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**MARYLAND MOTOR CARRIER PROGRAM
SAFETY INSPECTIONS OF COMMERCIAL VEHICLES AT MARYLAND
WEIGH/INSPECTION FACILITIES**

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Dear NTIS Program Administrator:

As specified in the Department of Transportation's *Reporting Requirements for University Transportation Centers*, enclosed is one copy of each of the final research reports by Dr. Dr. Bapna and Dr. Zaveri of the National Transportation Center (NTC) at Morgan State University.

Sincerely,

Dr. Andrew Farkas
Director

Enclosures

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Technical Report Document Page

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16. Abstract This paper documents the total number of safety inspections conducted at several fixed and roving weigh/inspection facilities in the state of Maryland. This analysis is based on data collected from Maryland's SAFETYNET. The database files are obtained from the MSP-C.V.E.D. office. For this analysis, data for all inspections conducted in Maryland for the period January 1998 through June 1999 are used. Inspections are reported in terms of electronic (ASPEN) and manual inspections.			
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SUMMARY

This paper documents the total number of safety inspections conducted at several fixed and roving weigh/inspection facilities.

This analysis is based on data collected from Maryland's SAFETYNET. The database files are obtained from the MSP-C.V.E.D. office. For this analysis, data for all inspections conducted in Maryland for the period January 1998 through June 1999 are used. During this period, a total of 155,009 inspections were conducted, of which 111,226 were manual inspections and the remaining (43,783) were electronic inspections.

Figure 1 shows the total number of manual and electronic inspections for the period January 1998 through June 1999. The total number of inspections in the period varied from 7,089 to 10,853 inspections per month. The average number of inspections carried out in a month was 8,612. As seen in the figure, the number of inspections conducted electronically has been increasing steadily since the deployment and implementation of the electronic inspection system. Simultaneously, the number of inspections conducted manually has decreased during this period. The figure also shows the percentage of inspections conducted electronically. As seen from the figure, the total number of electronic inspections has increased steadily from approximately 6% of the total to nearly 50%. The increase in the number of electronic inspections is the result of deployment of laptop computers and educational initiatives.

These inspections are carried out at different levels. Figures 2 through 5 show the total number of manual and electronic inspections at Levels I, II, III, and V. As shown in Figures 2 through 4, the number of electronic inspections for Levels I, II, and III has been increasing steadily. Figure 5 shows that, for Level V, the majority of inspections are conducted electronically.

Table 1 shows the total number of safety inspections conducted at each of the Weigh/Inspection Facilities in Maryland during the period January 1998 to June 1999.

This table is organized in descending order, based on the number of inspections conducted.

Figures 6 through 31 show the number of electronic and manual inspections at each of the major inspection locations. The criterion used to define a major inspection location is that the site should have conducted 1,000 inspections in the period January 1998 through June 1999, that is, an average of 56 inspections per month.

**Table 1: Total Number of Safety Inspections Conducted at Weigh/Inspection
Facilities in Maryland During the Period January 1998 to June 1999
(Descending Order on Number of Inspections)**

Number of Inspections	Location Number	Name of Location	Facility Type
17788	12	S/B SCALE FACILITY (MDTAP)	Fixed
17378	11	I-95 N/B SCALE FACILITY	Fixed
15229	1	WEST FRIENDSHIP SCALES	Fixed
14681	2	I-70 NEW MARKET SCALE HOUSE	Fixed
11096	60	FINZEL SCALES	Fixed
10499	68	I-270 W/B HYATTSTOWN SCALE HOUSE	Fixed
6383	13	I-95 @ I-495 (PARK AND RIDE)	Fixed
4871	72	SOUTHBOUND ON 895TOLL FACILITY	Fixed
4655	67	I-270 E/B HYATTSTOWN SCALE HOUSE	Fixed
3688	70	S/B DARLINGTON	Fixed
3551	18	US301 UPPER MARLBORO S.H. S/B	Fixed
3549	22	RT 13 S/B SALISBURY SCALE HOUSE	Fixed
3450	21	RT 13 N/B SALISBURY SCALE HOUSE	Fixed
3236	15	I-83	Fixed
3015	17	US301 UPPER MARLBORO S.H. N/B	Fixed
2457	63	I-95 N/B FT. MCHENRY TOLL PLAZA	Fixed
2380	23	BAY BRIDGE E/B (MDTAP)	Fixed
2372	32	BALTIMORE COUNTY P.D.	Roving
2065	59	RT 50 @ VIENNA	Fixed
1440	46	GARRETT COUNTY	Roving
1393	34	PRINCE GEORGES COUNTY P.D.	Roving
1284	51	PRINCE GEORGES COUNTY	Fixed
1196	52	QUEEN ANNE'S COUNTY	Roving
1091	69	RT 1 N/B DARLINGTON	Roving
1090	50	MONTGOMERY COUNTY	Roving
1043	30	ANNE ARUNDEL CO P.D.	Roving
967	37	BALTIMORE CITY	Roving
963	66	W/B KEY BRIDGE (MDTAP)	Fixed
926	42	CECIL COUNTY	Roving
813	38	BALTIMORE COUNTY	Roving
776	36	ANNE ARUNDEL COUNTY	Roving
733	49	KENT COUNTY	Roving
720	61	RT 40 E/B HATEM SCALE HOUSE	Fixed
650	57	WICOMICO COUNTY	Roving
645	24	W/B BAY BRIDGE (MDTAP)	Fixed
608	62	RT 40 W/B HATEM SCALE HOUSE	Fixed
559	48	HOWARD COUNTY	Roving
547	47	HARFORD COUNTY	Roving
519	58	WORCESTER COUNTY	Roving
505	45	FREDERICK COUNTY	Roving
400	35	ALLEGANY COUNTY	Roving
350	16	I-81	Roving
336	10	I-95 NSA S/B CECIL COUNTY	Fixed
294	33	MONTGOMERY COUNTY P.D.	Roving
263	19	US301 CENTREVILLE REST AREA N/B	Roving
261	56	WASHINGTON COUNTY	Roving

Number of Inspections	Location Number	Name of Location	Facility Type
243	65	I-695 E/B FSK BRIDGE TOLL FACILITY	Fixed
195	55	TALBOT COUNTY	Roving
188	71	US301 GALENA/MASSEY	Fixed
186	31	BALTIMORE CITY P.D.	Roving
161	64	I-95 S/B FT. MCHENRY TOLL PLAZA	Roving
158	40	CAROLINE COUNTY	Roving
142	41	CARROLL COUNTY	Roving
134	9	NSA N/B CECIL COUNTY	Fixed
124	20	US301 CENTREVILLE REST AREA S/B	Roving
115	7	I-95 N/B MARYLAND HOUSE	Roving
114	43	CHARLES COUNTY	Roving
68	44	DORCHESTER COUNTY	Roving
66	53	ST. MARY'S COUNTY	Roving
48	25	RT 40 E/B FOY HILL SCALE HOUSE	Roving
48	73	N/B ON 895 TOLL FACILITY	Roving
40	74	GAITHERSBURG CITY P.D.	Roving
33	54	SOMERSET COUNTY	Roving
31	5	N/B REST AREA (LAUREL)	Fixed
28	8	I-95 S/B MARYLAND HOUSE	Fixed
27	27	I-95 N/B HARFORD COUNTY	Roving
25	3	I-70 W/B REST AREA	Fixed
11	4	I-70 E/B REST AREA	Fixed
5	14	I-95 @ RT 210	Roving
5	39	CALVERT COUNTY	Roving
4	6	I-95 S/B REST AREA (LAUREL)	Fixed
2	26	RT 40 W/B FOY HILL SCALE HOUSE	Fixed

Figure 1: Total Number of Inspections (All Levels).

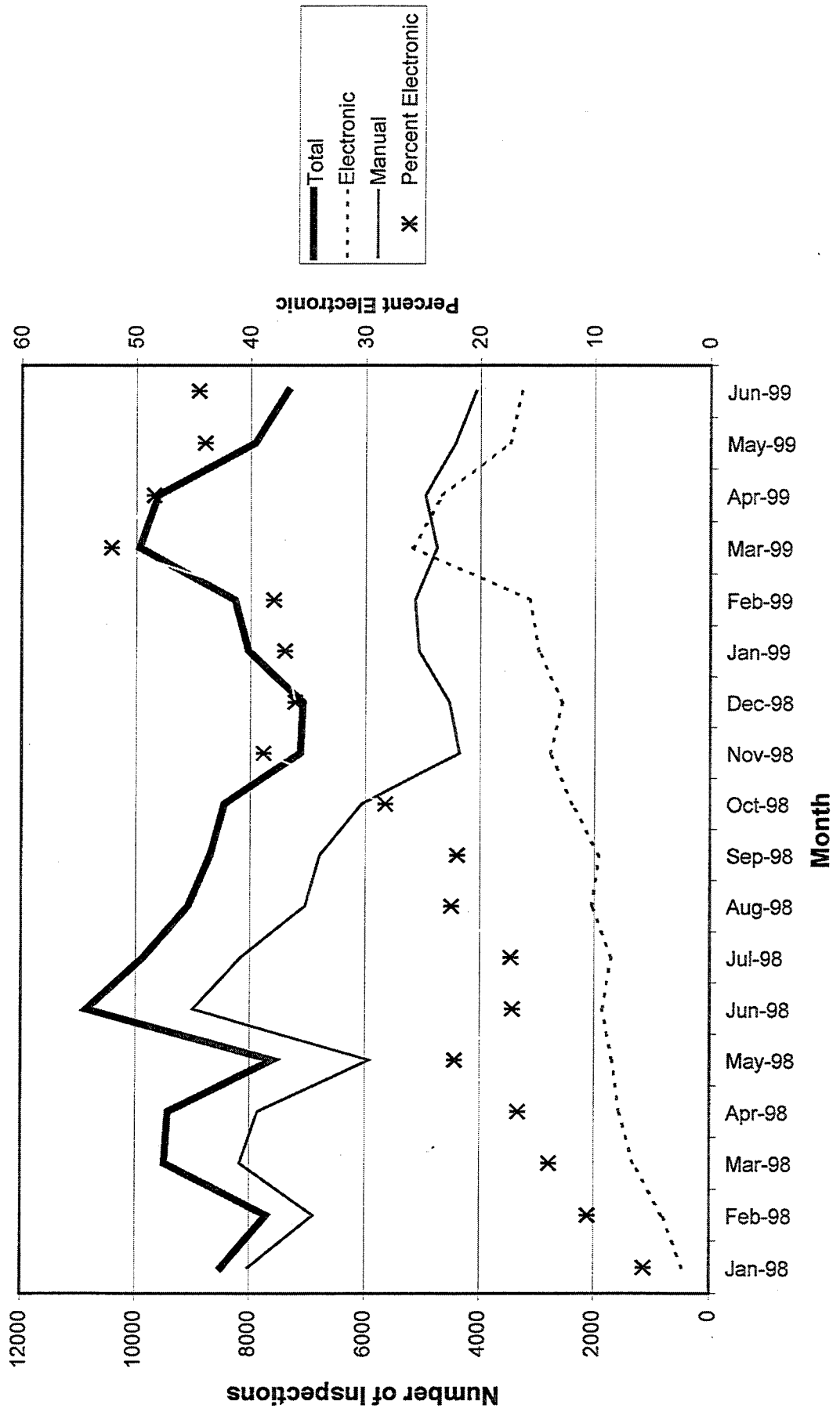


Figure 2: Total Number of Inspections (Level I).

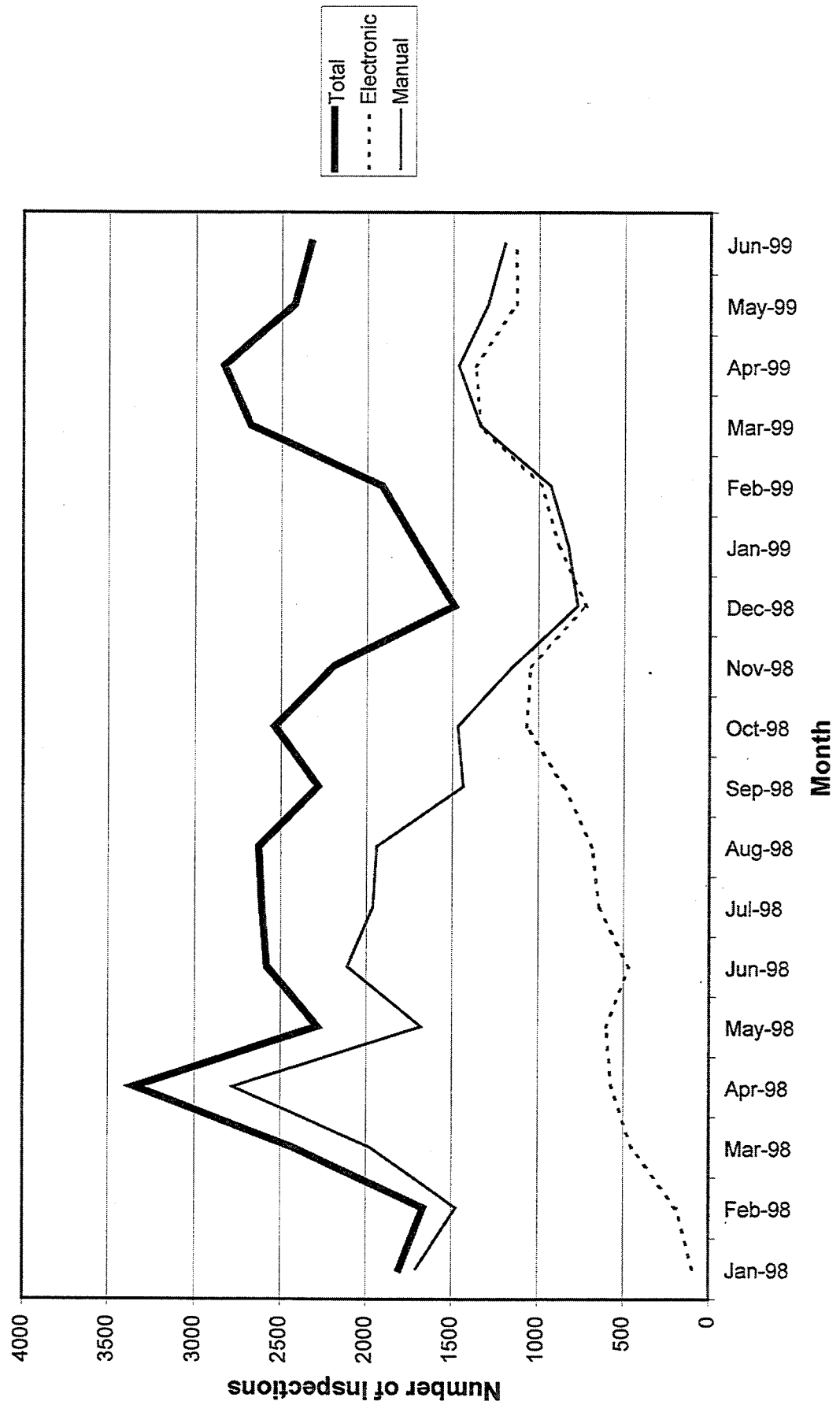


Figure 3: Total Number of Inspections (Level II).

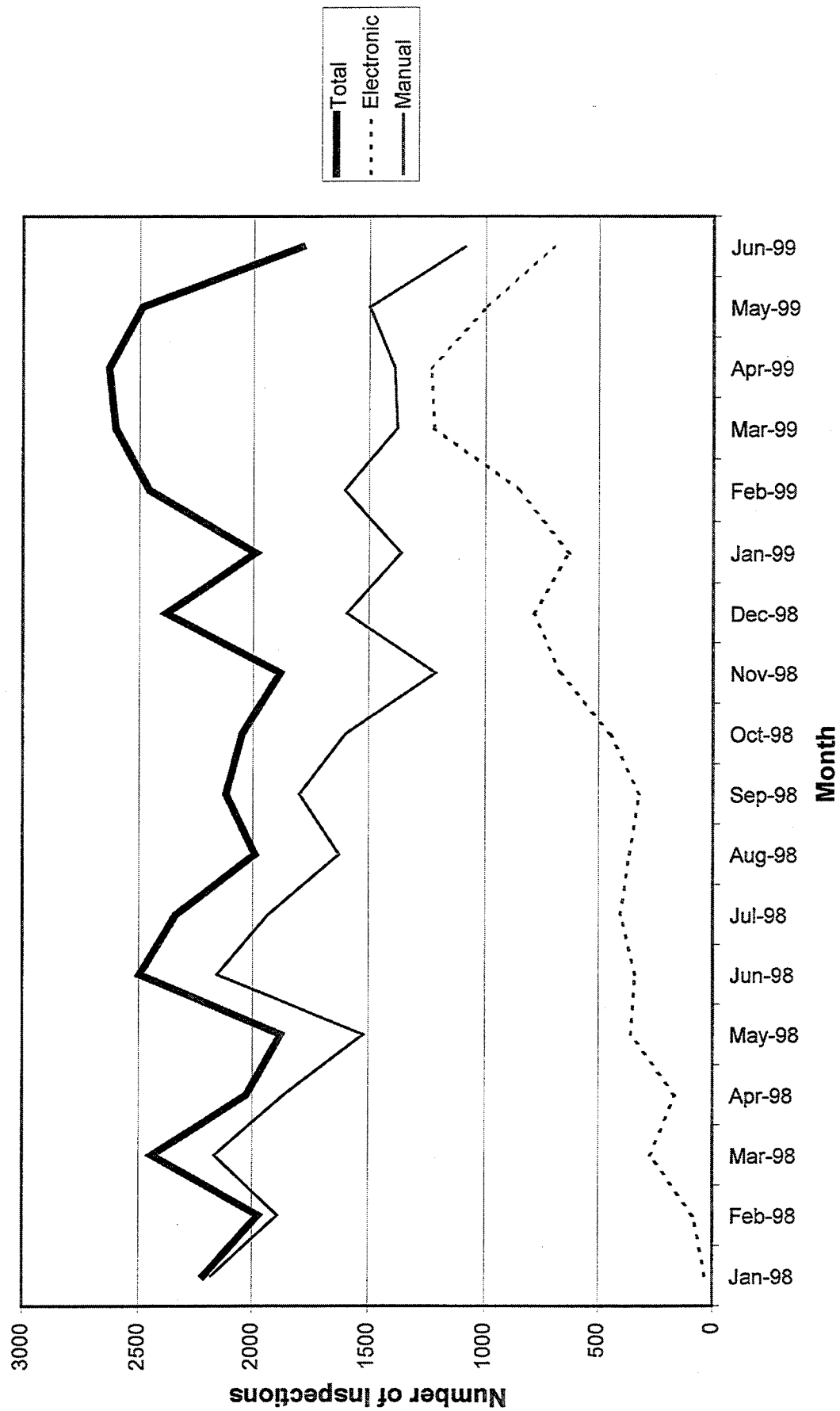


Figure 4: Total Number of Inspections (Level III).

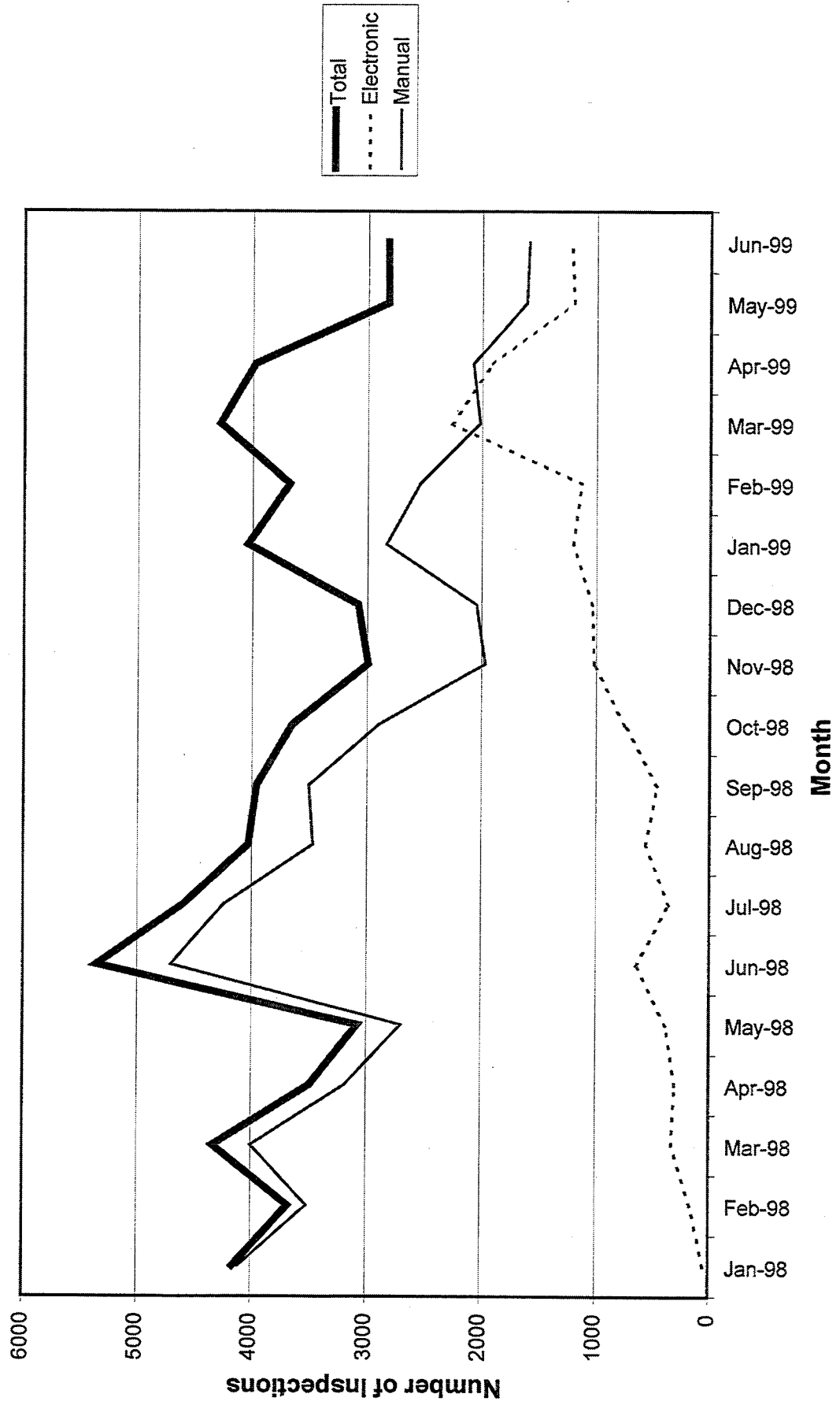
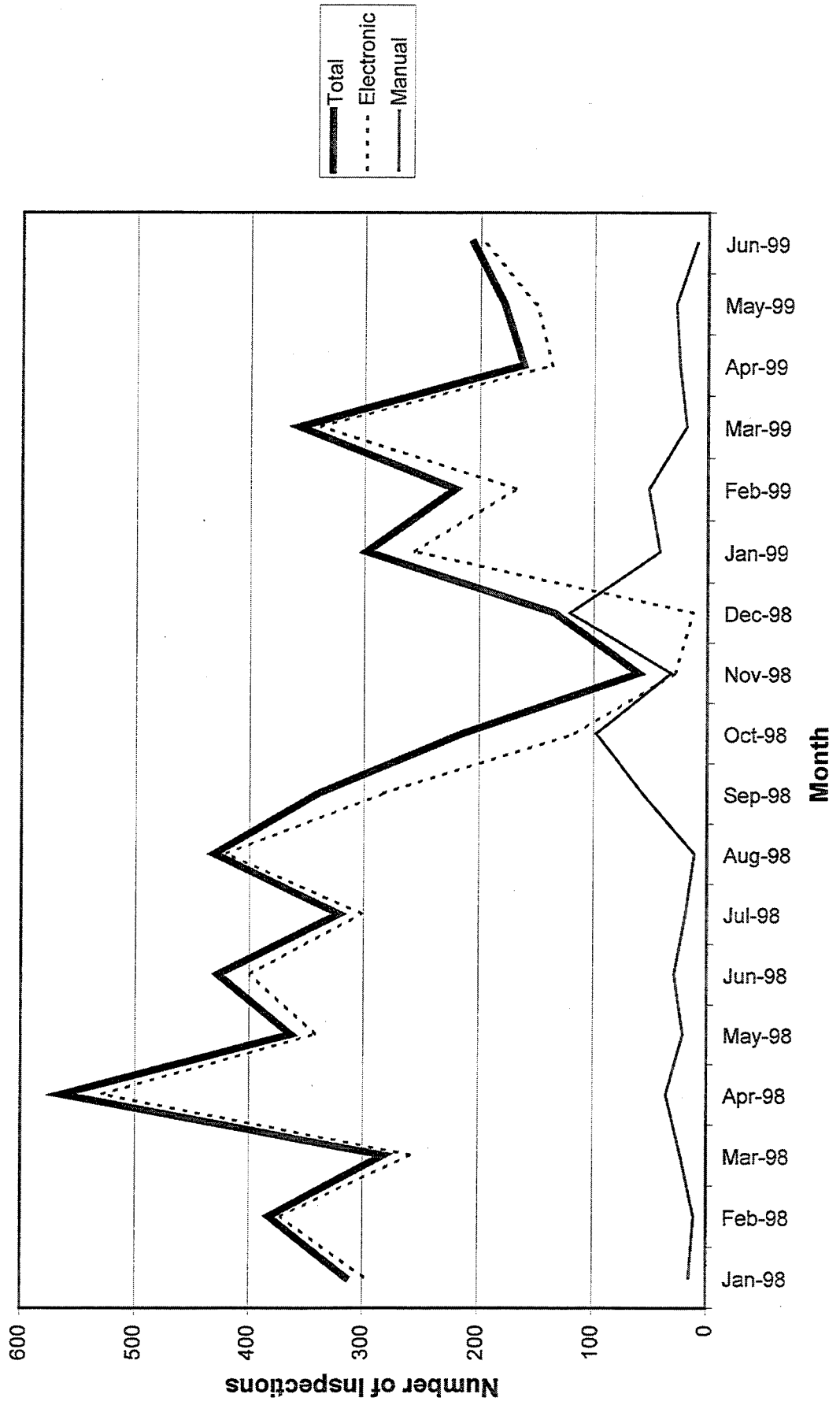
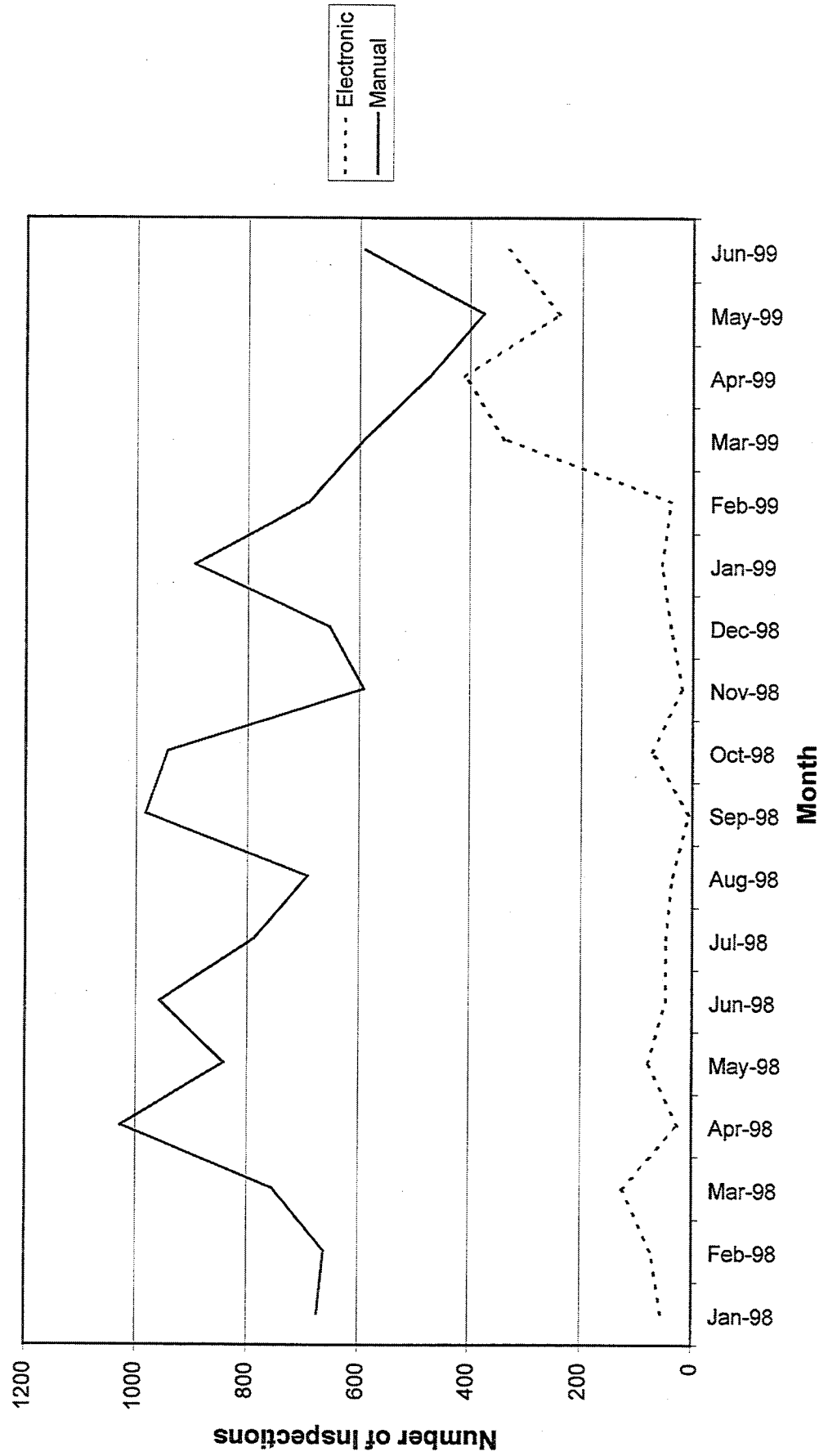


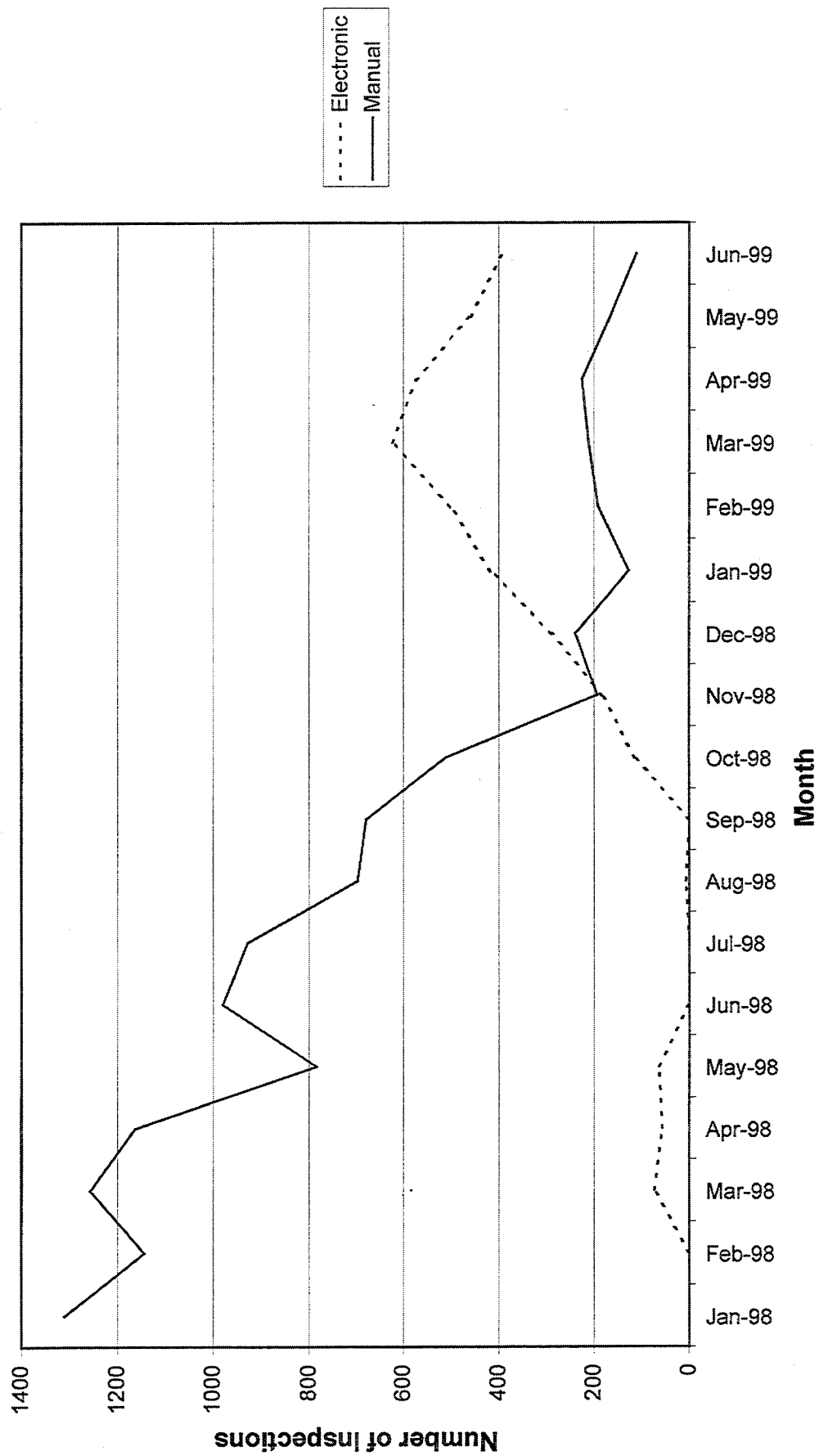
Figure 5: Total Number of Inspections (Level V).



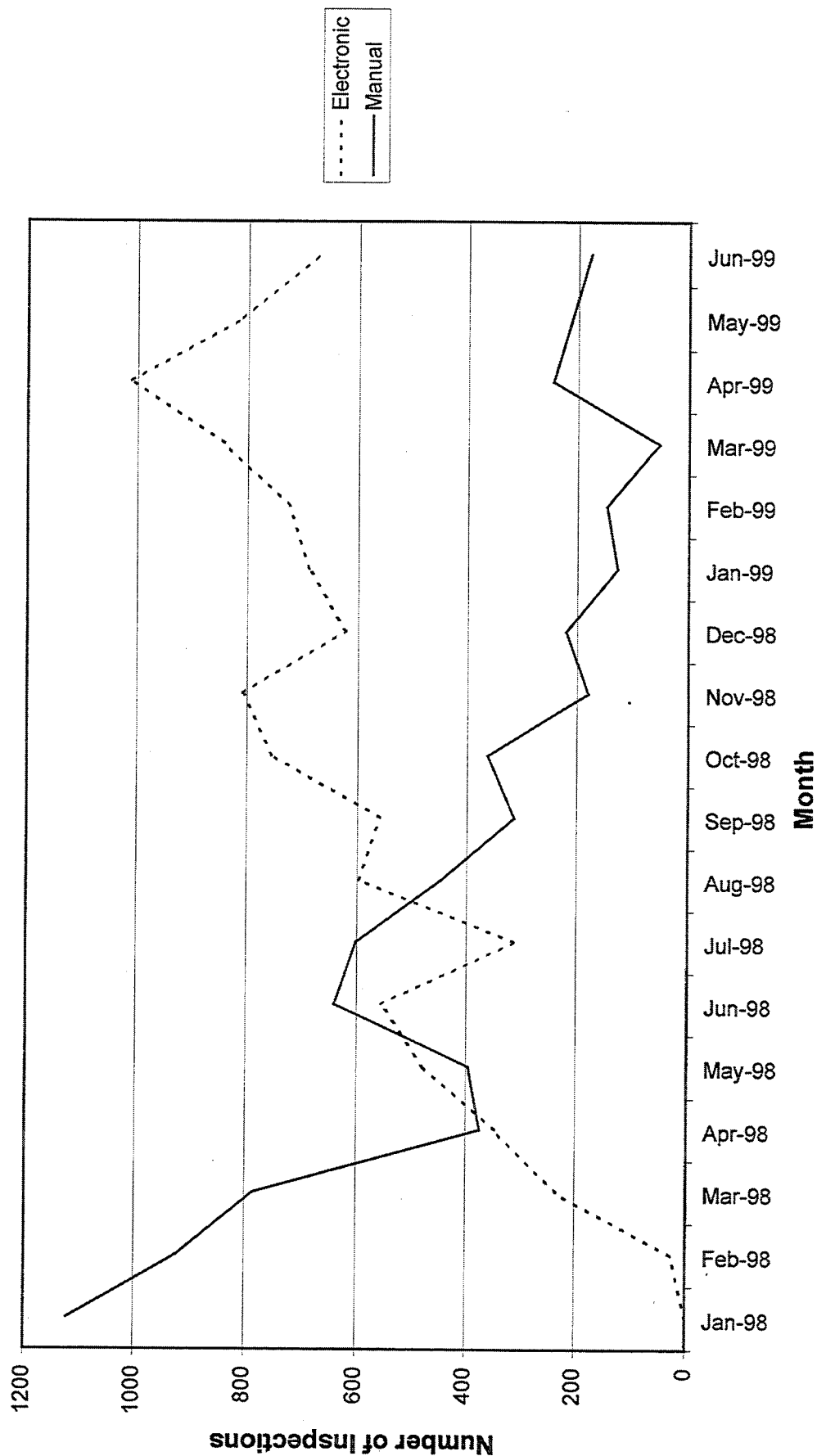
**Figure 6: West Friendship Scales Facility
Total Number of Inspections (All Levels).**



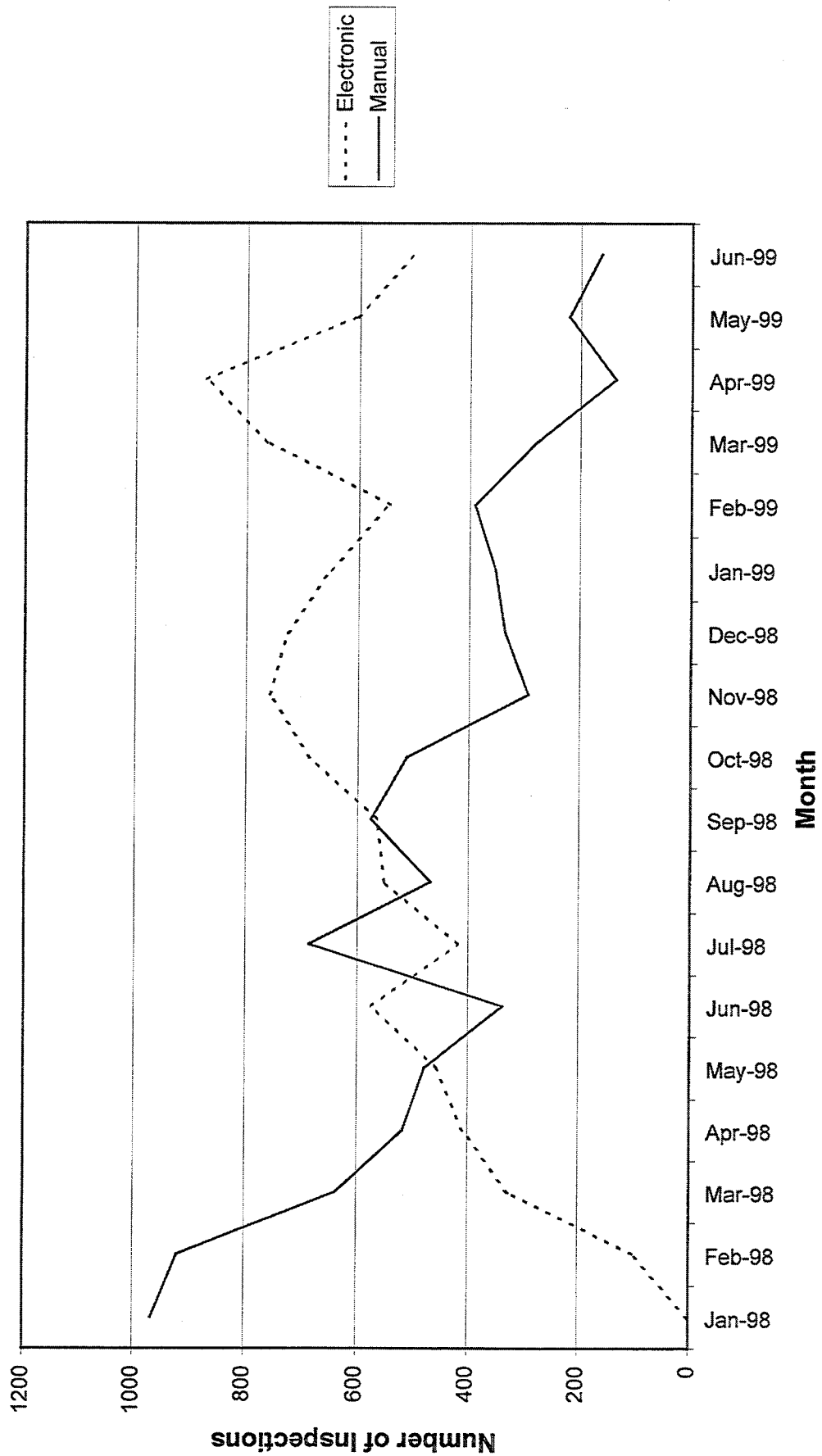
**Figure 7: I-70 New Market Scale House
Total Number of Inspections (All Levels).**



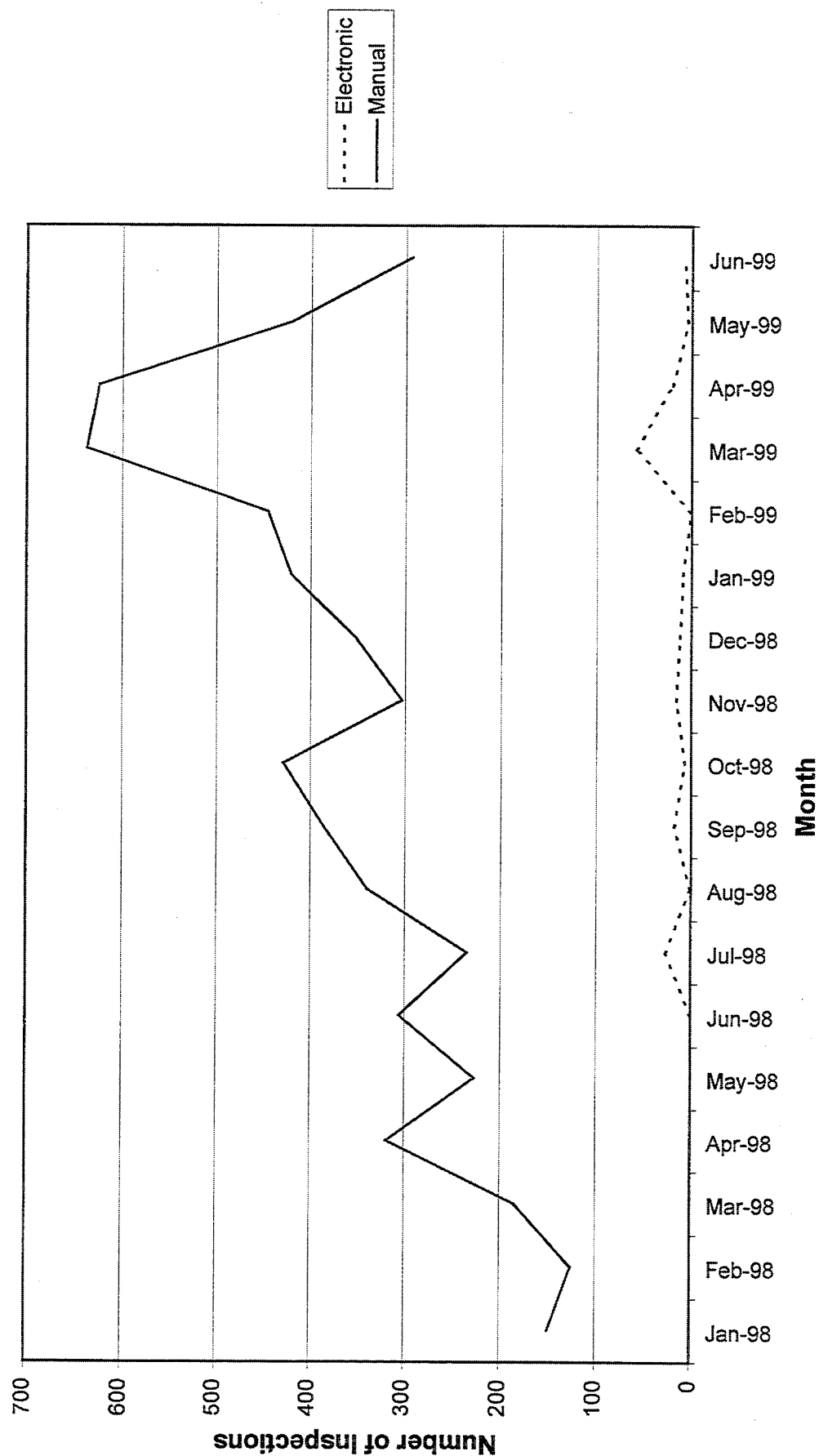
**Figure 8: I-95 N/B Scale Facility
Total Number of Inspections (All Levels).**



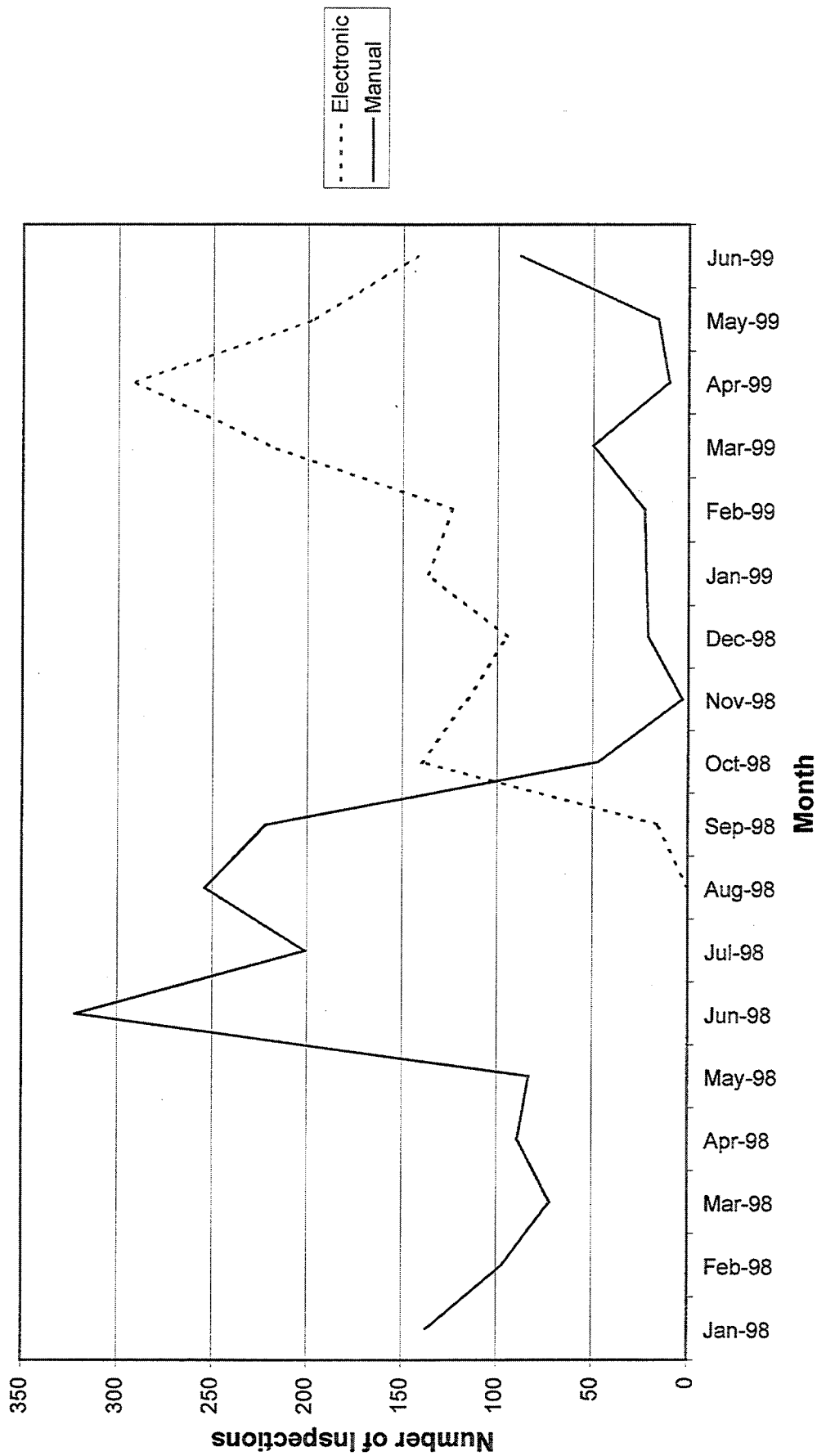
**Figure 9: S/B Scale Facility (MDTAP)
Total Number of Inspections (All Levels).**



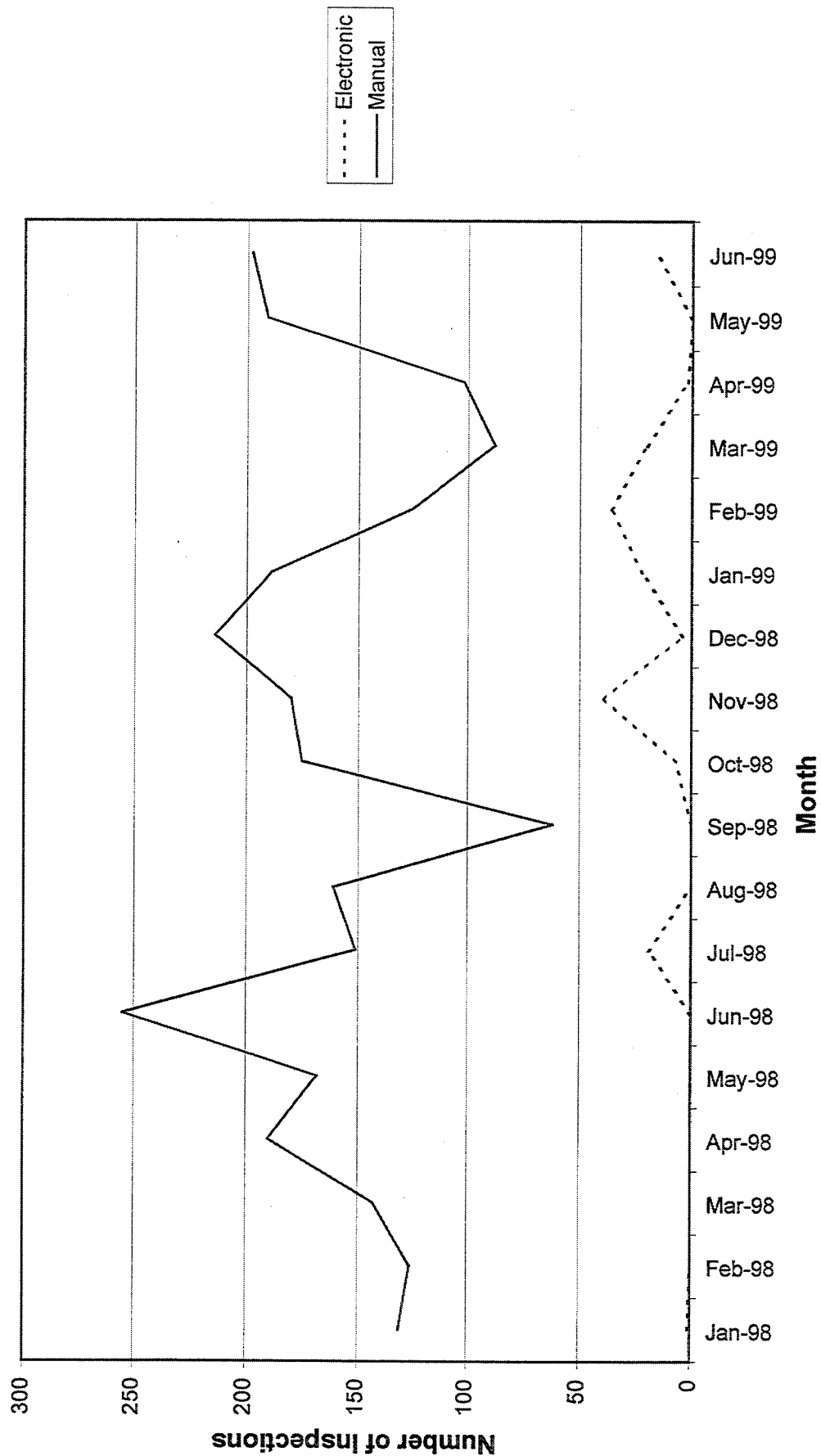
**Figure 10: I-95 at I-495 (Park and Ride) Facility
Total Number of Inspections (All Levels).**



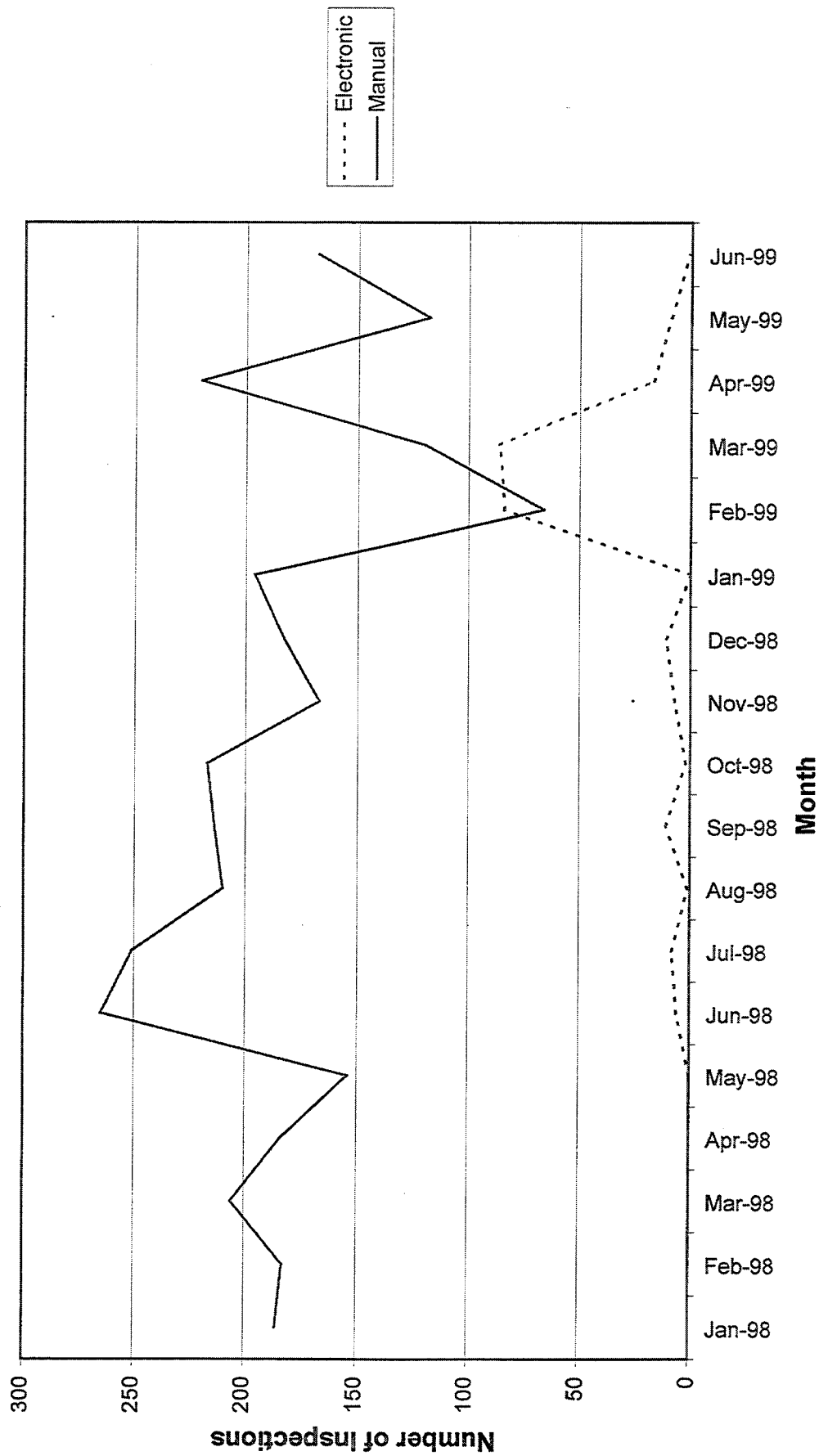
**Figure 11: I-83 Weigh and Inspection Facility
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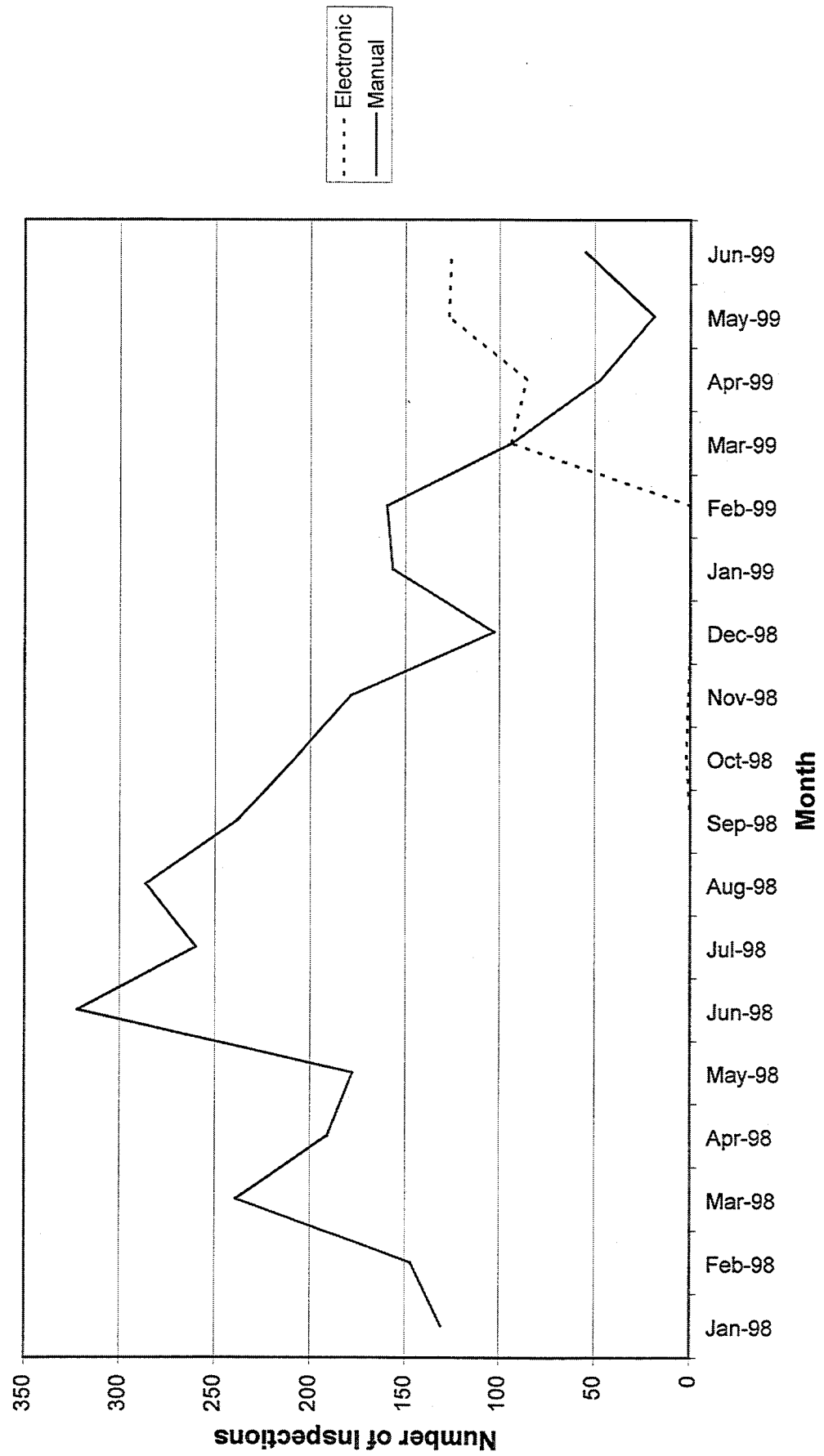
**Figure 12: US 301 Upper Marlboro S.H. N/B Facility
Total Number of Inspections (All Levels).**



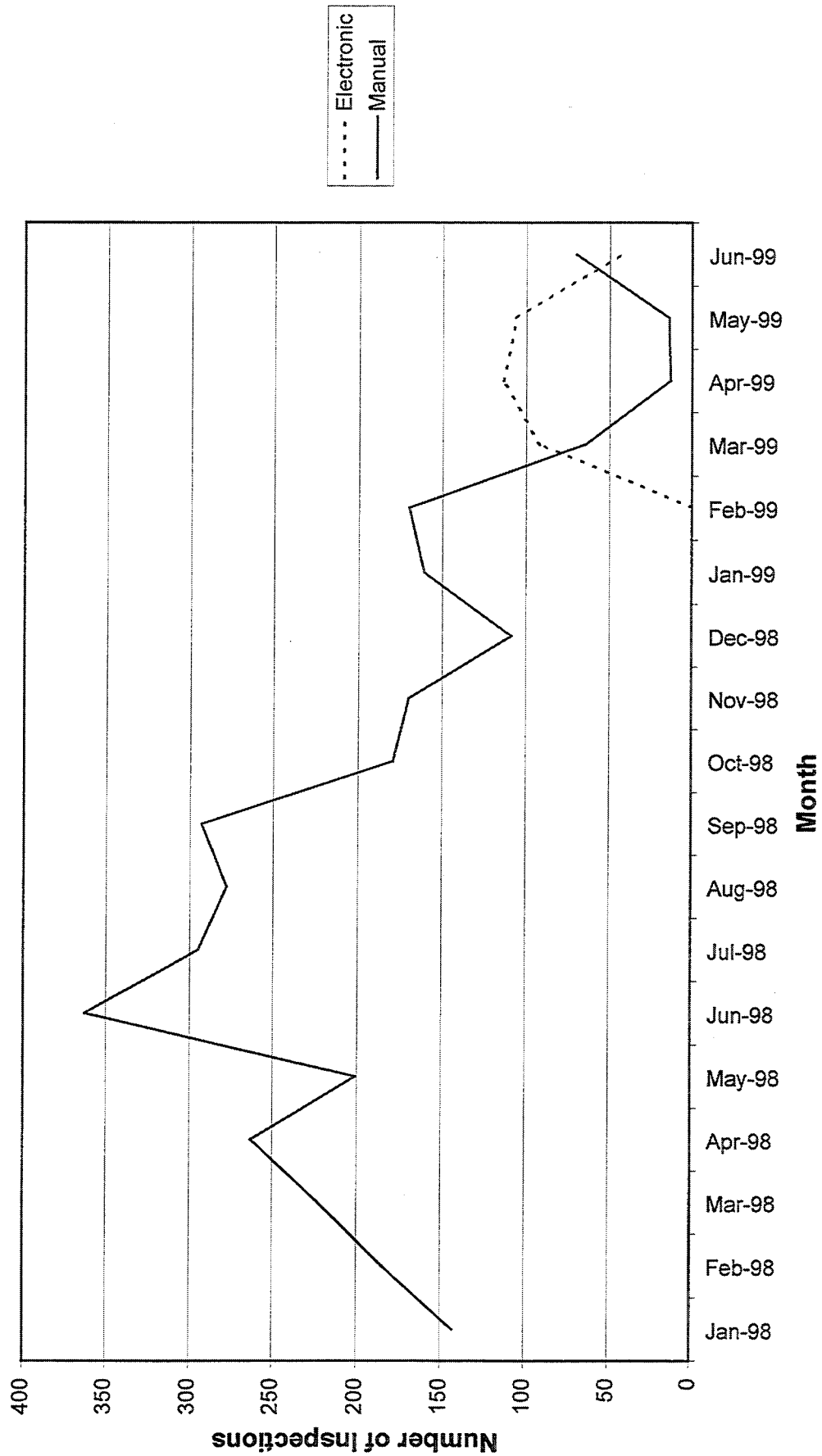
**Figure 13: US 301 Upper Marlboro S.H. S/B Facility
Total Number of Inspections (All Levels).**



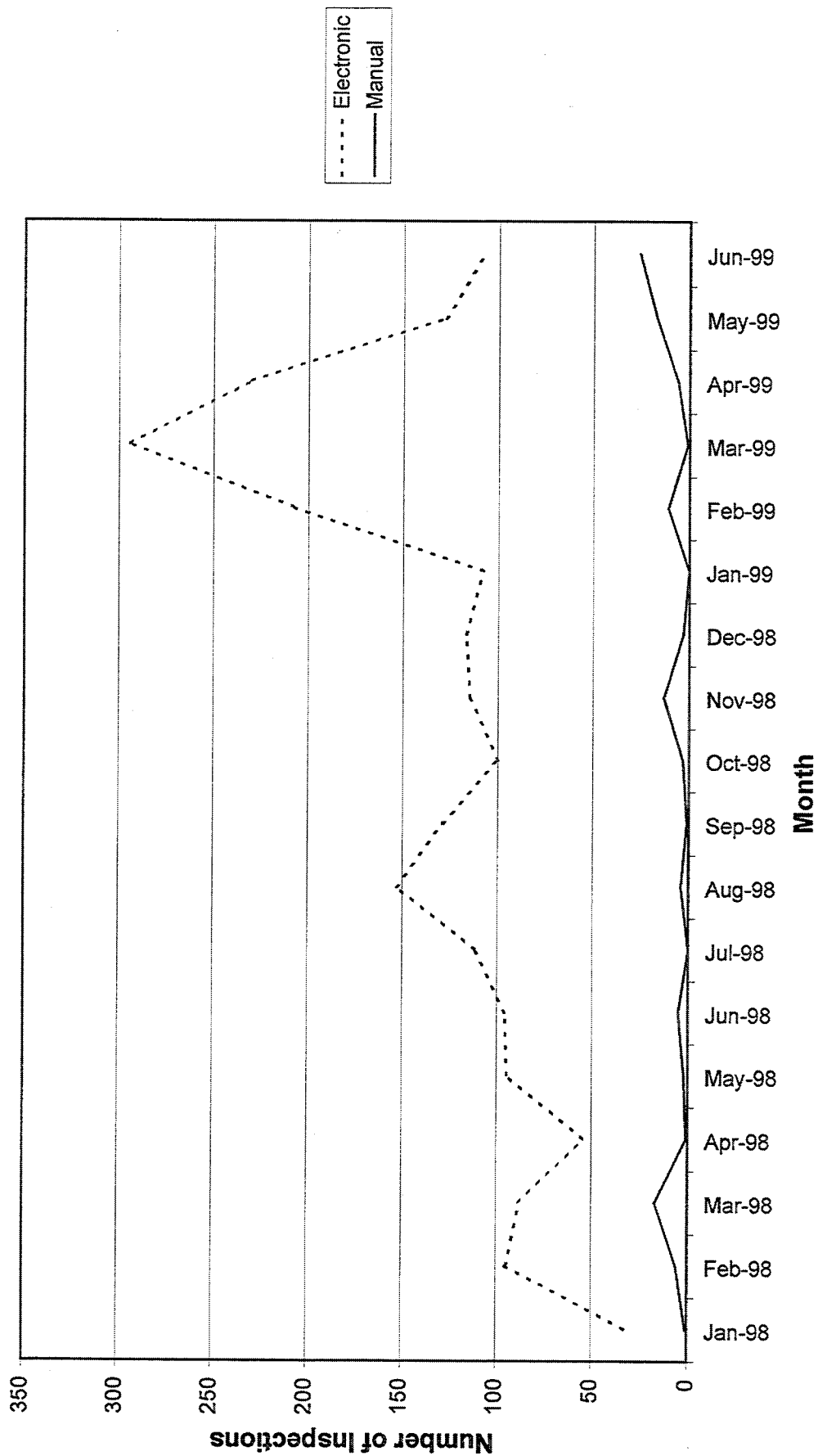
**Figure 14: Route 13 N/B Salisbury Scale house Facility
Total Number of Inspections (All Levels).**



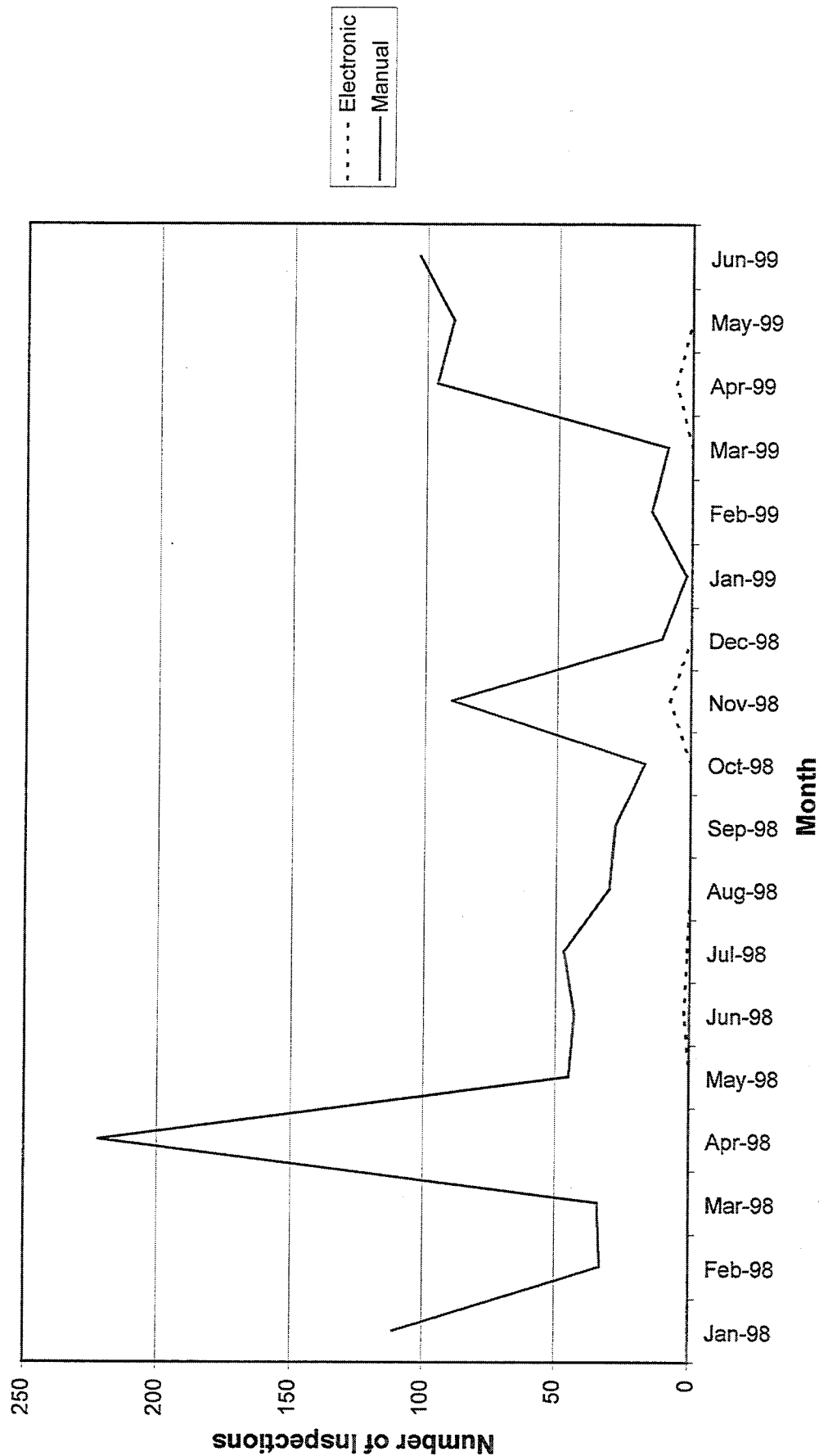
**Figure 15: Route 13 S/B Salisbury Scale house Facility
Total Number of Inspections (All Levels).**



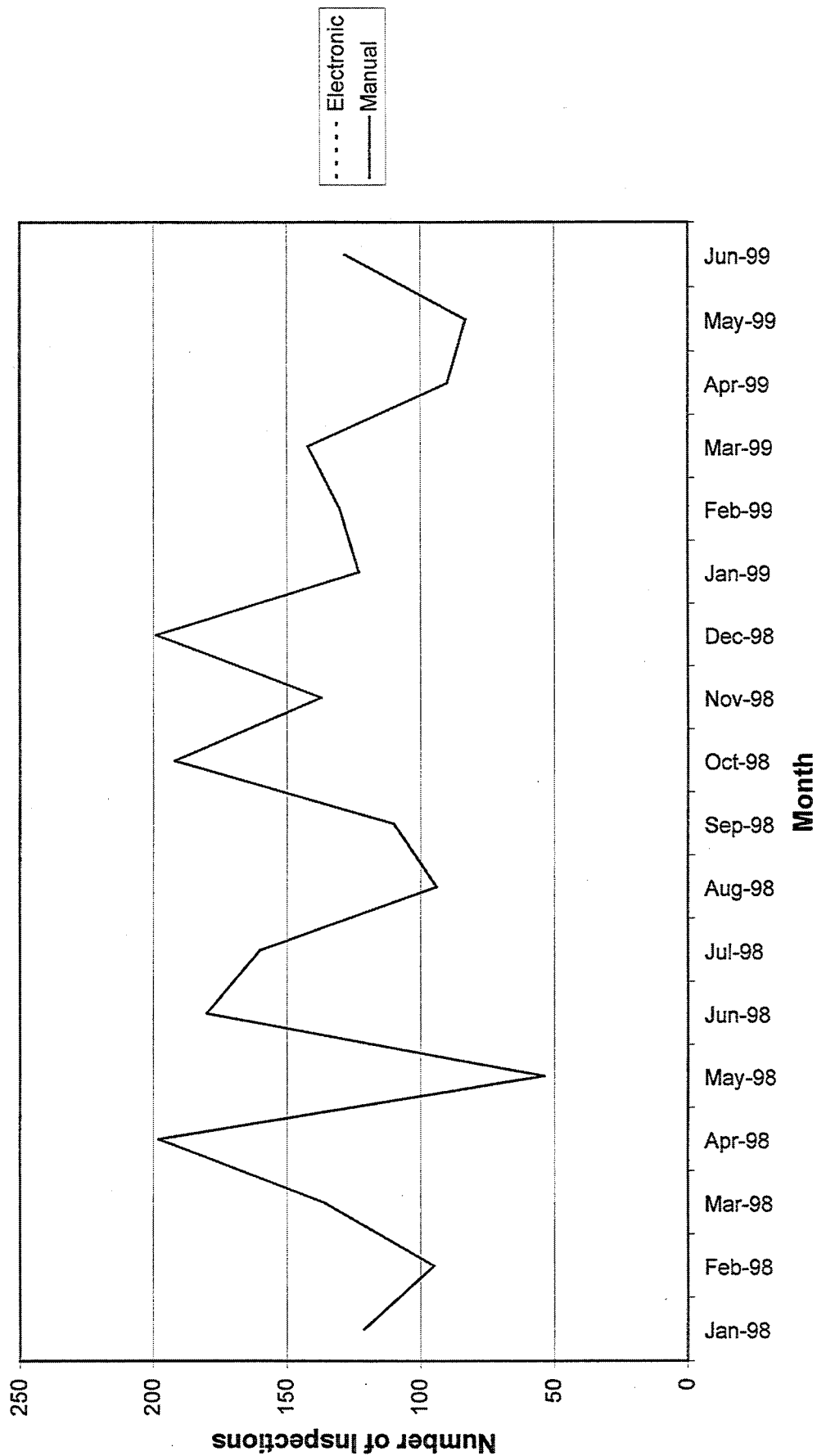
**Figure 16: Bay Bridge E/B (MDTAP) Facility
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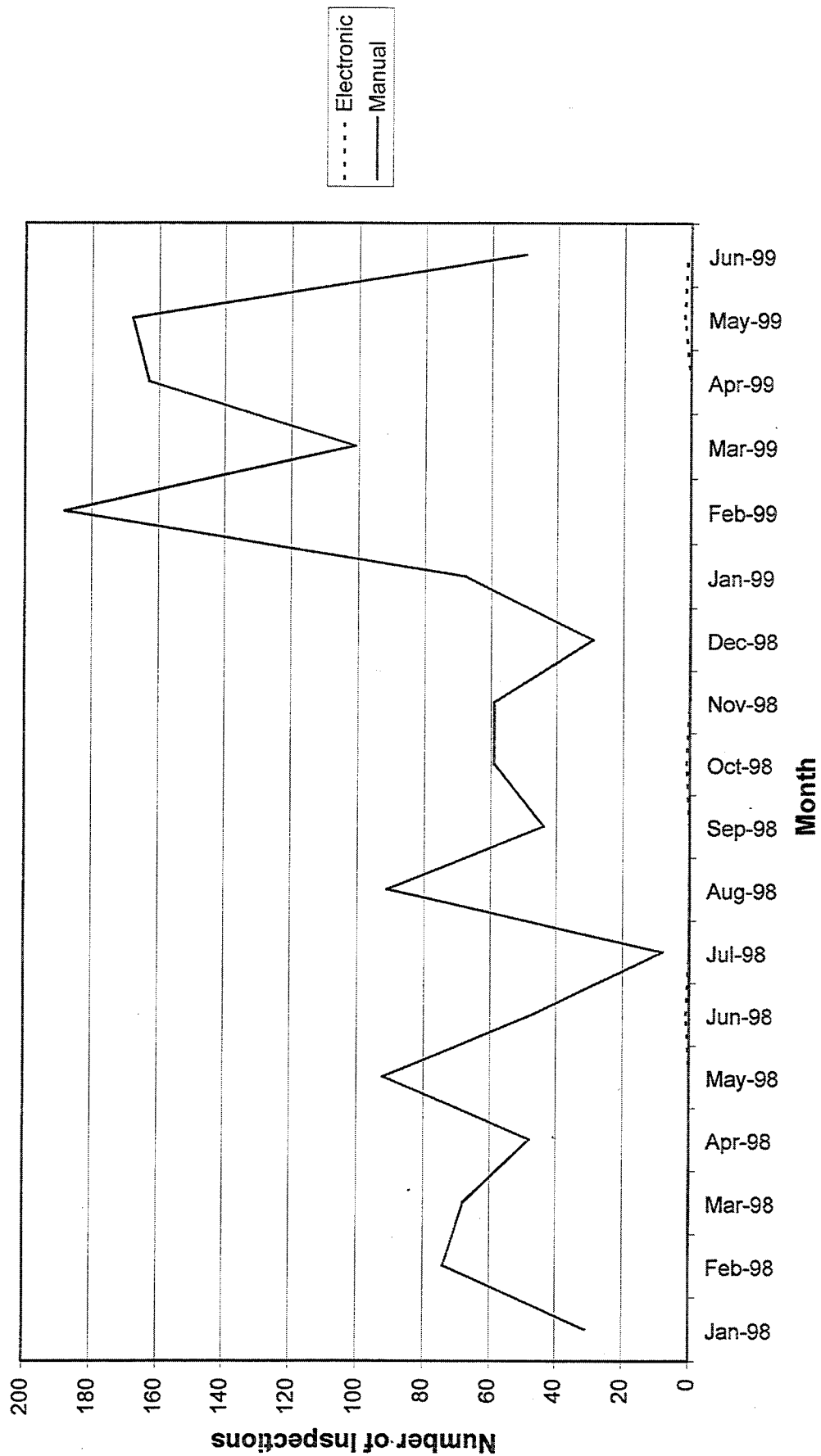
**Figure 17: Anne Arundel County Police Department (Roving)
Total Number of Inspections (All Levels).**



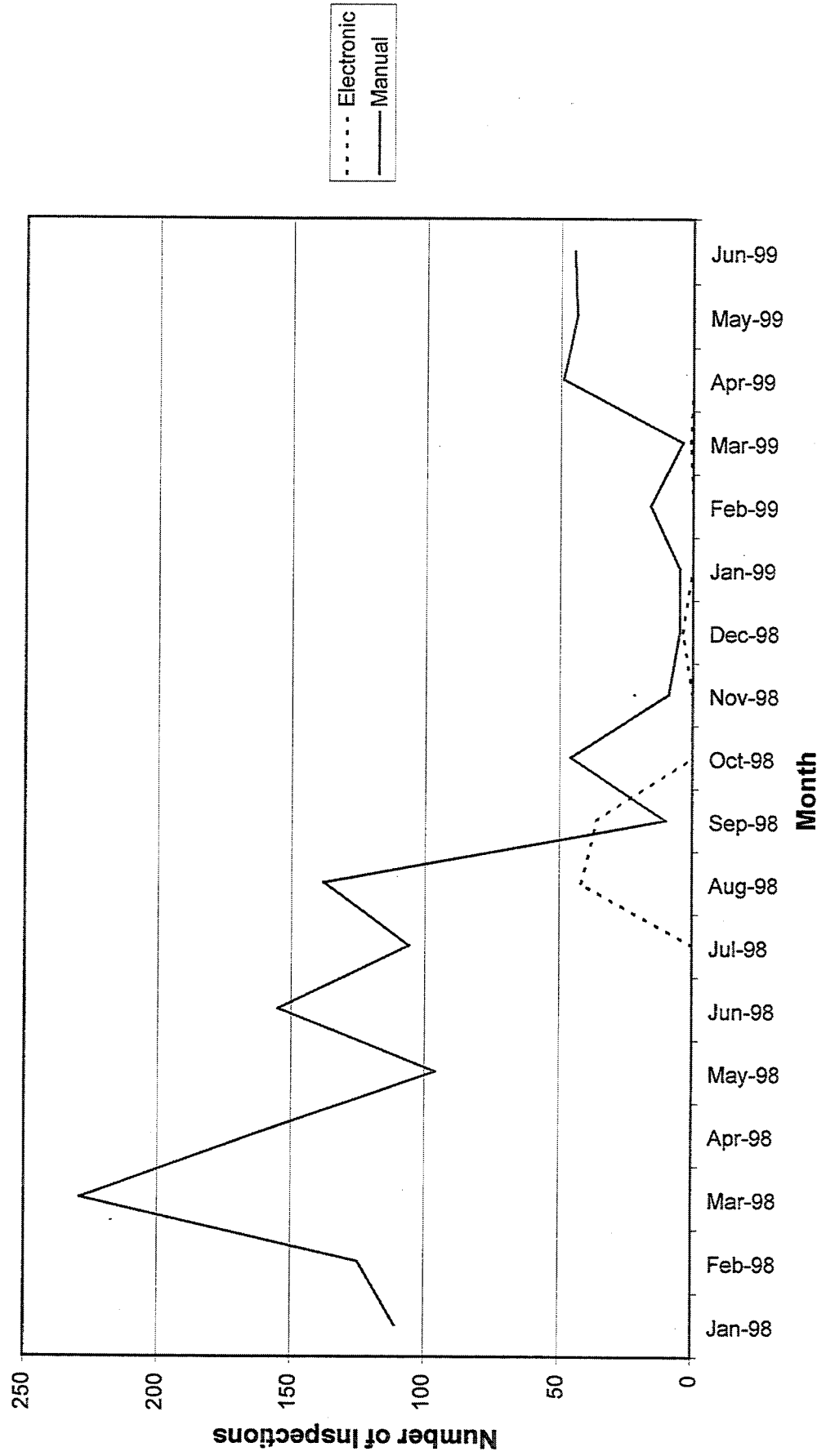
**Figure 18: Baltimore County Police Department (Roving)
Total Number of Inspections (All Levels).**



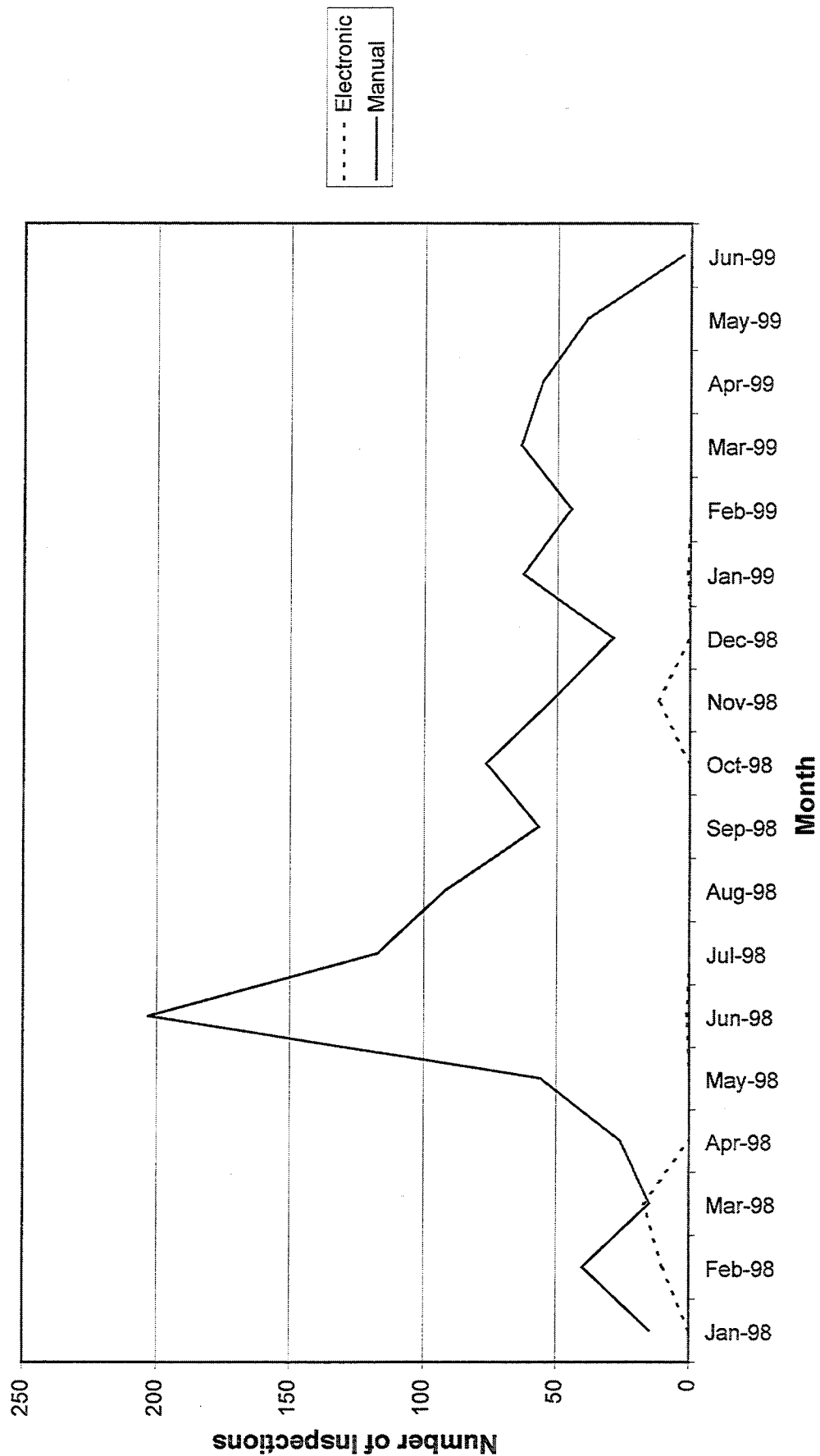
**Figure 19: Prince Georges County Police Department (Roving)
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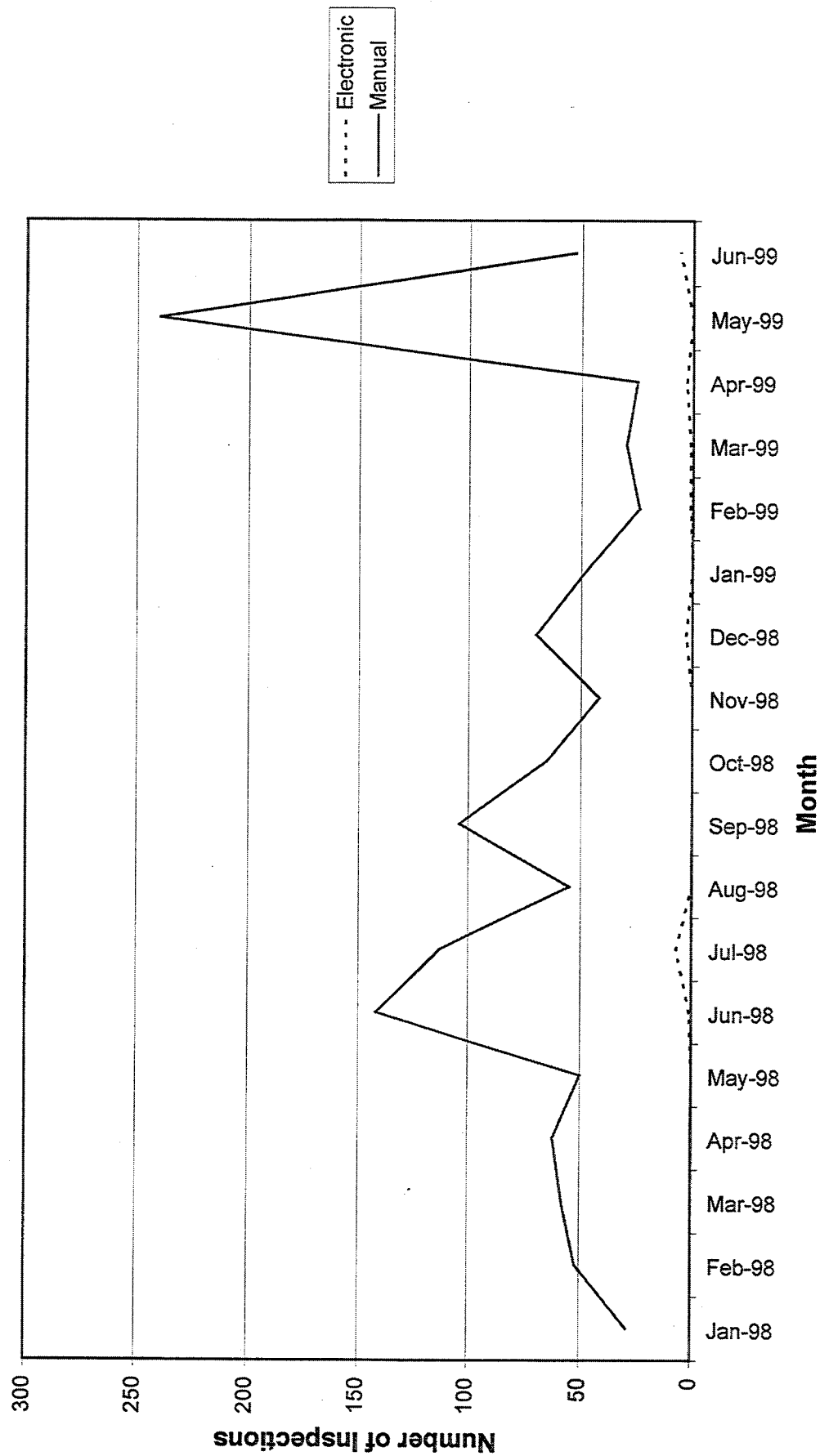
**Figure 20: Garrett County (Roving)
Total Number of Inspections (All Levels).**



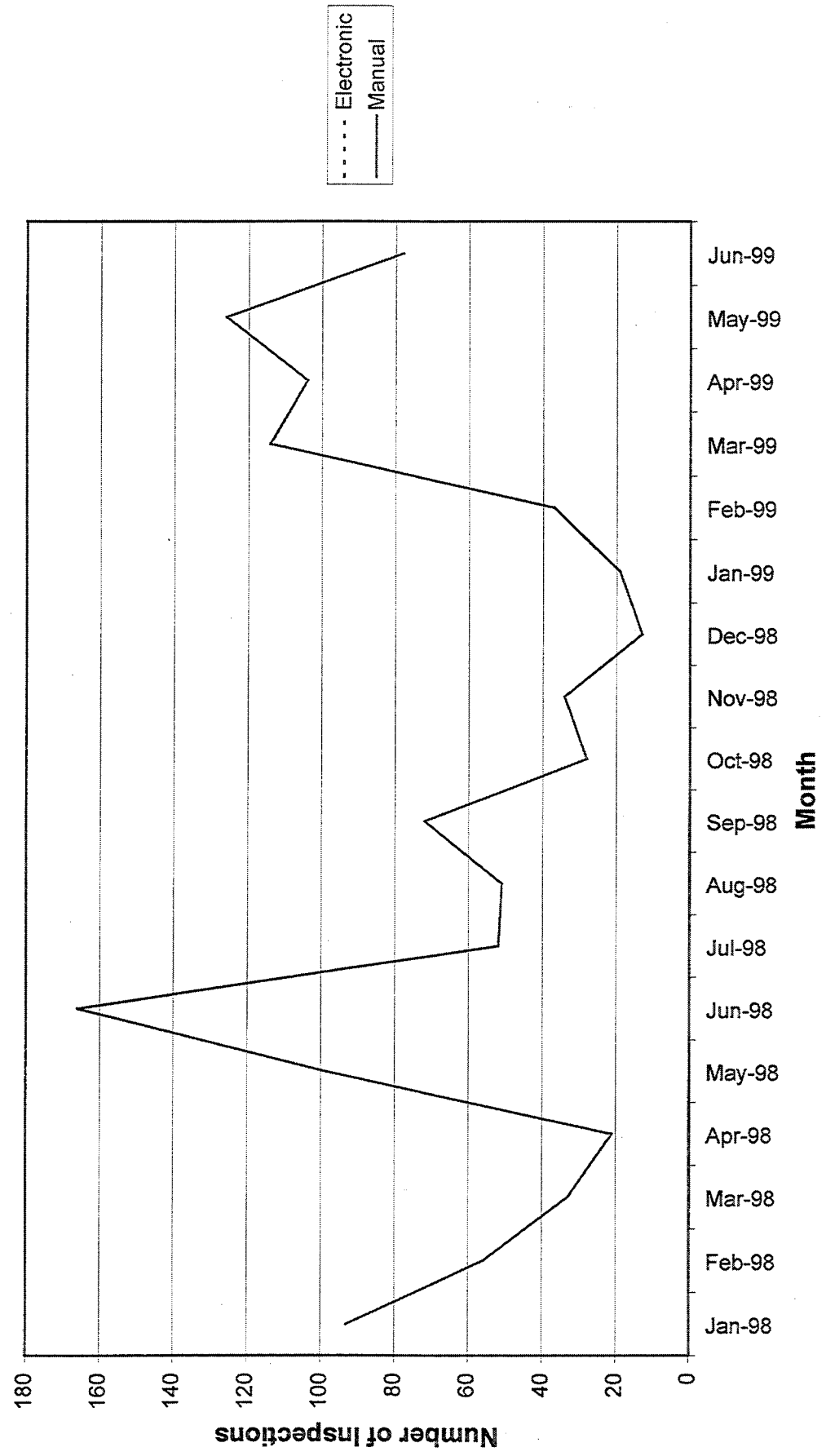
**Figure 21: Montgomery County (Roving)
Total Number of Inspections (All Levels).**



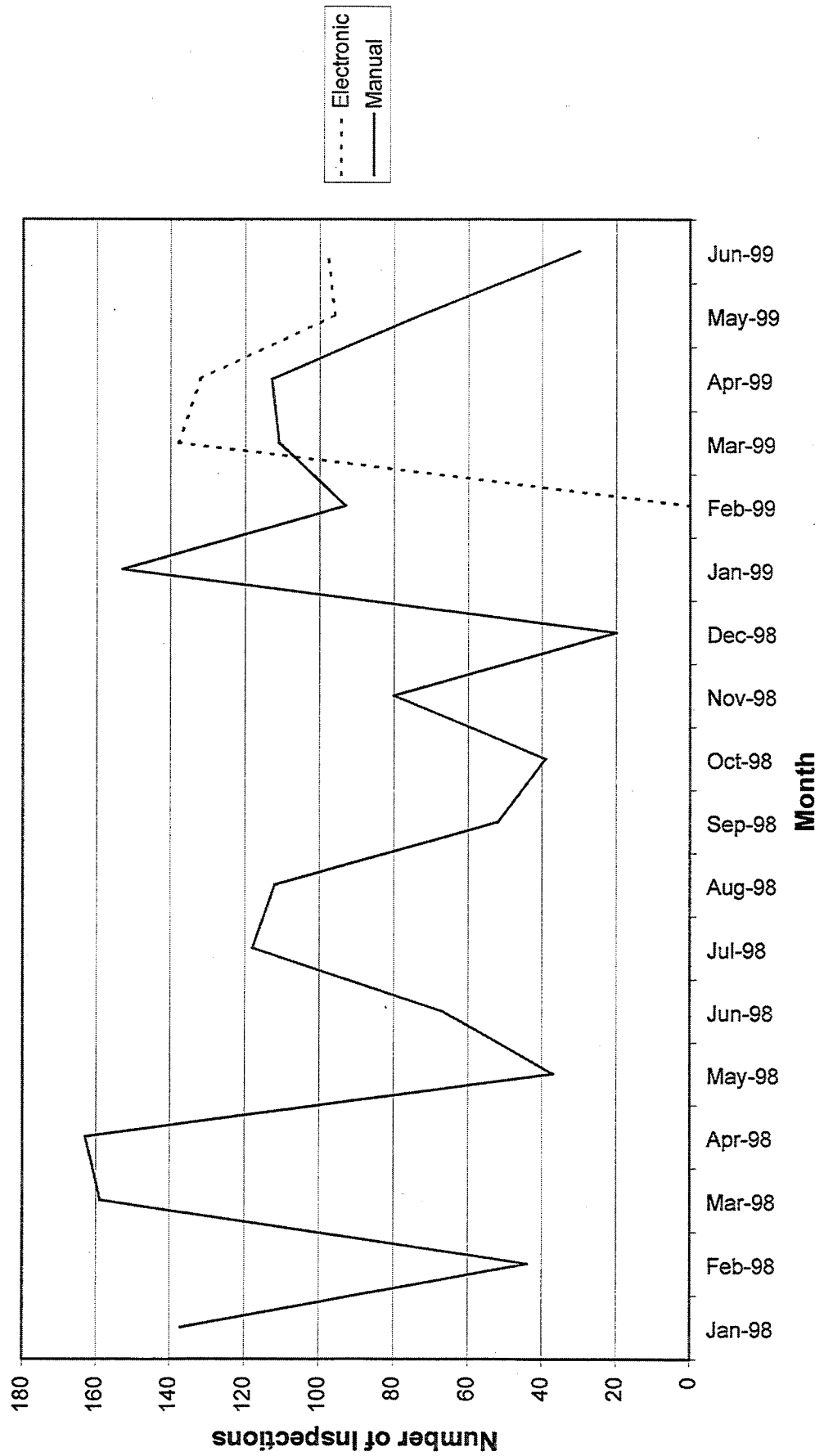
**Figure 22: Prince Georges County (Fixed)
Total Number of Inspections (All Levels).**



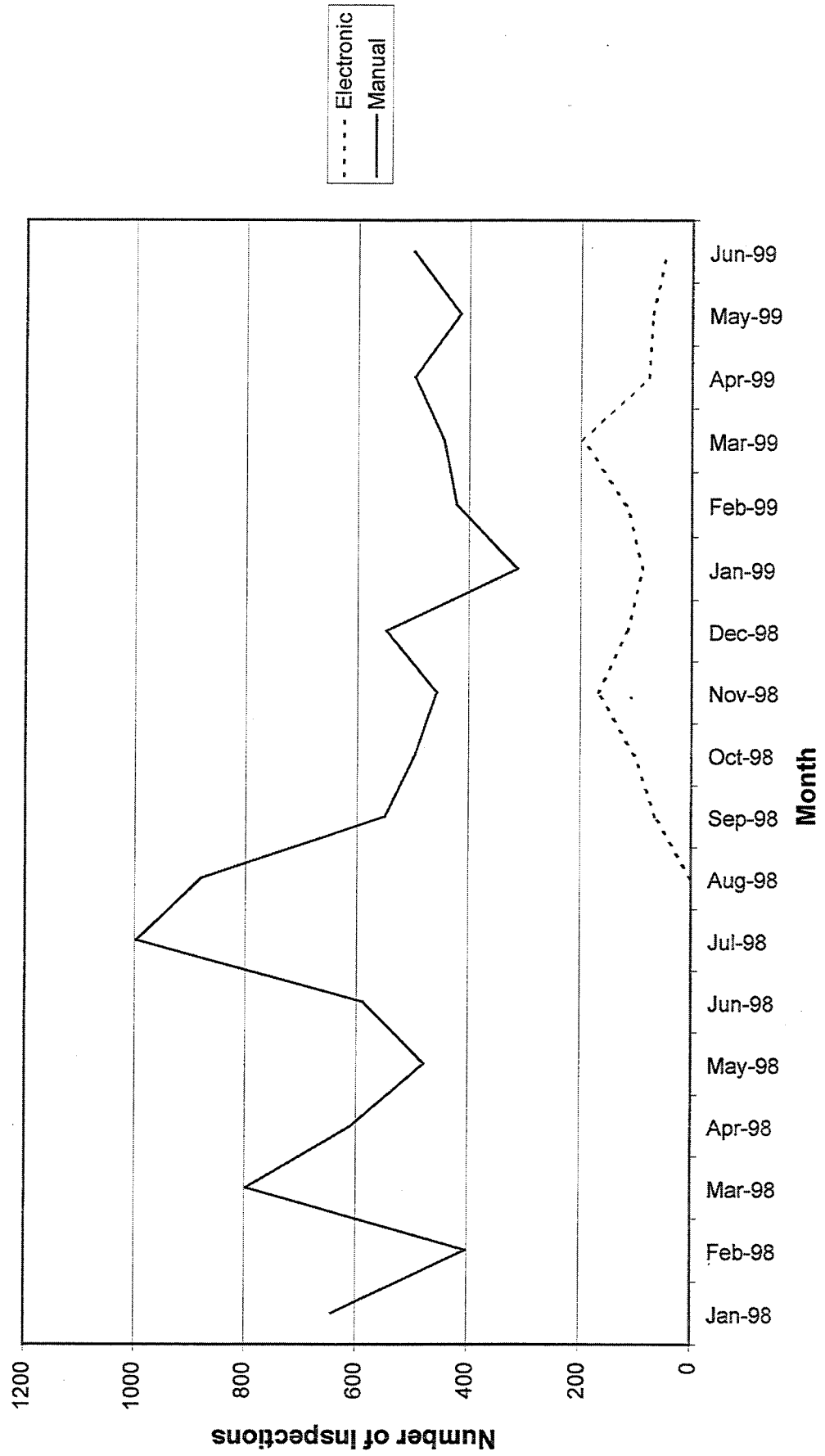
**Figure 23: Queen Anne's County (Roving)
Total Number of Inspections (All Levels).**



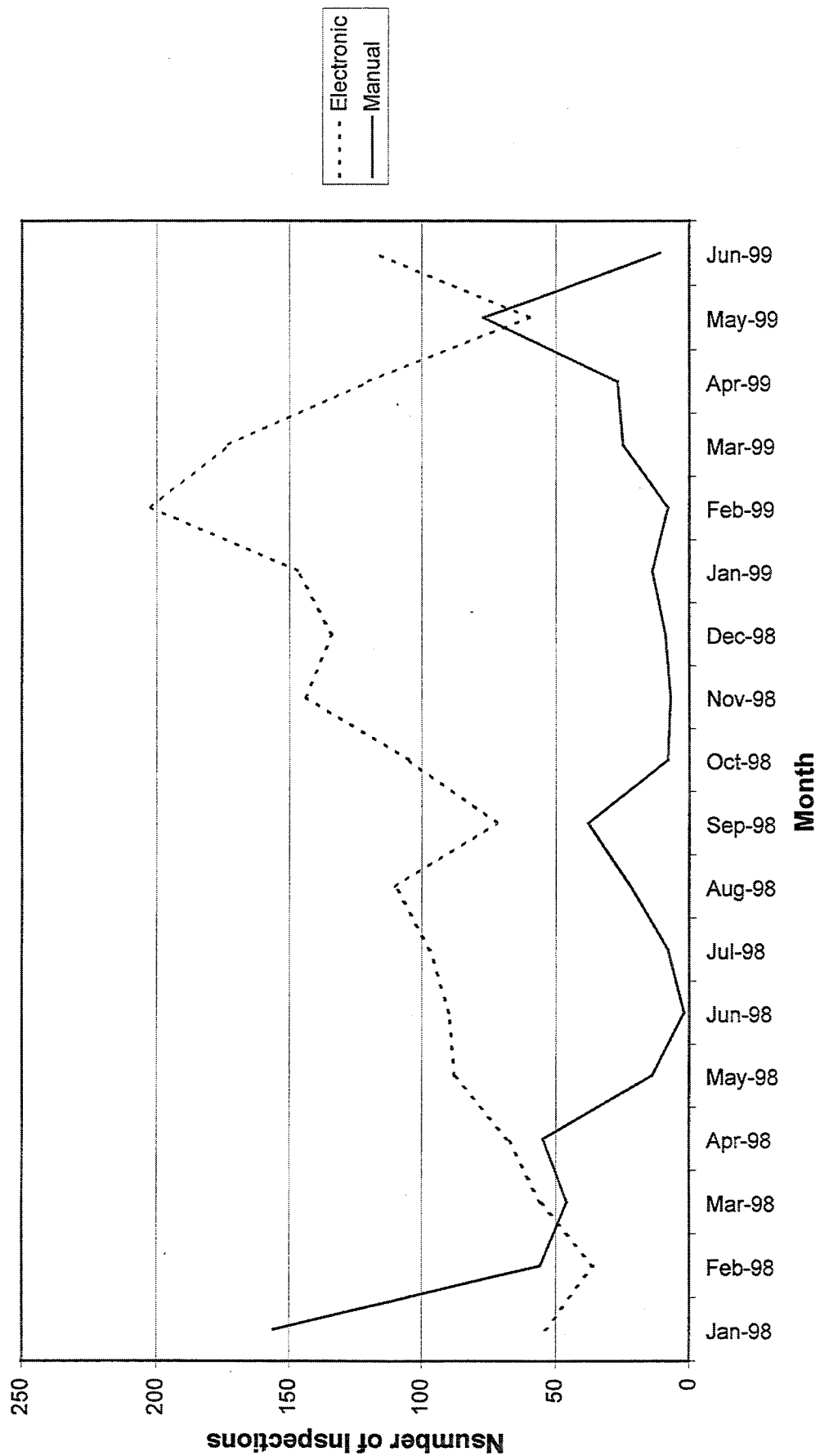
**Figure 24: Route 50 At Vienna W & I Facility
Total Number of Inspections (All Levels).**



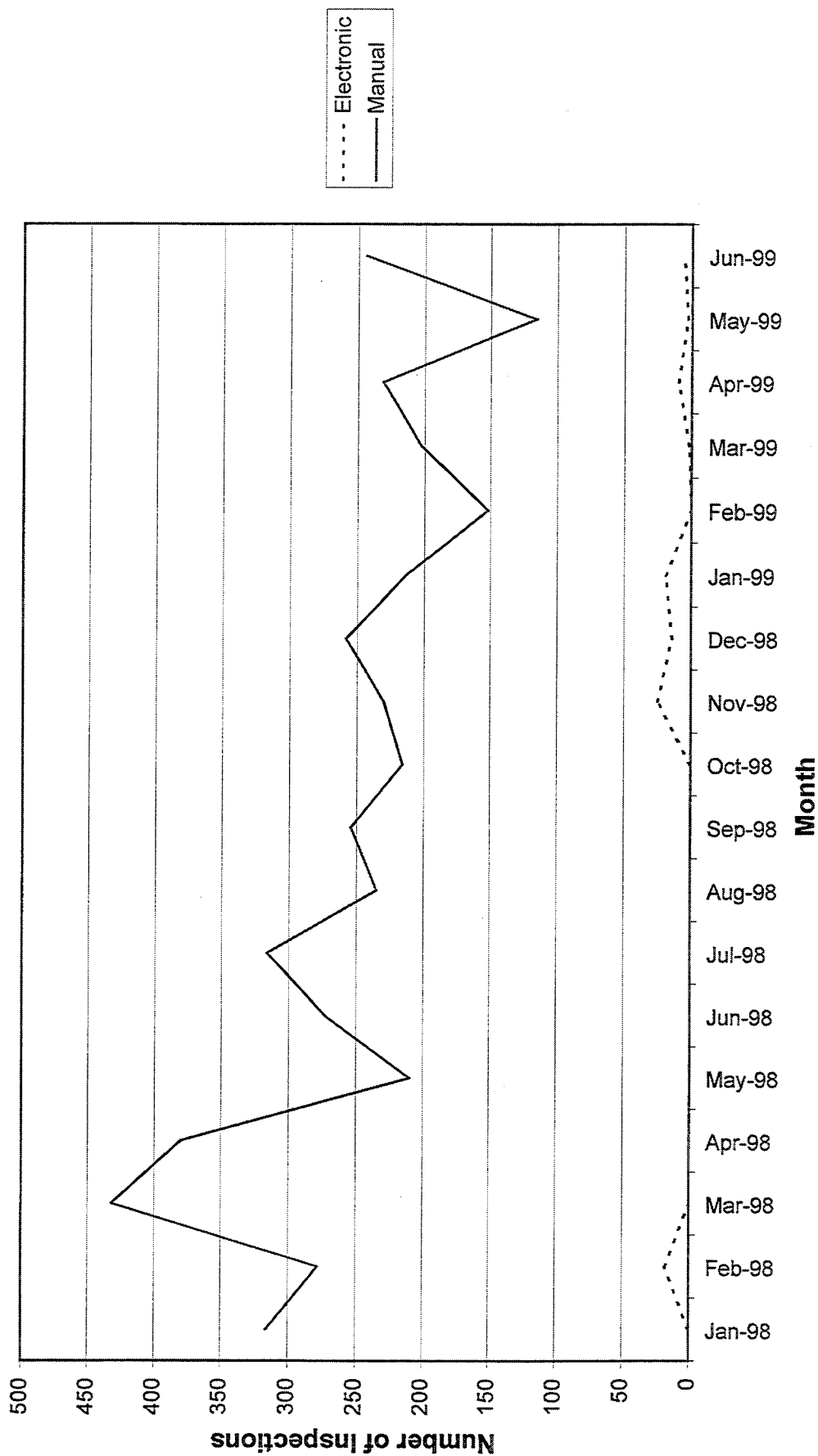
**Figure 25: Finzel Scales Facility
Total Number of Inspections (All Levels).**



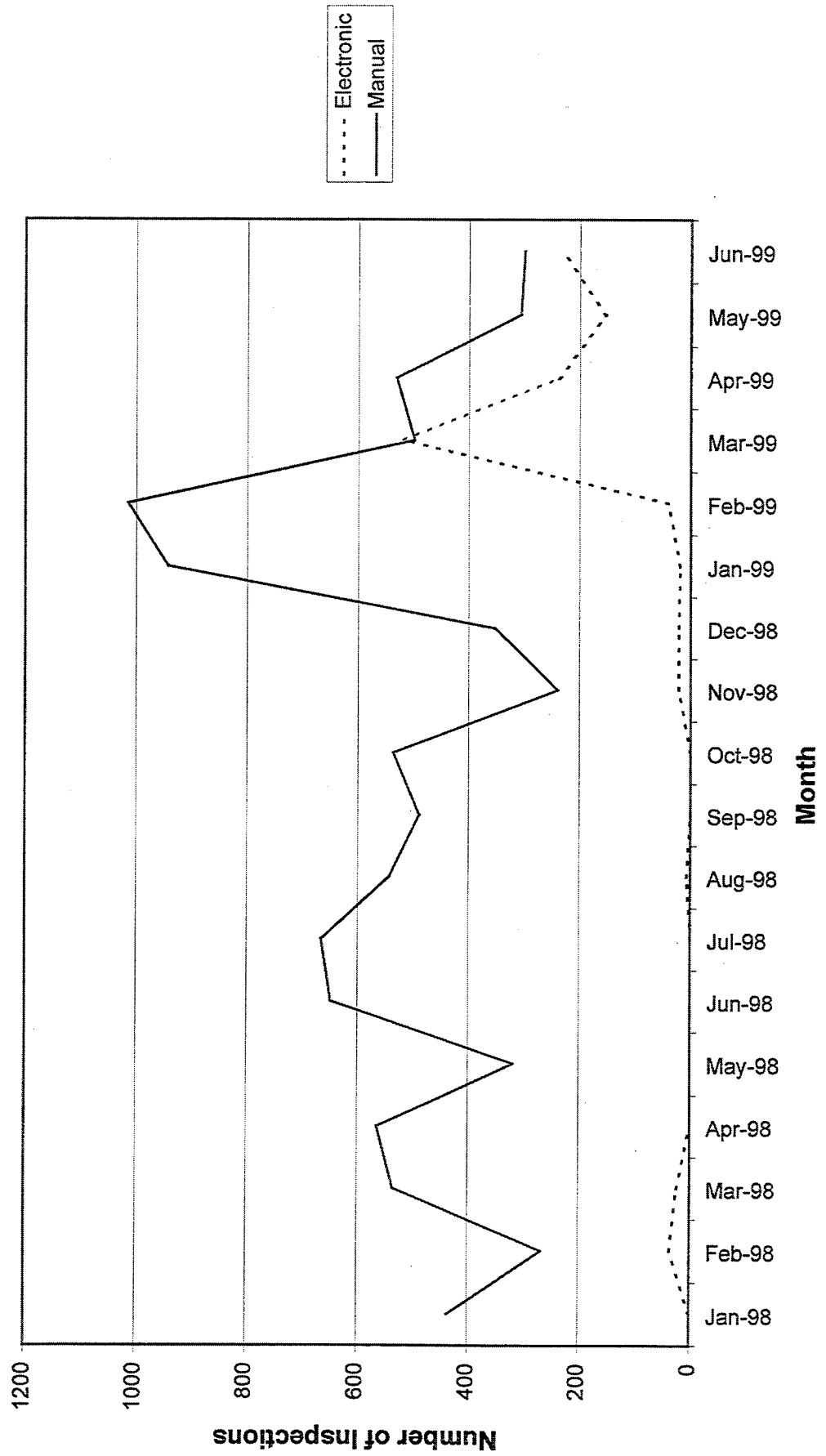
**Figure 26: I-95 N/B Fort McHenry Scale House
Total Number of Inspections (All Levels).**



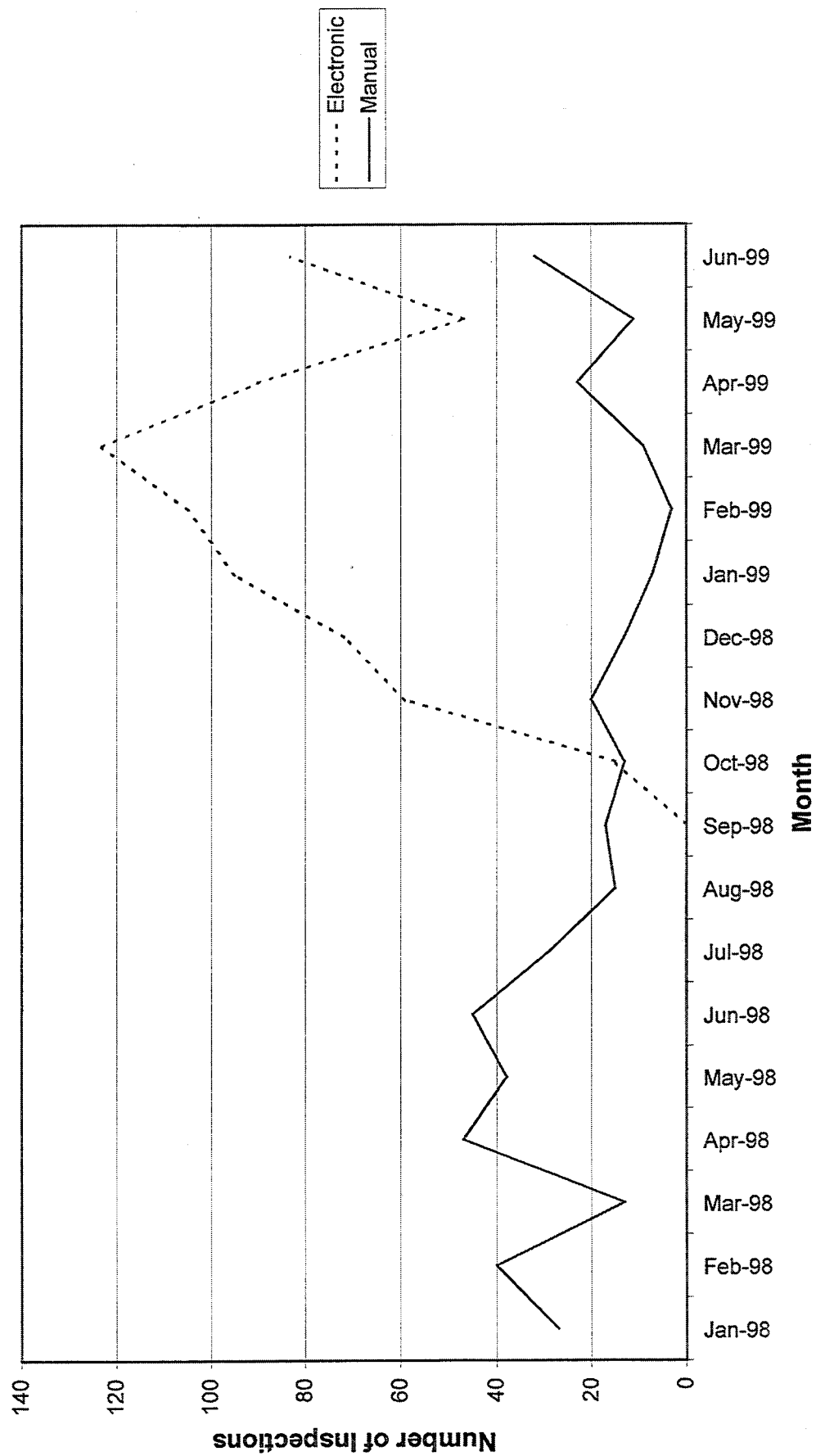
**Figure 27: I-270 E/B Hyattstown Scale house
Total Number of Inspections (All Levels).**



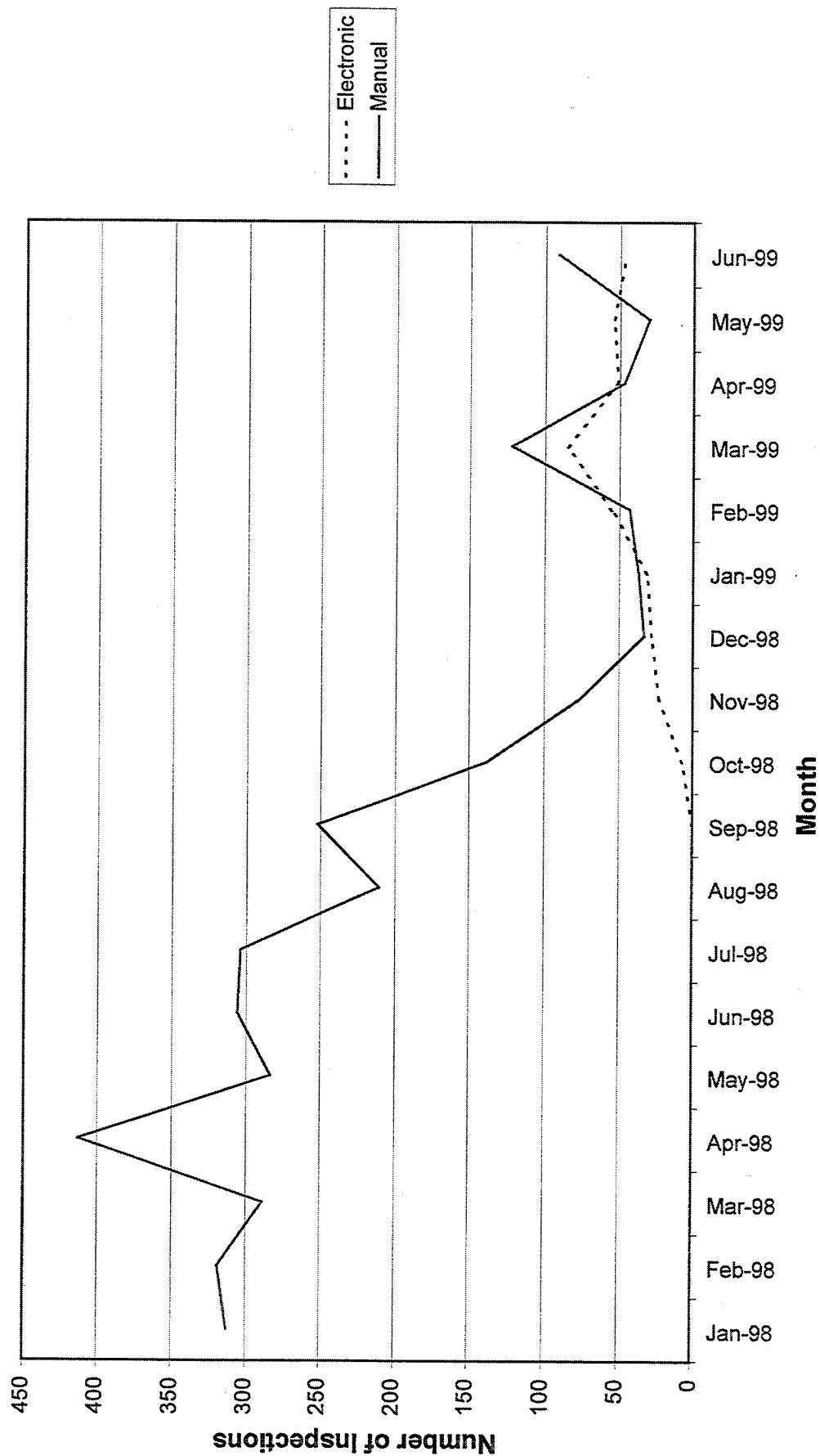
**Figure 28: I-270 W/B Hyattstown Scale house
Total Number of Inspections (All Levels).**



**Figure 29: US Route 1 N/B Darlington (Roving)
Total Number of Inspections (All Levels).**



**Figure 30: US Route 1 N/B Darlington Scale House
Total Number of Inspections (All Levels).**



**Figure 31: I-895 S/B Toll Facility
Total Number of Inspections (All Levels).**

