South	3	Medium2	47,240	1,183	6,524	1,522
1	Beef	0	0	Central	3	Medium2	14,877	- 190	1,846	600
1	Beef	0	0			Medium1	37,279	879	2,930	954
1	Beef	0	0	Central	2	Medium1	37,095	859	2,897	908
1	Beef	0		Central	3 .	Medium1	8,366	190	1,563	600
1	Beef	0		Mid-Atlantic		Medium1	40,380	890	3,204	969
1	Beef			Mid-Atlantic	2	Medium1	40,195	871	3,088	943
1	Beef	0		Mid-Atlantic	3	Medium1	11,355	190	1,712	600
1			0	Midwest	11	Medium1	39,249	963	3,772	1,107
1	Beef	0	0	Midwest	2	Medium1	38,928	933	3,630	1,046
1	Beef	0	0	Midwest	3	Medium1	9,479	190	1,622	600
1	Beef	0	0	Pacific	1	Medium1	41,387	940	3,699	1,076
1	Beef	0	0	Pacific	2	Medium1	41,113	913	3,675	1,020
<u> </u>	Beef	. 0	0	Pacific	3	Medium1	11,859	190	1,738	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
1	Beef	0	0	South	1	Mediuml	41,550	933	3,646	1,046
1	Beef	0	0	South	2	Mediuml	41,278	906	3,501	1,010
1	Beef	0	0	South	3	Mediuml	· 12,101	190	1,750	600
1 .	Beef	0	, 0	Central	1	Largel	20,155	3,352	3,846	5,612
1	Beef	0	0.	Mid-Atlantic	1	Largel	47,073	2,420	4,650	3,862
1	Beef	0	0	Midwest	11	Largel	14,357	2,548	3,089	4,096
1	Beef	0	0	Pacific	1	Large1	45,036	3,144	4,970	5,216
1	Beef	0	.0	South	1	Largel	3,771	2,778	2,693	4,521
1	Beef	0	0	Central	1	Large2	128,183	32,110	25,979	59,719
1	Beef	0	0	Mid-Atlantic	1	Large2	297,158	25,630	30,658	47,522
1	Beef	0	0	Midwest	1	Large2	105,992	30,960	24,200	57,556
1	Beef	0	0	Pacific	1	Large2	287,781	34,574	35,392	64,367
1	Beef	0	0	South	11	Large2	60,622	30,666	21,761	57,004
1	Beef	0	0	Central -	1	Medium2	78,618	1,974	7,400	3,018
1	Beef	0	0	Mid-Atlantic	1	Medium2	66,676	1,510	6,870	2,145
· 1	Beef	0	0	Midwest	1	Medium2	55,271	1,543	6,578	2,206
1	Beef	0	0	Pacific	1	Medium2	74,817	1,910	7,985	2,894
1 .	Beef	0	0	South	1	Medium2	62,761	1,935	7,253	2,935
1 -	Beef	0	0	Central	1	Medium1	41,488	1,162	4,162	1,485
1	Beef	0	0	Mid-Atlantic	· 1	Medium1	41,610	991	3,791	1,160
-1	Beef	0	0	Midwest	1	Medium1	39,795	1,005	3,973	1,185
1	Beef	0	0	Pacific	1	Medium1	43,854	1,139	4,770	1,448
1	Beef	0	0	South	1	Mediuml	44,360	1,148	4,728	1,458
1	Beef	0	0	Central	2	Large1	20,155	3,985	16,993	6,797
1	Beef	. 0	0	Mid-Atlantic	2	Large1	47,073	2,298	15,699	3,621
1	Beef	0	0	Midwest	2	Large1	14,357	1,811	24,514	2,713
1	Beef	0	0	Pacific	2	Largel	45,036	2,812	25,420	4,583
1	Beef	0	0 .	South	2	Largel	3,771	2,614	17,620	4,214
1	Beef	0	0	Central	2	Large2	503,452	46,972	115,571	87,690

Option	Animal	Man type	Operation	Region	Category	Size ID		-		
1	Beef	0	0	Mid-Atlantic	2		Capital	Fixed	O&M	3 yr rec
1	Beef	0	0	Midwest	2	Large2	297,158	24,601	174,430	45,589
1	Beef	0	0	Pacific	2	Large2	650,147	21,138	106,790	39,075
1	Beef	0	0			Large2	287,781	35,006	318,176	65,170
1	Beef	0	0	South	2	Large2	60,622	. 29,544	201,385	54,892
1	Beef	0		Central	2	Medium2	90,190	2,518	10,055	4,040
. 1	Beef	0	0 .	Mid-Atlantic	2	Medium2	69,691	1,683	8,685	2,470
1	Beef	0	0	Midwest	2	Medium2	56,652	1,585	7,658	2,283
1			0	Pacific	2	Medium2	75,218	1,969	9,792	3,001
1	Beef	0	0	South	2	Medium2	64,706	2,080	8,673	3,213
1	Beef	0	0	Central	2	Medium1	45,174	1,429	5,584	1,981
1	Beef	0	0	Mid-Atlantic	2	Medium1	42,861	1,098	4,628	1,366
1	Beef	0	0	Midwest	2	Medium1	40,581	1,064	4,329	1,293
1	Beef	0	0	. Pacific	2 .	Medium1	44,588	1,204	5,390	1,561
1	Beef	0	0	South	2	Medium1	45,668	1,258	5,479	1,671
1	Beef .	0	0	Central	3	Large1	20,155	. 190	2,217	600
1	Beef	0	0	Mid-Atlantic	3	Large1	47,073	190	3,563	600
1	Beef	- 0	0	Midwest	3	Large1	14,357	190	1,928	600
. 1	Beef	0	. 0	Pacific	3	Large1	45,036	190	3,462	600
1	Beef	0	0	South	3	Large1	3,771	190	1,399	600
1 -	Beef	. 0	0	Central	3	Large2	128,183	190	7,619	600
1	Beef	0	0	Mid-Atlantic	3	Large2	297,158	190	16,067	600
1	Beef	0	0	Midwest	3	Large2	105,992	190	6,510	600
1	Beef	0	0	Pacific	3	Large2	287,781	190	15,599	600
1	Beef	0	0	South	3	Large2	60,622	190	4,241	600
1	Beef	0	0	Central	3	Medium2	24,794	190	2,342	600
1	Beef	0	0	Mid-Atlantic	3	Medium2	28,068	190	2,506	
1	Beef	0	0	Midwest	3	Medium2	16,774	190	1,947	600
1	Beef	0	0	Pacific	.3	Medium2	28,524	190		600
1	Beef	0	0	South	3	Medium2	14,877	190	2,528 1,846	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
1	Beef -	0	0	Central	3	Medium1	8,366	190	1,563	600
1	Beef	0	0	Mid-Atlantic	3	Medium1	11,355	190	1,712	600
1	Beef	0	0	Midwest	3	Medium1	9,479	· 190	1,622	600
1	Beef	0	0	Pacific	3	Medium1	11,859	190	1,738	600
1	Beef	0	0	South	3	Medium1	12,101	190	1,750	600
2	Beef	0	0	Central	°1	Largel	869	3,352	2,882	5,612
2	Beef	0	0	Mid-Atlantic	1	Largel	2,464	2,420	2,420	3,862
2	Beef	0	0	Midwest	1	Largel	2,321	2,548	2,487	4,096
2	Beef	0	0 -	Pacific	1	Largel	1,741	3,144	2,805	5,216
2	Beef	0	0	South	1	Largel	3,771	2,778	2,693	· 4,521
2	Beef	0	0	Central	2	Large1	869	3,985	16,029	6,797
2	Beef	0.	0	Mid-Atlantic	2	Largel	2,464	2,298	13,469	3,621
2	Beef	0	0	Midwest	2	Largel	2,321	- 1,811	23,912	2,713
2	Beef	0	0	Pacific	2	Largel	1,741	2,812	23,255	4,583
2	Beef	0	0	South	2	Large1	3,771	2,614	17,620	4,214
2	Beef	0	0	Central	3	Large1	869	190	1,253	600
2	Beef	. 0	0	Mid-Atlantic	3	Large1	2,464	190	1,333	600
2	Beef	0	0	Midwest	3	Largel	2,321	190	1,326	600
2 .	Beef	0	0	Pacific	3	Largel	1,741	190	1,297	600
2	Beef	0	0	South	3	Large1	3,771	190	1,399	600
2	Beef	0	0	Central	1	Large2	12,238	32,110	20,182	59,719
2	Beef	0	0	Mid-Atlantic	1	Large2	38,849	25,630	17,743	47,522
2	Beef	0	0	Midwest	1	Large2	36,430	30,960	20,722	57,556
2	Beef	0	0	Pacific	1	Large2	26,754	34,574	22,341	64,367
2	Beef	0	0	South	1	Large2	60,622	30,666	21,761	- 57,004
2	Beef	0	0	Central	2	Large2	387,507	46,972	109,774	87,690
2.	Beef	0	0	Mid-Atlantic	2	Large2	38,849	. 24,601	161,515	45,589
2	Beef	0	0	Midwest	2	Large2	580,585	21,138	103,312	39,075
2	Beef	0	0 .	Pacific	2	Large2	26,754	35,006	305,125	65,170

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0.01	
2	Beef	0	0	South .	2	Large2	60,622		0 & M	3 yr rec
2	Beef	0	0	- Central	3	Large2	12,238	29,544	201,385	54,892
2	Beef ·	0	. 0	Mid-Atlantic	3	Large2	38,849	190	1,822	600
2	Beef	0	0	Midwest	3	Large2		190	3,152	600
2	Beef	0	. 0	Pacific	3	Large2	36,430	190	3,032	600
2	Beef	0	0	South	3		26,754	190	2,548	600
2	Beef	. 0	0	Central	1	Large2 Medium1	60,622	190	4,241	600
2	Beef	0	0	Mid-Atlantic	1	Medium1	41,488	1,162	4,162	1,485
2	Beef	0	0	Midwest	$\frac{1}{1}$	Medium1	41,610	991	3,791	1,160
2	Beef	0	0	Pacific	<u>1</u>	Medium1	39,795	1,005	3,973	1,185
2	Beef	. 0	0	South	1		43,854	1,139	4,770	1,448
2	Beef	0	0	Central	2	Medium1	44,360	1,148	4,728	1,458
2	Beef	0	0	Mid-Atlantic	2	Medium1	45,174	1,429	5,584	1,981
2	Beef	0	0	Midwest		Medium1	42,861	1,098	4,628	1,366
2	Beef	0	0 .	Pacific	2	Medium1	40,581	1,064	4,329	1,293
2	Beef	0	0		2	Medium1	44,588	1,204	5,390	1,561
2	Beef	0	0	South	2	Mediuml	45,668	1,258	5,479	1,671
2	Beef	0		Central	3	Medium1	8,366	190	1,563	600
2	Beef	0	. 0	Mid-Atlantic	3	Medium1	11,355	190	1,712	600
2	Beef		0	Midwest	3	Medium1	9,479	190	1,622	600
2	Beef	0	0	Pacific	3	Medium1	11,859	190	1,738	600
2			0	South	3	Medium1	12,101	190	1,750	600
2	Beef	0	0	Central	<u>l</u>	Medium2	61,325	1,974	6,535	3,018
2	Beef	0		Mid-Atlantic	1	Medium2	51,874	1,510	6,130	2,145
	Beef	0	0	Midwest	1	Medium2	48,199	1,543	6,225	2,206
2	Beef	0	0	Pacific	1	Medium2	60,336	1,910	7,261	2,894
2	Beef	0	0	South	1	Medium2	62,761	1,935	7,253	2,935
2	Beef	0	0	Central	2	Medium2	72,897	2,518	9,190	4,040
2	Beef	0		Mid-Atlantic	2 .	Medium2	54,889	1,683	7,945	2,470
2	Beef	0	0	Midwest	2	Medium2	49,580	1,585	7,304	2,283

Option	Animal∙	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
2	Beef	0	0	Pacific	2	Medium2	60,737	1,969	9,068	3,001
2	Beef	0	0	South	2	Medium2	64,706	2,080	8,673	3,213
2	Beef	0	0	Central	3	Medium2	7,501	190	1,477	600
2	Beef	0	0	Mid-Atlantic	3	Medium2	13,266	190	1,766	600
2	Beef	0	0	Midwest	3 -	Medium2	9,702	190	1,593	600
2 .	Beef	0	0	Pacific	3	Medium2	14,043	190	1,804	600
2	Beef	0	0	South	3	Medium2	14,877	190	1,846	600
3	Beef	0	0	Central	1	Large1	43,694	5,760	4,466	5,612
3	Beef	0	0	Mid-Atlantic	1	Largel	126,820	5,101	7,645	3,862
3	Beef	0	0	Midwest	1	Large1	109,638	5,601	6,693	4,096
3	Beef	0	0	Pacific	1	Largel	67,590	5,250	5,602	5,216
3	Beef	0	0	South	1	Largel	127,811	5,424	7,953	4,521
3	Beef	0	0	Central	2	Large1	43,694	3,985	17,613	6,797
3	Beef	0	0	Mid-Atlantic	2	Large1	126,820	2,298	18,694	3,621
- 3	Beef	0	0	Midwest	2	Large1	109,638	1,811	28,118	2,713
3	Beef	0	0	Pacific	2	Largel	67,590	2,812	26,053	4,583
3	Beef	0	0	South	2	Largel	127,811	2,614	22,880	4,214
3	Beef	0	0	Central	3	Large 1	43,694	190	2,837	600
3	Beef	0	0	Mid-Atlantic	3	Large1	126,820	190	6,558	600
3	Beef	0	0	Midwest	. 3	Large1	109,638	190	5,532	600
3	Beef	0	0	Pacific	3	Largel	67,590	190	4,094	600
3	Beef	0	0	South	3	Large1	127,811	. 190	6,659	600
3	Beef	0	0	Central	1	Large2	460,625	34,915	33,080	59,719
3	Beef	0	0	Mid-Atlantic	1	Large2	1,249,800	28,569	61,283	47,522
3	Beef	0	0	Midwest	1	Large2	1,116,166	34,059	54,907	57,556
3	Beef	0	0	Pacific	1	Large2	658,940	37,208	45,465	64,367
3	Beef	0	0.	South	1	Large2	1,276,807	33,588	66,488	57,004
3	Beef	0	. 0	Central	2	Large2	835,894	46,972	122,672	87,690
3	Beef	0	0	Mid-Atlantic	2	Large2	1,249,800	24,601	205,056	45,589

Option	Animal	Man type	Operation	Docies		10. (Conti				
3	Beef	0	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
3	Beef	0		Midwest	2	Large2	1,660,321	21,138	137,496	39,075
3	Beef	0	0	Pacific	2	Large2	658,940	35,006	328,249	65,170
3	Beef	0	0	South	2	Large2	1,276,807	29,544	246,112	54,892
. 3	Beef	<u> </u>	0	Central	3	Large2	460,625	190	14,720	600
3	Beef	. 0	0	Mid-Atlantic	3	Large2	1,249,800	190	46,693	600
3	Beef	0	0	Midwest	3	Large2	1,116,166	190	37,216	600
3		0	0	Pacific	3	Large2	658,940	190	25,671	600
3	Beef	0	0	South	3	Large2	1,276,807	190	48,969	600
	Beef	0	0 .	Central	1	Medium1	53,321	3,344	4,643	1,485
. 3	Beef	. 0	0	Mid-Atlantic	1	Medium1	* 76,294	3,394	5,328	1,160
3	Beef	0	0	Midwest	1	Medium1	70,522	3,847	5,280	1,185
3	Beef	0 .	0	Pacific	1	Medium1	62,755	2,623	5,616	1,448
3 .	Beef	0	. 0	South	1	Medium1	79,171	2,917	6,282	1,458
3	Beef	0	0	Central	2	Medium1	57,007	1,429	6,065	1,981
. 3	Beef	0	0	Mid-Atlantic	2	Medium1	. 77,544	1,098	6,164	1,366
3	Beef	0	0	Midwest	2	Medium1	71,308	1,064	5,636	1,293
3	Beef	0	0	Pacific	2	Medium1	63,489	1,204	6,237	1,561
3	Beef \	0	0	South	2	Medium1	80,479	1,258	7,032	1,671
3	Beef	0	0	Central	3	Medium1	20,199	190	2,044	600
3	Beef	0	0	Mid-Atlantic	3	Medium1	46,039	190	3,249	. 600
3	Beef	0	. 0 -	Midwest	3	Medium1	40,207	190	2,929	600
3	Beef	0	0	Pacific	3	Medium1	30,760	190	2,584	600
3	Beef	0	. 0	South	3	Medium1	46,912	190	3,304	600
3	Beef	0	0	Central	1	Medium2	84,414	4,156	7,481	3,018
3	Beef	0	0	Mid-Atlantic	1	Medium2	117,418	3,913	9,039	2,145
3	Beef	0	0	Midwest	1	Medium2	106,151	4,385	8,690	
3	Beef	- 0	, 0	Pacific	1	Medium2	95,342	3,394	8,828	2,206
3	Beef	0	0	South	1 .	Medium2	128,175	3,704		2,894
3	Beef	0	0 .	Central	2	Medium2	95,986		10,172	2,935
A							33,360	2,518	10,137	4,040

Table 11-16. (Continued)

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
3	Beef	0	0	Mid-Atlantic	2	Medium2	120,433	1,683	10,855	2,470
3	Beef	0	0 ^	Midwest	2	Medium2	107,532	1,585	9,770	2,283
3	Beef	0	0	Pacific	2	- Medium2	95,744	1,969	10,635	3,001
3	Beef	0	- 0	South	2	Medium2	130,120	2,080	11,592	3,213
3	Beef	0	0	Central	3	Medium2	30,590	190	2,424	600
3	Beef	0	0	Mid-Atlantic	3	Medium2	78,810	190	4,675	600
3	Beef	0	0	Midwest	3	Medium2	67,654	190	4,059	600
3	· Beef	0	0	Pacific	3	Medium2	49,050	190	3,371	600
3	Beef	0	0	South	3	Medium2	80,290	190	4,766	600
4	Beef	0	0	Central	1	Large1	44,086	5,760	10,718	5,612
4	Beef	0	0.	Mid-Atlantic	1	- Large1	127,212	5,101	13,897	3,862
4	Beef	0	0	Midwest	1	Large1	110,030	5,601	12,945	4,096
4	Beef	0	0	Pacific	1	- Large1	67,982	5,250	11,854	5,216
4	Beef	0	0	South	1	· Large1	128,203	5,424	14,205	4,521
4	Beef	.0	0	Central	2	Large1	44,086	3,985	23,865	6,797
4	Beef	0	0	Mid-Atlantic	2	Large1	127,212	2,298	24,946	3,621
4	Beef	0	0	Midwest	2	- Large1	110,030	1,811	34,370	2,713
4	Beef	0	0	Pacific	2	Largel	67,982	2,812	32,305	4,583
4	Beef	0	- 0	South	2	· Large1	128,203	2,614	29,132	4,214
4	Beef	0	0	Central	3	Large1	44,086	190	9,089	600
- 4	Beef	0	0	Mid-Atlantic	3	Large1	127,212	190	12,810	600
4	Beef	0	0	Midwest	3	Large1	110,030	190	11,784	600
4	Beef	0	0	Pacific	3	Large1	67,982	190	10,346	600
4	Beef	0	0	South	3	· Large1	128,203	190	12,911	600
4	Beef	0 .	0	Central	1	Large2	461,017	34,915	39,332	59,719
4	Beef	0	0	Mid-Atlantic	1	Large2	1,250,192	28,569	67,535	47,522
4	Beef	0	0	Midwest	1	Large2	. 1,116,558	34,059	61,159	57,556
4	Beef	0	0	Pacific	1	Large2	659,332	37,208	51,717	64,367
4	Beef	0	0	South	1	Large2	1,277,199	33,588	72,740	57,004

Option -	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O & M	
4	Beef	0	0	Central	2	Large2	836,286	46,972		3 yr rec
4	Beef	0	0	Mid-Atlantic	2	Large2	1,250,192	24,601	128,924	87,690
4	Beef	0	0	Midwest	2	Large2	1,660,713		211,308	45,589
4	Beef	0	0	Pacific	2	Large2	659,332	21,138	143,748	39,075
4	Beef	0	0 -	South	2	Large2	1,277,199	35,006	334,501	65,170
4	Beef	0	0	Central	3 ;	Large2	461,017	29,544 190	252,364	54,892
4	Beef	0	0	Mid-Atlantic	3	Large2	1,250,192	190	20,972	600
4	Beef	0	0	Midwest	3	Large2	1,116,558	190	52,945	. 600
4	Beef	0.	0	Pacific	3	Large2	659,332	190	43,468	600
4	Beef	0	0	South	3	Large2	1,277,199	190	31,923	600
4 ,	Beef	0	0	Central	1	Medium1	53,713		55,221	600
4	Beef	0	0	Mid-Atlantic	1	Medium1	76,686	3,344	10,895	1,485
4	Beef	0	0	Midwest	1	Medium1	70,080	3,394	11,580	1,160
4	Beef	. 0	0	Pacific	1	Medium1	63,147	3,847	11,532	1,185
4	Beef	0	0	South	1	Medium1	79,563	2,623 2,917	11,868	1,448
4	Beef	0	0	Central	2	Medium1	57,399	1,429	12,534	1,458
4	Beef	0	0	Mid-Atlantic	2	Medium1	77,936	1,098	12,317	1,981
4	Beef	0	0 .	Midwest	2	Medium1	71,700	1,064	12,416	1,366
4	Beef	0	0	Pacific	2	Medium1	63,881	1,204	11,888 12,489	1,293
4 .	Beef	0 .	0	South	2	Medium1	80,871	1,258		1,561
4	Beef	0	0	Central	3	Medium1	20,591	190	13,284 8,296	1,671
4	Beef	٠ 0	0	Mid-Atlantic	3	Medium1	46,431	190	9,501	600
4	Beef	0	0	Midwest	3	Medium1	40,599	190	9,301	600
4	Beef	0	0	Pacific	3	Medium1	31,152	190	8,836	600
4	Beef	0	0 .	South	3	Medium1	47,304	190	9,556	600 600
4	Beef	0	0	Central	1	Medium2	84,806	4,156	13,733	
4	Beef	0	0	Mid-Atlantic	1	Medium2	117,810	3,913	15,291	3,018
4	Beef	0	0	Midwest	1	Medium2	106,543	4,385	14,942	2,145
4	Beef	0	0	Pacific	1	Medium2	95,734	3,394	15,080	2,206 2,894

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
4	Beef	0	0	*South	1	Medium2	128,567	3,704	16,424	2,935
4	Beef	0	0	Central	2	Medium2	96,378	2,518	16,389	4,040
4	Beef	0	0	Mid-Atlantic	2	Medium2	120,825	1,683	17,107	2,470
4	Beef	0	0	Midwest	2	Medium2	107,924	1,585	16,022	2,283
4	Beef	0	0	Pacific	2	Medium2	96,136	1,969	16,887	3,001
4	Beef	0	0 '	South	2	Medium2	130,512	2,080	17,844	3,213
4	Beef	0	0	Central.	3	Medium2	30,982	190	8,676	600
4	Beef	0	0	Mid-Atlantic	3	Medium2	79,202	190	10,927	600
4	Beef	0	0	Midwest	3	Medium2	68,046	190	10,311	600
4	Beef	0	0	Pacific	3	Medium2	49,442	190	9,623	600
4	Beef	0	0	South	3	Medium2	80,682	190	11,018	600
5	Beef	0	0	Central	. 1	Largel	10,026	3,352	100,067	5,612
5	Beef	0	0	Mid-Atlantic	1	Largel	11,621	2,420	86,435	3,862
5	Beef	. 0	0	Midwest	1	Large1	11,478	2,548	89,251	4,096
5	Beef	0	0	Pacific	1	Largel	10,897	3,144	86,829	- 5,216
5	Beef	0	0	South	1	Large1	12,927	2,778	86,609	-4,521
5	Beef	0	0	Central	2	Large1	10,026	3,985	113,155	6,797
5	Beef	0	0	Mid-Atlantic	2	Large1	11,621	2,298		3,621
5	Beef	0 .	- 0	Midwest	,2	Large1	11,478	1,811	110,595	2,713
5	Beef	0	0	Pacific	2 ·	Large1	10,897	2,812	107,079	4,583
5	Beef	0	0	South	2	Large1	12,927	2,614	101,415	4,214
5	Beef	0	. 0	Central	3	Large1	10,026	190	98,439	600
5	Beef	0	0	Mid-Atlantic	3	Large1	11,621	190	85,349	600
5	Beef	0	0	Midwest	3	Large1	11,478	190	88,090	600
5	Beef	0	0	Pacific	3	Largel	10,897	. 190	85,321	600
5	Beef	0	0	South	3	Largel	12,927	190	85,314	600
5	Beef	0	0	Central	1	Large2	21,395	32,110	1,639,971	59,719
5	Beef	0	0	Mid-Atlantic	1	Large2	48,006	25,630	1,418,158	47,522
5	Beef	0	0	Midwest	1	Large2	45,587	30,960	1,466,719	57,556

Option	A mina al	I 37	To			-16. (Conti				
5	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O & M	3 yr rec
	Beef	0	0	Pacific	1	Large2	35,911	34,574	1,422,903	64,367
5	Beef	0	0 .	South	1	Large2	69,779	30,666	1,420,514	57,004
5	Beef	0	0	Central	2	Large2	382,306	46,972	1,728,577	87,690
5	Beef	0	0	Mid-Atlantic	2	Large2	48,006	24,601	1,560,703	45,589
5	Beef	0	0	Midwest	2	Large2	647,503	21,138	1,556,128	39,075
+ 5	Beef	0	0	Pacific	2	Large2	35,911	35,006	1,702,393	65,170
5	Beef	0	0	South	2	Large2	69,779	29,544	1,598,328	54,892
5	Beef	0	0	Central	. 3	Large2	21,395	190	1,621,611	600
5	Beef	0 -	0	Mid-Atlantic	3	Large2	48,006	190	1,403,567	600
5	Beef	0	0	Midwest	3	Large2	45,587	190	1,449,029	600
5	Beef	0	00	Pacific	3 .	Large2	35,911	190	1,403,110	600
5	Beef	0	0	South	3	Large2	69,779	190	1,402,994	600
5	Beef	0	0	Central	1	Medium1	50,645	1,162	18,957	1,485
5	Beef	0	0	Mid-Atlantic	1	Medium1	50,767	991	16,579	1,160
5	Beef	0	0	Midwest	1	Medium1	48,951	1,005	17,186	1,185
5	Beef	0	0	Pacific	1	Medium1	53,011	1,139	17,559	1,448
5	Beef	0,	0	South	1	Medium1	53,517	1,148	17,501	1,458
5	Beef	0	0	Central	2	Medium1	54,331	1,429	20,368	1,981
5	Beef	. 0	. 0	Mid-Atlantic	2	Medium1	52,018	1,098	17,404	1,366
- 5	Beef	0	0	Midwest	2	Medium1	49,737	1,064	17,535	1,293
5	Beef	0	0	Pacific	2	Medium1	53,744	1,204	18,165	1,561
5	Beef	0	0	South	2 .	Medium1	54,824	1,258	18,243	1,671
5	Beef	0	0	Central	3	Medium1	17,522	190	16,358	
5	Beef	0	0	Mid-Atlantic	3	Medium1	20,512	190	14,500	600
5	Beef	0	0	Midwest	3	Medium1	18,636	190		600
5	Beef	0	0	Pacific	3	Medium1	21,016	190	14,835	600
5	Beef	0	0	South	3	Medium1	21,010	190	14,527	600
. 5	Beef ·	0	0	Central	<u> </u>	Medium2	70,481		14,522	600
5	Beef	0		Mid-Atlantic	1	Medium2		1,974	46,776	3,018
· · · · · · · · · · · · · · · · · · ·				ITALA-Z LUANIO		MEGIUIIIZ	61,030	1,510	40,912	2,145

Table 11-16. (Continued)

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
5	Beef	0	0	Midwest	1	Medium2	57,355	1,543	42,149	2,206
5	Beef	0	0	Pacific	1	Medium2	69,492	1,910	42,047	2,894
5	Beef	0	0	South	1	Medium2	71,918	1,935	41,994	2,935
5	Beef	0	0	Central	2	Medium2	82,054	2,518	49,374	4,040
5	Beef	0 -	0	Mid-Atlantic	2	Medium2	64,046	1,683	42,667	2,470
5	Beef	0	0	Midwest	2	Medium2	58,737	1,585	43,191	2,283
5	Beef	0	0	Pacific	2	Medium2	69,894	1,969	43,783	3,001
5	Beef	0	0	South	2	Medium2	73,863	2,080	43,369	3,213
5	Beef	0	0	Central	3	Medium2	16,658	190	41,719	600
5	Beef	0	0	Mid-Atlantic	3	Medium2	22,423	190	36,548	600
5	Beef	· 0	0	Midwest	3	Medium2	18,859	190	- 37,518	600
5	Beef	0	0	Pacific	3	Medium2	23,200	190	36,591	600
5	Beef	0	0	South	3	Medium2	24,033	190	36,588	600
6	Beef	0	0	Central	1	Large1	869	3,352	2,882	5,612
6	Beef	0	0	Mid-Atlantic	1	Large1	2,464	2,420	2,420	3,862
6	Beef	0	0	Midwest	1	Large1	2,321	2,548	2,487	4,096
· 6	Beef	0	0	Pacific	1	Large1	1,741	3,144	2,805	5,216
6	Beef	0	0	South	1	Large1	3,771	2,778	2,693	4,521
6	Beef	0	0	Central	2	Large1	869	3,985	16,029	6,797
6	Beef	0	0	Mid-Atlantic	2	Large1	2,464	2,298	13,469	3,621
6	Beef	0	0	Midwest	2 .	Large1	2,321	1,811	23,912	2,713
6	Beef	0	0	Pacific	2	Large1	1,741	2,812	23,255	4,583
6	Beef	0	0	South	2	Largel	3,771	2,614	17,620	4,214
6	Beef	0	0	Central	3	Large1	869	190	1,253	600
6	Beef .	0	0	Mid-Atlantic	3	Large1	2,464	190	1,333	600
6	Beef	0	0.	Midwest	3	Large1	2,321	190	1,326	- 600
6	Beef	0	0	Pacific	3	Large1	1,741	190	1,297	600
6	Beef	0	. 0	South	3	Large1	3,771	190	1,399	600
. 6	Beef	0	0	Central	1	Large2	12,238	32,110	20,182	59,719

Option	Animal	Man type	One-weither			10. (Conti				
6			Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
	Beef	0	0	Mid-Atlantic	1	Large2	38,849	25,630	17,743	47,522
6	Beef	0	0	Midwest	1	Large2	36,430	30,960	20,722	57,556
6	Beef	0	0	Pacific	1 .	Large2	26,754	34,574	22,341	64,367
6	Beef	0	0	South	1	Large2	60,622	30,666	21,761	57,004
6	Beef	. 0	.0	Central	2	Large2	387,507	46,972	109,774	87,690
6	Beef	0	0	Mid-Atlantic	2	Large2	38,849	24,601	161,515	45,589
6	Beef	0	0	Midwest	2	Large2	580,585	21,138	103,312	39,075
6	. Beef	0 .	0	Pacific	2	Large2	26,754	35,006	305,125	65,170
6	Beef	0	0	South	2	Large2	60,622	29,544	201,385	54,892
6	Beef	0	0	Central	3	Large2	12,238	190	1,822	600
6	Beef	0	0	Mid-Atlantic	3	Large2	38,849	190	3,152	600
6	Beef	0	. 0	Midwest	-3	Large2	36,430	190	3,032	600
6	Beef	0	0	Pacific	3	Large2	26,754	190	2,548	600
6	Beef	0	0	South	3	Large2	60,622	190	4,241	. 600
6	Beef	0	0	Central	1	Medium1	41,488	1,162	4,162	1,485
6	Beef	0 .	0	Mid-Atlantic	1	Medium1	41,610	991	3,791	1,160
6	Beef	0	0	Midwest	1	Medium1	39,795	1,005	3,973	1,185
6	Beef	0	0	Pacific	1	Medium1	43,854	1,139	4,770	1,448
6	Beef	0	0	South	1	Medium1	44,360	1,148	4,728	1,458
6	Beef	0	0	Mid-Atlantic	3	Medium1	11,355	190	1,712	600
6 <sup>.</sup>	Beef	0	0	Midwest	3	Medium1	9,479	190	1,622	600
. 6	Beef	0	0	Pacific	3	Medium1	11,859	190	1,738	600
6	Beef	0	0	South	3	Medium1	12,101	190	1,750	600
6	Beef	0	0	Central	2	Medium1	45,174	1,429	5,584	1,981
6 .	Beef	0	0	Mid-Atlantic	2	Medium1	42,861	1,098	4,628	1,366
6	Beef	0	0	Midwest	2	Medium1	40,581	1,064	4,329	1,293
6	Beef	-0	0	Pacific	2	Medium1	44,588	1,204	5,390	1,561
6	Beef	0	0	South	2	Medium1	45,668	1,258	5,479	1,671
6	Beef	0.	0	Central	3	Medium1	8,366	190	1,563	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
6	Beef	0	0	Central	1	Medium2	61,325	1,974	6,535	3,018
6	Beef	0	0	Mid-Atlantic	1	Medium2	51,874	1,510	6,130	2,145
6	Beef	0	0	Midwest	1	Medium2	48,199	1,543	6,225	2,206
6	Beef	0	0	Pacific	1	'Medium2	60,336	1,910	7,261	2,894
6	Beef	0	0	South	1	Medium2	62,761	1,935	7,253	2,935
6	Beef	0	0	Central	2	Medium2	72,897	2,518	9,190	4,040
6	Beef	0 .	0	Mid-Atlantic	2	Medium2	54,889	1,683	7,945	2,470
6	Beef	0	0	Midwest	2	Medium2	49,580	1,585	7,304	2,283
6	Beef	0	0	Pacific	2	Medium2	60,737	1,969	9,068	3,001
6	Beef	0	0	South	2	Medium2	64,706	2,080	8,673	3,213
6	Beef	0	. 0	Central	3	Medium2	7,501	190	1,477	600
6	Beef	0	0	Mid-Atlantic	3	Medium2	13,266	190	1,766	600
6	Beef	0	0	Midwest	3	Medium2	9,702	190	1,593	600
6 .	Beef	0	0	Pacific	3	Medium2	14,043	190	1,804	600
6	Beef	0	0	South	3	Medium2	14,877	190	1,846	600
7	Beef	0	0.	Central	1	Large1	20,155	3,352	3,846	5,612
7	Beef	0	0	Central	2	Large1	20,155	3,985	16,993	6,797
7	Beef	0 .	0	Central	3	Large1	20,155	190	2,217	600
7	Beef	0	0	Mid-Atlantic	1	Large1	47,073	2,420	4,650	3,862
7	Beef	0	0	Mid-Atlantic	. 2	Large1	47,073	2,298	15,699	3,621
7	Beef	0	0	Mid-Atlantic	3	Large1	47,073	190	3,563	600
7	Beef	0	0	Midwest	1	Large1	14,357	2,548	3,089	4,096
7	Beef	0	0	Midwest	2	Large1	14,357	1,811	24,514	2,713
7	Beef	0	0	Midwest	3	Large1	14,357	190	1,928	600
7	Beef	0	0	Pacific	1	Largel	45,036	3,144	4,970	5,216
7	Beef	0	0	Pacific	2	Large1	45,036	2,812	25,420	4,583
7	Beef	0	0	Pacific	3	Large1	45,036	190	3,462	600
_ 7	Beef	0	0	South	1	Large1	3,771	2,778	2,693	4,521
7.	Beef	0	0	South	2	Largel	3,771	2,614	17,620	4,214

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
7	Beef	0	0	South	3	Largel	3,771	190	1,399	600
7	Beef	0	0	Central	1	Large2	128,183	32,110	25,979	59,719
7	Beef	0	0	Central	÷ 2	Large2	503,452	46,972	115,571	87,690
7	Beef	0	0	Central	3	Large2	128,183	190	7,619	600
7	Beef	0	0	Mid-Atlantic	1	Large2	297,158	25,630	30,658	47,522
7	Beef	. 0	0	Mid-Atlantic	2	Large2	297,158	24,601	174,430	45,589
7	Beef	0	0 .	Mid-Atlantic	3	Large2	297,158	190	16,067	600
7	Beef	0	0	Midwest	- 1	Large2	105,992	30,960	24,200	57,556
7	Beef	0	. 0	Midwest .	2	Large2	650,147	21,138	106,790	39,075
7	Beef	0	0	Midwest	· 3	Large2	105,992	190	6,510	600
7	Beef	0	0	Pacific	1	Large2	287,781	34,574	35,392	64,367
7	Beef	0	0	Pacific	2	Large2	287,781	35,006	318,176	65,170
7	Beef	0	0	Pacific	. 3	Large2	287,781	190	15,599	600
7	Beef	0	0	South	. 1	Large2	60,622	30,666	21,761	57,004
7	Beef	0	0	South	2	Large2	60,622	29,544	201,385	54,892
7	Beef	0	0	South	. 3	Large2	60,622	190	4,241	600
7	Beef	0	.0	Central	1	Medium1	41,488	1,162	4,162	1,485
7	Beef	0	.0	Central .	2	Medium1	45,174	1,429	5,584	1,981
7	Beef	0	0	Central	- 3	Medium1	8,366	190	1,563	600
7	Beef	0	0	Mid-Atlantic	1	Medium1	41,610	991	3,791	1,160
7	Beef	0	0	Mid-Atlantic	2	Medium1	42,861	1,098	4,628	1,366
7.	Beef	0 .	0	Mid-Atlantic	3	Medium1	11,355	190	1,712	600
7	Beef	0	0	Midwest	1	Medium1	39,795	1,005	3,973	1,185
7	Beef	0	0 .	Midwest	2	Medium1	40,581	1,064	4,329	1,183
7	Beef	0	0	Midwest	3	Medium1	9,479	190	1,622	600
7	Beef	0	0	Pacific	1	Medium1	43,854	1,139	4,770	1,448
7	Beef	0	0	Pacific	2	Medium1	44,588	1,204	5,390	1,561
7	Beef	0	, 0 ·	Pacific	3	Medium1	11,859	190	1,738	600
7	Beef	0	0	South	1	Medium1	44,360	1,148	4,728	1,458

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
7	Beef	0	0	South	2	Mediuml	45,668	1,258	5,479	1,671
7	Beef	0	0	South	3	Medium1	12,101	190	1,750	600
7	Beef	0	0	Central	1	Medium2	78,618	1,974	7,400	3,018
7	Beef	0	0	Central	2	Medium2	90,190	2,518	10,055	4,040
7	Beef	0	0	Central	3	Medium2	24,794	190	2,342	600
7	Beef	. 0	0 -	Mid-Atlantic	1	Medium2	66,676	1,510	6,870	2,145
7	Beef	0	0	Mid-Atlantic	2	Medium2	69,691	1,683	8,685	2,470
7	Beef	0	0	Mid-Atlantic	3	Medium2	28,068	190	2,506	600
7	Beef	0	0	Midwest	1	Medium2	55,271	1,543	6,578	2,206
. 7	Beef	0	0	Midwest	2	Medium2	56,652	1,585	7,658	2,283
7	Beef	0	0	Midwest	3	Medium2	16,774	190	1,947	600
7	Beef	0	0	Pacific	1	Medium2	74,817	1,910	7,985	2,894
7	Beef	0	0	Pacific ·	2	Medium2	75,218	1,969	9,792	3,001
7 ·	Beef	0	0	Pacific	3	Medium2	28,524	190	2,528	600
7	Beef	0	0	South	1	Medium2	62,761	1,935	7,253	2,935
7	Beef	0	0	South	2	Medium2	64,706	2,080	8,673	3,213
7	Beef	0	0	South	3	Medium2	14.877	190	1.846	600

Table 11-17. Regulatory Compliance Costs for the Veal Industry

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
1	Veal	0 .	0	Central	1	Medium2	0			3 yr rec 1,31
1	Veal	0	0	Central	2	Medium2	0			60
1	Veal	0	. 0	Central	. 3	Medium2	0		-,-,-,	600
1	Veal	0	0. *	Mid-Atlantic	1	Medium2	0		-,	1,31
1	Veal	0	0	Mid-Atlantic	2 .	Medium2	0			600
1	Veal	0	0	Mid-Atlantic	3	Medium2	0		-3-20	600
1	Veal	0	0	Midwest	1	Medium2	. 0	1,075	1,514	
1	Veal	0	0	Midwest	2	Medium2	. 0	690	1,290	1,318
1	Veal	0	0	Midwest	3	Medium2	0	190	1,210	600
1	Veal	0	0	Pacific	1	Medium2	0	1,075	1,514	
1	Veal	0	.0	Pacific	2	Medium2	0	690	1,290	1,318
1	Veal	0	0	Pacific	3	Medium2	0	190	1,210	600
1	Veal	0 .	0	South	1	Medium2	. 0	1,075	1,514	
1	Veal	0	0	South	2	Medium2	0	690	1,290	1,318
1	Veal	0	0	South		Medium2	0	190	1,210	600
1	Veal	0	0	Central		Medium1	0	1,075	1,514	600
1	Veal	0	0	Central		Medium1	0	690	1,290	1,318
1	Veal	0	0	Central		Medium1	0	190	1,290	600
1	Veal	0	0	Mid-Atlantic		Medium1	0	1,075	1,514	600
1	Veal	0	0	Mid-Atlantic		Medium1	0	690	1,290	1,318
1 .	Veal	0	0	Mid-Atlantic	-	Medium1	0	190	1,210	600
1	Veal	0	0 .	Midwest		Medium1	0	1,075	1,514	600
1	Veal	0	0	Midwest		Medium1	0	690	1,290	1,318
1	Veal	0	0	Midwest		Medium1	0	190	1,210	600
1	Veal	0	0	Pacific		Medium1	0	1,075	1,514	600
1	Veal	0	0	Pacific		Medium1	0	690	1,314	1,318 600
1 .	Veal	.0	0	Pacific		Medium1	0	190	1,290	
1	Veal	0	0	South		Medium1	0	1,075	1,210	600 1,318

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
1	Veal	0	0	. South	2	Medium1	0	690	1,290	600
1	Veal	0	0	South	3	Mediuml	0	190	1,210	600
1	Veal	0	0	Central	1	Medium2	0	1,075	1,514	1,318
1	Veal	0	0	Mid-Atlantic	1	Medium2	. 0	1,075	1,514	1,317
1	Veal	0	0	Midwest	1	Medium2	0	1,075	1,514	1,317
1	Veal	0	0	Pacific	1	Medium2	0	1,075	1,514	1,318
1	Veal	0	0	South	1	Medium2	. 0	1,075	1,514	1,318
1	Veal	0	0	Central	1	Mediuml	0	1,075	1,514	1,318
1	Veal <sup>,</sup>	0	0	Mid-Atlantic	1	Medium1	0	1,075	1,514	1,317
1	Veal	0	0	Midwest	1	Medium1	0	1,075	1,514	1,317
1	Veal	0	0	Pacific	1	Medium1	0	1,075	1,514	1,318
1	Veal	0	0	South	1	Medium1	0	1,075	1,514	1,318
1	Veal	0	0	Central	2	Medium2	0	690	1,290	. 600
1	Veal	0	0 -	Mid-Atlantic	2	Medium2	0	690	1,290	600
1	Veal	. 0	0	Midwest	2	Medium2	0	. 690	1,290	600
1	Veal	0	0	Pacific	2	Medium2	0	690	1,290	600
1	Veal	0.	0	South	2	Medium2	. 0	690	1,290	600
1	Veal	0	0	Central	2	Medium1	0	690	1,290	600
1	Veal	0	0	Mid-Atlantic	2	Medium1	. 0	690	1,290	600
1	Veal	0	0	Midwest	2	Medium1	0	- 690	1,290	600
1 .	Veal	0	0	Pacific	2	Medium1	0	690	1,290	600
1	Veal	0	0	South	- 2	Medium1	0	690	1,290	600
1	Veal	0	0	Central	3	Medium2	0	190	1,210	- 600
1	Veal	0	0 .	Mid-Atlantic	. 3	Medium2	0	190	1,210	600
1	Veal	0	0	Midwest	3	Medium2	. 0	190	1,210	600
1	Veal	0	0	Pacific	3	Medium2	0	\$	1,210	600
1	Veal	0	. 0	South	3	Medium2	0		1,210	600
1 -	Veal	0	0	Central	3	Medium1	0	190	1,210	600
1	Veal	0	0	Mid-Atlantic	- 3	Medium1	0	190	1,210	600

Option	Animal	Man type	Operation	Region		Size ID	Capital	Fixed	O & M	Γ 2
1	Veal	0	0	Midwest	3	Medium1	0		1,210	3 yr rec
1	Veal	- 0	0	Pacific	3	Medium1	0			600
1	Veal	0	0	South .	3	Medium1	0			600
2	Veal	, 0	0	Central	1	Medium1	0		1,210 1,514	600
2	Veal	0	- 0	Mid-Atlantic	1	Medium1	0		1,514	1,318
2 .	Veal	0	0	Midwest	1 ·	Medium1	0		1,514	1,317
2	Veal	0	0	Pacific	1	Medium1	0		1,514	1,317
2	Veal	0	0	South	1	Medium1	0		1,514	1,318
2	Veal	0	0	Central	2	Medium1	0	690	1,290	1,318
2	Veal	0	0	Mid-Atlantic	2	Medium1	0:	690	1,290	600
2	Veal	0	0	Midwest	2	Medium1	0	690	1,290	600
2	Veal	0	0	Pacific	2	Medium1	. 0	690	1,290	600
2	Veal	0	0	South	2	Medium1	0	690	1,290	600 600
2	Veal	0	0 .	Central	3	Medium1	0	190	1,290	
2	Veal	0	0	Mid-Atlantic	3	Medium1	0	190	1,210	
2	Veal	0	0	Midwest	3	Medium1	0	190	1,210	600
2	Veal	0	0	Pacific	3	Medium1	0	190	1,210	600
2	Veal	0	0	South		Medium1	0	190	1,210	600
2	Veal	0	· 0	Central	1	Medium2	0	1,075	1,514	1,318
2	Veal	0	0	Mid-Atlantic		Medium2	0	1,075	1,514	1,317
2	Veal	0	0	Midwest		Medium2	0	1,075	1,514	1,317
2	Veal	0	0	Pacific	1	Medium2	0	1,075	1,514	1,317
2 .	Veal	0	0	South	1	Medium2	0	1,075	1,514	
2	Veal	0	. 0	Central		Medium2	0	690	1,290	1,318
2	Veal	0	0	Mid-Atlantic		Medium2	0	690	1,290	600
2	Veal	0	0	Midwest		Medium2	0	690	1,290	600
2	Veal	0	0	Pacific		Medium2	0	690	1,290	600
2	Veal	0	0	South		Medium2	0	690		600
2	Veal	0	0	Central		Medium2	0	190	1,290 1,210	600 600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O & M	3 yr rec
2	Veal	0	0	Mid-Atlantic	3	Medium2	0	190	1,210	600
2	Veal	0	0	Midwest	3	Medium2	0	190	1,210	600
2	Veal	0	0	Pacific	3	Medium2	0	190	1,210	600
2	Veal	0	0	South	3	Medium2	0	190	1,210	600
3	Veal	0	0	Central	1	Medium1	250	2,795	1,519	1,318
3	. Veal	0	0	Mid-Atlantic	i	Medium1	455	2,733	1,523	1,317
3	Veal	0	0	Midwest	. 1	Medium1	524	2,889	1,524	1,317
3	<b>Veal</b>	0	0	Pacific	1	Medium1	228	2,326	1,519	1,318
3	Veal	0	0	South	1	Medium1	432	3,421	1,523	1,318
3	Veal	0	.0	Central	2	Mediuml	250	690	1,295	600
3	Veal	0	0	Mid-Atlantic	2	Medium1	455	690	1,299	600
3	Veal	0	0	Midwest	2	Mediuml	524	690	1,300	600
3	Veal	0	0	Pacific	2	Medium1	228	690	1,295	600
3	Veal	0	0	South	2	Medium1	· 432	690	1,299	600
3	Veal	0	0	Central	3	Mediuml	250	190	1,215	600
3	Veal	0	0	Mid-Atlantic	3	Medium1	455	190	1,219	600
3	Veal	0	0	Midwest	3	Medium1	_524	190	1,220	600
3	Veal	0 .	0	Pacific	3	Medium1	228	190	1,215	600
3	Veal	0	0	South	3	Medium1	432	190	1,219	. 600
3	Veal	0	0	Central	1	Medium2	1,085	2,795	1,624	. 1,318
3	Veal	0	0	Mid-Atlantic	1	Medium2	1,996	2,733	1,717	1,317
3	Veal	0	0	Midwest	1	Medium2	2,259	2,889	1,743	1,317
3	Veal	0	0	Pacific	1	Medium2	. 998	2,326	1,616	1,318
3	Veal	0	0	South	1	Medium2	1,847	3,421	1,701	1,318
3	Veal	0	0	Central	2	Medium2	1,085			600
3	Veal	- 0	0	Mid-Atlantic	2	Medium2	1,996		1,493	600
3	Veal	0	0	Midwest	2	Medium2	2,259	690		600
3	Veal	0	0	Pacific	2	Medium2	998			600
3	Veal	0	0	South	2	Medium2	1,847	690	1,477	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
3	Veal	0	0	Central	3	Medium2	1,085	190	1,320	600
3	Veal	. 0	0	Mid-Atlantic	3	Medium2	1,996	190	1,413	600
3 4	Veal	0	0	Midwest	3	Medium2	2,259	190	1,439	600
3	Veal	0	0	Pacific	3	Medium2	998	190	1,312	600
3	Veal	0	0	South	3	Medium2	1,847	190	1,397	. 600
4	Veal	0	0	Central	. 1	Medium1	642	2,795	7,771	1,318
4	Veal	0	.0	Mid-Atlantic	1	Medium1	847	2,733	7,775	1,317
4 .	Veal	0	. 0	Midwest	1	Medium1	916	2,889	7,776	1,317
4	Veal	0	0	Pacific	1	Medium1	620	2,326	7,771	1,318
4	Veal	0	0	South	1	Medium1	824	3,421	7,775	1,318
4	Veal	0	0	Central	2	Medium1	642	690	7,547	600
4	Veal	0	0	Mid-Atlantic	2	Medium1	4 847	690	7,551	600
4	Veal	0	0	Midwest	2	Medium1	916	690	7,552	600
4	Veal	0	0	Pacific	2 .	Medium1	620	690	7,547	600
4	Veal	0 .	0	South	2	Medium1	824	690	7,551	600
4	Veal	0	. 0	Central	3	Medium1	642	190	7,467	600
4	Veal	0	0	Mid-Atlantic	3	Medium1	847	190	7,471	600
4	Veal	0	. 0	Midwest	3	Medium1	916	190	7,472	600
4	Veal	0	0	Pacific	3	Medium1	620	190	7,467	600
4	Veal	0	0	South	3	Medium1	824	190	7,471	600
4	Veal	0	0	Central	1	Medium2	1,477	2,795	7,876	1,318
. 4	Veal	0	0	Mid-Atlantic	1	Medium2	2,388	2,733	7,969	1,317
4	Veal	0	′0	Midwest	. 1	Medium2	2,651	2,889	7,995	1,317
4	Veal	0	0	Pacific	1	Medium2	1,390	2,326	7,868	1,318
4.	Veal	0	0	South	1	Medium2	2,239	3,421	7,953	1,318
4	Veal	0	0 .	Central	2	Medium2	1,477	690	7,652	600
4	Veal	0	0	Mid-Atlantic	2	Medium2	2,388	690	7,745	600
4	Veal	0	0	Midwest		Medium2	2,651	690	7,771	600
4	Veal	0	0	Pacific	2	Medium2	1,390	690	7,644	600

Table 11-17. (Continued)

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 уг гес
4	Veal	0	0	South	2	Medium2	2,239	690	7,729	600
4	Veal	0	0	Central	3	Medium2	1,477	190	7,572	600
4	Veal	0	0	Mid-Atlantic	3	Medium2	2,388	190	7,665	600
4	Veal	0 -	0	Midwest	3	Medium2	2,651	190	7,691	600
4	Veal	0	0	Pacific	3	Medium2	1,390	190	7,564	600
4	Veal	0	0	South	3	Medium2	2,239	190	7,649	600
5	Veal	0.	0 -	Central	1	Medium1	0	1,075	1,514	1,318
5.	Veal	0	0	Mid-Atlantic	1	Mediuml	0	1,075	1,514	1,317
5	Veal	0	0	Midwest	1	Medium1	0	1,075	1,514	1,317
5	Veal	0	0	' Pacific	1	Mediuml	0	1,075	1,514	1,318
5	Veal	0	0	South	1	Medium1	. 0	1,075	1,514	1,318
5	Veal	0	0	Central	2	Medium1	0	690	1,290	600
5	Veal	0	0	Mid-Atlantic	2	Medium1	0	690	1,290	600
5	Veal	0	0	Midwest	2	Medium1	0	690	1,290	600
5	Veal	0	0	Pacific	2	Medium1	. 0	690	1,290	600
5	Veal	0	0	South	2	Medium1	0	690	1,290	600
5	Veal	0	0	Central	3	Medium1	. 0	190	1,210	600
5	Veal	0	0	Mid-Atlantic	3	Medium1	0	190	1,210	600
5	Veal	0	0	Midwest	3	Medium1	. 0	190	1,210	600
5	Veal	0	0	Pacific	3	Medium1	0	190	1,210	600
5	Veal	0	0	South	3	Medium1	. 0	. 190	1,210	600
5	Veal	0	0	Central	1	Medium2	0	1,075	1,514	1,318
5	Veal	0	0	Mid-Atlantic	1	Medium2	. 0	1,075	1,514	1,317
5	Veal	0	0	Midwest	1	Medium2	0	1,075	1,514	1,317
5	Veal	. 0	0	Pacific	1	Medium2	0	1,075	1,514	1,318
5	Veal	0	0	South	1	Medium2	. 0		1,514	1,318
5	Veal	0	0	Central	2	Medium2	0		1,290	600
5	Veal	0	0	Mid-Atlantic	2	Medium2	0		1,290	600
5	Veal	0	0	Midwest	2	Medium2	0	690	1,290	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
5	Veal	0	0	Pacific	2	Medium2	0	690	1,290	600
. 5	Veal	0	0	South	2	Medium2	0	690	1,290	600
5	Veal	0	0	Central	3	Medium2	0	190	1,210	600
5	Veal	0	0	Mid-Atlantic	3	Medium2	0	190	1,210	600
5	Veal	. 0	0	Midwest	3	Medium2	0	190	1,210	600
5	Veal	0	0	Pacific	3	Medium2	0	190	1,210	600
· 5	Veal	0	0	South	3	Medium2	0	190	1,210	600
6	Veal	0	0	Central	1	Medium1	. 0	1,075	1,514	1,318
6	Veal	0	0	Mid-Atlantic	1 .	Medium1	. 0	1,075	1,514	1,317
6	Veal	0	0	Midwest	1	Medium1	. 0	1,075	1,514	1,317
6	Veal	0	0	Pacific	1	Medium1	0	1,075	1,514	1,318
6	Veal	0	0	South	1	Medium1	0	1,075	1,514	1,318
6	Veal	0	0	Central	2	Medium1	. 0	69.0	1,290	600
6	Veal	0	0	Mid-Atlantic	2	Medium1	0	690	1,290	600
6	Veal	0 .	0	Midwest	2	Medium1	0	690	1,290	600
6	Veal	0	0	Pacific	2	Medium1	0	690	1,290	600
6	Veal	0 ·	0	South	2	Medium1	0	690	1,290	600
6	Veal	0	0	Central	3	Medium1	0	190	1,210	600
6	Veal	0	0	Mid-Atlantic	3	Medium1	0	190	1,210	600
6	Veal	0	0.	Midwest	3	Medium1	0	190	1,210	. 600
6	Veal	0	0	Pacific	3	Medium1	0	190	1,210	600
6	Veal	0	0	South	3	Medium1	0	190	1,210	600
6	Veal	0	0	Central	1	Medium2	0	1,075	1,514	1,318
- 6	Veal	0	0	Mid-Atlantic	1	Medium2	0	1,075	1,514	1,317
6	Veal	0	0	Midwest	1	Medium2	0	1,075	1,514	1,317
6	Veal	0	0	Pacific Pacific	1	Medium2	. 0	1,075	1,514	1,318
6	Veal	0	0	South	1	Medium2	0	1,075	1,514	1,318
6	Veal	0	. 0	Central	2	Medium2	0	690	1,290	600
6	Veal	0	. 0	Mid-Atlantic	2	Medium2	0	690	1,290	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
6	Veal	0	0	Midwest	2	Medium2	0	690	1,290	600
6	Veal	0	<sup>*</sup> 0	Pacific	•2	Medium2	0	690	1,290	600
6	Veal	0	0	South	2	Medium2	0	690	1,290	600
6	Veal	0	0	Central	3	Medium2	0	190	1,210	600
6	Veal	0	0	Mid-Atlantic	3	Medium2	0	190	1,210	600
<sup>^</sup> 6	Veal	0	0	Midwest	3	Medium2	0	190	1,210	600
6	Veal	0	0	Pacific	3	Medium2	0	190	1,210	600
6	Veal	0	0	South	3	Medium2	0	190	1,210	600
7	Veal	0	0	Central	1	Medium1	0	1,075	1,514	1,318
7	Veal	0	0	Mid-Atlantic	1	Medium1	0	1,075	1,514	1,317
7	Veal	0	0	Midwest .	1	Medium1	0	1,075	1,514	1,317
7	Veal	· 0	0	Pacific	1	Medium1	0	1,075	1,514	1,318
7	Veal	0	0 -	South	1	Medium1	0	1,075	1,514	1,318
7	Veal	0 .	0	Central	2	Medium1	Ö	690	1,290	600
7	Veal	0	. 0	Mid-Atlantic	2	Medium1	0	690	1,290	600
7	Veal	0	0	Midwest	2	Medium1	0	690	1,290	600
7	Veal	0	0	Pacific	2	Medium1	0	690	1,290	600
7	Veal	Q	0	South	2	Medium1	0	690	1,290	. 600
7	Veal	0	0	Central	3	Medium1	0	190	1,210	600
7	Veal	0	0	Mid-Atlantic	3	Medium1	. 0	190	1,210	600
7	Veal	0	0	Midwest	3	Medium1	0	190	1,210	600
7	Veal	0	0	Pacific	3	Medium1	. 0	190	1,210	600
7	Veal	0	0	South	3	Medium1	0	190	1,210	600
7 .	Veal	0	0	Central	1	Medium2	0	1,075	1,514	1,318
7	Veal	0	0	Mid-Atlantic	1	Medium2	0	1,075	1,514	1,317
7	Veal	0 -	0	Midwest	1	Medium2	. 0	1,075	1,514	1,317
7	Veal	0	0	Pacific	1	Medium2	0	1,075	1,514	1,318
7	Veal	0	0	South	1	Medium2	- 0	1,075	1,514	1,318
7	· Veal	0	0	Central	2	Medium2	0			600

Table 11-17. (Continued)

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Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
7	Veal	0	0	Mid-Atlantic	2	Medium2	0	690	1,290	600
7	Veal	0	0	Midwest	2	Medium2	0	690	1,290	600
7	Veal	0	0	Pacific	2	Medium2	0	690	1,290	600
7	Veal	0	0 ·	South	2	Medium2	0	690	1,290	600
7	Veal	0	0	Central	3	Medium2	. 0	190	1,210	600
7	Veal	0	0	Mid-Atlantic	3	Medium2	. 0	190	1,210	600
7	Veal	0	0	Midwest	3	Medium2	0	190	1,210	600
7	Veal	0	0	Pacific	3	Medium2	0	190	1,210	600
7	Veal	0	0	South	3	Medium2	.0	190	1,210	600

Table 11-18. Regulatory Compliance Costs for the Heifer Industry

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
1	Heifers	0	0	Central	1	Largel	532	1,025	1,511	1,230
1	Heifers	0	0	Central	2	· Large1	532	1,006	2,012	1,184
1	Heifers	0	0	Central	3	Largel	532	190	1,237	600
1	Heifers	0	0	Mid-Atlantic	1	- Large1	1,386	1,094	1,594	1,363
1	Heifers	0	0	Mid-Atlantic	2	Largel	1,386	1,063	1,833	1,302
1	Heifers	0	0	Mid-Atlantic	3	Largel	1,386	190	1,279	600
1	Heifers	0	0	Midwest	1	Largel	1,308	1,133	1,613	1,435
1	Heifers	0	0	Midwest	2	Largel	1,308	1,102	1,898	1,374
1	Heifers	0	0	Midwest	3	Largel	1,308	190	1,275	600
1	Heifers	0	0	Pacific	1	Largel	999	1,133	1,598	1,435
1	Heifers	0	0	Pacific	2	Largel	999	1,102	2,161	1,374
1	Heifers	0	0	Pacific	3	Largel	. 999	190	1,260	600
1	Heifers	0	0 .	South	1	Large1	2,084	1,040	1,598	1,251
1	Heifers	0	0 -	South	2	Largel	2,084	1,010	1,859	1,190
1	Heifers	0	0	South	3	Largel	2,084	. 190	1,314	600
1	Heifers,	0	0	Central	1	Medium1	35,474	779	1,877	<b>75</b> 9
1	Heifers	0	0	Central	2	Medium1	35,474	759	3,714	733
1	Heifers	0	0	Central	3	Medium1	7,236	. 190	1,538	600
1	Heifers	0	0	Mid-Atlantic	1	Medium1	38,395	798	2,035	805
1	Heifers	0	0	Mid-Atlantic	2	Medium1	38,395	767	2,941	744
1	Heifers	0	. 0	Mid-Atlantic	3	Mediuml	10,157	190	1,684	. 600
1	Heifers	0	0	Midwest	1	Medium1	36,618	809	2,017	820
1	Heifers	0	0	Midwest	2	Medium1	36,584	779	4,716	<b>75</b> 9
1	Heifers	0	0	Midwest	3	Medium1	8,346	190	1,596	600
1	Heifers	0	0	Pacific	1	Medium1	38,887	809	2,129	820
1	Heifers	0	0	Pacific	2	Medium1	38,853	779	4,146	<b>75</b> 9
1	Heifers	0	0	Pacific -	3	Medium1	10,615	190	1,707	600
1	Heifers	0	0	South	1	Medium1	39,071	782	2,059	764
1	Heifers	0	0	South	2	Medium1	39,071	752	3,049	723

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
1	Heifers	0	0	South	3	Medium1	10,833	190		60
1	Heifers	0 -	. 0	Central	1	Medium2	37,198	859		90
1	Heifers	0	0	Central	· 2 .	Medium2	36,983	836		87
1	Heifers	0	0	Central	3	Medium2	8,468	190		60
1 .	Heifers	0	0	Mid-Atlantic	1.	Medium2	41,877	890		96
1	Heifers	0	0	Mid-Atlantic	2	Medium2	41,618	863		93:
1	Heifers	. 0	0	Mid-Atlantic	3	Medium2	12,851	190		60
1	.Heifers	0	0	Midwest	1	Medium2	39,428	913	3,395	1,020
1	Heifers	0	0	Midwest	2	Medium2	39,125	883	5,300	959
1	Heifers	0	0	Midwest	3	Medium2	10,174	190	1,674	600
1	Heifers	0	0	Pacific	1	Medium2	42,674	909	3,520	1,01
1	Heifers	0	0	Pacific	2	Medium2	42,409	883	3,827	959
. 1	Heifers	0	0	Pacific	3	Medium2	13,458	190	1,836	600
1	Heifers	0	0	South	1	Medium2	42,754	863	3,053	933
1	Heifers	0	0	South	2	Medium2	42,468	832	2,927	871
1	Heifers	0	0	South	3	Medium2	13,988	190	1,863	600
2	Heifers	0	0	Central	1	Large1	532	1,372	1,713	1,881
2	Heifers	0	0	Mid-Atlantic	1	Large1	1,386	1,202	1,657	1,565
2 .	Heifers	0	0	Midwest	1	Largel	1,308	1,152	1,624	1,472
2	Heifers	0	0.	Pacific	1	Large1	999	1,325	1,710	1,798
2	Heifers	0	0	South	1	Largel	2,084	1,139	1,656	1,439
2	Heifers	0	0	Central	2	Large1	532	2,038	2,295	3,139
2	Heifers	0	0	Mid-Atlantic	2	Large1	1,386	1,485	2,052	2,092
2	Heifers	0	0	Midwest	2	Large1	1,308	1,247	1,929	1,646
2	Heifers	0	0	Pacific	2	Large1	999	1,548	2,565	2,205
2	Heifers	0	0	South	2	Largel	2,084	1,378	2,222	1,890
- 2	Heifers	0	0	Central	- 3	Large1	532	190	1,237	600
2	Heifers	0	0	Mid-Atlantic	3	Large1	1,386	190	1,279	600
2	Heifers	0	0	Midwest	3	Large1	1,308	190	1,275	600

Option	Animal	Man type	Operation	Region	Category	· Size ID	Capital	Fixed	O&M	3 уг гес
2	Heifers	0	0	Pacific	3	Large1	999	190	1,260	600
2	Heifers	0	0	South	3	Large1	2,084	190	1,314	600
2	Heifers	0	0	Central	1	Medium1	36,722	901	2,816	990
2	Heifers	0	0	Mid-Atlantic	1	Medium1	38,836	844	2,511	890
2	Heifers	0	0	Midwest	1	Medium1	36,821	829	2,218	858
2	Heifers	0	0	Pacific	1	Medium1	39,674	890	3,037	971
2	Heifers	0	0	South	1	Medium1	39,701	- 858	2,818	909
2	Heifers	0	0	· Central	2	Medium1	37,038	945	4,782	1,076
2	Heifers	0	0	Mid-Atlantic	2	Medium1	38,877	841	5,176	878
2	Heifers	0	0	Midwest	2	Medium1	36,946	825	3,368	847
2	Heifers	0	0	Pacific	2	Medium1	39,481	869	4,530	931
2	Heifers	0	0	South	2	Medium1	39,399	830	3,590	859
2	Heifers	0	0	Central	3	Medium1	7,236	190	1,538	600
2	Heifers	0	0	Mid-Atlantic	3	Medium1	-10,157	190	1,684	600
2	Heifers	0	0 ·	Midwest	3	Medium1	8,346	190	1,596	600
2	Heifers	0	0	Pacific	3	Medium1	10,615	190	1,707	600
2	Heifers	0	0	South	3	Medium1	10,833	190	1,718	600
2	Heifers	0	0	Central	1	Medium2	40,313	1,088	3,877	1,341
2	Heifers	0	0	Mid-Atlantic	1	Medium2	42,915	978	-3,833	1,133
2	Heifers	0	0	Midwest	1	Medium2	39,888	951	3,605	1,090
2	Heifers	0	0	Pacific	1	Medium2	44,488	1,065	4,499	1,308
2	Heifers	0	0	South	• 1	Medium2	44,339	1,004	4,039	1,191
2	Heifers	0	0	Central	2	Medium2	42,350	1,259	7,144	1,672
2	Heifers	0	0	Mid-Atlantic	2	Medium2	43,575	1,039	4,862	1,262
2	Heifers	0	0.	Midwest	2	Medium2	40,362	990	4,101	1,160
2 .	Heifers	. 0	0	Pacific	2	Medium2	44,653	1,086	5,442	1,349
2	Heifers	0	0	South	2	Medium2	44,527	1,028	4,789	1,228
2	Heifers	0	0	Central	3	Medium2	8,468	190	1,586	600
2	Heifers	0	0	Mid-Atlantic	3 .	Medium2	12,851	190	1,806	· 600

_ ^						18. (Cont	mucuj			
Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
2	Heifers	0	0	Midwest	3	Medium2	10,174	190	1,674	600
2	Heifers	0	0	Pacific	3	Medium2	13,458	190		600
2	Heifers	0	0	South	. 3	Medium2	13,988	190		600
3	Heifers	0	0 .	Central	1	Large1	17,194	3,781		1,881
3	Heifers	0	0	Mid-Atlantic	1	Largel	63,166			1,565
3 .	Heifers	0	0	Midwest	1	Large1	48,366	4,206		1,472
3	Heifers	0	0	Pacific	1	Large1	34,401	3,431	3,437	1,798
3	Heifers	0	0	South	1	: Large1	64,315	3,786		1,439
3	Heifers	0	0	Central	2	Largel	17,194	2,038		3,139
3	Heifers	0	0	Mid-Atlantic	2	Largel	63,166	1,485	5,256	2,092
3	Heifers	0	0	Midwest	2	Large1	48,366	1,247	4,412	1,646
3	Heifers	0	0 -	Pacific	2	Large1	34,401	1,548	4,293	2,205
3	Heifers	0	0	South	2	Largel	64,315	1,378	5,438	1,890
3	Heifers	0	0	Central	3 .	Large1	17,194	190	2,132	600
3	Heifers	0	0	Mid-Atlantic	3	Large1	63,166	190	4,483	600
3	Heifers	0	0	Midwest	3	Large1	48,366	190	3,758	600
3	Heifers	0	0	Pacific	. 3	Large1	34,401	190	2,987	600
3	Heifers	0	0	South	3	Large1	64,315	190	4,531	600
3	Heifers	0	0	Central	1 1	Medium1	44,768	3,083	3,216	990
3	Heifers	0	0	Mid-Atlantic	1	Medium1	66,364	3,248	3,883	890
3	Heifers	0	0	Midwest	1	Medium1	59,466	3,671	3,346	858
3	Heifers	0	0	Pacific	1	Medium1	54,895	2,375	3,796	971
3	Heifers	0 .	0	South	1	Medium1	67,532	2,627	4,206	909
3	Heifers	0	0.	Central	2	Medium1	45,084	945	6,546	1,076
3	Heifers	0	0	Mid-Atlantic	2	Medium1	66,404	841	5,422	878
3	Heifers	0	0	Midwest	2	Medium1	59,591	825	5,767	847
3	Heifers	0	0	Pacific	2	Medium1	54,702	869	6,498	931
3	Heifers	0	0	South	2	Medium1	67,230	. 830	4,978	859
3	Heifers	0	0	Central	3	Medium1	15,282	190	1,939	600

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
3	Heifers	0	. 0	Mid-Atlantic	3	Medium1	37,684	190	3,057	600
3	Heifers	0	0	Midwest	3	Medium1	30,991	190	2,724	600
3	Heifers	0	0	Pacific	3	Medium1	25,836	190	2,466	600
3	Heifers	0	0	South	3	Medium1	38,664	190	3,106	600
3	Heifers	0	0	Central	1	Medium2	51,275	3,270	4,488	1,341
3	Heifers	<sup>^</sup> 0	0	Mid-Atlantic	1	Medium2	81,183	3,381	5,862	1,133
3	Heifers	0	0	Midwest	1	Medium2	70,809	3,793	5,281	1,090
3	Heifers	0	0	Pacific	1	Medium2	65,502	2,550	5,607	1,308
3	Heifers	0	0	South	1	Medium2	83,247	2,773	6,090	1,191
3	Heifers	0	0	Central	2	Medium2	53,312	1,259	6,051	1,672
3	Heifers	0	. 0	Mid-Atlantic	2	Medium2	81,842	1,039	8,370	1,262
3	Heifers	0	0	Midwest	2	Medium2	71,283	990	7,263	1,160
3	Heifers	0	0	Pacific	2	Medium2	65,666	1,086	6,550	1,349
3	Heifers	0	0	South	2	Medium2	83,435	1,028	6,840	1,228
3	Heifers	0	0	Central	3	Medium2	19,431	190	2,197	600
3	Heifers	0	. 0	Mid-Atlantic	3	Medium2	51,119	190	3,834	600
3	Heifers	0	0	Midwest	3	Medium2	41,096	190	3,350	600
3	Heifers	0	0	Pacific	3	Medium2	34,472	190	2,944	600
3	Heifers	0	0	South	3	Medium2	52,896	190	3,913	600
4	Heifers	0	0	Central	1	Large1	17,586	3,781	8,861	1,881
4	Heifers	0	0	Mid-Atlantic	1	Large1	63,558	3,883	11,113	1,565
4	Heifers	0	0	Midwest	1	Large1	48,758	4,206	10,359	1,472
4	Heifers	0	0	Pacific	1	Large1	34,793	3,431	9,689	1,798
4	Heifers	0	0	South	1	Large1	64,707	3,786	11,124	1,439
4	Heifers	0.	0	Central	2	Large1	17,586	2,038	9,443	3,139
4	Heifers	0	0	Mid-Atlantic	2	Large1	63,558	1,485	11,508	2,092
4	Heifers	0	0	Midwest	2	Large1	48,758	1,247	10,664	1,646
4	Heifers	0	0	Pacific	2	Large1	34,793	1,548	10,545	2,205
4	Heifers	0	0	South	2	Large1	64,707	1,378	11,690	1,890

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
4 .	Heifers	0	. 0	Central	3	Large1	17,586	190	8,384	600
. 4	Heifers	0	0	Mid-Atlantic	3	Large1	63,558	190	10,735	600
4	Heifers	0	0	Midwest	3	Large1	48,758	190	10,010	600
4 .	Heifers	0	0	Pacific	3	Large1	34,793	190		600
4	Heifers	0	0	South	3	Large1	64,707	190	10,783	600
4	Heifers	0	0	Central	1	Medium1	45,160	3,083	9,468	990
4 .	Heifers	. 0	0	Mid-Atlantic	1	Medium1	66,756	3,248	10,135	890
4	Heifers	0	0	· Midwest	1	Medium1	59,858	3,671	9,598	858
44	Heifers	0 '	0.	Pacific	1	Medium1	55,287	2,375	10,048	971
4	Heifers	. 0	0	South	1	Medium'1	67,924	2,627	10,458	909
4	Heifers	0	0	Central	2	Medium1	45,476	945	11,434	1,076
4	Heifers	0	0	Mid-Atlantic	2	Medium1	66,796	841	11,674	878
4	Heifers	0	0	Midwest	2	Medium1	59,983	825	10,748	847
4	Heifers	0	0.	Pacific	2	Medium1	55,094	869	11,541	931
4	Heifers	0	0	South	2	Medium1	67,622	830	11,999	859
4	Heifers	0	0	Central	3	Medium1	15,674	190	8,191	600
4	Heifers	0	0	Mid-Atlantic	3	Medium1	38,076	190	9,309	600
4	Heifers	0	0	Midwest	3	Medium1	1 31,383	190	8,976	600
4	Heifers	0	0	Pacific	3	Medium1	26,228	190	8,718	600
4	Heifers	0	0	South	3	Medium1	39,056	190	9,358	600
4	Heifers	0	0	Central	1	Medium2	51,667	3,270	10,740	1,341
4	Heifers	0	. 0	Mid-Atlantic	1	Medium2	81,575	3,381	12,114	1,133
4	Heifers	0	0	Midwest	1	Medium2	71,201	3,793	11,533	1,090
4	Heifers	0	0	Pacific	1	Medium2	65,894	2,550	11,859	1,308
4	Heifers	0	0	South	1	Medium2	83,639	2,773	12,342	1,191
4	Heifers	. 0	0	Central	2	Medium2	53,704	1,259	12,303	1,672
4	Heifers	0	0	Mid-Atlantic	2	Medium2	82,234	1,039	14,622	1,072
4	Heifers	0	0	Midwest	2	Medium2	71,675	990	13,515	1,160
4	Heifers	0	0	Pacific	2	Medium2	66,058	1,086	12,802	1,100

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	. 3 yr rec
4	Heifers	0	0	South	2	Medium2	83,827	1,028	13,092	1,228
4	Heifers	0	0	Central	3	Medium2	19,823	190	8,449	600
4	Heifers	0	0	Mid-Atlantic	3	Medium2	51,511	190	10,086	600
4	Heifers	0	0	Midwest	3	Medium2	41,488	190	9,602	600
4	Heifers	0	0	Pacific	3	Medium2	34,864	190	9,196	600
4 .	Heifers	0	0	South	3	Medium2	53,288	190	10,165	600
5	Heifers	0	0	Central	1	Largel	9,689	1,372	2,199	1,881
5	Heifers	0	0	Mid-Atlantic	1	Large1	10,542	1,202	2,142	1,565
5	Heifers	0	0	Midwest	1	Large1	10,465	1,152	2,110	1,472
5	Heifers	0	0 -	Pacific	1	Largel	10,156	1,325	2,195	1,798
5	Heifers	0	0	South	1	Largel	11,241	1,139	2,141	1,439
5	Heifers	0	0	Central	2	Large1	9,689	2,038	2,768	3,139
5	Heifers	0	0	Mid-Atlantic	2	Large1	10,542	1,485	2,522	2,092
5	Heifers	0	0	Midwest	2	Largel	10,465	1,247	2,398	1,646
5	Heifers	0	0	Pacific	2	Largel	10,156	1,548	3,002	2,205
5	Heifers	Ö	0	South	2	Largel	11,241	1,378	2,679	1,890
5	Heifers	0	0	Central	3 .	Largel	9,689	190	1,722	600
5	Heifers	0	0	Mid-Atlantic	3	Large1	10,542	-190	1,765	600
5	Heifers	0	0	Midwest	3	Large1	10,465	190	1,761	600
5	Heifers	0	0	Pacific	3	Large1	10,156	190	1,745	, 600
5	Heifers	0	0	South	3	Large1	11,241	190	1,800	600
5	Heifers	0	0	Central	1	Medium1	45,878		3,114	990
5	Heifers	0	0	Mid-Atlantic	· 1	Medium1	47,993		2,809	890
5	Heifers	. 0	0	Midwest	1	Medium1	45,978		2,516	858
5	Heifers	0	0	Pacific	1	Medium1	48,831	890	3,335	971
5	Heifers	0	0	South	. 1	Medium1	48,858		. 3,116	909
5	Heifers	0	0	Central	2	Medium1	46,194		5,055	1,076
5	Heifers	0	0	Mid-Atlantic	2	Medium1	48,034	841	5,467	878
5	Heifers	0	0	Midwest	2	Medium1	46,103	825	4,933	847

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O & M	3 yr rec
- 5	Heifers	0	0	Pacific	2	Medium1	48,638	869	4,798	931
5	Heifers	0	0	South	2	Medium1	48,556	830	3,868	859
5	Heifers	0	0	Central	.3	Medium1	16,393	190	1,836	600
5	Heifers	0	0	Mid-Atlantic	3	Medium1	19,314	190	1,982	600
5	Heifers	0	0	Midwest	3 '	Medium1	17,503	190	1,893	600
5	Heifers	0	. 0	Pacific	3	Medium1	19,772	. 190	2,005	600
5	Heifers	0	0	South	3	Medium1	19,990	190	2,016	600
- 5	Heifers	0	0	Central	1 '	Medium2	49,469	1,088	4,435	1,341
5	Heifers	0	0	Mid-Atlantic	1	Medium2	52,072	978	4,392	1,133
5	Heifers	0	0	Midwest	1	Medium2	49,044	951	4,163	1,090
5	Heifers	0	0	Pacific	1	Medium2	53,644	1,065	5,057	1,308
5	Heifers	0	0 .	South	1	Medium2	53,495	1,004	4,598	1,191
5	Heifers	0	0	Central	· 2	Medium2	51,507	1,259	5,962	1,672
5	Heifers	0	0	Mid-Atlantic	2	Medium2	52,731	1,039	5,380	1,262
5	Heifers	0	0	Midwest	2	Medium2	49,519	990	4,638	1,160
5	Heifers	0	0	Pacific	2	Medium2	53,809	1,086	5,952	1,349
5	Heifers	0	0	South	2	Medium2	53,684	1,028	5,317	1,228
5	Heifers	.0	0	Central	3	Medium2	17,625	. 190	2,145	600
5	Heifers	0	0	Mid-Atlantic	. 3	Medium2	22,008	190	2,364	600
5	Heifers	. 0	0	Midwest	3	Medium2	19,331	190	2,233	600
5	Heifers	0	0	Pacific	3	Medium2	22,615	190	2,394	600
5	Heifers	0	0 .	South	3	Medium2	23,145	190	2,421	600
6	Heifers	0	0	Central	1	Large1	532	1,372	1,713	1,881
6 .	Heifers	. 0	0	Mid-Atlantic	1	Large1	1,386	1,202	1,657	1,565
6	Heifers	0	0	Midwest	1	Large1	1,308	1,152	1,624	1,472
6	Heifers	0	0	Pacific	1	Large1	999	1,325	1,710	1,798
6	Heifers	0	0	South	1	Large1	2,084	1,139	1,656	1,439
6	Heifers	0	0	Central	2	Large1	532	2,038	2,295	3,139
6	Heifers	0	0	Mid-Atlantic	2	Large1	1,386	1,485	2,052	2,092

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	0 & M	3 yr rec
6	Heifers	0	0	Midwest	. 2	Largel	1,308	1,247	1,929	1,646
6	Heifers	0	0	Pacific	2	Large1	999	1,548	2,565	2,205
6	Heifers	0	0	South	2	Largel	2,084	1,378	2,222	1,890
6	Heifers	0	0	Central	3	Largel	532	190	1,237	600
6	Heifers	0	0	Mid-Atlantic	3	Largel	1,386	190	1,279	600
6	Heifers	0	0 -	Midwest	3	Largel	1,308	190	1,275	600
6	Heifers	. 0	0	Pacific	3	Largel	999	190	1,260	600
6	Heifers	0	0	South	3	Largel	2,084	190	1,314	600
6	Heifers	0	0	Central	3	Medium1	7,236	190	1,538	600
6	Heifers	0	0	Mid-Atlantic	3	Medium1	10,157	190	1,684	600
6	Heifers	. 0	0	Midwest	3	Medium1	8,346	190	1,596	. 600
6	Heifers	0	0	Pacific	3	Medium1	10,615	190	1,707	600
6	Heifers	0	0	South	3	Medium1	10,833	190	1,718	600
6	Heifers	0	0	Central	1	Medium1	36,722	901	2,816	990
6	Heifers	0	. 0	Mid-Atlantic	1	Medium1	38,836	844	2,511	890
· 6	Heifers	0	0	Midwest	1	Medium1	36,821	829	2,218	858
6	Heifers	0	0	Pacific	1	Medium1	39,674	890	3,037	. 971
6 .	Heifers	0	0	South	1	Medium1	39,701	858	2,818	909
6	Heifers	0	0	Central	2	Medium1	37,038	945	4,782	1,076
6	Heifers	0	0	Mid-Atlantic	. 2	Medium1	38,877	. 841	4,049	878
6	Heifers	0	0	Midwest	2	Medium1	36,946	825	3,368	847
6	Heifers	0	0	Pacific	2	Medium1	39,481	. 869	4,530	931
6	Heifers	0	0	South	2	Medium1	39,399	830	3,590	859
6	Heifers	0	0	Central	1	Medium2	40,313	1,088	3,877	1,341
6	Heifers	0	. 0	Mid-Atlantic	1 -	Medium2	42,915	978	3,833	1,133
6	Heifers	0	0	Midwest	1	Medium2	39,888	951	3,605	1,090
6	Heifers	0	0	Pacific	1	Medium2	44,488	1,065	4,499	1,308
6	Heifers	0	0	South	1	Medium2	44,339	1,004	4,039	1,191
6	Heifers	0	0	Central	2	Medium2	42,350	1,259	5,440	1,672

Table 11-18. (Continued)

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O & M	3 yr rec
6	Heifers	0	0	Mid-Atlantic	2	Medium2	43,575	1,039	4,862	1,262
6	Heifers	0	0	Midwest	2	Medium2	40,362	990	4,101	1,160
6	Heifers	0	0	Pacific	2	Medium2	44,653	1,086	5,442	1,349
6	Heifers	0	0	South	2	Medium2	44,527	1,028	4,789	1,228
6	Heifers	0	0	Central	3	Medium2	8,468	190	1;586	600
6	Heifers	0	.0	Mid-Atlantic	3	Medium2	12,851	190	1,806	600
6	Heifers	0	0	Midwest	3	Medium2	10,174	190	1,674	600
. 6	Heifers	0	. 0	Pacific	3	Medium2	13,458	190	1,836	600
6	Heifers	0	0	South	. 3	Medium2	13,988	190	1,863	600
7	Heifers	0	0	Central	1	Largel	532	1,372	1,713	1,881
. 7	Heifers	, 0	0	Central	2	Largel	532	2,038	2,295	3,139
7	Heifers .	0	0	Central	3	Largel	532	190	1,237	600
7	Heifers	0 .	0	Mid-Atlantic	1	Largel	1,386	1,202	1,657	1,565
7	Heifers	0	0	Mid-Atlantic	2	Largel	1,386	1,485	2,052	2,092
7	Heifers	0	0	Mid-Atlantic	3	Largel	1,386	190	1,279	. 600
7	Heifers	. 0	0	Midwest	1	Largel	1,308	. 1,152	1,624	1,472
7	Heifers	0	0	Midwest	2	Largel	1,308	1,247	1,929	1,646
7	Heifers	0	0	Midwest	3	Largel	1,308	190	1,275	600
7	Heifers	0	0	Pacific	1	Large1	999	1,325	1,710	1,798
7	Heifers	0	. 0	Pacific	2	Large1	999	1,548	2,565	2,205
7	Heifers	0	0	Pacific	3	Largel	999	190	1,260	600
7.	Heifers	. 0	0	South	1	Large1	2,084	1,139	1,656	1,439
7	Heifers	0	0	South	2	Large1	2,084	1,378	2,222	1,890
7	Heifers	0	0	South	3	Largel	2,084	190	1,314	600
7	Heifers	0 .	0	Central	1	Mediuml	36,722	901	2,816	990
7	Heifers	0 '-	.0	Central	2	Medium1	37,038	945	6,146	1,076
7	Heifers	0	0	Central	3	Medium1	7,236	190	1,538	600
7	Heifers	0	0	Mid-Atlantic	1	Medium1	38,836	844	2,511	890
7.	Heifers	0	0	Mid-Atlantic	2	Medium1	38,877	841	4,049	

Option	Animal	Man type	Operation	Region	Category	Size ID	Capital	Fixed	O&M	3 yr rec
7	Heifers	0	0	Mid-Atlantic	3	Medium1	10,157	190	1,684	60
7	Heifers	0	0	Midwest	1	Medium1	36,821	. 829	2,218	85
7	Heifers	0	0	Midwest	2	Mediuml	36,946	825	3,368	84
7	Heifers	0	0	Midwest	3	Medium1	8,346	190	1,596	600
7	Heifers	0	0	Pacific	1	Medium1	39,674	890	3,037	97
7	Heifers	0	0	Pacific	2	Medium1	39,481	869	4,530	93
7	Heifers	0	0	Pacific	3	Mediuml	10,615	190	1,707	600
7	Heifers	0	0	South	1	Medium1	39,701	858	2,818	909
7 .	Heifers	0	0	South	2	Medium1	39,399	830	4,359	859
7	Heifers	0	0	South	3	Medium1	10,833	190	1,718	600
7	Heifers	0 .	0	Central	1	Medium2	40,313	1,088	3,877	1,34
7	Heifers	0	0	Central	2	Medium2	42,350	1,259	7,144	1,672
7	Heifers	0	0	Central	3	Medium2	8,468	190	1,586	600
7	Heifers	0	.0	Mid-Atlantic	1	Medium2	42,915	978	3,833	1,133
7	Heifers	0	0	Mid-Atlantic	2	Medium2	43,575	1,039	4,862	1,262
7	Heifers	0	0	Mid-Atlantic	3	Medium2	12,851	190	1,806	600
7	Heifers	0	0	Midwest	1	Medium2	39,888	951	3,605	1,090
7	Heifers	. 0	0	Midwest	2	Medium2	40,362	990	4,101	1,160
7	Heifers	0	0	Midwest	3	Medium2	10,174	190	1,674	600
7	Heifers	0	0	Pacific	1	Medium2	44,488	1,065	4,499	1,308
7	Heifers	0	0	Pacific	2	Medium2	44,653	1,086	5,442	1,349
7	Heifers	0	0	Pacific	3	Medium2	13,458	190	1,836	600
7	Heifers	. 0	0	South	1	Medium2	44,339	1,004	4,039	1,191
7	Heifers	0	0	South	2	Medium2	44,527	1,028	4,789	1,228
7	Heifers	0	0	South	3	Medium2	13.988	190	1.863	. 600

# POLLUTANT REDUCTION ESTIMATES

## 12.1 Feeding Operation Runoff Pollutant Loads

Runoff from feedlots can be a significant contributor of pollutants to surface waters. Table 12-1 presents feedlot nutrient loads for the beef, dairy, poultry, and swine industries. Beef operations have the most feedlot runoff because the animals are typically housed in open lots. During periods of heavy rain, pollutants can leave the facility as surface runoff. For the purposes of this analysis, it was assumed that no pollutant loads leached directly to ground water from feedlots because feedlot surfaces are generally trampled down by the animals and are highly impermeable to water. The pollutant load from feedlot runoff depends on the rainfall amount and varies by AFO region.

Table 12-1. Nutrient Loads from Feedlot Runoff by Animal Sector and AFO Regions

Sector										
	Central		Mid-Atlantic		Midwest		Pac	Pacific		uth
	N	P	N	P	N	P	N	P	N	P
					- pounds pe	er year				
Beef	864	233	2,796	756	1,455	393	3,020	817	3,324	899
Dairy	195	52	117	169	117	88	117	183	117	201
Poultry	173	47	259	141	291	79	604	163	645	180
Swine	0	0	. 0.	0	0	.0	0	0	0	0

The model facility approach described in chapter 11 was used to estimate pollutant load reductions. For baseline conditions, the model assumes that beef, dairy, and swine facilities with more than 1,000 animal units have no feedlot runoff because they are covered under the current regulation. No such restriction exists for poultry operations because they are not covered under the current regulation. To estimate loads from runoff, the solids in the runoff, the excreted solids, and the constituents in the excreted solids were calculated. The annual amount of runoff from a model feedlot was calculated for each of the five AFO regions using average precipitation from the National Climatic Data Center. The volume of runoff was calculated using this amount of runoff and the estimated area of the dry lot and feedlot handling areas for each animal type (MWPS, 1987) was assumed that runoff from dry lots contains 1.5 percent solids (MWPS,

1993). From this assumption, the quantity of solids that runs off the feedlot was calculated using annual runoff estimates and the percent solids.

Characteristics of manure as-excreted from ASAE (1998) were used to estimate the mass loading per day per animal unit of each constituent of interest (Table 12-2). These loads were converted to a dry basis to calculate the total annual loading from each model feedlot. The total solids excreted were calculated using the total wet weight excreted and the moisture content. It was then assumed that the ratio of the quantity of each constituent in runoff to the quantity excreted is proportional to the ratio of the total solids in runoff to the total solids produced at the feedlot. Results for individual sectors are presented in Tables 12-3, 12-4, and 12-5.

Table 12-2. Constituents of Manure Presented in ASAE (1998).

Item	Mature Cow	Calf	Poultry
	pounds	per 1000 pounds anin	nal per day
TKN	0.3400	0.2700	1.1000
Phosphorus	0.0920	0.0660	0.3000
Volatile Solids	7.2000	2.3000	17.0000
BOD₅	1.6000	1.7000	
COD.	7.8000	5.3000	16.0000
Zinc	0.0011	0.0130	0.0036
Copper	0.0003	0.00005	0.00098

TKN, total kjeldahl nitrogen; BOD<sub>5</sub>, biochemical oxygen demand, 5-day; COD, chemical oxygen demand; —, data not found.

Table 12-3. Annual Beef Feedlot Runoff Loading

Item	Central	Mid Atlantic	Midwest	Pacific	South
Annual Runoff (ft³)	172,120	556,995	289,886	601,772	662,337
Solids	2,582	8,355	4,348	9,027	9,935
TKN	864	2,796	1,455	3,020	3,324
Phosphorus	234	756	394	817	900
Volatile Solids	18,294	59,201	30,811	63,960	70,397
BOD5	4,065	13,156	6,847	14,213	15,644
COD	19,818	64,134	33,378	69,290	76,263
Zinc	3.	9	5	10	11
Copper	1	3	1	3	3

TKN, total kjeldahl nitrogen; BOD<sub>5</sub>, biochemical oxygen demand, 5-day; COD, chemical oxygen demand; ---, data not found.

Table 12-4. Annual Dairy Feedlot Runoff Loading

Item	Central	Mid Atlantic	Midwest	Pacific	South
Annual Runoff (ft³)	41,664	134,827	70,170	145,666	160,326
Solids	625	2,022	1,053	2,185	2,405
TKN	195	632	329	682	751
Phosphorus	52	169	- 88	183	202
Volatile Solids	3,915	12,668	6,593	13,686	15,064
BOD5	946	3,061	1,593	3,308	3,640
COD	4,421	14,306	7,445	15,456	17,011
Zinc	1	5	2	5	. 5
Copper	1	1	0	1	1

TKN, total kjeldahl nitrogen; BOD<sub>5</sub>, biochemical oxygen demand, 5-day; COD, chemical oxygen demand; ---, data not found.

Table 12-5. Annual Poultry Feedlot Runoff Loading

Item	Central	Mid Atlantic	Midwest	Pacific	South
Annual Runoff (ft³)	34,424	111,399	57,977	120,344	132,467
Solids	516	1,671	870	1,805	1,987
TKN	173	559	291	604	665
Phosphorus	47	151	79	163	180
Volatile Solids	3,659	11,848	6,162	12,792	14,079
BOD5		, to 44 as			
COD .	3,964	12,827	6,676	13,858	15,253
Zinc	1	2	1	2	2
Copper	<1	1	<1	1	1

TKN, total kjeldahl nitrogen; BOD<sub>5</sub>, biochemical oxygen demand, 5-day; COD, chemical oxygen demand; ---, data not found.

## 12.2 Land Application Field Runoff Loads

Nutrient, metal, and pathogen loading to surface water was estimated for beef, dairy, poultry, and swine operations with more than 300 animal units. Loads prior to implementing the proposed regulatory options (baseline loads) were compared with loads after implementation (post-regulation loads). See Chapter 5 of this document for details on the regulatory options under consideration. Estimation of nutrient, pathogen, and metal loads on a national scale required representative facility conditions to simulate loads. These facility conditions consist of animal groupings of various size classes, current management practices and animal waste management systems, and regionally based physiographic information regarding soil, rainfall, hydrology, crop rotation, and other factors for a given region of the country. Although based on model facilities from the Cost Model Documentation, Sample Farms contain more detailed information on the physiographic information. These representative Sample Farms were developed from several data sources shown in Figure 12-1. Figure 12-1 illustrates the general scope of the types of data used to develop the Sample Farms and the scale of these data sources.

Simulations were conducted using representative Sample Farm information on manure pollutant generation and the cropping system specific to animal operations as they exist under preregulation and post-regulation model simulation conditions. Pre-regulation (baseline) Sample Farm conditions are the current management practices in use across the Nation. Pre-regulation model facility simulations assume that all manure was applied to baseline cropland acreage (which included owned and rented acres), with additional acreage receiving commercial fertilizer.

Post-regulation Sample Farm conditions generally affect the distribution of manure on cropland acres and include land-applying manure based on agronomic requirements. Application of manure on an agronomic nitrogen basis generally results in an over application of phosphorus. Application of manure on an agronomic phosphorus basis results in a deficit of nitrogen. Under P-based conditions, supplemental commercial nitrogen fertilizer was applied to fulfill crop requirements.

### 12.2.1 Industry Characterization

Several sources of data were used to characterize facilities throughout the U.S. The locations of the Sample Farms were selected after an analysis of the 1997 Census of Agriculture (USDA NASS, 1999a). Animal sector-specific determinations were made to select the state with the

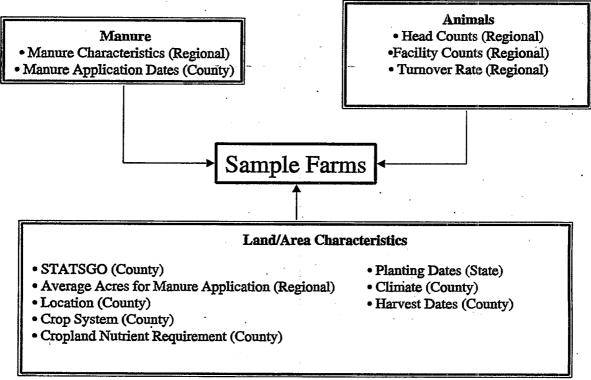


Figure 12-1. Data Used to Develop Sample Farms and the Scale of the Data Sources

largest amount of production in a given AFO region. Once this state determination was made, the county within this state with the largest amount of production was selected as the model facility location. Figure 12-2 presents the counties selected to represent the model facility for each sector and region.

Head counts on model facilities are based on queries of the 1997 Census of Agriculture (USDA NASS, 1999b). The number of animals (head) is important for calculating manure, nutrient, metal, and pathogen production. EPA animal units were used to report the results, and this entailed grouping certain size ranges from the 1997 Census of Agriculture queries (USDA NASS, 1999b).

The number of facilities was calculated using the queries from 1997 Census of Agriculture (USDA NASS, 1999b). The regional totals were split into facilities which have enough land to

apply manure (Category 1 facilities), facilities that do not have enough land to apply manure (Category 2 facilities), and those facilities which have no land (Category 3 facilities). The basis for categorization was Manure Nutrients Relative to the Capacity of Cropland and Pastureland to Assimilate Nutrients: Spatial and Temporal Trends for the U.S. (Kellogg et al., 2000). This data source was also used to calculate the number of acres for Category 2 type facilities.

Manure production from the various animal sectors was based on an analysis performed by USDA NRCS (1998). A recoverable manure correction factor further refined the manure production figures. USDA NRCS (1998) values for nutrient content of manure were applied to the mass of manure produced. Similarly, metal and pathogen concentrations in manure as determined by the American Society of Agricultural Engineers (ASAE, 1998) were used to estimate metals and pathogens of concern produced at the sample farms. In addition, in situ soil concentrations for metals were incorporated into the analysis based on a memo from EPA (Clipper, 2000).

Typical cropping systems information was based on personal communications with state extension specialists in the counties selected to represent each model facility. Once the cropping

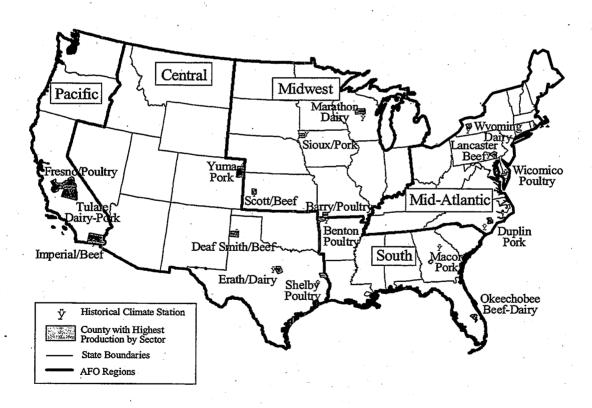


Figure 12-2. Distribution of Animal Sectors by AFO Region

systems were identified, average county yields for each of the crops were determined from the 1997 Census of Agriculture (USDA NASS, 1999a). Using common removal coefficients presented in the Agriculture Waste Management Field Handbook (USDA NRCS, 1996), nitrogen and phosphorus removal rates (pounds per acre) were calculated using average county yields. For nitrogen, the removal was modified according to Sutton (1985) to account for losses, mainly volatilization, after land application. The number of acres required to apply all the manure produced at Category 1 type operations was calculated by dividing the nutrient production by the removal rates.

Planting and harvesting dates for the selected crops were based on a USDA NASS (1997) report detailing typical planting and harvesting dates for U.S. field crops. Manure application dates were determined by contacting local USDA Extension agents and referring to the crop planting and harvesting data mentioned previously.

Soils information was obtained from the State Soil Geographic (STATSGO) database that is collected, stored, maintained, and distributed by the National Cooperative Service Survey under the federal leadership of the USDA's Natural Resources Conservation Service (USDA NRCS, 1999). Climate data were prepared by using the CLIGEN program, which is a synthetic climate generator that has been widely used in the Water Erosion Prediction Project (WEPP; Foster and Lane, 1987), and other sources.

#### 12.2.2 Estimation of Sample Farm Loads

Figure 12-3 illustrates the methodology used to simulate the nutrient, pathogen, and metal model facility loads, which were subsequently extrapolated to AFO regional loads and to national pollutant loads. Because EPA's effluent limitation guidelines apply at the facility level, it was essential to use a field-scale loading estimate tool to evaluate the effect of the proposed regulation. The field-scale loading estimate tool GLEAMS (Groundwater Loading Effects of Agricultural Management Systems; Knisel et al., 1993) was selected to model edge-of-field pollutant loads in surface runoff, sediment, and ground water leaching from the sample farms.

The GLEAMS model is a field-scale, physically based continuous model that evaluates the effects of various agricultural management systems on the movement of water, soil, and agricultural pollutants to water sources. GLEAMS estimates runoff and erosion using a modified Universal Soil Loss Equation (USLE). Enhancements to the USLE allow the model to simulate daily loads to reflect manure application, plant growth stage, and changes in the hydrologic cycle that vary from day to day.

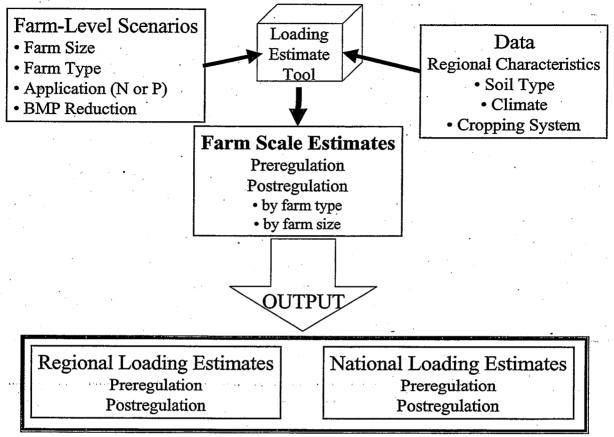


Figure 12-3. Overview of Methodology Used to Estimate Nutrient, Pathogen, and Metal Loads

#### 12.2.3 Evaluation of Modeling Results

GLEAMS model simulations for the five AFO regions were performed for a 50-year period. Fifty years was selected to normalize results for natural variations in climate and to allow the model to equilibrate. The result of the time series is an estimate of the annual pollutant loading from runoff, erosion, and ground water leaching. Results from the second half of the 50-year period of simulated results were averaged and provided as model output. The output was compared with nutrient, metal, and pathogen loads found throughout the literature. In general, simulated results of pollutant loads were within the range of loads presented in the literature.

#### 12.2.4 Results of the National Loading Analysis

The GLEAMS model provides edge-of-field loads in terms of pounds per acre. These rates were converted to total edge-of-field loads by multiplying them by the number of acres on each model facility. The total facility pollutant load was multiplied by the number of facilities specific to the given region, size, and sector to obtain regional pollutant loads. These regional pollutant loads were summed to obtain the national pollutant load.

The selected size classes for national nutrient loads are facilities with 300 to 500 animal units, 500 to 1,000 animal units, and more than 1,000 animal units. Additional size classes were used in the simulations, and these were grouped to produce results for the desired size classes. Nutrient loading results for the three size classes are presented in Table 12-6 for pre- and post-regulation options (see section 2 for option details). Table 12-7 presents metal and pathogen loads for facilities with 300 to 500 animal units, 500 to 1,000 animal units, and more than 1,000 animal units.

Table 12-6. Nutrient Loads (and Percentage Reduction Over Baseline) for Pre- and Post-Regulation Conditions

Size and Option	Surface Nitroge	n_	Surface Phosphor	าเร
300 to 500 AU		pounds per		
Baseline	57,060,885		101,862,258	
Option 1	39,819,463	(30.22)	48,264,373	(52.62)
Option 2	30,202,675	(47.07)	29,847,511	(70.70)
Option 3/4	30,202,675	(47.07)	29,847,511	(70.70)
Option 5	30,202,675	(47.07)	29,847,511	(70.70)
500 to 1,000 AU				
Baseline	105,117,967		194,875,167	
Option 1	75,404,509	(28.27)	81,025,690	(58.42)
Option 2	54,778,644	(47.89)	50,076,572	(74.30)
Option 3/4	54,778,644	(47.89)	50,076,572	(74.30)
Option 5	54,778,644	(47.89)	50,076,572	(74.30)
More than 1,000 AU			ı	
Baseline	323,497,304		534,983,410	
Option 1	251,230,661	(22.34)	197,389,009	(63.11)
Option 2	175,135,392	(45.86)	117,998,827	(77.95)
Option 3/4	175,135,392	(45.86)	117,998,827	(77.95)
Option 5	175,135,392	(45.86)	117,998,827	(77.95)

Values in parentheses represent percentage reduction from baseline.

Percentage reduction = (baseline - option)/baseline.

Table 12-7. Pathogen and Metal Loads from Animal Feeding Operations

Sector	Fecal Coliform	Fee Strepto	cal ococcus	Zinc		. Cop	per	Cadmium	Nic	kel	Lead		Arse	enic
300-500 AU	10 <sup>16</sup> c	fu/year*						pound	s per year			,		
Baseline	27,911	63,707		10,328,500	•	667,232		15,488	276,996		440,668	}	104,910	
Option 1	9,011 (67.81)	51,357	(19.38)	4,888,760	(52.67)	313,775	(52.97)	2,877 (81.38)	122,161	(55.90)	226,509	(48.60)		(38.21
Options 2-5	6,521 (76.70)	37,326	(41.41)	3,140,550	(69.59)	201,163	(69.85)	1,514 (92.53)	71,797	(74.08)	150,842	(65.77)		(65.45
500-1000 AU	J					· · · · · · · · · · · · · · · · · · ·								(001.10
Baseline	58,350	137,572		38,511,413		2,042,789		61,447	635,912		1,667,616		212,551	
Option 1	15,557 (73.34)	75,838	(42.77)	10,870,014	(71.77)	643,227	(68.51)	5,981 (90.27)	209,875	(67.00)	519,127	(68.87)	108,416	(48.99
Options 2-5	11,808 (79.76)	56,316	(57.50)	7,027,431	(81.75)	418,751	(79.50)	2,399 (96.10)	124,002	(80.50)	347,798	(79.14)	61,092	(71.26
>1,000 AU						<u> </u>								· (, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Baseline	105,980	260,423		67,398,568		3,319,711		108,948	1,020,801		2,869,196	-	539,818	
Option 1	32,364 (69.46)	110,828	(57.44)	20,819,432	(69.11)	1,206,740	(63.65)	14,337 (86.84)	483,173	(52.67)	980,044	(65.84)	295,561	(45.25)
Options 2-5	26,514 (74.96)	92,766	(64.38)	13,325,674	(80.23)	784,528	(76.37)	5,866 (94.62)	298,207	(70.79)	649,482	(77.36)	165,094	(69.42)

<sup>&</sup>lt;sup>a</sup> cfu/year, colony forming units per year.

Values in parentheses represent percentage reduction from baseline.

Percentage reduction = (baseline - option)/baseline.

#### 12.3 Subsurface Leaching

Using the modeling results described in Section 12.2, subsurface losses from land application of nitrogen were evaluated for pre- and post-regulation conditions. Additional subsurface losses of nitrogen occur from manure storage structures. Subsurface losses from the feedlot and from land application were combined.

Potentially significant loads can occur from nutrients seeping from manure storage structures. Earthen manure storage structures are integral components of many concentrated animal operations. Manure storage structures contain high concentrations of nutrients and other constituents that are applied to cropland as fertilizer, however, while solid and liquid manures are stored in the manure storage structures, pollutants can leach into ground water.

For the purposes of this analysis, it was assumed that virtually all lagoons and other storage structures leak. Most of the lagoon leakage simulations estimated ground water loads by simulating transport of pollutants through ground water aquifers. Seepage estimates were obtained from Ham and DeSutter (1999) who measured nitrogen that leaked from three established swine-waste lagoons in Kansas. In their study, lagoon walls and bottoms had either an indigenous silt loam soil that was compacted to a thickness of 12 to 18 inches or an 18-inchthick clay liner. Their results showed that lagoon ammonium-N export loads ranged from 1,952 pounds per acre per year to 2,434 pounds per acre per year. From these results, it was assumed that 2,000 pounds per acre per year leaked from manure storage structures lined with silt loam soils. These referenced values were used to develop direct and indirect loads form manure storage structure leakage according to soil permeabilities referenced by Clapp and Hornberger (1978). The Clapp and Hornberger (1978) soil permeability rates were matched with soil types in the areas where the Sample Farms were located. Clapp and Hornberger (1978) reported that soil permeabilities range two orders of magnitude over all soil types. For example, they reported that water flowed through sand about 100 times faster than through clayey soils and about 10 times faster than through silty soils. Using this analogy of flow rates for various textures, the ammonium export estimated by Ham and DeSutter (1999) was scaled to reflect changes in soil texture for model facilities. Thus, for silt loam soils, 2,000 pounds of nitrogen per acre per year were assumed to seep out of manure storage structures; for sandy soils, 20,000 pounds of nitrogen per acre per year; and for clay soils, only 200 pounds of nitrogen per acre per year.

The values reported by Ham and DeSutter (1999) are for ammonium, which is not mobile in soils. For ammonium to mobilize, oxygen must be present to oxidize the ammonium to nitrate. Once nitrate is formed it can leach in to ground water. Because soil under lagoons generally remains wet and anaerobic, only the outer fringe of the lagoon will oxidize and leach. It was estimated that 10 percent of the ammonia-nitrogen load that seeps out of the bottom of the manure storage structure reaches ground water in the form of nitrate-nitrogen.

Sobecki and Clipper (1999) estimated the number of storage structures that had a direct link to surface water by evaluating the ground water pollution potential of AFO manure storage structures according to AFO region land characteristics. For structures with a direct ground

water to surface water link, pollutant loads were assumed to directly connect with surface water, and it was assumed that no ground water aquifer pollutant assimilation took place. Consequently, for manure storage structures that had a high groundwater pollution potential under the Sobecki and Clipper (1999) analysis, once lagoon leakage occurred it was assumed that there was no pollutant reductions before the pollutant load reached surface water. Sobecki and Clipper assumed that if regional characteristics indicated there was a relatively high ground water pollution potential, these manure storage structures would leak. Some of the criteria they used to determine ground water pollution potential were the presence of sandy soils through the soil profile, the presence of a shallow ground water table, and the presence of karst or karst-like terrain. These criteria were evaluated, and percentages of land area were developed for each AFO region. The percentages were applied to each Sample Farm in an AFO region, and these percentages defined baseline levels for manure storage structure leakage to ground water sources.

Table 12-8 presents the combined subsurface nitrogen losses from the feedlot and from land application. Although phosphorus may leach to ground water, it occurs in relatively low amounts and was not included.

Table 12-8. Direct and Indirect Subsurface Nitrogen and Phosphorus Loads

Size and Option		Subsurfa	ace Nitrogen		Subsurface Pho	sphorus	
	Direc	t	Indirect	t	Direct		
300 to 500 AU		****	pounds per year				
Baseline	776,427		158,530,618		177,924		
Option 1	776,424	(0.00)	65,517,112	(58.67)	177,924	(0.00)	
Option 2	776,424	(0.00)	50,783,872	(67.97)	131,844	(25.90)	
Option 3/4	0	(100.00)	50,783,872	(67.97)	131,844	(25.90)	
Option 5	0	(100.00)	50,107,541	(68.39)	131,844	(25.90)	
500 to 1,000 AU							
Baseline	1,350,312		305,760,799		363,524		
Option 1	1,350,312	(0.00)	126,258,616	(58.71)	363,524	(0.00)	
Option 2	1,350,312	(0.00)	97,262,902	(68.19)	265,685	(26.91)	
Option 3/4	0	(100.00)	97,262,902	(68.19)	265,685	(26.91)	
Option 5	. 0	(100.00)	96,328,571	(68.50)	265,685	(26.91)	
>1,000 AU	<i>:</i>		٠				
Baseline	2,669,024		1,177,131,012		1,165,286	,	
Option 1	2,669,024	(0.00)	537,327,332	(54.31)	1,165,286	(0.00)	
Option 2	2,669,024	(0.00)	362,770,757	(69.16)	815,258	(30.04)	
Option 3/4	0	(100.00)	362,770,757	(69.16)	815,258	(30.04)	
Option 5	0	(100.00)	356,921,180	(69.70)	815,258	(30.04)	

#### 12.4 Volatilization and Deposition

This analysis considered nutrients and metals that reach the air and are redeposited by rain on the land or directly in to surface water. Pollutants that reach the air either through volatilization or in dust will drift. All nutrients reaching the air were assumed to be eventually redeposited. The pollutant load that reaches surface water was calculated based on the surface area covered by water and the percentage of runoff. Table 12-9 shows the regional coefficients used to calculate loads from atmospheric deposition. The areal percentages of water and land were determined based on 1997 NRI data for each state. States were grouped by region and summed. The relative percentages of water range from 1.3 percent to over 5 percent depending on region. Runoff estimates were based on USGS coverages containing average annual runoff and rainfall. For

example, in the southern region rainfall rates generally range from 40 to 60 inches annually, with runoff ranging from 14 to 26 inches annually. The amount of runoff was divided by the rainfall (for the southern region, 50 inches was assumed) to obtain runoff percentages from 28 percent (low) to 52 percent (high).

Nitrogen volatilization from the feedlot area was calculated based on USDA values reported by USDA NRCS (1998). The difference in "as excreted" and "after losses" values for nitrogen was used to calculate the amount of volatilization. Nitrogen volatilization after land application of manure was calculated using the GLEAMS version 2.10 (Knisel et al., 1993). The GLEAMS model takes into account common agricultural practices, and it was run for each model facility. Sulfur volatilization was calculated based on a report by Zhang et al. (1990). In their paper, they suggest sulfide emissions from swine slurry of approximately 1.5 mg S per liter manure. Thus, the manure volume was calculated and converted to pounds of sulfide per year. Little information exists on net loading of sulfur from lagoons or drier manure, and the values presented here should be used cautiously.

The remaining sources of pollutants were estimated from dust produced by the feedlot. Again, little information exists on dust production. It was assumed that 0.001 percent of manure is lost as dust. This production value probably overestimates the indirect loads from these sources. The concentrations of metals in the manure dust were assumed to be the same as those in the manure. Metal concentrations were calculated based on the ASAE standards handbook (1998).

Table 12-9. Percentages of Land and Water Areas and Runoff for Five Regions under Consideration

Region	Water*	Land*	Runoff (low) <sup>†</sup>	Runoff (high)†
Central	1.3%	98.7%	25.0%	50.0%
Mid Atlantic	5.3%	94.7%	24.0%	44.0%
Midwest	2.3%	97.7%	17.0%	47.0%
Pacific	2.1%	97.9%	27.0%	50.0%
South	5.2%	94.8%	28.0%	52.0%

Data from 1997 NRI report.

Table 12-10 presents loads from atmospheric deposition.

<sup>†</sup> USGS Arc/View coverages.

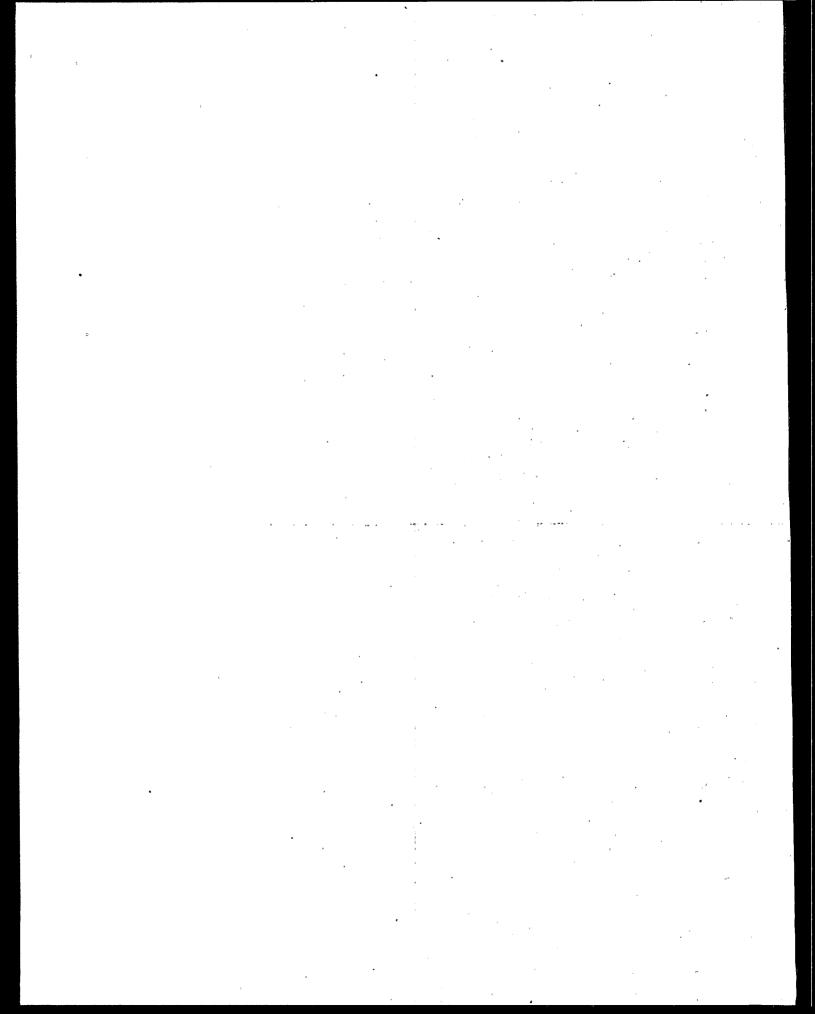
Table 12-10. Annual Indirect Pollutant Loads to Surface Waters from Animal Feeding Operations With More Than 300 Animal Units

Pollutant (source)	Lower Estimate	Higher Estimate
	pounds to surf	ace water annually
Nitrogen (volatilization from feedlot)	755,028,602	1,539,710,650
Nitrogen (volatilization from land application)	456,566,444	878,949,831
Nitrogen (dust)	6,133	12,132
Phosphorus (dust)	3,291	6,658
Sulfur (volatilization from feedlot)	10,143,898	20,177,030
Zinc (dust)	51	103
Copper (dust)	10	21
Cadmium (dust)	0	. 0
Nickel (dust)	9	. 18
Lead (dust)	. 3	6
Arsenic (dust)	273	516

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# **NON-WATER QUALITY IMPACTS**

#### 13.0 INTRODUCTION

The elimination or reduction of one form of pollution may create or aggravate other environmental problems. Sections 304(b) and 306 of the Clean Water Act (CWA) require that the U.S. Environmental Protection Agency (EPA) consider the non-water quality environmental impacts (NWQI) of effluent limitations guidelines and standards. This section presents the methodology and estimates of the NWQI for the seven Best Available Technology (BAT) regulatory options that are being considered for beef, heifer, dairy, veal, swine, and poultry (including broiler, layer, and turkey) feeding operations. These non-water quality environmental impacts include:

- Air emissions from the feedlot operation, including animal housing and animal waste storage and treatment areas;
- Air emissions from land application activities:
- Air emissions from vehicles, including those involved in off-site transport of waste and onsite composting operations; and
- Energy impacts from land application activities and the use of digesters.

Typically, NWQIs also include the generation of solid waste. Under the effluent limitations guidelines being considered, the handling of the manure by-product is affected in order to control the wastewater that is generated from animal feeding operations. Because the manure is considered a by-product of animal feeding operations and is not regulated directly, the solid waste NWQIs of the manure are not considered. In addition, although the chemical content of the manure may change, the amount of manure generated is not expected to change under any of the regulatory options being considered; therefore, a discussion of solid waste NWQIs is not included in this section. Also not addressed in this section are the benefits of water reuse/reduction that are obtained under some options; for example, under Option 5B swine and wet layers convert to dry housing, which reduces the amount of fresh water used as flush water.

The remainder of this section contains the following information:

Section 13.1 presents an overview of the analysis and pollutants;

- Section 13.2 discusses the methodology for air emissions from animal confinement operations;
- Section 13.3 discusses the methodology for air emissions from land application activities;
- Section 13.4 discusses the methodology for air emissions from vehicles;
- Section 13.5 discusses the methodology for energy impacts;
- Section 13.6 provides a summary of the industry-wide non-water quality impacts for two
  regulatory thresholds considered by EPA; and
- Section 13.7 provides a list of references used in this section.

This section presents results based on available data and methodologies developed as of November 2000. A more detailed description of the analysis is provided in the Non-Water Quality Impact Report (ERG, 2000). EPA's Office of Air Quality Planning and Standards is currently conducting an in-depth study of air emissions from animal feeding operations and is expected to publish results in early 2001.

#### 13.1 Overview of Analysis and Pollutants

Figure 13-1 identifies the pollutants that are included in the air emission analyses for the animal housing areas, the animal waste treatment and storage areas, off-site transportation of the wastes, and land application of the wastes. The pollutants included in this analysis are:

• Ammonia. Nitrogen is the primary component of animal waste that is most likely to generate air emissions. There are many different forms of nitrogen (i.e., ammonia, nitrous oxide, nitric oxide, nitrogen gas, organic nitrogen, ammonium, nitrite, nitrate) that are created during various stages of nitrogen's life cycle. Figure 13-2 depicts the basic nitrogen cycle, which consists of mineralization (organic nitrogen to ammonium), nitrification (ammonium to nitrite and nitrate), denitrification (nitrate to nitrous oxide, nitric oxide, and nitrogen gas), immobilization (ammonium and nitrate to organic nitrogen), and volatilization (urea and ammonium to ammonia).

Ammonia is the form of nitrogen that is most readily emitted to the atmosphere from animal wastes. The major source of ammonia in animal manure is urea from urine, or uric acid in the case of poultry, which easily converts to ammonia. Urea plus ammonia nitrogen from urine usually accounts for 40 to 50 percent of the total nitrogen excreted in manure (Van Horn et al., 1994). In aqueous solution, ammonia reacts with acid to form ammonium, which is not gaseous. The chemical equilibrium in an acid environment promotes rapid conversion of ammonia to ammonium with little release of ammonia to the atmosphere. Because most animal manures, lagoons, and feedlot surfaces have a pH greater than 7.0 (i.e., a non-acidic

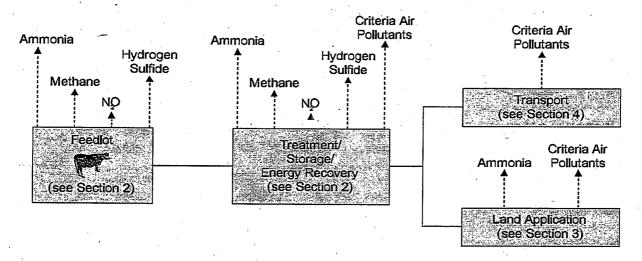


Figure 13-1. Air Emissions from Animal Feeding Operations

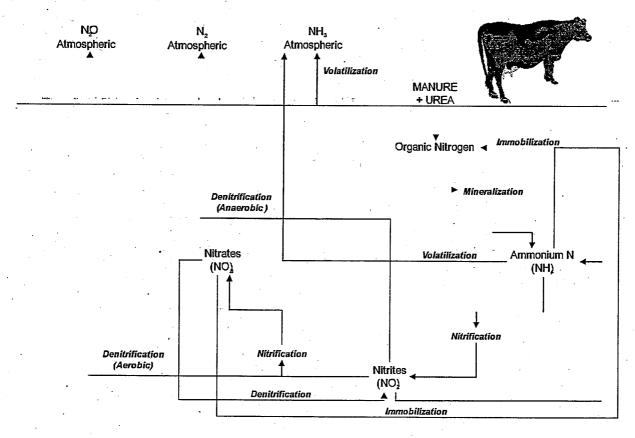


Figure 13-2. Basic Nitrogen Cycle

environment), rapid loss of ammonia to the atmosphere occurs. As a consequence, nitrogen losses from animal manures, as ammonia, can easily exceed 50 percent (Van Horn et al., 1994).

- Nitrous oxide. Most nitrous oxide from agriculture is produced in the soil during nitrification and denitrification. Both processes are carried out by bacteria living in the soil. Research indicates that aerobic manure storage, such as composting, produces more nitrous oxide than anaerobic storage, such as lagoons (AAF Canada, 2000). In general, manure that is handled as a liquid tends to produce less nitrous oxide than manure that is handled as a solid. The quantity of nitrous oxide generated, however, is typically small and varies significantly depending on environmental conditions, such as pH.
- Methane. With respect to livestock emissions, methane is produced during the normal digestive processes of animals and the decomposition of animal manure. This analysis assesses only the amount of methane produced during decomposition of animal manure. Livestock manure is principally composed of organic material. When this organic material decomposes in an anaerobic environment, methanogenic bacteria, as part of an interrelated population of microorganisms, produce methane. The principal factors affecting methane emission from animal manure are the methane-producing potential of the waste and the portion of the manure that decomposes anaerobically. The portion of manure that decomposes anaerobically depends on how the manure is managed. When manure is stored or treated as a liquid (e.g., lagoons, ponds, tanks, or pits), it tends to decompose anaerobically and produce a significant quantity of methane. When manure is handled as a solid (e.g., in stacks or pits) or when it is deposited on pastures and rangelands, it tends to decompose aerobically and little or no methane is produced (IPCC, 2000).
- <u>Carbon dioxide</u>. Carbon dioxide is an end product of animal respiration and the microbial degradation of animal manure under aerobic and anaerobic conditions. Note, however, that this analysis did not consider carbon dioxide emissions from animal respiration. As with methane emissions, wastes stored as a liquid produce more carbon dioxide than wastes stored as a solid. Carbon dioxide emissions can also occur from the combustion of biogas from anaerobic digesters used to recover energy.
- Hydrogen sulfide. The formation and subsequent emission of hydrogen sulfide from animal manure occurs only under anaerobic conditions and is the result of the mineralization of organic sulfur compounds and the reduction of the more oxidized inorganic forms of sulfur, including sulfites and sulfates. In animal manures, the principal organic sulfur compounds are the sulfur amino acids, and the principal sources of inorganic sulfur are minerals, such as copper and zinc, that are added to diets to correct nutritional deficiencies or to serve as growth stimulants. High concentrations of hydrogen sulfide can be released by agitation and pumping of liquid wastes. Although only small amounts of hydrogen sulfide are produced in a manure tank compared with the other major gases, this gas is heavier than air and becomes more concentrated in the tank over time. Research has determined that hydrogen sulfide

production from animal feeding operations depends on the average outside air temperature, the size of the housing or waste management areas, the air retention time in the housing areas, and the daily sulfur intake of the animals.

• <u>Criteria air pollutants</u>. Animal feeding operations that transport their manure off site and/or compost their manure on site use equipment (e.g., trucks, tractors) that releases criteria air pollutants when operated. Criteria air pollutants are also released when biogas, generated from energy recovery systems for anaerobic digesters, is used for fuel (e.g., in an engine or flared). The criteria air pollutants included in this analysis are volatile organic compounds, nitrogen oxides, particulate matter, and carbon monoxide.

Where possible, the NWQI estimates for each regulatory option are presented in relation to the baseline conditions under which animal feeding operations generate air emissions and use energy (i.e., prior to implementation of a regulatory option). In some cases, however, there is insufficient data to quantify baseline NWQI; in these cases, the impacts presented in this section reflect only the change in impacts expected to result from implementation of the regulatory options.

# 13.2 <u>Air Emissions from Animal Feeding Operations</u>

Animal feeding operations generate various types of animal wastes, including manure (feces and urine), waste feed, water, bedding, dust, and wastewater. Air emissions are generated from the decomposition of the wastes from the point of generation through the management and treatment of these wastes on site. The rate at which emissions are generated varies as a result of a number of operational variables (e.g., animal species, type of housing, waste management system) and weather conditions (e.g., temperature, humidity, wind, time of release).

Air releases occurring from animal confinement areas and manure management systems have been evaluated under baseline conditions and seven regulatory options considered by EPA. The data on these releases is insufficient for a complete analysis of all possible compounds; therefore, this analysis has focused on the release of greenhouse gases (methane, carbon dioxide, and nitrous oxide) from animal confinement and waste management systems, ammonia and hydrogen sulfide from animal confinement and waste management systems, and certain criteria air pollutants (carbon monoxide, nitrogen oxides, volatile organic compounds, and particulate matter) from energy recovery systems.

This section presents the methodology and results for the following air emission calculations from the animal feeding operation:

 Section 13.2.1 - Greenhouse gases from animal confinement and waste management systems;

- Section 13.2.2 Ammonia and hydrogen sulfide from animal confinement and waste management systems; and
- Section 13.2.3 Criteria air pollutants from energy recovery systems.

A detailed description of the data inputs and equations used to calculate these air emissions is provided in the Non-Water Ouality Impact Report (ERG, 2000).

#### 13.2.1 Greenhouse Gas Emissions from Manure Management Systems

Manure management systems, including animal confinement areas, produce methane  $(CH_4)$ , carbon dioxide  $(CO_2)$ , and nitrous oxide  $(N_2O)$  emissions. Methane production is directly related to the quantity and quality of waste, the type of waste management system used, and the temperature and moisture of the waste (USEPA, 1992). In general, manure that is handled in a manner that promotes anaerobic conditions will produce more methane, while manure that is handled in aerobic management systems produces little methane. Certain animal populations, such as beef cattle on feedlots, may produce more methane if they are fed higher energy diets.

Certain regulatory options evaluated for animal feeding operations are based on the use of different waste management systems that may increase or decrease methane emissions from animal operations. Methane is also produced from the digestive processes of ruminant livestock as a result of enteric fermentation. Because the proposed regulatory options do not establish requirements dictating specific feeding strategies that affect diet, the effect on enteric fermentation methane emissions is difficult to predict and is not discussed further.

Carbon dioxide is a naturally occurring greenhouse gas and is continually emitted into and removed from the atmosphere. Certain human activities, such as fossil fuel burning, result in the release of additional quantities of carbon dioxide into the atmosphere. In animal feeding operations, the anaerobic degradation of manure generates methane and carbon dioxide emissions. In addition, certain regulatory options among those evaluated involve the use of lagoon covers to capture biogas for energy recovery or flaring. The combustion process from these options also produces carbon dioxide (while destroying methane).

Nitrous oxide is produced as part of the nitrogen cycle through the nitrification and denitrification of the organic nitrogen in livestock manure and urine. The emission of nitrous oxide from manure management systems is a function of the nitrogen content of the manure, as well as the length of time the manure is stored and the specific type of system used. In general, the amount of nitrous oxide emitted from manure management systems tends to be small because conditions are often not suitable for nitrification to occur; however, when nitrous oxide is generated, manure that is handled as a liquid tends to produce less nitrous oxide than manure that is handled as a solid. Certain regulatory options evaluated for animal feeding operations are based on the use of different waste management systems which may increase nitrous oxide emissions from animal operations.

The methane and nitrous oxide emissions presented in this section are based on the guidance developed for international reporting of greenhouse gas emissions (IPCC, 2000) and used by EPA's Office of Air and Radiation. Emission estimates for carbon dioxide are based on the relationship of carbon dioxide generation compared with methane generation.

# 13.2.2 Ammonia and Hydrogen Sulfide Emissions From Animal Confinement Areas and Manure Management Systems

Nitrogen is the primary component of animal waste that is most likely to generate air emissions. Total nitrogen is comprised of organic nitrogen, ammonia (NH<sub>3</sub>), nitrite (NO<sub>2</sub>), and nitrate (NO<sub>3</sub>). The primary source of nitrogen emissions from animal feeding operations to the atmosphere occurs as ammonia.

The major source of ammonia in animal manure is urea from urine, or uric acid in the case of poultry, which easily converts to ammonia. Urea plus ammonia N from urine usually accounts for 40 to 50 percent of the total N excreted in manure (Van Horn et al., 1994). In aqueous solution, ammonia reacts with acid (H<sup>+</sup>) to form the ion ammonium (NH<sub>4</sub><sup>+</sup>), which is not gaseous. The chemical equilibrium in an acid environment promotes rapid conversion of ammonia to ammonium with little loss of ammonia to the atmosphere. Most animal manures, lagoons, and feedlot surfaces have a pH greater than 7.0 (i.e., non-acidic), which permits rapid loss of ammonia to the atmosphere. As a consequence, nitrogen emissions from animal manure, as ammonia, can easily exceed 50 percent (Van Horn et al., 1994). For the purposes of this analysis, emissions of ammonia are quantified for the animal confinement and manure management areas.

Hydrogen sulfide is produced by anaerobic decomposition of organic wastes such as animal manure. High concentrations can be released by agitation and pumping of liquid wastes. Although only small amounts of hydrogen sulfide are produced in a manure tank compared with the other major gases, this gas is heavier than air and becomes more concentrated in the tank over time. Research has determined that hydrogen sulfide production from animal feeding operations depends on the average outside air temperature, the size of the housing or waste management areas, the air retention time in the housing areas, and the daily sulfur intake of the animals.

Livestock may be confined in a number of different ways that impact the type and amount of ammonia emissions. Some animals are housed in traditional confined housing (e.g., tie stall barns, freestall barns), while others are confined in outdoor areas (e.g., drylots, paddocks). Studies have shown that the type of confinement used has a great effect on the emission of ammonia (Jacobson et al., 2000). Management of waste within the confinement area (e.g., litter system, deep pit, freestall) also influences emissions.

Anaerobic lagoons and waste storage ponds are major components of the waste management systems at many animal feeding operations. These systems rely on microbes that biodegrade organic nitrogen to ammonium (NH<sub>4</sub><sup>+</sup>) and ammonia (NH<sub>3</sub>). The ammonia continuously

volatilizes from the surface of lagoons and ponds. The high sulfur content of swine waste also results in hydrogen sulfide emissions from lagoons and ponds.

Under Option 6, wastewater is treated in an anaerobic digester before being released into a secondary storage lagoon. There is typically little to no ammonia gas present in digester gas collected for energy recovery. According to Jewell et al., (1997) the total nitrogen in the waste stream entering the digester equals the total nitrogen in the treated effluent (exiting the digester and entering the secondary storage lagoon); thus, it is assumed that the quantity of ammonia entering the secondary storage lagoon is the same as that entering the primary lagoon for the other options; therefore, the same nitrogen oxides emissions are generated under Option 6 as are generated under the other options, except Option 7.

Under Options 3 and 4, solid wastes are stored on impermeable pads (e.g., concrete pads). Although concrete pads have negligible leachate, the volatilization potential remains almost the same as for a stockpile; therefore, for a specific region, the percentage of ammonia that volatilizes from stockpiles and concrete pads is the same. The negligible leachate from concrete pads results in a slightly higher nitrogen content of waste for land application. The percentage of nitrogen emitted through volatilization from concrete pads and stockpiles depends primarily on the region in which the facility is located.

#### 13.2.3 Criteria Air Emissions From Energy Recovery Systems

Criteria air pollutants are those pollutants for which a national ambient air quality standard has been set. The criteria pollutants evaluated as non-water quality impacts include volatile organic carbons (VOCs) and oxides of nitrogen (NO<sub>x</sub>) (precursors to ozone), particulate matter (PM), and carbon monoxide (CO). These criteria pollutants are formed from the transport of waste, operation of compost equipment, and combustion of biogas.

Criteria pollutant air emissions from energy recovery systems are expected only under Option 6. Option 6 is based on the implementation of anaerobic digester systems with energy recovery for the largest swine and dairy operations. The operation of the digester system greatly reduces the emission of methane through the capture of the biogas; however, the use of the biogas in an energy recovery system does generate certain criteria air pollutants when the recovered biogas is burned for fuel.

#### 13.3 <u>Air Emissions from Land Application Activities</u>

The application of animal waste from animal feeding operations on cropland generates air emissions. The emissions result primarily from the volatilization of ammonia at the point the material is applied to land (Anderson, 1994). Additional emissions of nitrous oxide are released from farmlands when nitrogen applied to the soil undergoes nitrification and denitrification. Loss through denitrification is dependent on the oxygen levels of the soil to which manure is applied. Low oxygen levels, resulting from wet, compacted, or warm soil, increase the amount

of nitrate-nitrogen released into the air as nitrogen gas or nitrous oxide (OSUE, 2000). A study by Sharpe et. al., which compared losses of ammonia and nitrous oxide from sprinkler irrigation of swine effluent, concluded that ammonia emissions made the larger contribution to airborne nitrogen losses (Sharpe and Harper, 1997). The analysis of air emissions from land application activities is focused on the volatilization of nitrogen as ammonia because the emission of other constituents is expected to be less significant.

The amount of nitrogen released into the environment from the application of animal waste is affected by the rate and method by which it is applied, the quantity of material applied, and site-specific factors such as air temperature, wind speed, and soil pH. There is insufficient data to quantify the effect of site-specific factors; therefore, they are not addressed in this section.

The non-water quality impact analysis evaluated the effects of application rates and methods on air emissions, as well as the quantity of animal waste and commercial nitrogen applied to cropland. A detailed description of the data inputs and equations used to calculate these air emissions is provided in the Non-Water Quality Impact Report (ERG, 2000).

## 13.4 <u>Air Emissions From Vehicles</u>

Animal feeding operations that transport their manure off site and/or compost their manure on site use equipment (e.g., trucks, tractors) that releases criteria air pollutants when operated. The NWQI analysis evaluated the increased criteria air pollutant emissions from off-site transportation and composting of manure at animal feeding operations. A detailed description of the data inputs and equations used to calculate these air emissions is provided in the Non-Water Quality Impact Report (ERG, 2000).

Criteria air emissions from the off-site transportation of animal manure are evaluated for each of the regulatory options considered by EPA, as all options will result in an increase of off-site transportation of manure at some operations.

Two different waste transportation options are analyzed. One considers the cost of purchasing trucks to transport waste, and the other option evaluates the cost of paying a contractor to haul the waste off site. Because of the different methods used to estimate the costs of the two transportation options, two methods are used to calculate air emissions. Estimates of air emissions from operations purchasing waste transportation vehicles are based on the cost model calculations of the number of trucks purchased and the annual number of miles traveled. Estimates of contract hauling emissions are based on the cost model calculations of the annual amount of waste generated, the annual number of miles traveled, and truck sizes.

Farm equipment used in on-site composting also affects generation of air emissions. Composting of waste results in a reduction in transportation air emissions if there is a reduction in the volume or weight of material composted. Option 5 for beef and dairy is based on all operations

composting their waste; therefore, criteria air emissions from on-site composting of manure are shown only for beef and dairy Option 5.

#### 13.5 Energy Impacts

Certain regulatory options evaluated for animal feeding operations entail the use of different waste management systems and land application practices which may increase energy usage. Energy impacts related to land application, digesters, and hog high-rise housing are evaluated under baseline conditions and under the seven regulatory options considered by EPA. A detailed description of the data inputs and equations used to calculate these impacts is provided in the Non-Water Quality Impact Report (ERG, 2000).

The proposed regulatory options assume that all beef and dairy animal feeding operations that have cropland apply their manure and wastewater using agronomic application rates; therefore, the manure application rates are calculated to be no greater than the nutrient uptake requirements of the crops grown in the fields on which the manure is applied. In many instances, facilities have to limit the amount of manure applied to the land, which may result in decreased on-site energy usage; however, an equivalent amount of energy is expended elsewhere because, if there is not enough land to apply on site, the manure and wastewater are applied off site.

Option 6 includes the use of anaerobic digesters with energy recovery to manage animal waste for the largest dairy and swine operations. Digesters require a continuous input of energy to operate the holding tank mixer and an engine to convert captured methane into energy. The energy required to continuously operate these devices and the amount of energy generated by the system have been determined from the *FarmWare* model, which is used in the cost model.

Option 5B is based on the conversion of all flush swine systems to non-flush (e.g., hog high-rise systems). Additional energy is required in the hog high-rise to operate the fans and blowers.

#### 13.6 Industry-Level NWOI Estimates

This section provides a summary of the industry-level NWQI estimates for each of the regulatory options under the two applicability thresholds being proposed.

#### 13.6.1 Summary of Air Emissions for Beef and Dairy Subcategories

Tables 13-1 and 13-2 present estimates for Threshold 1 and Tables 13-7 and 13-8 present estimates for Threshold 2.

#### Option 1

Emissions of methane and carbon dioxide from beef and dairy operations decrease under Option 1 due to the added step of solids separation in the waste management system. The separated

solids are stockpiled rather than held in waste storage ponds or anaerobic lagoons. Using this drier method of handling the waste, anaerobic conditions and the potential for the volatile solids to convert to methane decrease. This method also results in the conversion of more nitrogen to nitrous oxide; thus, nitrous oxide emissions from dairies increase.

No changes in losses of ammonia are associated with confinement areas. Because less manure nitrogen is applied under this option, on-site emissions of ammonia generally decrease.

Option 1 is based on the application of animal waste to cropland at agronomic rates for nitrogen. Animal feeding operations that have excess nitrogen for their crops need to transport their waste to another location. Due to the additional transportation of waste off site, the generation of criteria pollutants under Option 1 increases from baseline.

#### Options 2-4 and 7

No change in the emissions of methane, carbon dioxide, or nitrous oxide under Option 1 occurs because no further changes in waste management are needed. Under Options 2-4 and Option 7, emissions of ammonia decrease slightly compared with Option 1. Facilities are required to apply animal waste at agronomic phosphorus rates, which means there will be less application of animal nitrogen to cropland. The application of animal waste is supplemented with commercial nitrogen fertilizer. Although the same amount of nitrogen is applied to cropland as in Option 1, there will be fewer emissions of ammonia because commercial nitrogen is expected to be more stable.

Under these options, the generation of criteria pollutants increases in relation to Option 1, for beef because of an increase in the amount of waste transported off site. Although dairies also experience an increase in waste requiring transport, it is expected that more facilities will find hiring a contract hauler more affordable. Emissions from contract haul vehicles are expected to be less overall because waste from more than one farm may be transported in the same trip.

#### Option 5B

Emissions of greenhouse gases and ammonia from beef and dairy operations increase under Option 5B (i.e., mandated technology of composting). Compost operations include the addition of organic material to the waste pile to aid in the decomposition of the waste. This additional material also decomposes and contributes to increased methane emissions compared with other options. In addition, compost operations release more emissions than stockpiles because the windrows are turned regularly. Stockpiles tend to form outer crusts that reduce the potential for air emissions to occur.

Option 5B generates slightly more criteria air pollutants compared with Option 2 for beef and dairy operations because composting operations require turning equipment which uses fuel and generates additional air emissions from tractors.

#### Option 6

Emissions of methane from dairy waste under Option 6 significantly decrease because an anaerobic digester is used. A significant portion of the methane generated is collected as biogas and converted to energy. Drylot areas at the dairy still generate methane. Carbon dioxide emissions significantly increase as methane is converted during the combustion process.

No change in beef ammonia emissions occur compared with Option 2, because there is no change in land application or housing practices. Although large dairy waste is digested, no change in ammonia emissions occurs. The nitrogen stays in solution in the digester, and when the digester effluent is stored in an open lagoon, the ammonia is released.

Option 6 emissions of criteria pollutants at beef operations are similar to the emissions under Options 2-4 and 7, because there is little difference in the amount of waste transported off site. Option 6 emissions of criteria pollutants for dairy operations slightly decrease compared with Options 2-4 and 7.

# 13.6.2 Summary of Air Emissions for Swine, Poultry, and Veal Subcategories

Tables 13-3 through 13-6 present estimates for Threshold 1 and Tables 13-9 through 13-12 present estimates for Threshold 2.

#### Option 1

Emissions of greenhouse gases from dry poultry operations (broilers, turkeys, and dry layers) do not change under Option 1 in relation to the baseline because no change in the waste handling practices are expected. These operations are already handling the waste as a dry material. Although indoor storage of poultry litter is included in this option, it is not expected to significantly alter air emissions from the litter (only runoff). Emissions of greenhouse gases from veal, swine, and wet poultry operations also do not change because the waste handling practices are not expected to change.

Ammonia emissions occur primarily from liquid waste storage areas, which are not expected to change under Option 1. Because less manure nitrogen is applied under this option, ammonia emissions decrease slightly. Option 1 is based on the application of animal waste to cropland at agronomic rates for nitrogen. Animal feeding operations that have excess nitrogen for their crops transport their waste to another location. The generation of criteria pollutants increases under Option 1 in relation to baseline due to the additional transportation of waste off site.

#### Options 2-4 and 7

No change in emissions of greenhouse gases occurs because under these options no change in the waste handling practices are expected. There is no change in ammonia emissions compared with Option 1 as there are no changes in waste management systems.

Under these options, emissions of ammonia decrease compared with Option 1. These options are based on facilities applying animal waste at agronomic phosphorus rates where conditions warrant, which results in decreased application of animal nitrogen to cropland. The application of animal waste is supplemented with commercial nitrogen fertilizer. Although the same amount of nitrogen is applied to cropland as in Option 1, commercial nitrogen is more stable and results in lower emissions of ammonia.

Because these options are based on the application of animal waste to cropland at agronomic rates for phosphorus where necessary, animal feeding operations that have excess phosphorus for their crops transport their waste to another location. The generation of criteria pollutants increases in relation to Option 1 because more waste is transported off site to meet agronomic rates for phosphorus.

## Option 5A

Emissions of greenhouse gases significantly decrease under Option 5A, which is based on covered lagoons. Because it is assumed that animal operations included in this option (veal, poultry, and swine) flare the gas that is generated in the lagoon, the methane will be converted, which will result in an increase in carbon dioxide emissions.

Because the lagoon cover prevents the ammonia from leaving solution, on-site ammonia emissions decrease. Ammonia in the effluent from the covered lagoon is released as soon as it is exposed to air. Option 5A, however, is based on covered storage at all times; thus, depending on the application methods (e.g., if the waste is incorporated into the soil), ammonia emissions could substantially decrease. Due to the restriction of nitrogen application at the animal feeding operation, there is no change in relation to Option 2 in the amount of material applied to on-site land; therefore, the use of a covered lagoon lowers the on-site ammonia emissions. It should be noted, however, that ammonia is lost from material transported off site, either during transport or at the point of off-site application.

Option 5A emissions of criteria air pollutants for poultry operations are equal to the emissions under Options 2-4 and 7, because there is little difference in the amount of waste transported off site. The emissions of criteria air pollutants for swine operations increase compared with Options 2-4 and 7; however, the emissions of  $SO_x$  decrease.

#### Option 5B

Emissions of methane and carbon dioxide under Option 5B are lower than under Option 2 due to the conversion of liquid manure handling systems (e.g., flush lagoons) to dry manure handling systems for chickens and swine. Dry manure generates less methane than liquid systems. Because turkey operations are already dry, the emissions of methane and carbon dioxide remain the same. Nitrous oxide emissions for swine and chickens operations, however, increase under Option 5B in relation to Option 2.

Ammonia emissions from the confinement of chickens and ammonia and hydrogen sulfide emissions for swine decrease under Option 5B in relation to Option 2 due to the conversion of liquid manure handling systems (e.g., flush lagoons) to dry manure handling; however, there is no change in ammonia emissions due to land application.

Option 5B emissions of criteria pollutants for poultry operations are equal to the emissions under Options 2-4 and 7, because there is no difference in the amount of waste transported off site. The emissions from swine operations are significantly lower than under Option 2 because the conversion of flush operations to dry housing significantly decreases the volume of waste transported off site.

#### Option 6

Emissions of methane from swine waste under Option 6 are significantly lower than under Option 2 due to the addition of the anaerobic digester. A significant portion of the methane generated is collected as biogas and converted to energy. Carbon dioxide emissions significantly increase because methane is converted during the combustion process.

No change in ammonia emissions occur compared with Option 2 because there is no change in land application or housing practices. Although large swine waste is digested, essentially no change will occur to ammonia emissions. The ammonia nitrogen, which is highly soluble, remains in solution in the digester. When the digester effluent is stored in an open lagoon, the ammonia is released.

Option 6 emissions of criteria pollutants for poultry operations are equal to the emissions under Options 2-4 and 7 because there is no difference in the amount of waste transported off site. The VOCs, NO<sub>x</sub>, SO<sub>x</sub>, and CO emissions from swine operations decrease. Hydrogen sulfide contained in the biogas is collected in the digester and is subsequently combusted and converted into to SO<sub>x</sub>.

# 13.6.3 Energy Impacts

Certain regulatory options evaluated for animal feeding operations are based on the use of different waste management systems and land application practices which may affect energy usage. Increased electricity usage occurs at beef and dairy operations under all options for the land application of surface runoff from the feedlot which is collected and stored. Increased electricity usage occurs at swine operations under Option 6 due to the conversion of wet operations to high-rise housing because additional energy is required to operate the fans and blowers.

An overall decrease in energy occurs at those operations which use anaerobic digesters in Option 6. Large swine and dairies that digest their waste and recover and use the biogas to operate an engine will have excess energy that can be used to operate other machinery or that can be sold.

Table 13-1. Threshold 1 NWQIs for Beef (Includes Heifers)

					Regulator	y Option			
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons/yr)					1 .		,,		
Methane (CH <sub>4</sub> )	80,800	77,600	77,600	77,600	77,600		104,000	77,600	77,600
Carbon Dioxide (CO <sub>2</sub> )	34,600	33,300	33,300	33,300	33,300		44,500	33,300	33,300
Nitrous Oxide (N₂O)	37,000	37,000	37,000	37,000	37,000		37,900	37,000	37,000
Ammonia (NH <sub>3</sub> )	536,000	537,000	529,000	529,000	529,000		759,000	529,000	530,000
Volatile Organic Compounds (VOCs)	" NC	Baseline + 519	Baseline + 597	Baseline + 597	Baseline + 597	:	Baseline + . 632	Baseline + 598	Baseline + 597
Nitrogen Oxides (NO <sub>2</sub> )	NC	Baseline + 1,995	Baseline + 2,298	Baseline + 2,298	Baseline + 2,298		Baseline + 2,430	Baseline + 2,299	Baseline + 2,298
Particulate Matter (PM)	NC	Baseline + 39.9	Baseline + 46.0	Baseline + 46.0	Baseline + 46.0		Baseline + 48.6	Baseline + 46.0	Baseline + 46.0
Carbon Monoxide (CO)	NC	Baseline + 6,180	Baseline + 7,120	Baseline + 7,120	Baseline + 7,120		Baseline + 7,540	Baseline + 7,130	Baseline + 7,120
Baseline + Energy Usage (k	W-hr/yr)								
Electricity Usage	432,000,000	454,000,000	701,000,000	701,000,000	701,000,000		701,000,000	701,000,000	701,000,000

Table 13-2. Threshold 1 NWQIs for Dairy

					Regulate	ory Option			
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons/yr)									
Methane (CH <sub>4</sub> )	214,000	137,000	137,000	137,000	137,000		176,000	44,500	137,000
Carbon Dioxide (CO2)	92,500	59,300	59,300	59,300	59,300		92,400	316,000	59,300
Nitrous Oxide (N2O)	4,390	8,420	8,420	8,420	8,420	Las substitutes forces (Ching)	30,900	9,490	8,420
Ammonia (NH <sub>3</sub> )	188,000	185,000	182,000	182,000	182,000	The state of the s	223,000	182,000	179,000
Volatile Organic Compounds (VOCs)	NC	Baseline + 456	Baseline + 386	Baseline + 386	Baseline +		Baseline +	Baseline +	Baseline + 386
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 1,750	Baseline + 1,480	Baseline + 1,480	Baseline +		Baseline +	Baseline + 1,460	Baseline + 1,480
Particulate Matter (PM)	NC	. Baseline + 35.1	Baseline + 29.7	Baseline + 29.7	Baseline + 29.7		Baseline +	Baseline + 29.1	Baseline +
Carbon Monoxide (CO)	NC	Baseline + 5,430	Baseline + 4,600	Baseline + 4,600	Baseline + 4,600		Baseline + 4,690	Baseline + 4,510	Baseline + 4,600
Energy Usage (kW-hr/yr)									<b>7,000</b>
Electricity Usage	NC	Baseline + 158,000,000	Baseline + 170,000,000	Baseline + 170,000,000	Baseline + 170,000,000		Baseline + 170,000,000	Baseline + (972,000,000)	Baseline + 170,000,000

Table 13-3. Threshold 1 NWQIs for Veal

			and the second second second second second	to per a per a sec	Regulato	ry Option	1,		The second secon
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons/yr)				,					
Methane (CH4)	79.8	79.8	79.8	79.8	79.8	30.3	79.8	79.8	79.8
Carbon Dioxide (CO2)	. 34.2	34.2	34.2	34.2	34.2	149.0	34.2	34.2	34.2
Nitrous Oxide (N₂O)	11.8	- 11.8	11.8	11.8	11.8	11.2	11.8	11.8	11.8
Ammonia (NH <sub>3</sub> )	NC	NC	NC	NC	NC	NC	NC	NC	NC
Volatile Organic Compounds (VOCs)	NC	NC .	NC	NC	NC .	NC	NC	NC	NC
Nitrogen Oxides (NO <sub>x</sub> )	NC	NC	NC	NC	NC	NC	NC	NC	NC
Particulate Matter (PM)	NC	NC	NC	NC	NC	NC	NC	NC	NC
Carbon Monoxide (CO)	NC	, NC	NC	NC	NC	NC ·	NC	NC	NC
Energy Usage (kW-hr/yr)									
Electricity Usage	3,870,000	3,870,000	3,870,000	3,870,000	3,870,000	3,870,000	3,870,000	3,870,000	3,870,000

Table 13-4. Threshold 1 NWQIs for Swine

					Regulator	y Option			
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons/yr)									1 Option,
Methane (CH <sub>4</sub> )	296,000	296,000	296,000	296,000	296,000	133,000	125,000	115,000	296,000
Carbon Dioxide (CO <sub>2</sub> )	127,000	127,000	127,000	127,000	127,000	575,000	537,000	625,000	<del> </del>
Nitrous Oxide (N2O)	569	569	569	569	569	364	11,400	241	127,000
Ammonia (NH <sub>3</sub> )	155,000	155,000	155,000	155,000	155,000	139,000	139,000	155,000	167 000
Volatile Organic Compounds (VOCs)	NC	Baseline + 29.0	Baseline + 32.6	Baseline + 32.6	Baseline + 32.6	Baseline +	Baseline + 0.985	Baseline + 12.1	167,000 Baseline + 32.6
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 112	Baseline + 125	Baseline + 125	Baseline +	Baseline + 447	Baseline +	Baseline + 46.6	Baseline +
Particulate Matter (PM)	NC	Baseline + 2.23	Baseline + 2.51	Baseline + 2.51	Baseline + 2.51	Baseline + 8.95	Baseline +	Baseline +	Baseline +
Carbon Monoxide (CO)	NC	Baseline + 331	Baseline + 418	Baseline + 418	Baseline +	Baseline + 684	Baseline +	Baseline +	Baseline +
Hydrogen Sulfide (H₂S)	70,000	70,000	70,000	70,000	70,000	7,700	11,500	69,200	101,000
Energy Usage (kW-hr/yr)							2 2 3 3 3	02,200	101,000
Electricity Usage  NC = Not calculated	NC	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline + 356,000,000	Baseline + (1,247,213,400)	Baseline

Table 13-5. Threshold 1 NWQIs for Chickens

-					Regulator	y Option		- An Allerda Control of the Allerda Control o	
NWQI _	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons/yr)									,
Methane (CH4)	69,900	69,900	69,900	69,900	69,900	28,600	29,600	69,900	69,900
Carbon Dioxide (CO2)	29,900	29,900	29,900	29,900	29,900	143,000	12,700	29,900	29,900
Nitrous Oxide (N₂O)	18,000	18,000	18,000	18,000	18,000	18,000	18,600	18,000	18,000
Ammonia (NH <sub>3</sub> )	153,000	152,000	144,000	144,000	144,000	141,000	142,000	144,000	144,000
Volatile Organic Compounds (VOCs)	NC	Baseline + 4.78	Baseline + 10.9	Baseline + 10.9	Baseline + 10.9	Baseline + 10.9	Baseline + 10.9	Baseline + · 10.9	Baseline + 10.9
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 18.4	Baseline + 41.8	Baseline + 41.8	Baseline + 41.8	Baseline + 41.8	Baseline + 41.8	Baseline + 41.8	Baseline + 41.8
Particulate Matter (PM)	NC	Baseline + 0.368	Baseline + 0.837	Baseline + 0.837	Baseline + 0.837	Baseline + 0.837	Baseline + 0.837	Baseline + 0.837	Baseline + 0.837
Carbon Monoxide (CO)	NC	Baseline + 57.0	Baseline + 130	Baseline + 130	Baseline + 130	Baseline + 130	Baseline + 130	Baseline + 130	Baseline + 130
Energy Usage (kW-hr/yr)		(共享)(有關)	marker	<b>建筑流</b>	李州湖 政司	5.数数据	albertist		
Electricity Usage	NC	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline

Table 13-6. Threshold 1 NWQIs for Turkeys

					Regulato	ry Option			
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons\yr)									Option /
Methane (CH <sub>4</sub> )	7,920	7,920	7,920	7,920	7,920	7,920	7,920	7,920	7,000
Carbon Dioxide (CO <sub>2</sub> )	3,390	3,390	3,390	3,390	3,390	3,390	3,390		7,920
Nitrous Oxide (N2O)	5,250	5,250	5,250	5,250	5,250	5,250	5,250	3,390	3,390
Ammonia (NH <sub>3</sub> )	26,300	26,000	23,500	23,500	23,500	23,500	23,500	5,250	5,250
Volatile Organic Compounds (VOCs)	NC	Baseline + 1.12	Baseline + 4.05	Baseline + 4.05	Baseline + 4.05	Baseline + 4.05	Baseline + 4.05	23,500 Baseline + 4.05	23,500 Baseline + 4.05
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 4.31	Baseline + 15.58	Baseline + 15.58	Baseline +	Baseline + 15.58	Baseline +	Baseline +	Baseline # 15.58
Particulate Matter (PM)	NC	Baseline + 0.086	Baseline + 0.312	Baseline + 0.312	Baseline + 0.312	Baseline + 0.312	Baseline + 0.312	Baseline + 0.312	Baseline + 0.312
Carbon Monoxide (CO)	NC	Baseline + 13.4	Baseline + 48.3	Baseline + 48.3	Baseline + 48.3	Baseline + 48.3	Baseline + 48.3	Baseline + 48.3	Baseline +
Energy Usage (kW-hr/yr).			gar dilegal ar						-10.3
Electricity Usage	NC	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Boseline T	Dan-II
VC = Not calculated			•			24001110	Dascinic	Baseline	Baseline

Table 13-7. Threshold 2 NWQIs for Beef (Includes Heifers)

	AND THE PARTY OF T		1 day of states	*	Regulatory	Option			
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons/yr)				e i Se					ν
Methane (CH4)	79,700	76,500	76,500	76,500	76,500		102,000	76,500	76,500
Carbon Dioxide (CO2)	34,200	32,800	32,800	32,800	32,800		43,900	32,800	32,800
Nitrous Oxide (N₂O)	36,500	36,500	36,500	36,500	36,500		37,400	36,500	36,500
Ammonia (NH <sub>3</sub> )	355,000	321,000	314,000	314,000	314,000		540,000	314,000	315,000
Volatile Organic Compounds (VOCs)	NC	Baseline + 513	Baseline + 591	Baseline + 591	Baseline + 591		Baseline + 626	Baseline + 591	Baseline + 591
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 1,970	Baseline + 2,270	Baseline + 2,274	Baseline + 2,274		Baseline + 2,406	Baseline + 2,275	Baseline + 2,274
Particulate Matter (PM)	NC	Baseline + 39.5	Baseline + 45.5	Baseline + 45.5	Baseline + 45.5		Baseline + 48.1	Baseline + 45.5	Baseline + 45.5
Carbon Monoxide (CO)	NC	Baseline + 6,120	Baseline + 7,051	Baseline + 7,051	Baseline + 7,051		Baseline + 7,460	Baseline + 7,052	Baseline + 7,051
Energy Usage (kW-hr/yr)									
Electricity Usage	427,000,000	457,000,000	705,000,000	705,000,000	705,000,000		705,000,000	705,000,000	705,000,000

Table 13-8. Threshold 2 NWQIs for Dairy

NWQI	Baseline	Regulatory Option								
		Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7	
Air Emissions (Tons/yr)										
Methane (CH <sub>4</sub> )	225,000	144,000	144,000	144,000	144,000		186,000	51,700	144 000	
Carbon Dioxide (CO2)	97,000	62,400	62,400	62,400	62,400		98,100	319,000	144,000	
Nitrous Oxide (N2O)	4,840	8,770	8,770	8,770	8,770	Table 1	27,000	9,830	62,400	
Ammonia (NH <sub>3</sub> )	195,000	191,000	189,000	189,000	189,000	And the second second	229,000	189,000	8,770	
Volatile Organic Compounds (VOCs)	, NC	Baseline + 447	Baseline +	Baseline +	Baseline +	Lateral Control of the Control of th	Baseline +	Baseline + 363	186,000 Baseline +	
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 1,720	Baseline + 1,430	Baseline + 1,430	Baseline + 1,430	and the second of the second	Baseline +	Baseline + 1,400	371 Baseline + 1,430	
Particulate Matter (PM)	NC	Baseline + 34.4	Baseline + 28.5	Baseline + 28.5	Baseline + 28.5		Baseline +	Baseline + 27.9	Baseline + 28.5	
Carbon Monoxide (CO)	NC	Baseline + 5,330	Baseline + 4,420	Baseline + 4,420	Baseline + 4,420		Baseline + 4,520	Baseline + 4,330	Baseline +	
Baseline + Energy Usage (k	W-hr/yr)						<b>,,,,,,</b>	4,330	4,420	
Electricity Usage	NC	Baseline + 132,000,000	Baseline + 230,000,000	Baseline + 230,000,000	Baseline + 230,000,000		Baseline + 230,000,000	Baseline + (912,000,000)	Baseline + 230,000,000	

Table 13-9. Threshold 2 NWQIs for Veal

		Regulatory Option								
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7	
Air Emissions (Tons/yr)			,			, ,		•	4	
Methane (CH4)	. 80.1	80.1	80.1	80.1	80.1	30.4	80.1	80.1	80.1	
Carbon Dioxide (CO2)	34.3	34.3	34.3	34.3	34.3	150	34.3	34.3	34.3	
Nitrous Oxide (N₂O)	11.7	11.7	11.7	11.7	11.7	11.1	11.7	11.7	11.7	
Ammonia (NH <sub>3</sub> )	NC	NC	NC	NC	NC	NC	NC	NC	NC	
Volatile Organic Compounds (VOCs)	NC	NC	NC	ı NC	NC .	NC	NC	NC	NC	
Nitrogen Oxides (NO <sub>z</sub> )	NC	NC	NC	- NC	NC	NC	NC	NC	NC	
Particulate Matter (PM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	
Carbon Monoxide (CO)	. NC	NC	NC	' NC	NC	NC	NC	NC	NC	
Energy Usage (kW-hr/yr)				<b>建设设施</b>	in it is		经基础的基础			
Electricity Usage	4,550,000	4,550,000	4,550,000	4,550,000	4,550,000	4,550,000	4,550,000	4,550,000	4,550,000	

Table 13-10. Threshold 2 NWQIs for Swine

NWQI		Regulatory Option								
	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7	
Air Emissions (Tons/yr)									- Obion /	
Methane (CH <sub>4</sub> )	275,000	275,000	275,000	275,000	275,000	118,000	115,000	03 000	275 000	
Carbon Dioxide (CO2)	118,000	118,000	118,000	118,000	118,000	549,000	49,100	93,900	275,000	
Nitrous Oxide (N2O)	518	518	518	518	518	321		616,000	118,000	
Ammonia (NH <sub>3</sub> )	142,000	142,000	142,000	142,000	142,000	128,000	10,400	190	518	
Volatile Organic Compounds (VOCs)	NC	Baseline + 27.4	Baseline + 34.0	Baseline + 34.0	Baseline + 34.0	Baseline + 60.0	128,000 Baseline + 0.848	142,000 Baseline + 11.2	154,000 Baseline + 34.0	
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 105	Baseline + 116	Baseline +	Baseline +	Baseline +	Baseline +	Baseline +	Baseline +	
Particulate Matter (PM)	NC	Baseline + 2.11	Baseline + 2.32	Baseline + 2.32	Baseline + 2.32	Baseline + 4.62	Baseline + 0.065	Baseline +	Baseline +	
Carbon Monoxide (CO)	NC	Baseline + 327	Baseline + 360	Baseline + 360	Baseline + 360	Baseline + 716	Baseline +	Baseline +	Baseline +	
Hydrogen Sulfide (H₂S)	66,000	64,900	64,900	64,900	64,900	6,780	10,800	64,100	6,780	
Energy Usage (kW-hr/yr)					7. X.				0,760	
Electricity Usage  NC = Not calculated	NC	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline + 342,000,000	Baseline + (1,250,000,000)	Baseline	

Table 13-11. Threshold 2 NWQIs for Chickens

	and the second s	Regulatory Option							
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	Option 7
Air Emissions (Tons/yr)							4.		
Methane (CH4)	68,300	68,300	68,300	68,300	68,300	28,900	29,900	68,300	68,300
Carbon Dioxide (CO2)	29,300	29,300	29,300	29,300	29,300	138,000	12,800	29,300	29,300
Nitrous Oxide (N2O)	18,300	18,300	18,300	18,300	18,300	18,300	18,900	18,300	18,300
Ammonia (NH <sub>3</sub> )	156,000	155,000	147,000	147,000	147,000	145,000	146,000	147,000	149,000
Volatile Organic Compounds (VOCs)	NC	Baseline + 4.49	Baseline + 10.2	Baseline + 10.2	Baseline + 10.2				
Nitrogen Oxides (NO <sub>x</sub> )	NC	. Baseline + 17.3	Baseline + 39.3	Baseline + 39.3	Baseline + 39.3	Baseline + 39.3	Baseline + 39.3	Baseline + 39.3	Baseline + 39.3
Particulate Matter (PM)	NC	Baseline + 0.345	Baseline + 0.785 -	Baseline + 0.785					
Carbon Monoxide (CO)	NC	Baseline + 53.5	Baseline + 122						
Energy Usage (kW-hr/yr)			and and			est de la			
Electricity Usage	NC	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline

Table 13-12. Threshold 2 NWQIs for Turkeys

		Regulatory Option							
NWQI	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5A	Option 5B	Option 6	
Air Emissions (Tons/yr)								Obrrous	Option 7
Methane (CH <sub>4</sub> )	8,330	8,330	8,330	8,330	8,330	8,330	0.000		
Carbon Dioxide (CO2)	3,570	3,570	3,570	3,570			8,330	8,330	8,330
Nitrous Oxide (N2O)	5,520	5,520	5,520	<del>                                     </del>	3,570	3,570	3,570	3,570	3,570
Ammonia (NH <sub>3</sub> )	28,700	28,400		5,520	5,520	5,520	5,520	5,520	5,520
Volatile Organic			26,000	26,000	26,000	26,000	26,000	26,000	26,000
Compounds (VOCs)	NC	Baseline + 1.01	Baseline + 3.63	Baseline + 3.63	Baseline + 3.63	Baseline + 3.63	Baseline + 3.63	Baseline +	Baseline +
Nitrogen Oxides (NO <sub>x</sub> )	NC	Baseline + 3.88	Baseline + 14.0	Baseline + 14.0	Baseline +	Baseline + 14.0	Baseline +	Baseline +	3.63 Baseline +
Particulate Matter (PM)	NC	Baseline + 0.078	Baseline + 0.279	Baseline + 0.279	Baseline + 0.279	Baseline + 0.279	Baseline + 0.279	14.0 Baseline +	Baseline +
Carbon Monoxide (CO)	NC	Baseline + 12.0	Baseline + 43.3	Baseline + 43.3	Baseline + 43.3	Baseline +	Baseline + 43.3	0.279 Baseline +	0.279 Baseline +
Energy Usage (kW-hr/yr)		er er f. f. fegt skriut					45.5	43.3	43.3
Electricity Usage	NC	Baseline	Baseline	Baseline	Dan-U. I				
NC = Not calculated			Duscrine	Daseille	Baseline	Baseline	Baseline	Baseline	Baseline

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## **CHAPTER 14**

## **GLOSSARY**

aeration the process of bringing air into contact with a liquid by one or more of the following methods: (1) spraying the liquid in the air, (2) bubbling

air through the liquid, and (3) agitating the liquid to promote

absorption of oxygen through the air liquid interface

aerobic having or occurring in the presence of the free oxygen

aerobic lagoon a holding and/or treatment pond that speeds up the natural process of

biological decomposition of organic waste by stimulating the growth and activity of bacteria that degrade organic waste in an oxygen-rich

environment

Ag Census the census of agriculture conducted every 5 years; a major source of

information about the structure and activities of agricultural

production at the national, state, and county levels

agitation thorough mixing of liquid or slurry manure at a storage structure to

provide a more consistent fertilizer material and allow the producer to

empty as much of the storage as possible

agronomic rates the land application of animal wastes at rates of application that

provide the crop or forage growth with needed nutrients for optimum

health and growth

air emissions release of any pollutant into the air

resease of any politicant into the an

ammonia the loss of ammonia gas to the atmosphere volatilization

anaerobic the absence of molecular oxygen, or capable of living and growing in

the absence of oxygen, such as anaerobic bacteria

anaerobic lagoon a holding and/or treatment pond that speeds up the natural process of

biological decomposition of organic waste by stimulating the growth and activity of bacteria that degrade organic waste in an oxygen-

depleted environment

animal feeding operation (AFO)

a lot or facility (other than an aquatic animal production facility) where animals have been, are, or will be stabled or confined and fed or maintained for a total of 45 days or more in any 12-month period, and the animal confinement areas do not sustain crops, vegetation, forage growth, or postharvest residues in the normal growing season. Two or more animal feeding operations under common ownership are a single animal feeding operation if they adjoin each other or if they use a common area or system for the disposal of wastes.

APHIS

Animal and Plant Health Inspection Service, United States Department of Agriculture

haffle

a device (as a plate, wall, or screen) to deflect, check, or regulate flow (fluid, light, or sound)

barrow

a castrated male pig

herm

a narrow shelf, path, or ledge typically at the top or bottom of a slope; a mound or wall of earth

best available technology (BAT) the best available technology that is economically achievable established under 301(b) and 402 of the Federal Water Pollution Control Act as amended, also known as the Clean Water Act, found at 33 USC 1251 et seq. The criteria and standards for imposing technology-based treatment requirements are listed in 40 CFR 125.3.

best conventional technology (BCT) the best conventional pollutant control technology that is economically achievable established under 301(b) and 402 of the Federal Water Pollution Control Act as amended, also known as the Clean Water Act, found at 33 USC 1251 et seq. The criteria and standards for imposing technology-based treatment requirements are listed in 40 CFR 125.3.

best management practice (BMP)

a practice or combination of practices found to be the most effective, practicable (including economic and institutional considerations) means of preventing or reducing the amount of pollution generated

bioavailability

the degree and rate at which a substance is absorbed into a living system or is made available at the site of physiological activity

biochemical oxygen demand (BOD)

an indirect measure of the concentration of biodegradable substances present in an aqueous solution. Determined by the amount of dissolved oxygen required for the aerobic degradation of the organic matter at 20 °C. BOD<sub>5</sub> refers to that oxygen demand for the initial 5 days of the degradation process

biogas

a mixture of methane and carbon dioxide produced by the bacterial

decomposition of organic wastes and used as a fuel

biosecurity

a defensive health plan and hygiene procedures that can help keep an

animal feeding operation disease free

biosolids

solid organic matter recovered from a sewage treatment process and

used especially as fertilizer

**BPJ** 

best professional judgement

**BPT** 

best practicable technology

broadcasting

method of application (seed or fertilizer) to the soil surface

broilers

chickens of either sex specifically bred for meat production and

marketed at approximately 8 weeks of age

carcass-weight

weight of the dead body of an animal, slaughtered and gutted

certified specialist

someone who has been certified to prepare Comprehensive Nutrient

Management Plans (CNMPs) by USDA or a USDA sanctioned

organization

compaction

an increase in soil bulk density, limiting both root penetration, and water and nutrient uptake induced by tillage- and vehicular-traffic

composting

a process of aerobic biological decomposition of organic material characterized by elevated temperatures that, when complete, results in a relatively stable product suitable for a variety of agricultural and

horticultural uses

concentrated animal feeding operation

(CAFO)

an "animal feeding operation" that meets the criteria in 40 CFR Part 122, Appendix B, or an operation designated as a significant

contributor of pollution pursuant to 40 CFR 122.23

costing

a systematic method or procedure used to develop the estimated costs

of a technology or practice

cover crop

a close-growing crop, whose main purpose is to protect and improve the soil and use excess nutrients or soil moisture during the absence of

the regular crop, or in the nonvegetated areas of orchards and

vineyards

crop removal rate the application rate for manure or wastewater which is determined by

the amount of phosphorus which will be taken up by the crop during the growing season and subsequently removed from the field through crop harvest. Field residues do not count towards the amount of

phosphorus removed at harvest.

crop rotation a planned sequence of crops

denitrification the chemical or biological reduction of nitrate or nitrite to gaseous

nitrogen, either as molecular nitrogen (N2) or as an oxide of nitrogen

 $(N_2O)$ 

detention pond a basin whose outlet has been designed to detain the storm water

runoff from a design storm (e.g., 25 year/24 hour storm) for some minimum time to allow particles and associated pollutants to settle

digestion the process whereby organic matter breaks down into simpler and/or

more biologically stable products, e.g., ammonia to organic nitrogen

disking cultivating with an implement that turns and loosens the soil with a

series of discs

dry lots open feedlots sloped or graded from 4 to 6 percent to promote

drainage away from the lot to provide consistently dry areas for cattle

to rest

effluent the liquid discharge from a waste treatment process

endogenous growing or produced by growth from deep tissue (e.g., plant roots)

ephemeral erosion a shallow, concentrated flow path that develops as a response to a

specific storm and disappears as a result of tillage or natural processes

erosion the wearing away of the land surface by water, wind, ice, or other

geologic agents and by such processes as gravitational creep

ERS Economic Research Service, United States Department of Agriculture

evapotranspiration the loss of water from an area by evaporation from the soil or snow

cover and transpiration by plants

farrowing the act of giving birth to pigs by the sow

farrow-to-finish contains all three hog production phases: farrow, nursery, finish

fecal coliform the bacterial count (Parameter 1) at 40 CFR 136.3 in Table 1A, which

also cites the approved methods of analysis.

feedlot a concentrated, confined animal or poultry growing operation for

meat, milk, or egg production, or stabling, in pens or houses wherein the animals or poultry are fed at the place of confinement and crop or

forage growth or production is not sustained in the area of

confinement, and is subject to 40 CFR 412

fertilizer value the value of noncommercial fertilizer (e.g., manure)

flushing system a system that collects and transports or moves waste material with the

use of water, such as in washing of pens and flushing of confinement

livestock facilities

freeboard the height above the recorded high-water mark of a structure (as a

dam) associated with the water

FRN federal registrar notice

frequency factor the regional compliance of animal feeding operations with BMPs

associated with a nutrient management plan, facility upgrades, or

strategies to reduce excess nutrients

**FORTRAN** one of the most widely used programming languages for solving

problems in science and engineering

gilt a young or immature female pig

**GLEAMS** Groundwater Loading Effects of Agricultural Management Systems

ground water water filling all the unblocked pores of underlying material below the

water table

hen a mature female chicken

incorporation mixing manure into the soil, either by tillage or by subsurface

injection, to increase manure nutrient availability for use by crops

injection a tillage implement that cuts into the soil depositing liquid or slurry

integrators poultry companies, under contract with growers, who supply birds,

feed, medicines, transportation, and technical help

irrigation application of water to lands for agricultural purposes (Soil

Conservation Society of America, 1982)

lagoon an all-inclusive term commonly given to a water impoundment in

which organic wastes are stored or stabilized, or both. Lagoons may be described by the predominant biological characteristics (aerobic, anaerobic, or facultative), by location (indoor, outdoor), by position in a series (primary, secondary, or other), and by the organic material

accepted (sewage, sludge, manure, or other)

land application application of manure, sewage sludge, municipal wastewater, and

industrial wastes to land for reuse of the nutrients and organic matter

for their fertilizer and soil conditioning values

land application area any land under the control of the CAFO operator, whether it is owned,

rented, or leased, to which manure and process wastewater is or may

be applied

layer a mature hen that is producing eggs

leaching (1) the removal of soluble constituents, such as nitrates or chlorides,

from soils or other material by the movement of water; (2) the removal of salts and alkali from soils by irrigation combined with drainage; (3) the removal of a liquid through a non-watertight

artificial structure, conduit, or porous material by downward or lateral

drainage, or both, into the surrounding permeable soil

load quantity of substance entering the receiving body

macronutrient a chemical element required, in relatively large amounts, for proper

plant growth

manure the fecal and urinary excretions of livestock and poultry

micronutrient a chemical element required, in relatively small amounts, for proper

plant growth

mulch any substance that is spread on the soil surface to decrease the effects

of raindrop impact, runoff, and other adverse conditions and to retard

evaporation

NAHMS National Animal Health Monitoring System, United States

Department of Agriculture

NASS National Agricultural Statistics Service, United States Department of

Agriculture

TAXYI	CONTRAC
IIC W	source

a source that is subject to subparts C or D of 40 CFR 412 and, not withstanding the criteria codified at 40 CFR 122.29(b)(1): (i) is constructed at a site at which no other source is located; or (ii) replaces the housing including animal holding areas, exercise yards, and feedlot, waste handling system, production process, or production equipment that causes the discharge or potential to discharge pollutants at an existing source; or (iii) constructs a production area that is substantially independent of an existing source at the same site. Whether processes are substantially independent of an existing source, depends on factors such as the extent to which the new facility is integrated with the existing facility; and the extent to which the new facility is engaged in the same general type of activity as the existing source.

nitrification

the biochemical transformation by oxidation of ammonium  $(NH_4^+)$  to nitrite  $(NO_2^-)$  or nitrate  $(NO_3^-)$ 

nitrogen

a chemical element, commonly used in fertilizer as a nutrient, that is also a component of animal wastes. Plant available nitrogen forms include nitrate ( $NO_3$ ) and ammonium ( $NH_4$ <sup>+</sup>).

no-till

a planting procedure that requires no tillage except that done in the immediate area of the crop row

**NRCS** 

Natural Resource Conservation Service, United States Department of Agriculture

**NSPS** 

New Source Performance Standards are uniform national EPA air emission and water effluent standards that limit the amount of pollution allowed from new sources or from modified existing sources

nutrient management

a planning tool used to control the amount, source, placement, form, and timing of the application of nutrients and soil amendments (USDA, 1999)

nutrient management plan

an approach for managing the form, rate, timing, and method of application of nutrients, including nutrients from biosolids, being applied to the soil in a manner that provides adequate plant nutrition but minimizes the environmental impact of these nutrients

nutrient removal rate

the removal of nutrients in harvested material on a per acre basis

**NWPCAM** 

National Water Pollution Control Assessment Model

organic matter

the organic fraction of the soil exclusive of undecayed plant and animal residue

overflow

the process wastewater discharge resulting from the filling of wastewater or liquid manure storage structures to the point at which no more liquid can be contained by the structure

permit nutrient plan (PNP)

a plan developed in accordance with 40 CFR 412.33 (b) and §412.37. This plan shall define the appropriate rate for applying manure or wastewater to crop or pasture land. The plan accounts for soil conditions, concentration of nutrients in manure, crop requirements and realistic crop yields when determining the appropriate application rate.

phosphorus

one of the primary nutrients required for the growth of plants. Phosphorus is often the limiting nutrient for the growth of aquatic plants and algae.

phosphorus level

a system of weighing a number of measures that relate the potential for phosphorus loss due to site and transport characteristics. The phosphorus index must at a minimum include the following factors when evaluating the risk for phosphorus runoff from a given field or site:

- (1) Soil erosion.
- (2) Irrigation erosion.
- (3) Run-off class.
- (4) Soil phosphorus test.
- (5) Phosphorus fertilizer application rate.
- (6) Phosphorus fertilizer application method.
- (7) Organic phosphorus application rate.
- (8) Method of applying organic phosphorus.

phosphorus threshold (TH level)

a specific soil test concentration of phosphorus established by states. The concentration defines the point at which soluble phosphorus may pose a surface runoff risk.

photoperiod

the time between sunrise and sunset

phytase

an enzyme effective at increasing the breakdown of phytase phosphorus in the digestive tract and reducing the phosphorous excretion in the feces

point source

the release of a contaminant or pollutant, often in concentrated form, from a conveyance system, such as a pipe, into a waterbody

porous dam

a runoff control structure that reduces the rate of runoff so that solids settle out in the settling terrace or basin. The structure may be constructed of rock, expanded metal, or timber arranged with narrow slots.

potassium

one of the primary nutrients required for the growth of plants

poult

a young, immature turkey

precipitation

a deposit on the earth of hail, mist, rain, sleet, or snow; also: the quantity of water deposited

pretreatment

a process used to reduce, eliminate, or alter the nature of wastewater pollutants from nondomestic sources before they are discharged into publicly owned treatment works

process wastewater

water directly or indirectly used in the operation of the CAFO for any or all of the following: spillage or overflow from animal or poultry watering systems; washing, cleaning, or flushing pens, barns, manure pits, or other CAFO facilities; direct contact swimming, washing or spray cooling of animals; litter or bedding; dust control; and stormwater which comes into contact with any raw materials, products or by-products of the operation.

production area

that part of the CAFO that includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. The animal confinement area includes but is not limited to open lots, housed lots, feedlots, confinement houses, stall barns, free stall barns, milkrooms, milking centers, cowyards, barnyard, exercise yards, animal walkways, and stables. The manure storage area includes but is not limited to lagoons, sheds, under house or pit storage, liquid impoundments, static piles, and composting piles. The raw materials storage area includes but is not limited to feed silos, silage bunkers, and bedding materials. The waste containment area includes but is not limited to settling basins, and areas within berms, and diversions which separate uncontaminated stormwater. Also included in the definition of production area is any egg washing or egg processing facility.

production phase

the animal life cycles grouped into discreet categories based on age and maturity

protease

any of numerous enzymes that hydrolyze proteins and are classified according to the most prominent functional group (as serine or cysteine) at the active site

**PSES** 

Pretreatment Standards for Existing Sources

**PSNS** 

Pretreatment Standards for New Sources

pullet

an immature female chicken

reduced-till a management practice whereby the use of secondary tillage

operations is significantly reduced

residue cover unharvested material left on the soil surface designed to reduce water

and wind erosion, maintain or increase soil organic matter, conserve soil moisture, stabilize temperatures, and provide food and escape

cover for wildlife

RFA Regulatory Flexibility Analysis

rill erosion an erosion process in which numerous small channels of only several

centimeters in depth are formed; occurs mainly on recently cultivated

soils

runoff the part of precipitation or irrigation water that appears in surface

streams of waterbodies; expressed as volume (acre-inches) or rate of

flow (gallons per minute, cubic feet per second)

SBA Small Business Administration

SBREFA Small Business Regulatory Enforcement Fairness Act

setback a specified distance from surface waters or potential conduits to

surface waters where manure and wastewater may not be land applied. Examples of conduits to surface waters include, but are not limited to,

tile line intake structures, sinkholes, and agricultural well heads.

sheet erosion soil erosion occurring from a thin, relatively uniform layer of soil

particles on the soil surface; also called interrill erosion

side-dressing the application of fertilizer alongside row crop plants, usually on the

soil surface. Nitrogen materials are most commonly side-dressed.

sludge settled sewage solids combined with varying amounts of water and

dissolved materials that are removed from sewage by screening, sedimentation, chemical precipitation, or bacterial digestion

slurry a thin mixture of a liquid and finely divided particles

soil test phosphorus the measure of the phosphorus content in soil as reported by approved

soil testing laboratories using a specified analytical method

sow a mature female hog

spreader a farm implement used to scatter fertilizer

supernatant the liquid fraction in a lagoon

surface runoff

the portion of precipitation on an area that is discharged from the area

through stream channels

surface water

all water whose surface is exposed to the atmosphere (Soil

Conservation Society of America, 1982)

suspended solids

(1) undissolved solids that are in water, wastewater, or other liquids and are largely removable by filtering or centrifuging; (2) the quantity of material filtered from wastewater in a laboratory test, as prescribed in APHA Standard Methods for the Examination of Water and

Wastewater or similar reference

tanker

a vehicle constructed to transport bulk liquids

tom

a male turkey

total suspended solids (TSS)

the weight of particles that are suspended in water. Suspended solids in water reduce light penetration in the water column, can clog the gills of fish and invertebrates, and are often associated with toxic contaminants because organics and metals tend to bind to particles. Differentiated from total dissolved solids by a standardized filtration process whereby the dissolved portion passes through the filter.

USDA

United States Department of Agriculture

volatilization

the loss of gaseous components, such as ammonium nitrogen, from

animal manure

waste management

system

a combination of conservation practices formulated to appropriately manage a waste product that, when implemented, will recycle waste constituents to the fullest extent possible and protect the resource base

in a nonpolluting manner

wastewater

the spent or used water from a home, a community, a farm, or an

industry that contains dissolved or suspended matter

water quality

the excellence of water in comparison with its intended use or uses

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