

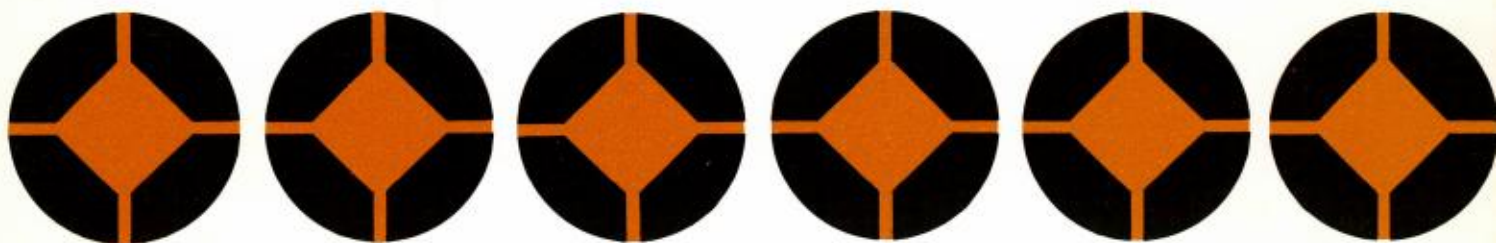
SER/NSWSPCC  
1984 CHA



STATE POLLUTION CONTROL COMMISSION

# CHAINSAW NOISE MEASUREMENT

## TEST DATA



March 1984

State Pollution Control Commission

Chainsaw Noise Measurement

Test Data

March, 1984

Department of Environment &  
Climate Change (NSW)

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### Chainsaw Noise Measurement Test Data

The data in this report presents the results of tests carried out in accordance with the Regulation on 109 chainsaws during December, 1981.

Eleven brands of chainsaws were tested: Stihl, Poulan, McCulloch, Jonsereds, Husqvarna, Ariens Echo, Homelite, Partner, Solo, Oleo Mac and Sachs Dolmar.

The test procedure in this instance involved taking eight sound level readings equally spaced around each chainsaw. Using this information, the A-weighted maximum rotational sound pressure level (S.P.L.(MROT)) was determined by selecting the maximum level recorded at all locations.

Graphs for individual manufacturers and aggregations of manufacturers are presented and these show how S.P.L.(MROT) relates to particular chainsaw characteristics. The relationship between the two variables for each group is clearly displayed by a straight line of best fit. The graphs also indicate the existing maximum S.P.L. of 90 dB(A), and the proposed 1986 level of 85 dB(A).

AbbreviationsAbbreviationsDefinition

E-CAP.(cc)	Engine Capacity (cubic centimetre)
R.P.M.	Rotational Speed (revolutions per minute)
W.G.T. (Kg)	Weight (Kilograms)
POWER (KW)	Power (Kilowatts)
BAR LN (mm)	Bar Length (millimetre)
EX CP. (cc)	Exhaust Capacity (cubic centimetres)
PWR/WGT	Power to Weight Ratio
CAP/WGT	Engine Capacity to Weight Ratio
SPL (MROT)	Sound Pressure Level (maximum rotational) dB(A)

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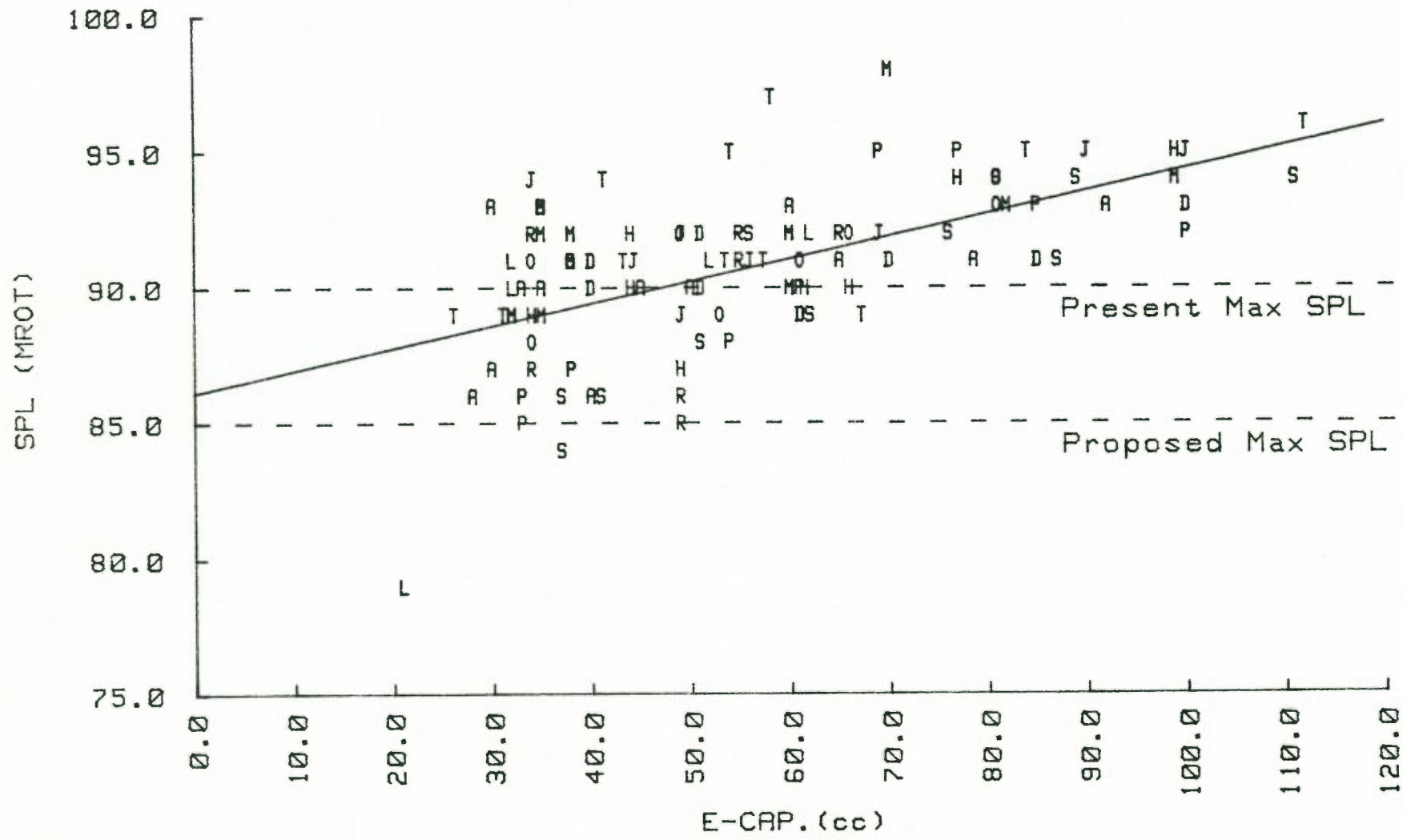
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DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



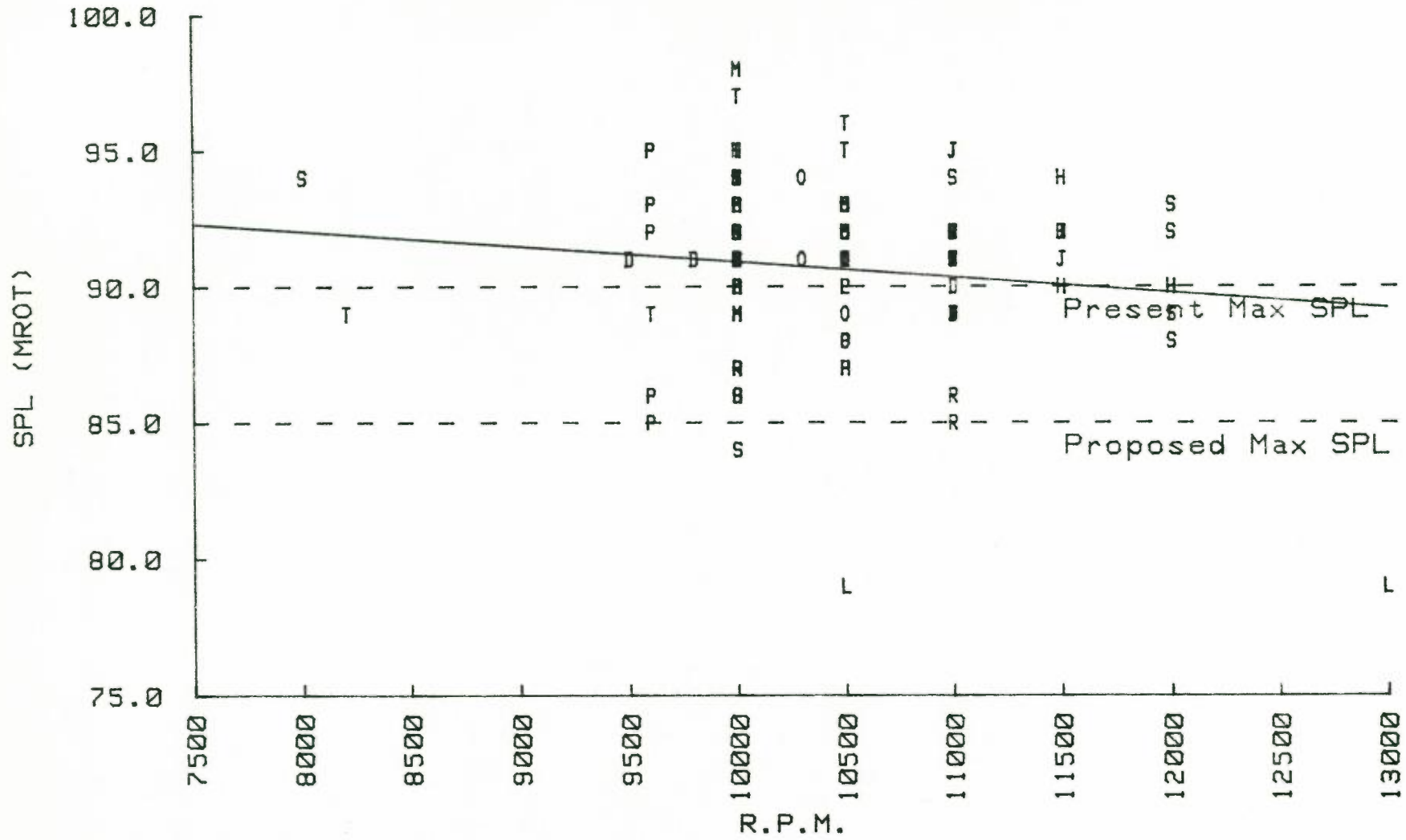
LEGEND

- S - STIHL
- P - POULAN
- M - McCULLOCH
- J - JONSEREDS
- H - HUSQVARNA
- A - ARIENS ECH
- T - HOMELITE
- R - PARTNER
- L - SOLO
- O - OLED MAC
- D - SACHS DOL



DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs R.P.M.

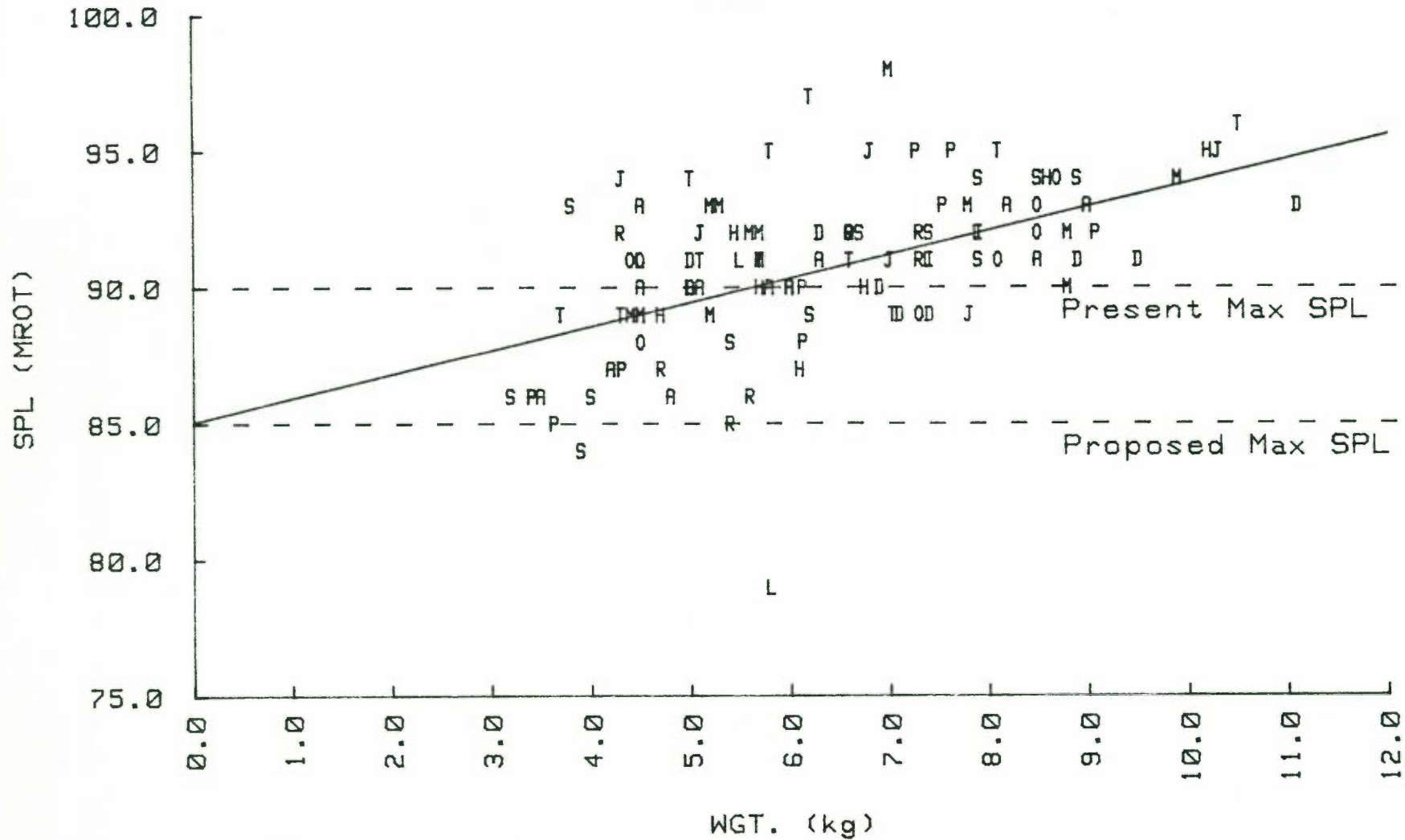


- LEGEND
- S - STIHL
  - P - POULAN
  - M - McCULLOCH
  - J - JONSEREDS
  - H - HUSQVARNA
  - A - ARIENS ECH
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  - O - OLEO MAC
  - D - SACHS DOL



DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs WGT. (kg)

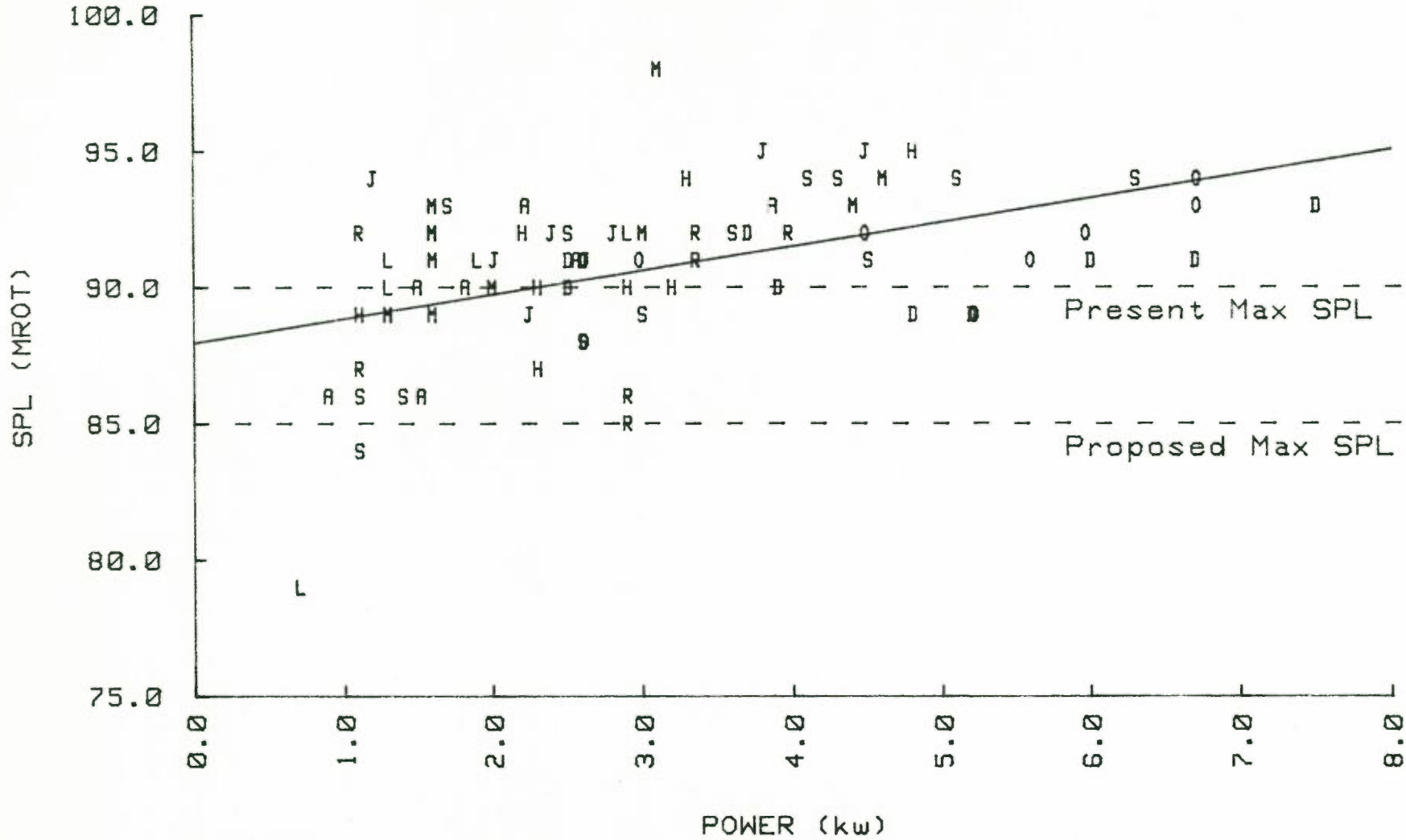


LEGEND

- S - STIHL
- P - POULAN
- M - McCULLOCH
- J - JONSEREDS
- H - HUSQVARNA
- A - ARIENS ECH
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- D - SACHS DOL

DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

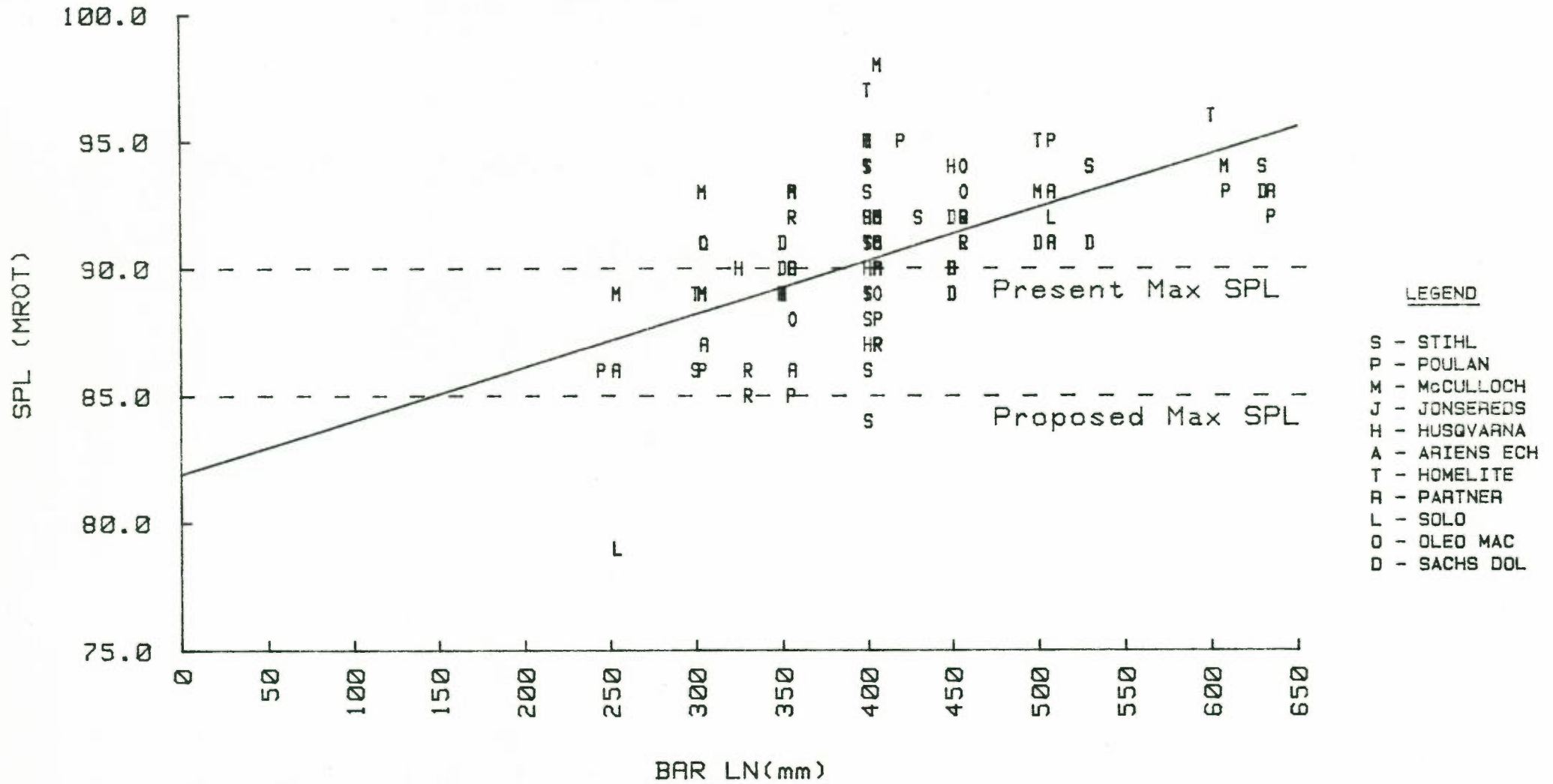
SPL (MROT) vs POWER (kw)



- LEGEND
- S - STIHL
  - P - POULAN
  - M - McCULLOCH
  - J - JONSEREDS
  - H - HUSQVARNA
  - A - ARIENS ECH
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  - D - SACHS DOL

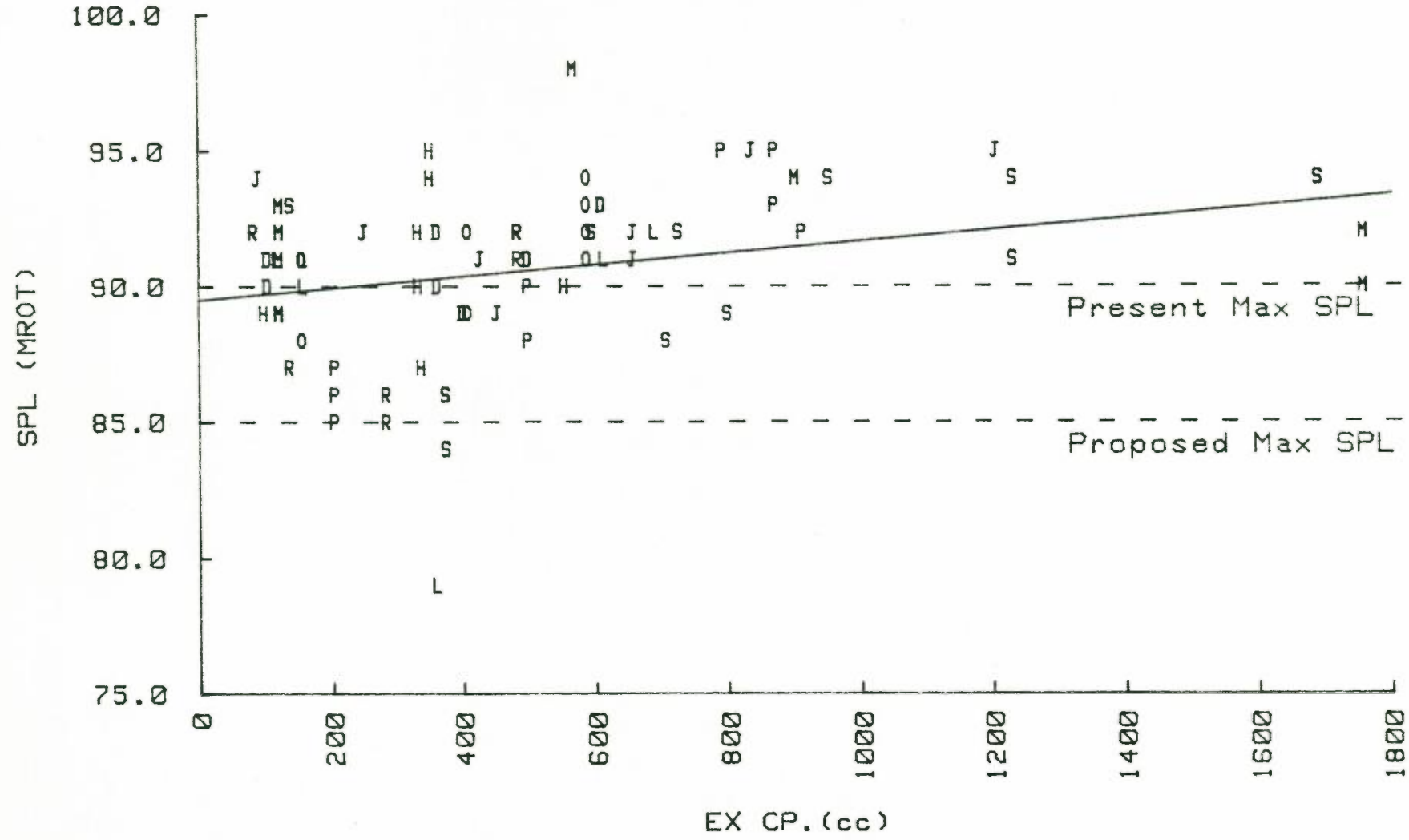
(5)  
DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs BAR LN (mm)



DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs EX CP. (cc)

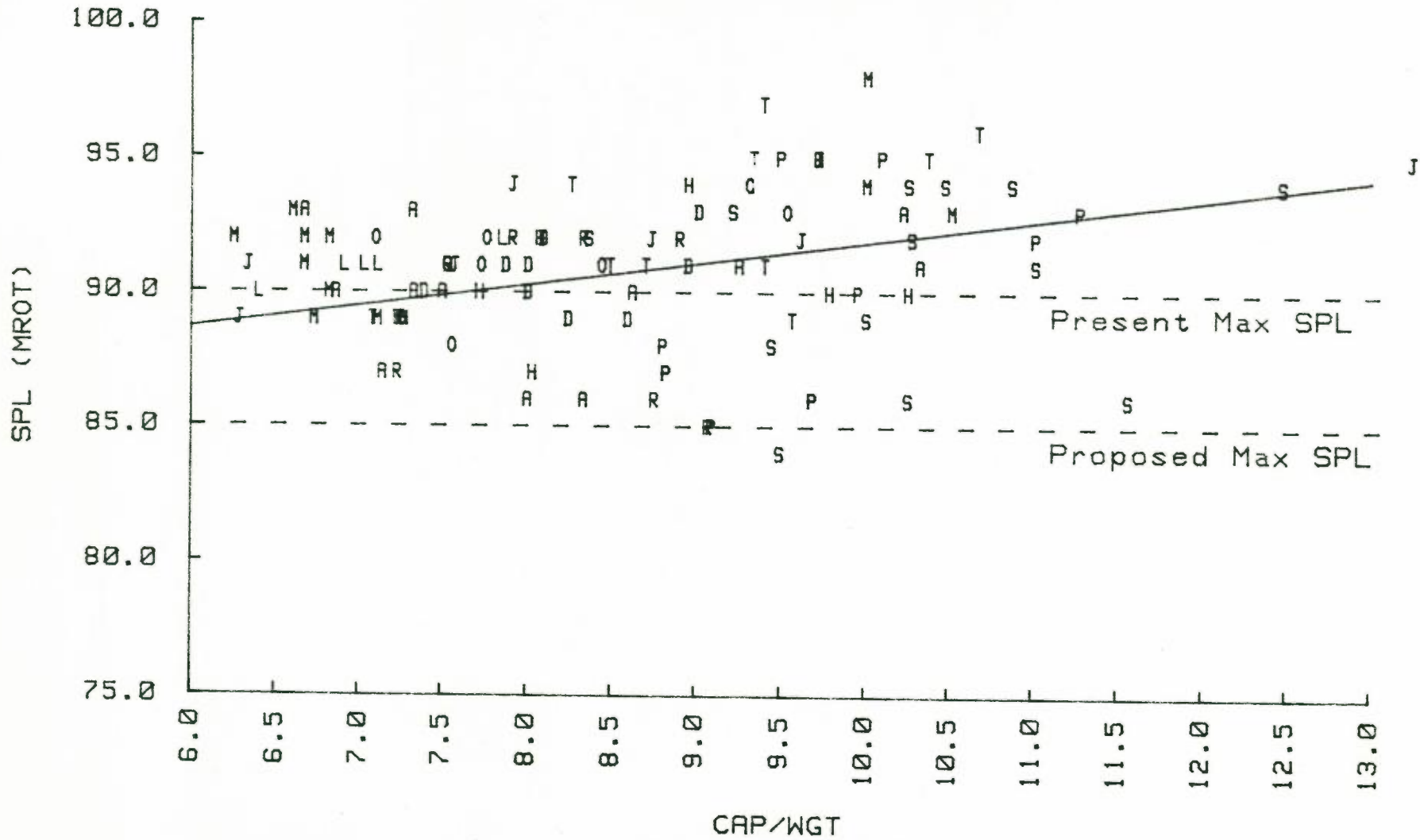


LEGEND

- S - STIHL
- P - POULAN
- M - McCULLOCH
- J - JONSEREDS
- H - HUSQVARNA
- A - ARIENS ECH
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- R - PARTNER
- L - SOLO
- O - OLEO MAC
- D - SACHS DOL

DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

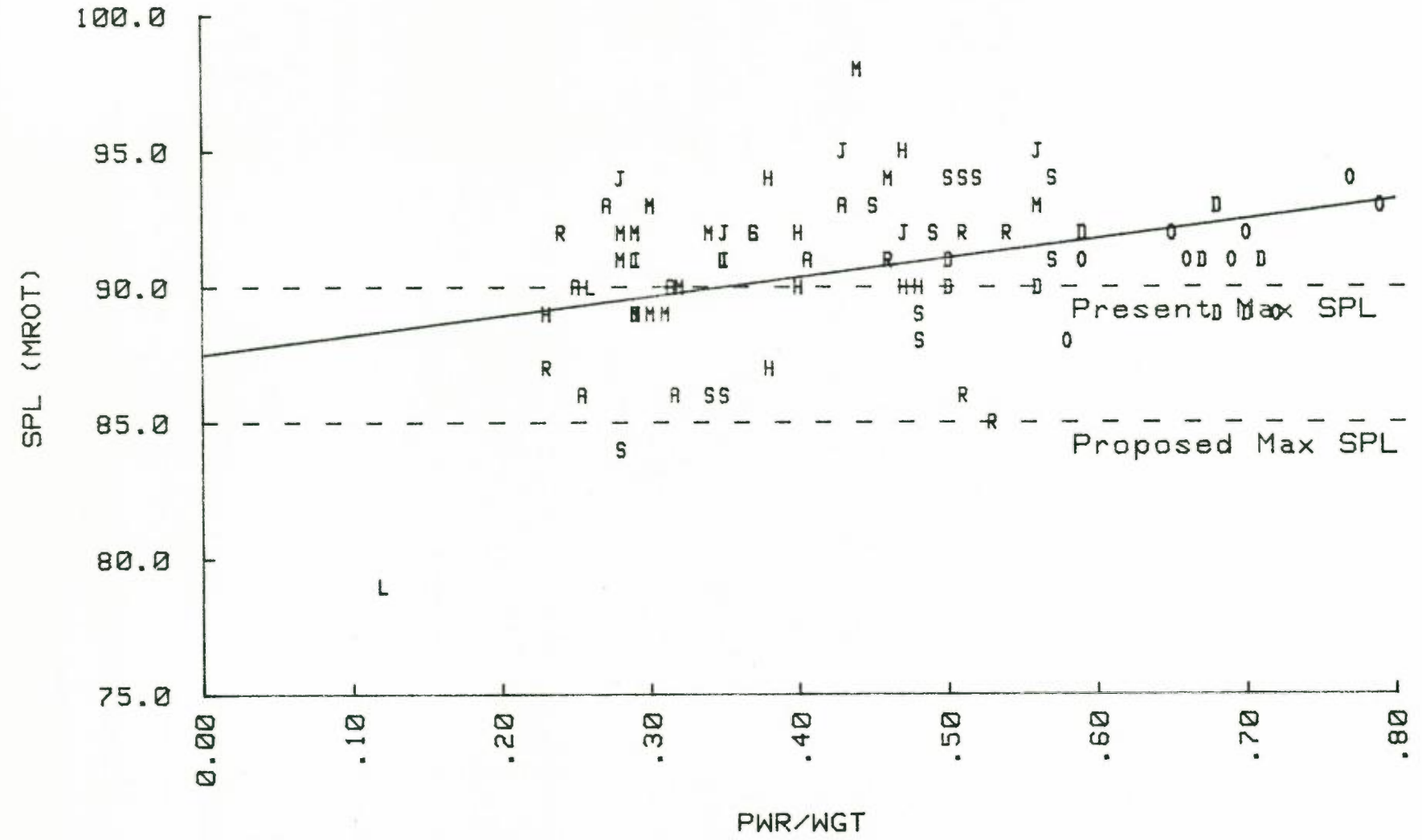
SPL (MROT) vs CAP/WGT



- LEGEND
- S - STIHL
  - P - POULAN
  - M - McCULLOCH
  - J - JONSEREDS
  - H - HUSQVARNA
  - A - ARIENS ECH
  - T - HOMELITE
  - R - PARTNER
  - L - SOLO
  - O - OLEO MAC
  - D - SACHS DOL

DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



LEGEND

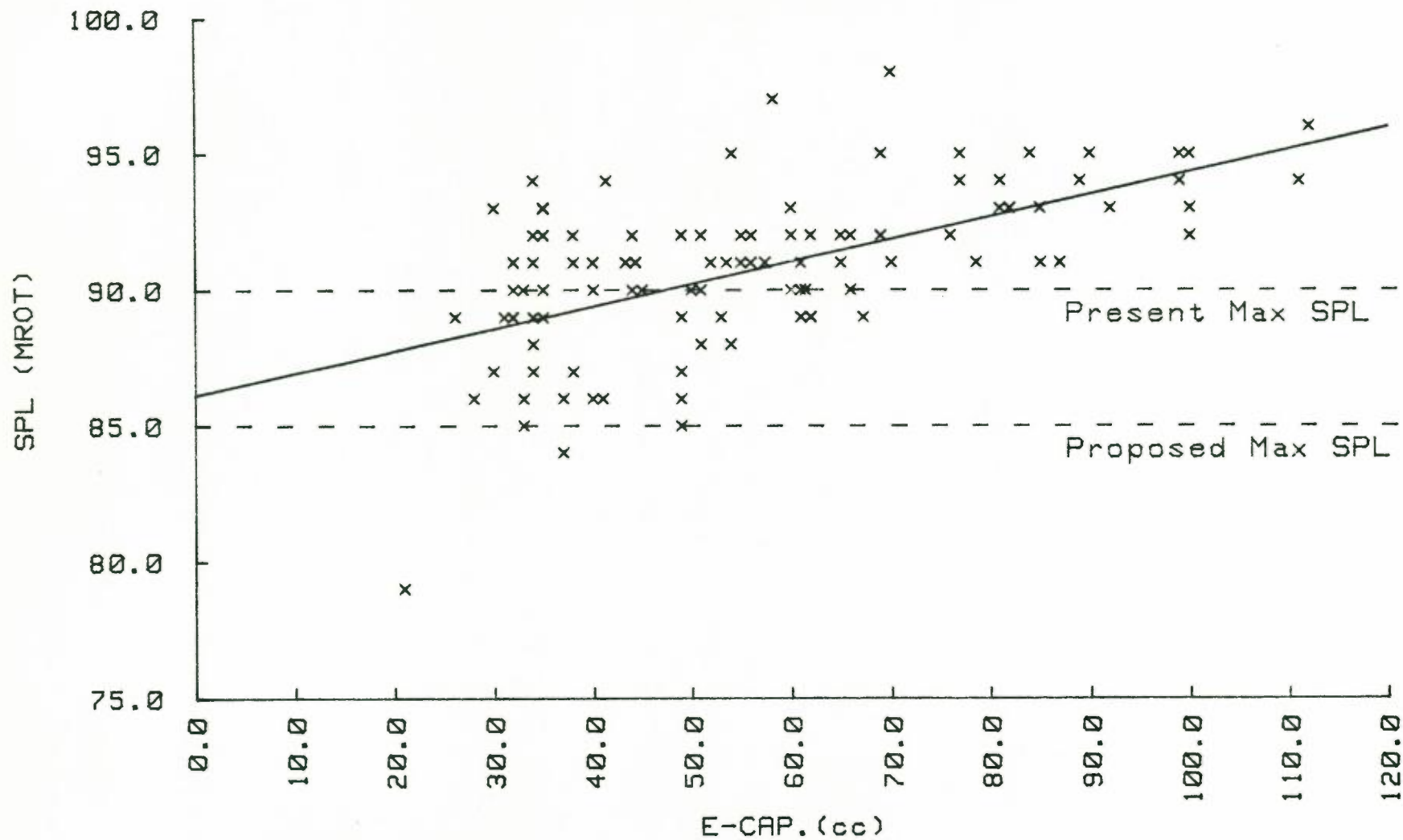
- S - STIHL
- P - POULAN
- M - McCULLOCH
- J - JONSEREDS
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- L - SOLO
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(9)

DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

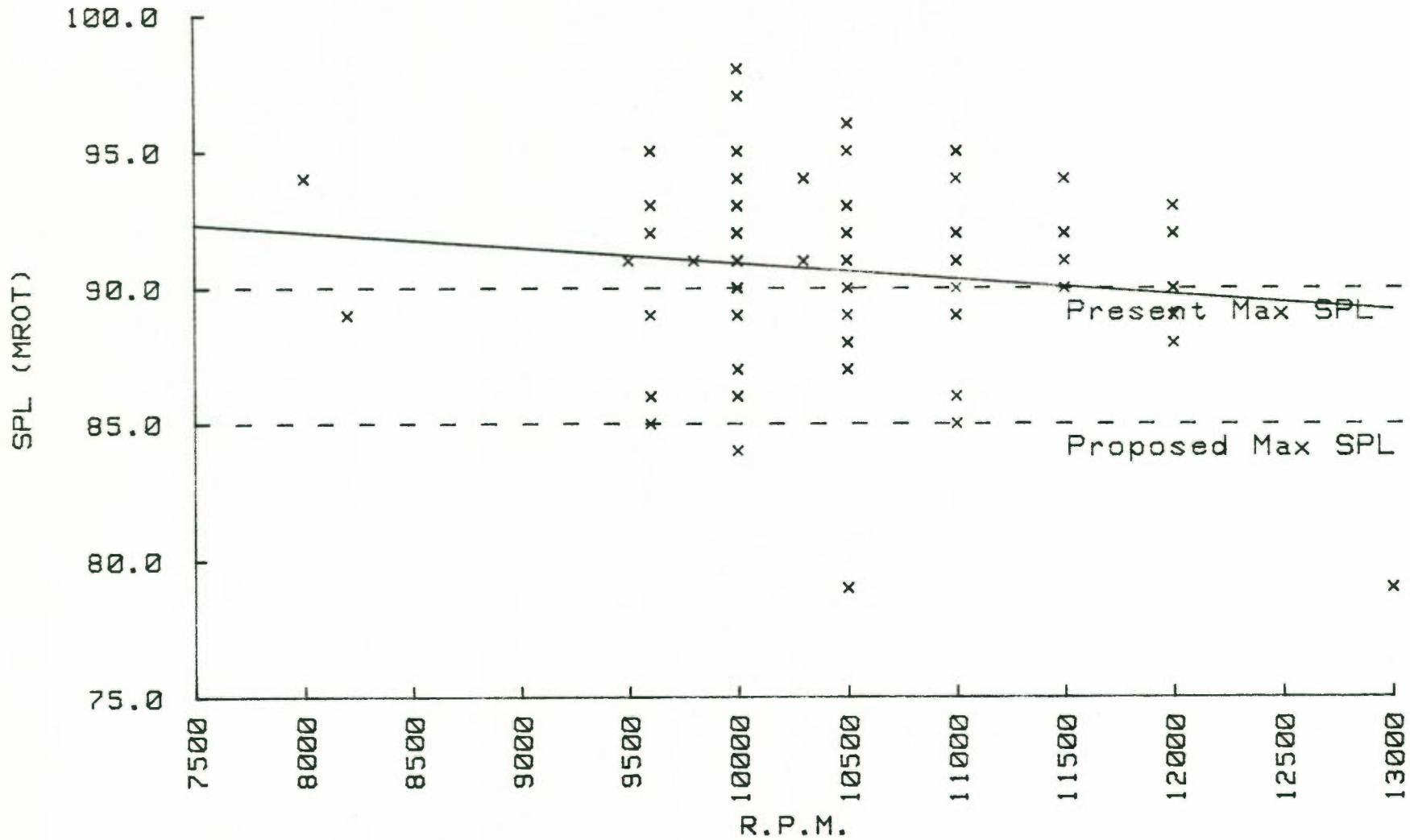
SPL (MROT) vs E-CAP. (cc)





DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

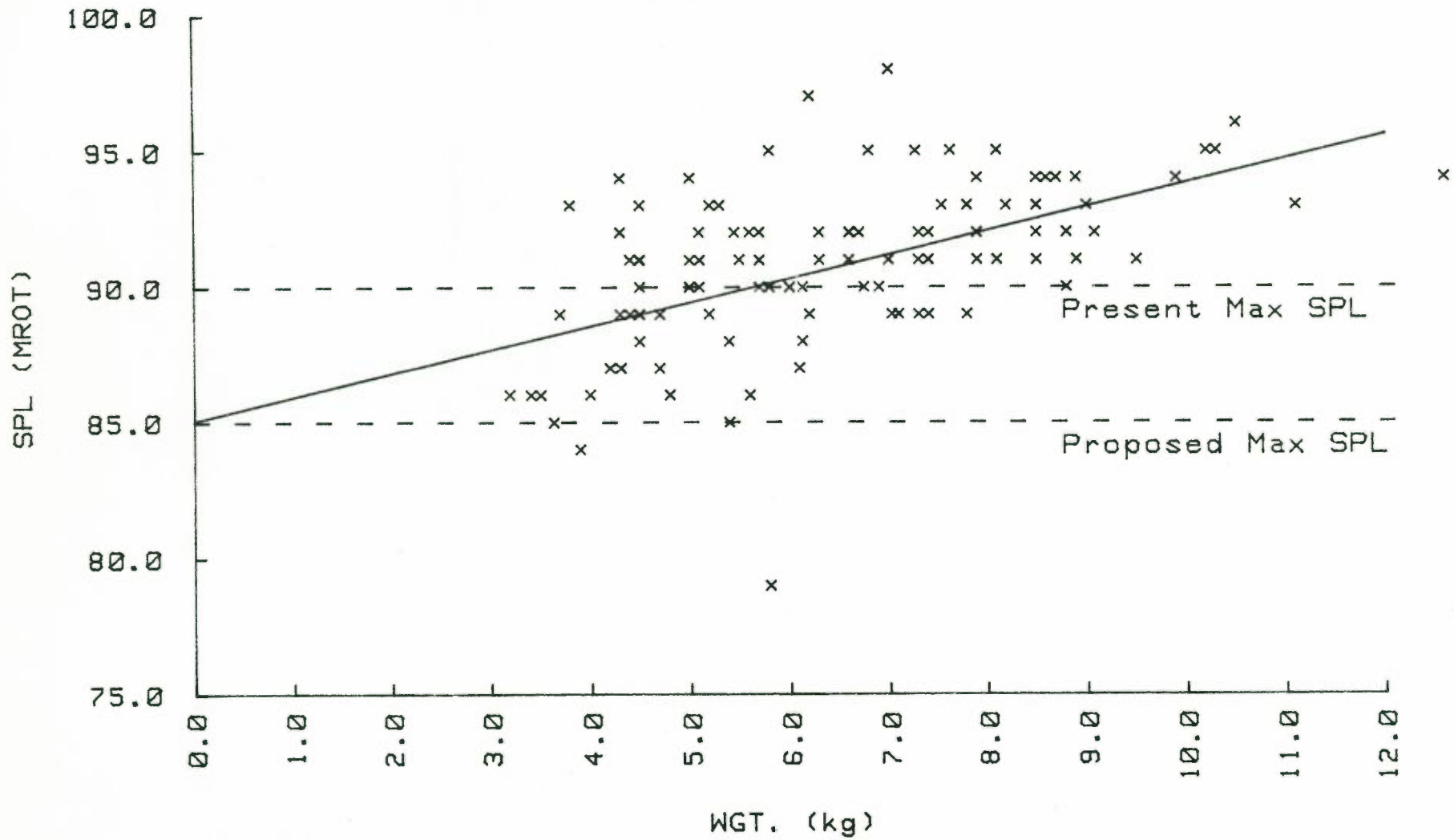
SPL (MROT) vs R.P.M.



(11)

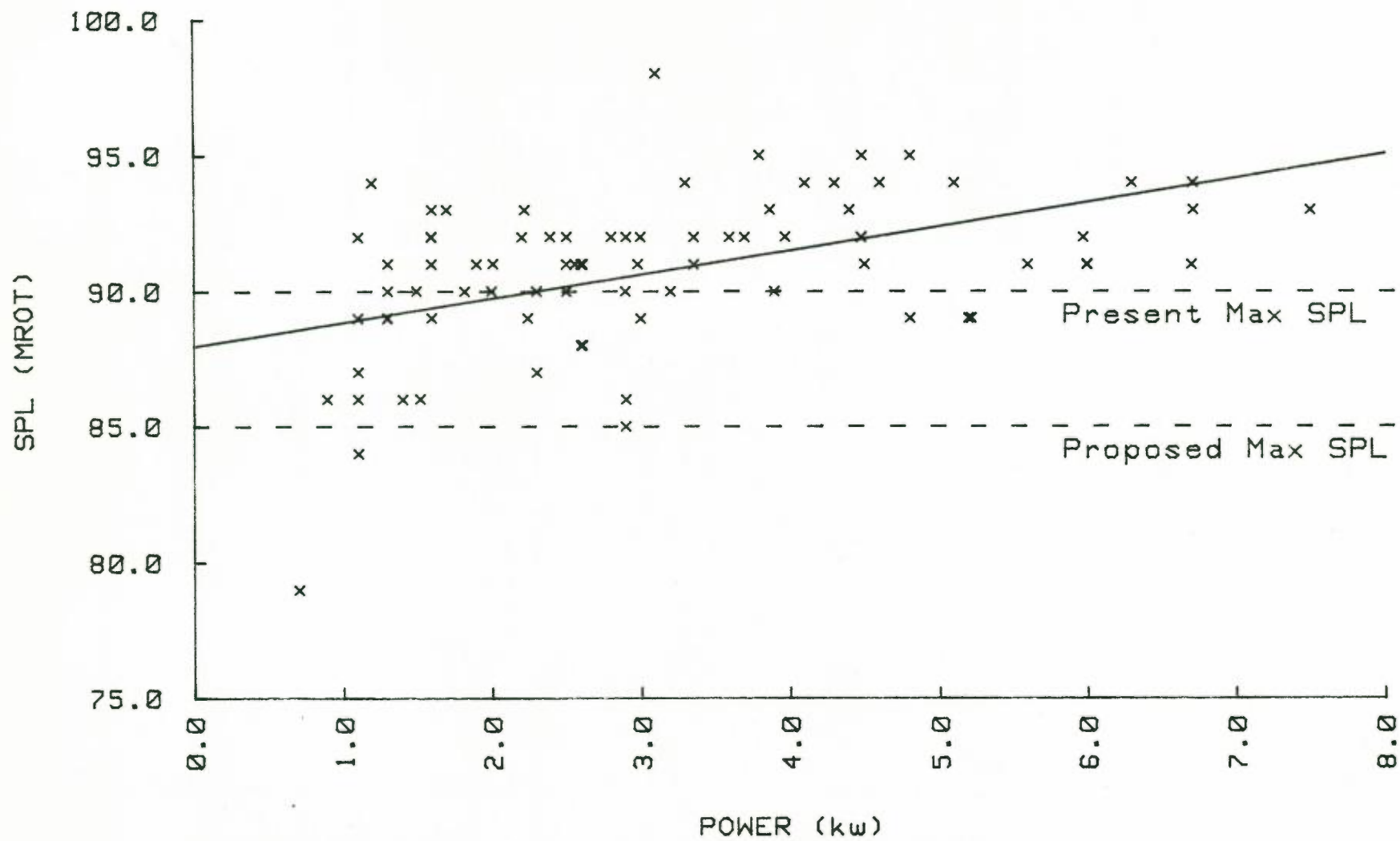
DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs WGT. (kg)



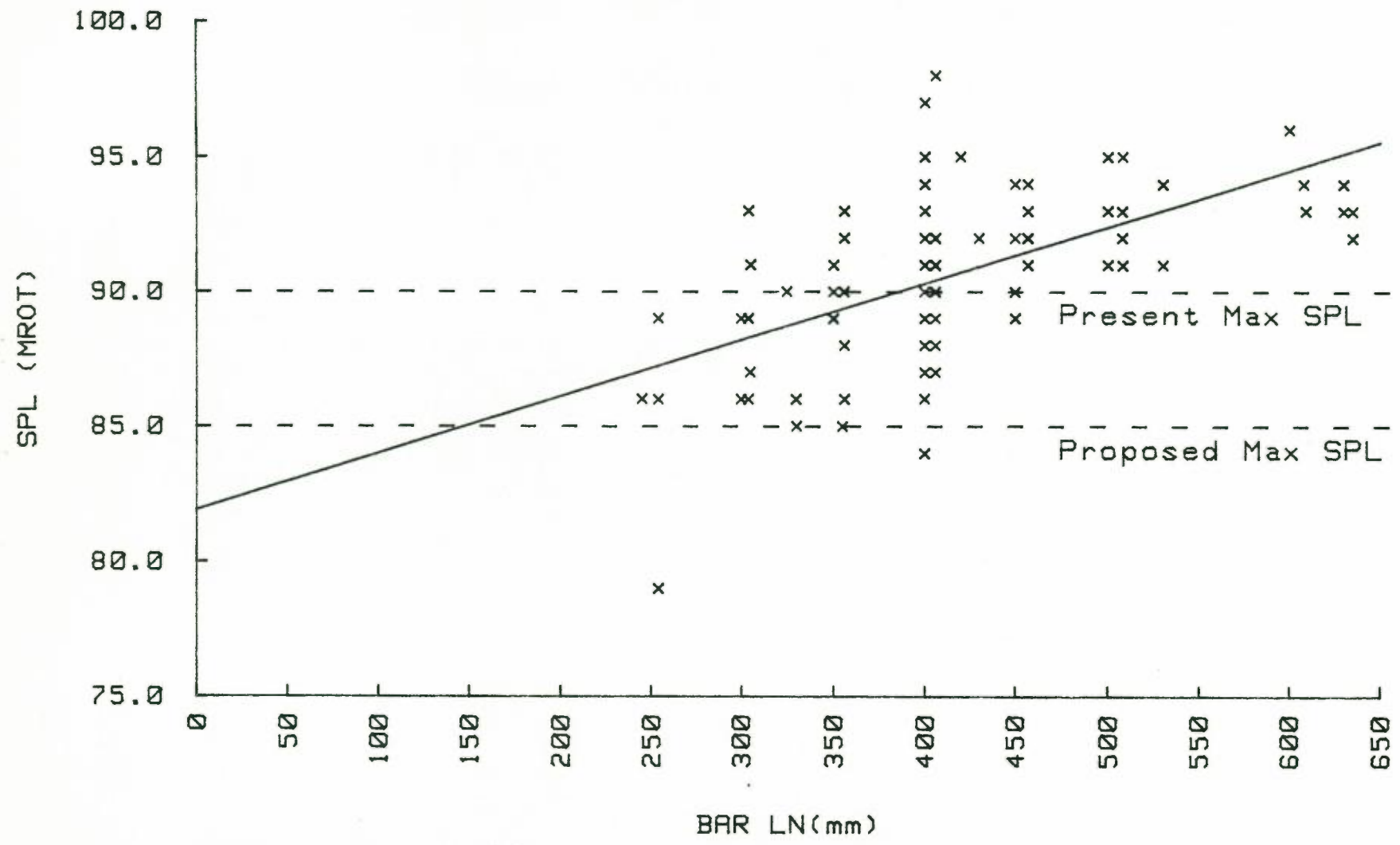
DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs POWER (kw)



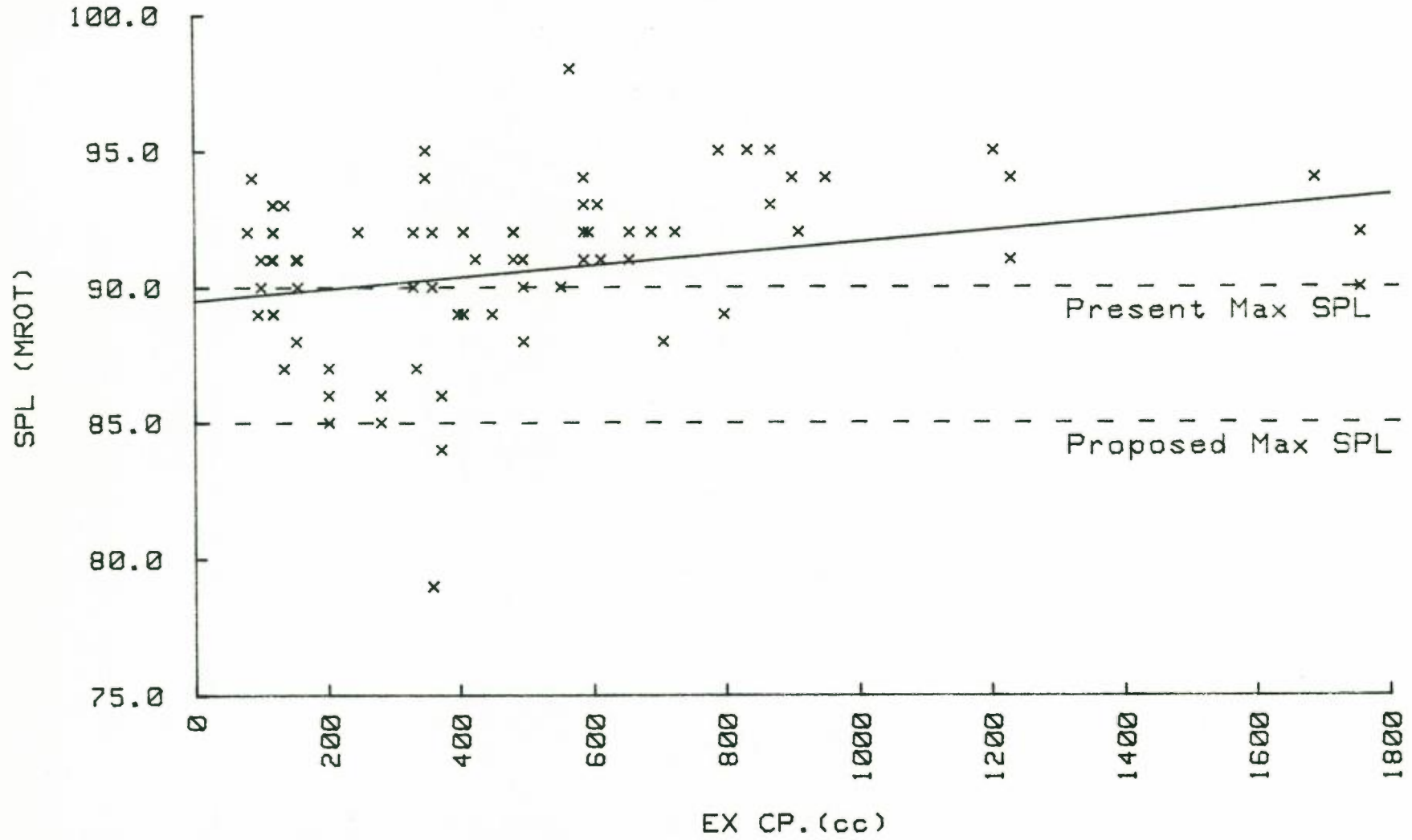
DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs BAR LN (mm)



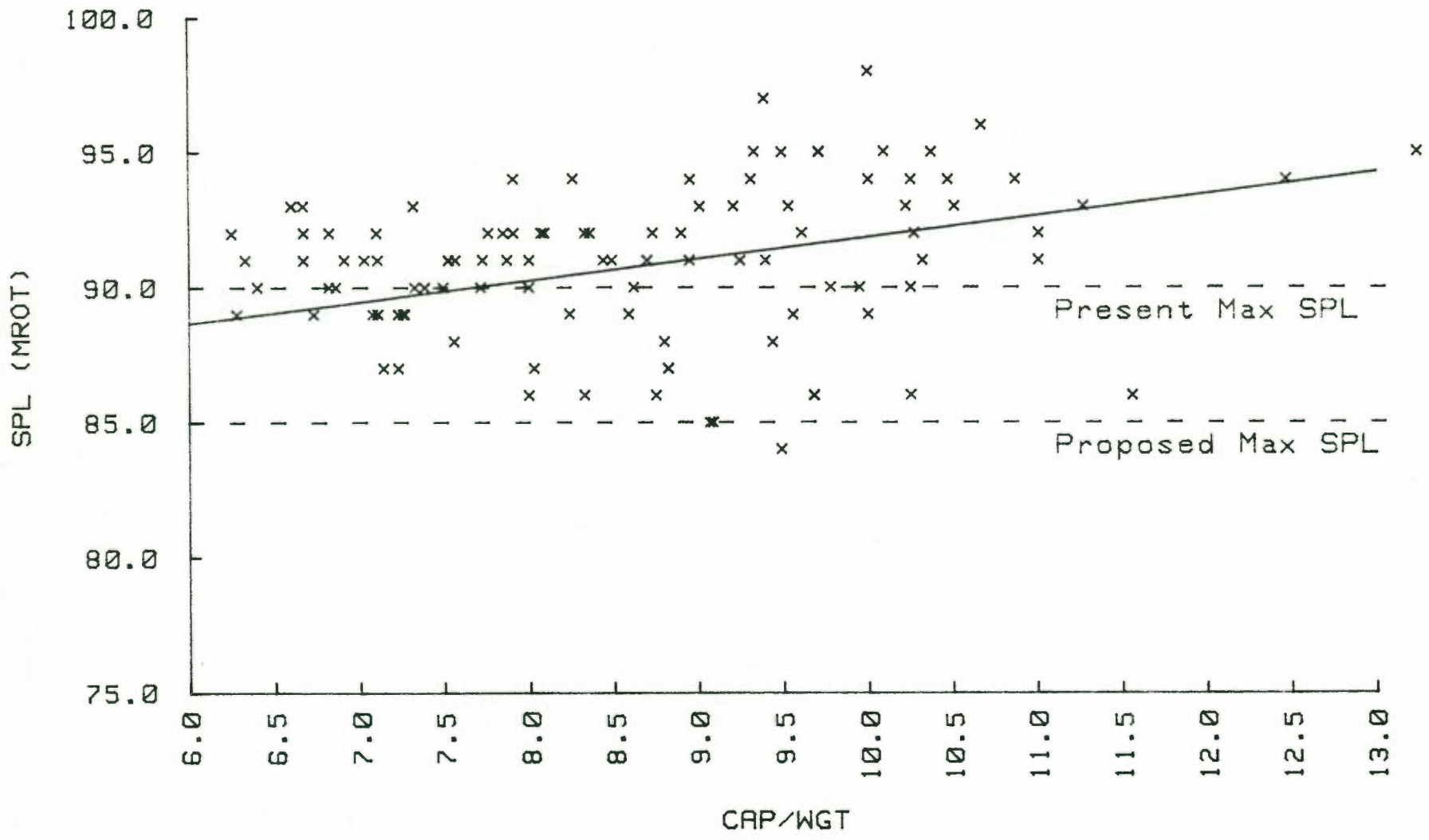
DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs EX CP. (cc)



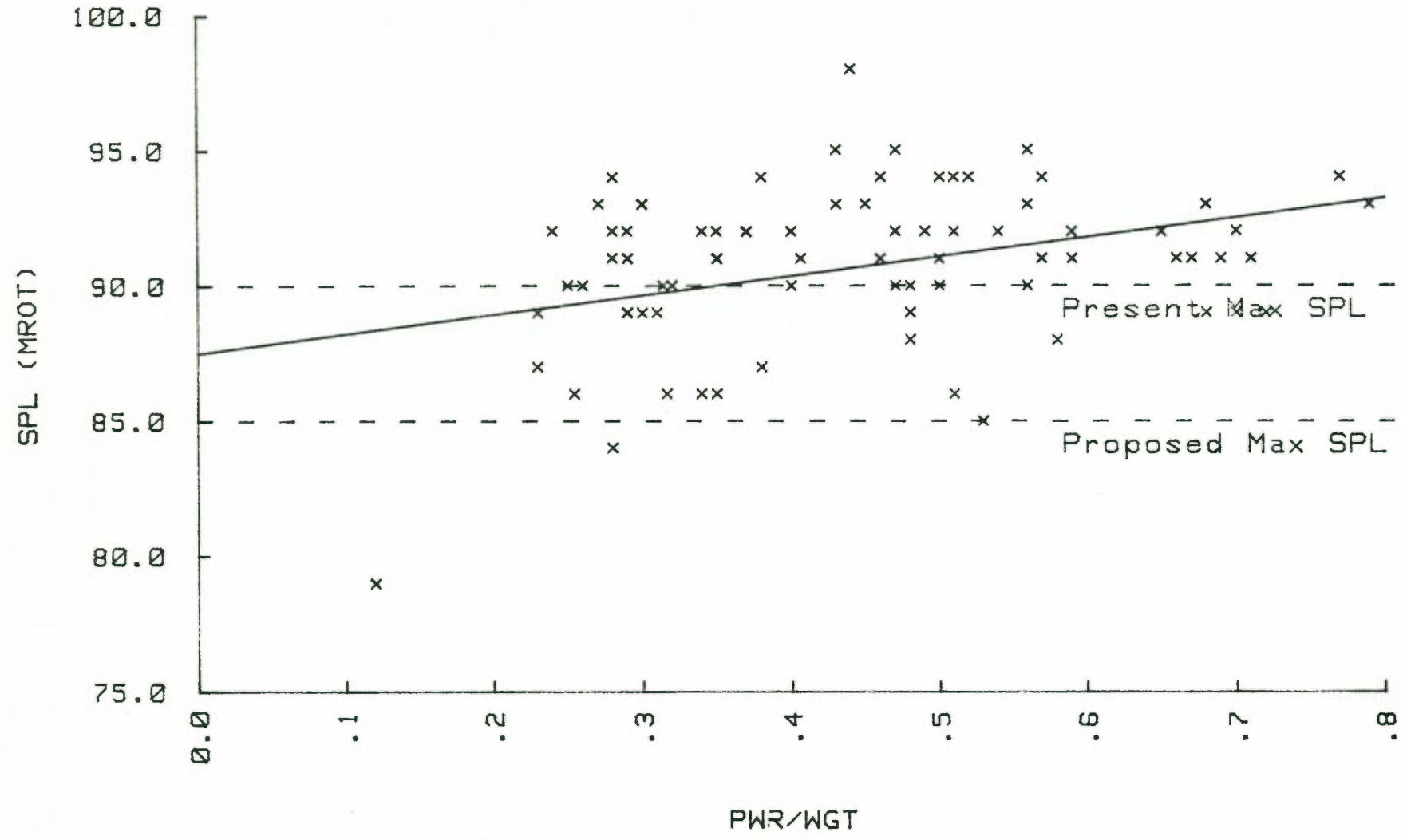
DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



DATA FOR ALL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

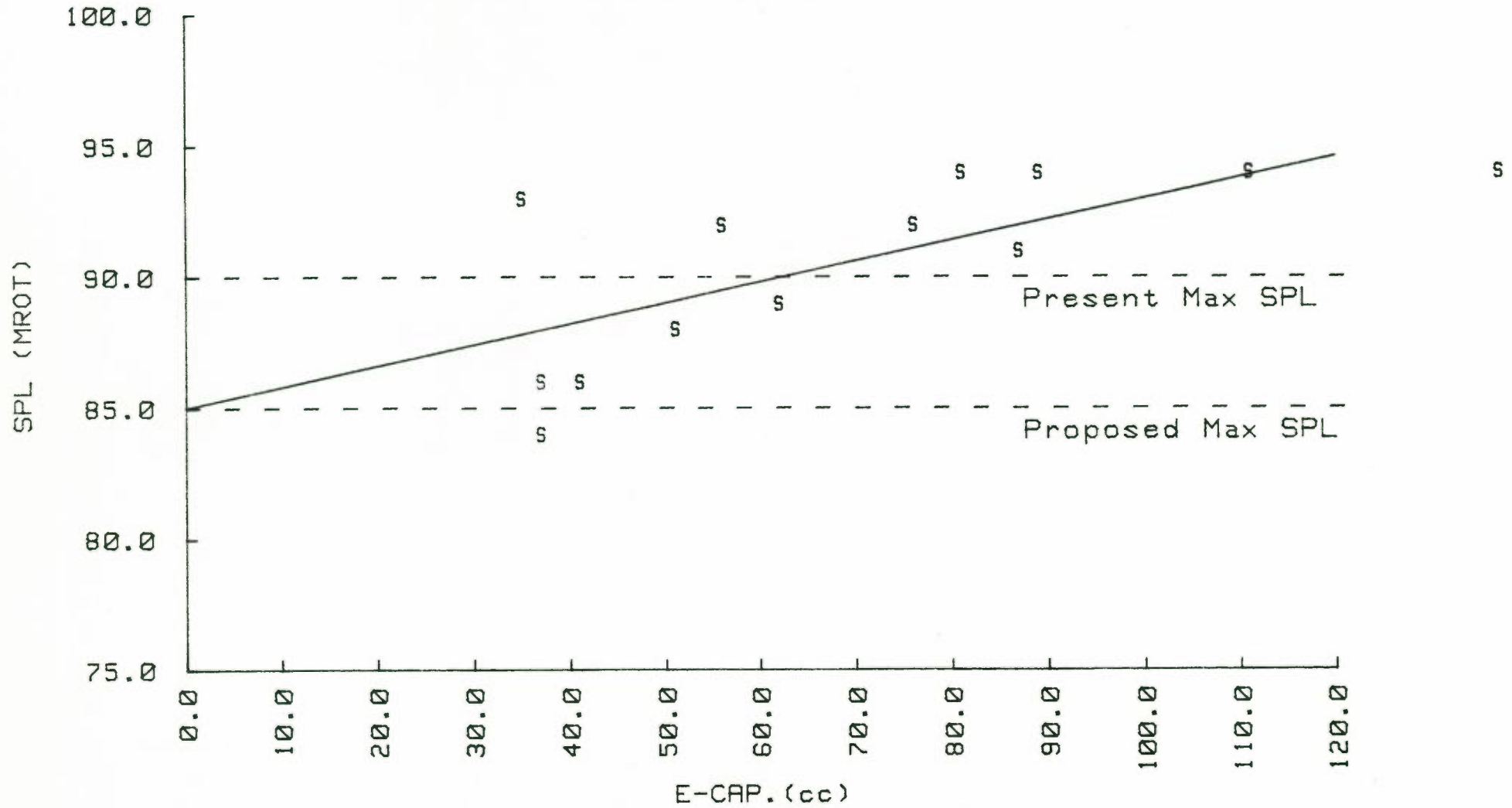
SPL (MROT) vs PWR/WGT





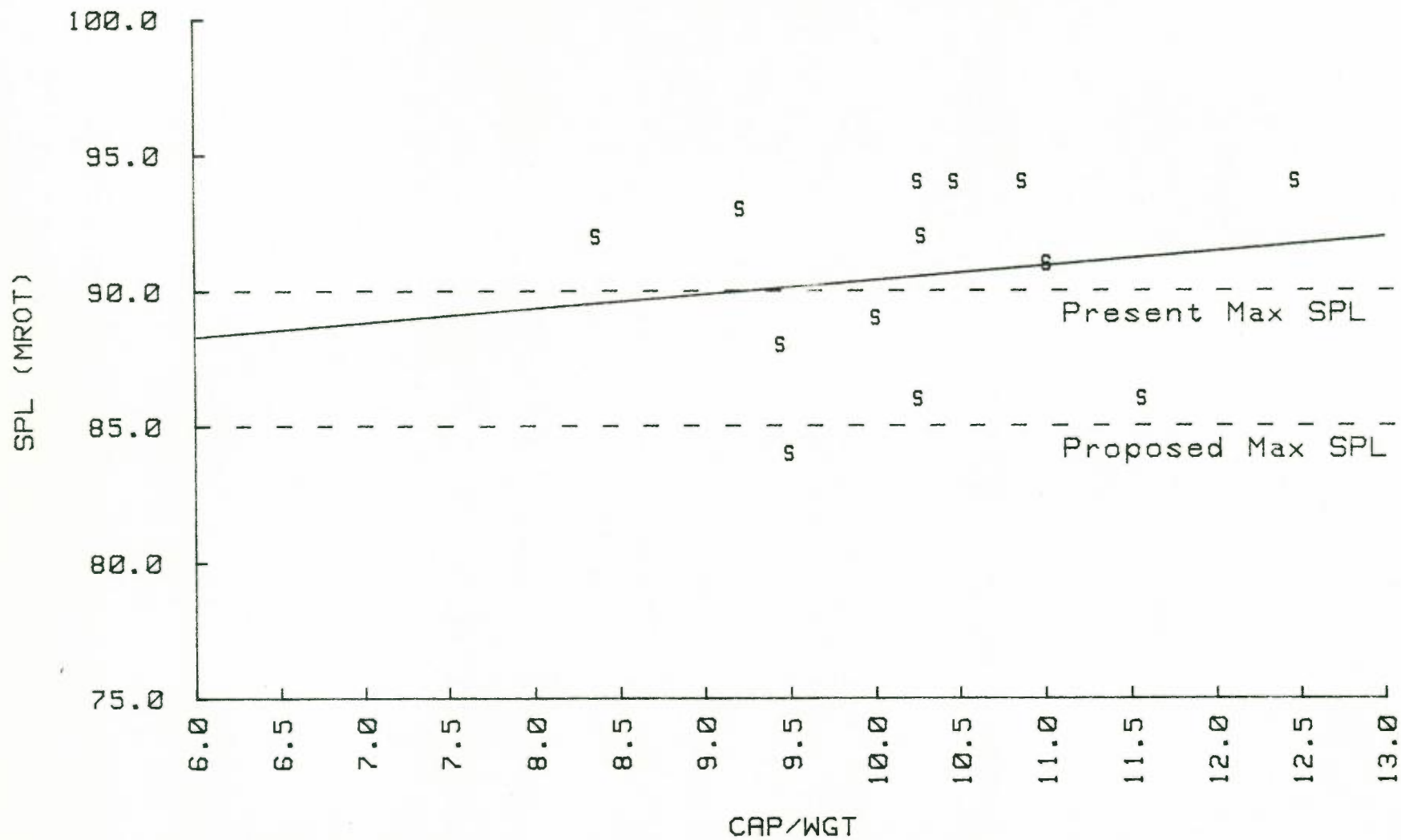
# STIHL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



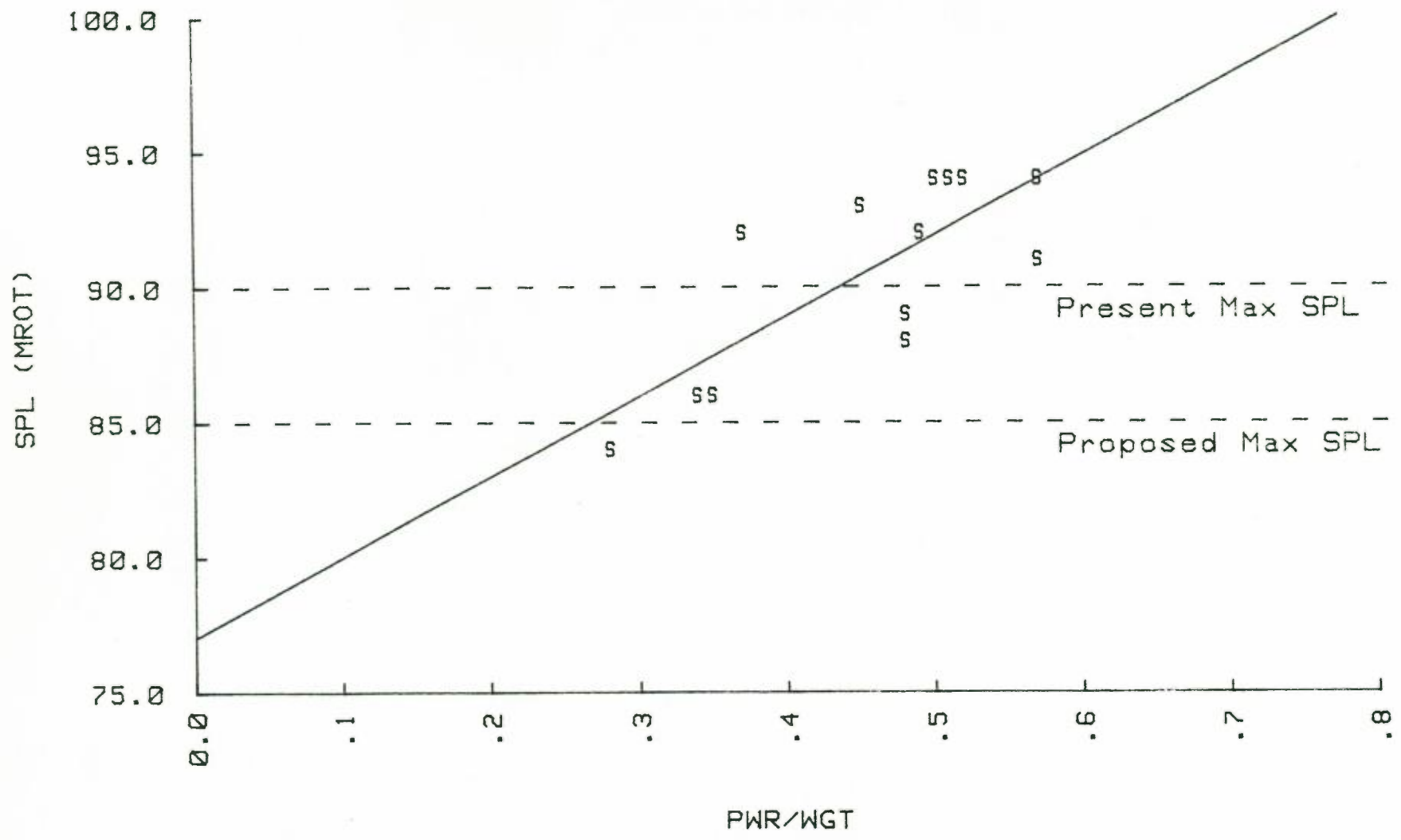
# STIHL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



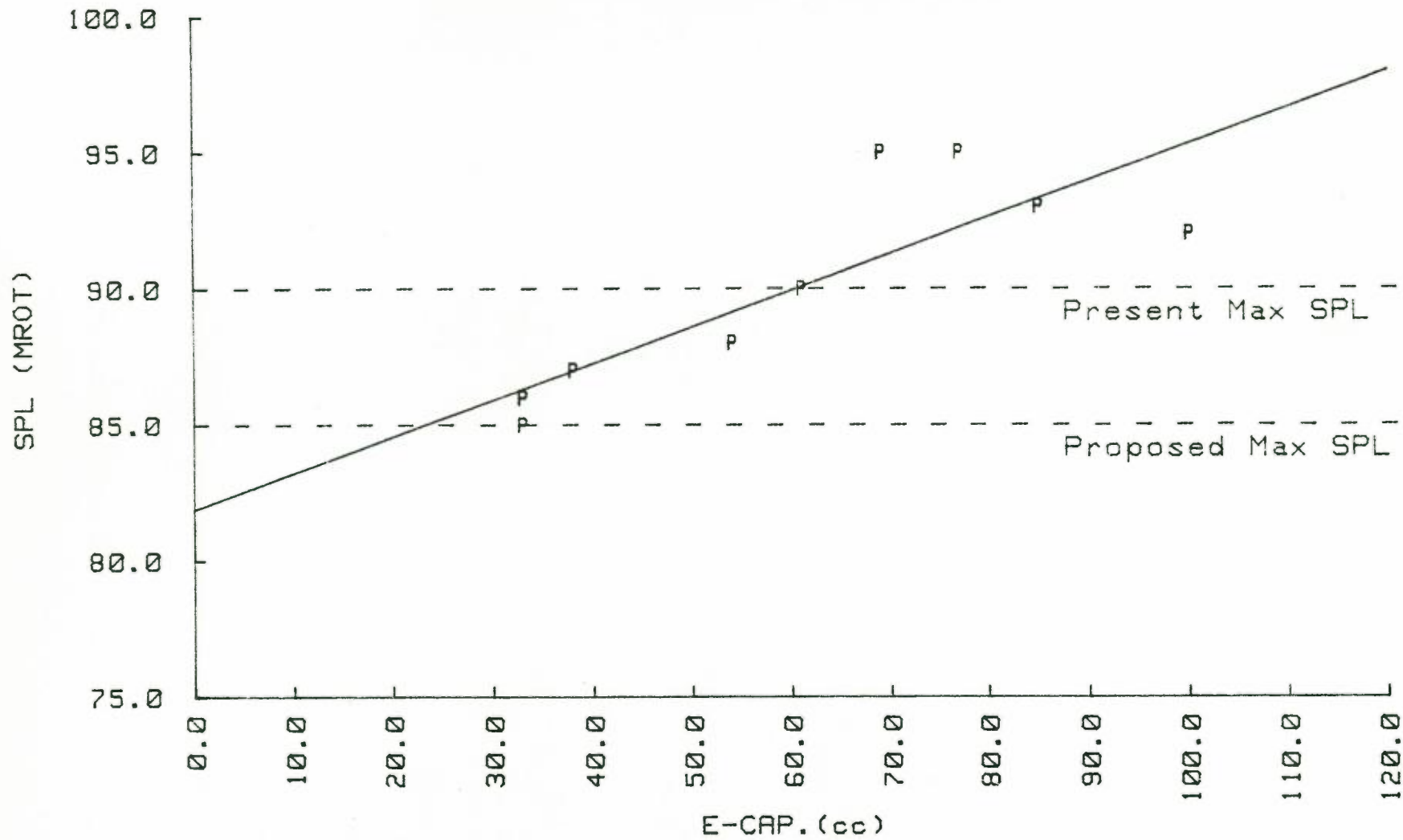
# STIHL CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



POULAN CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

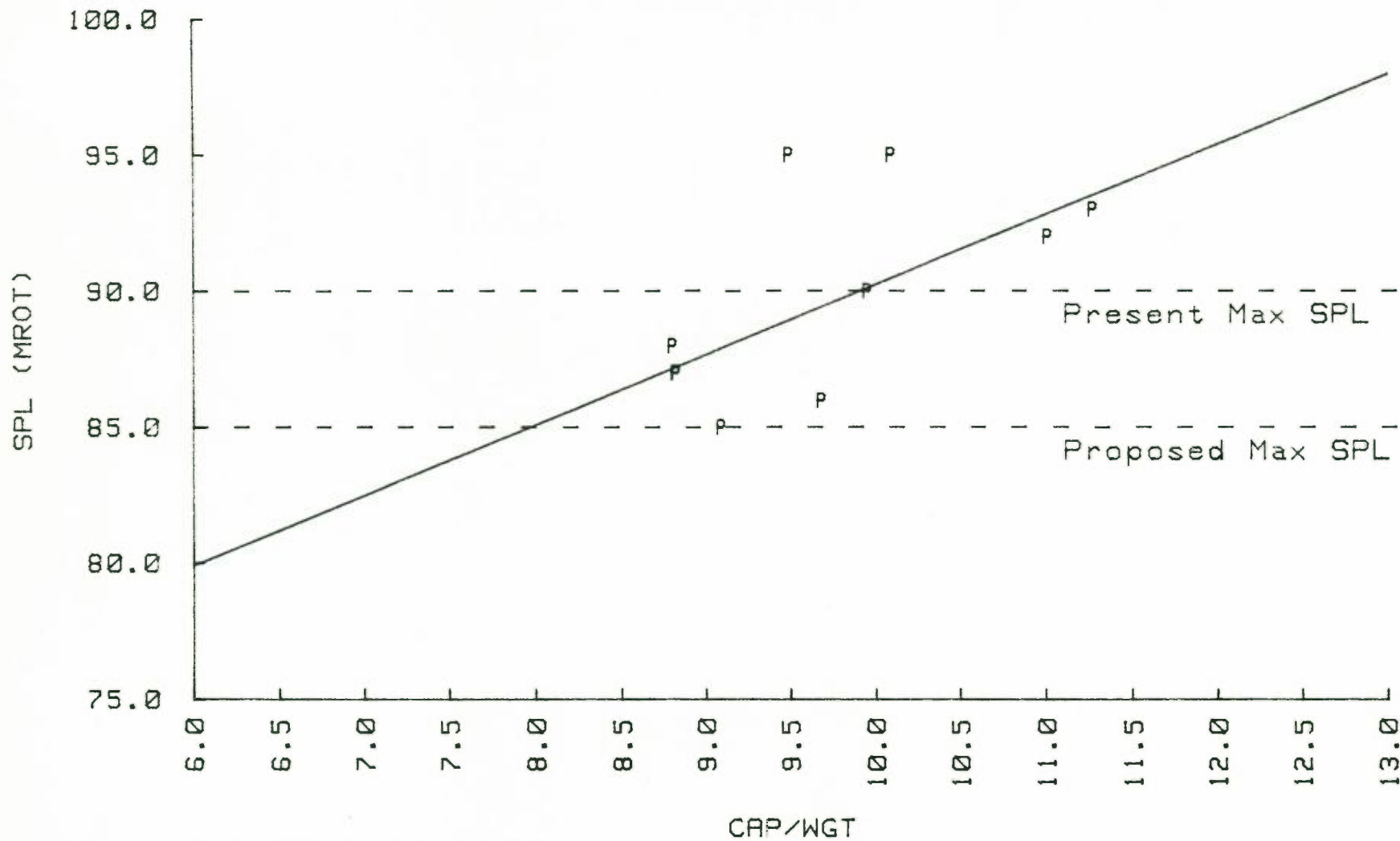
SPL (MROT) vs E-CAP. (cc)



(21)

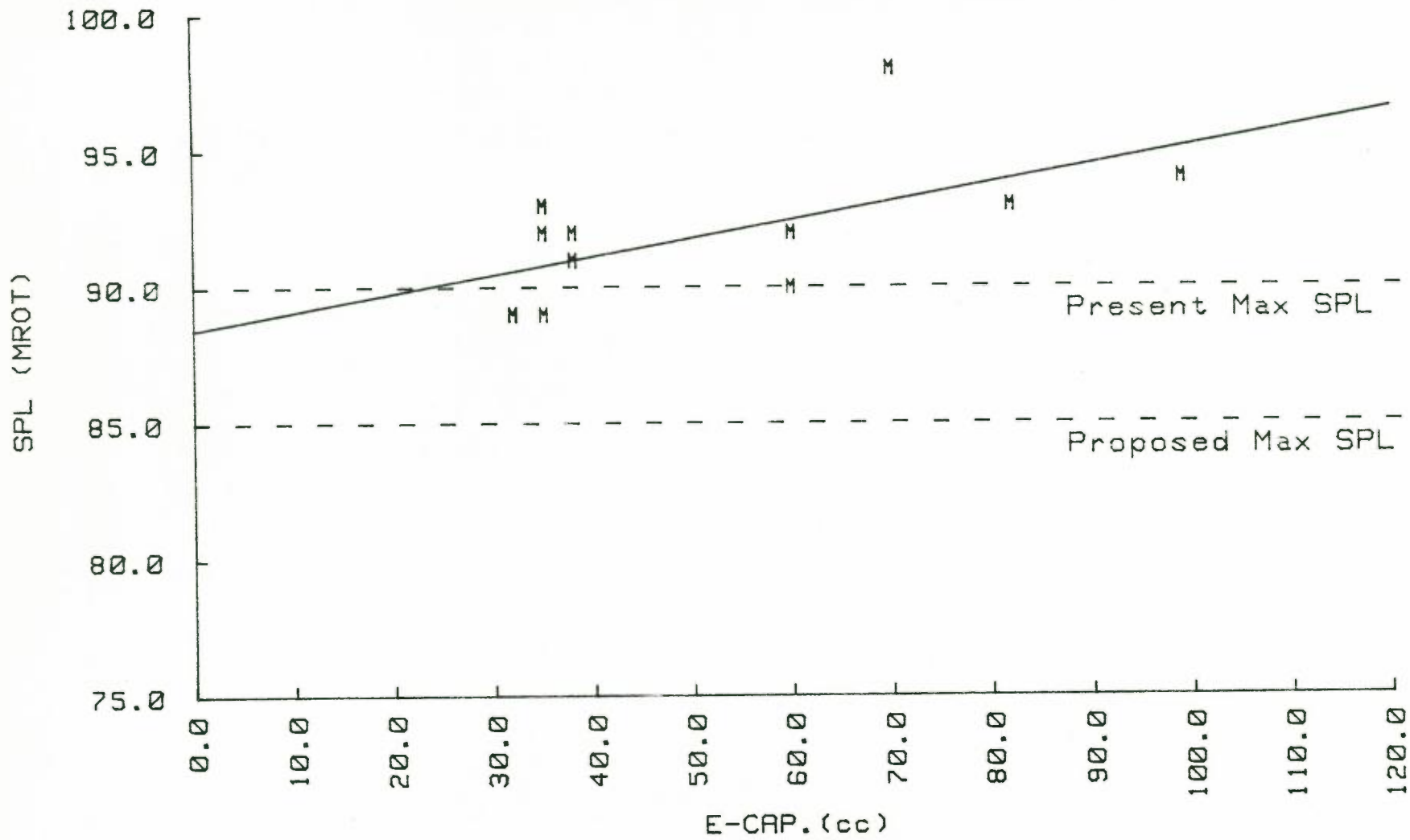
POULAN CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



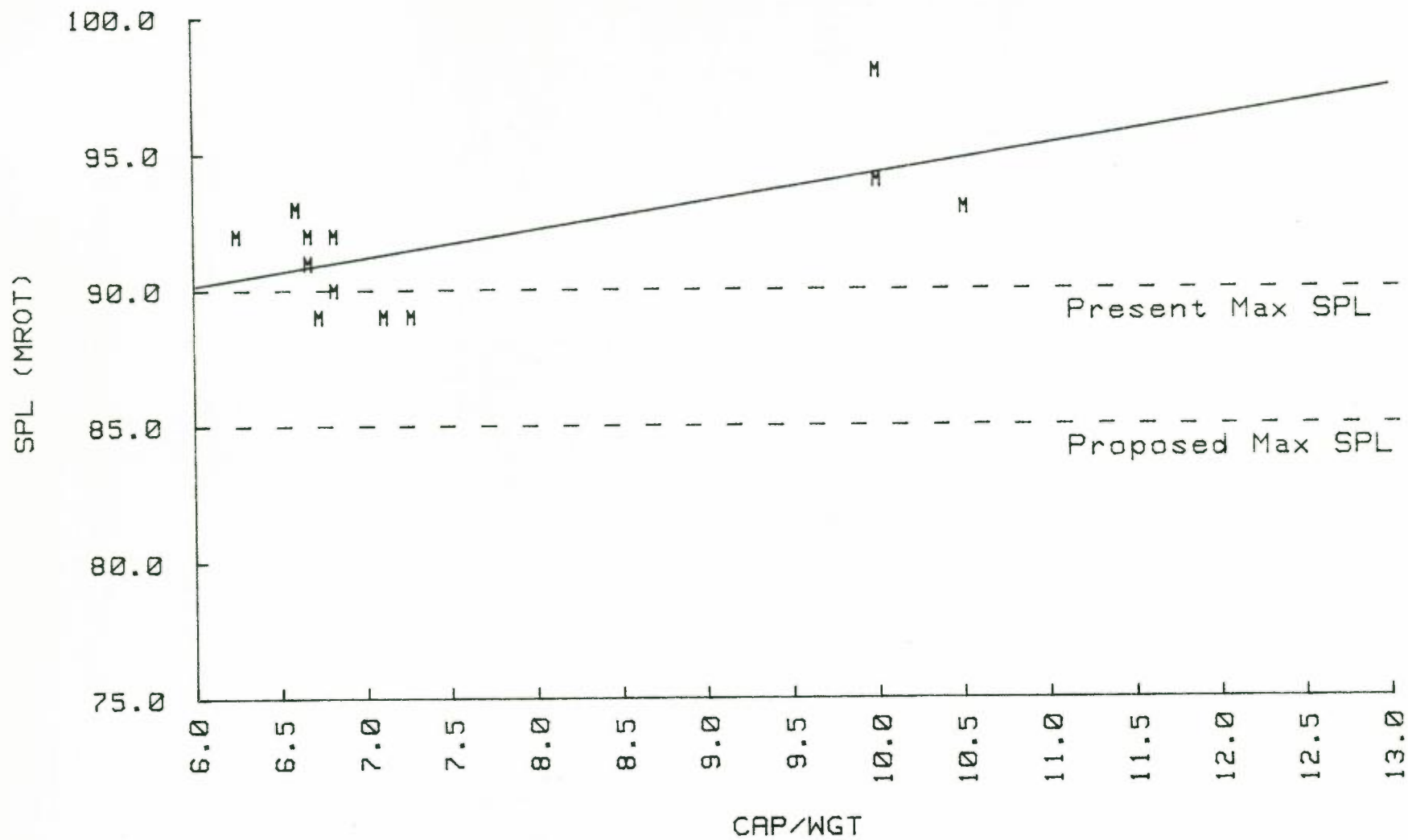
McCULLOCH CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



McCULLOCH CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

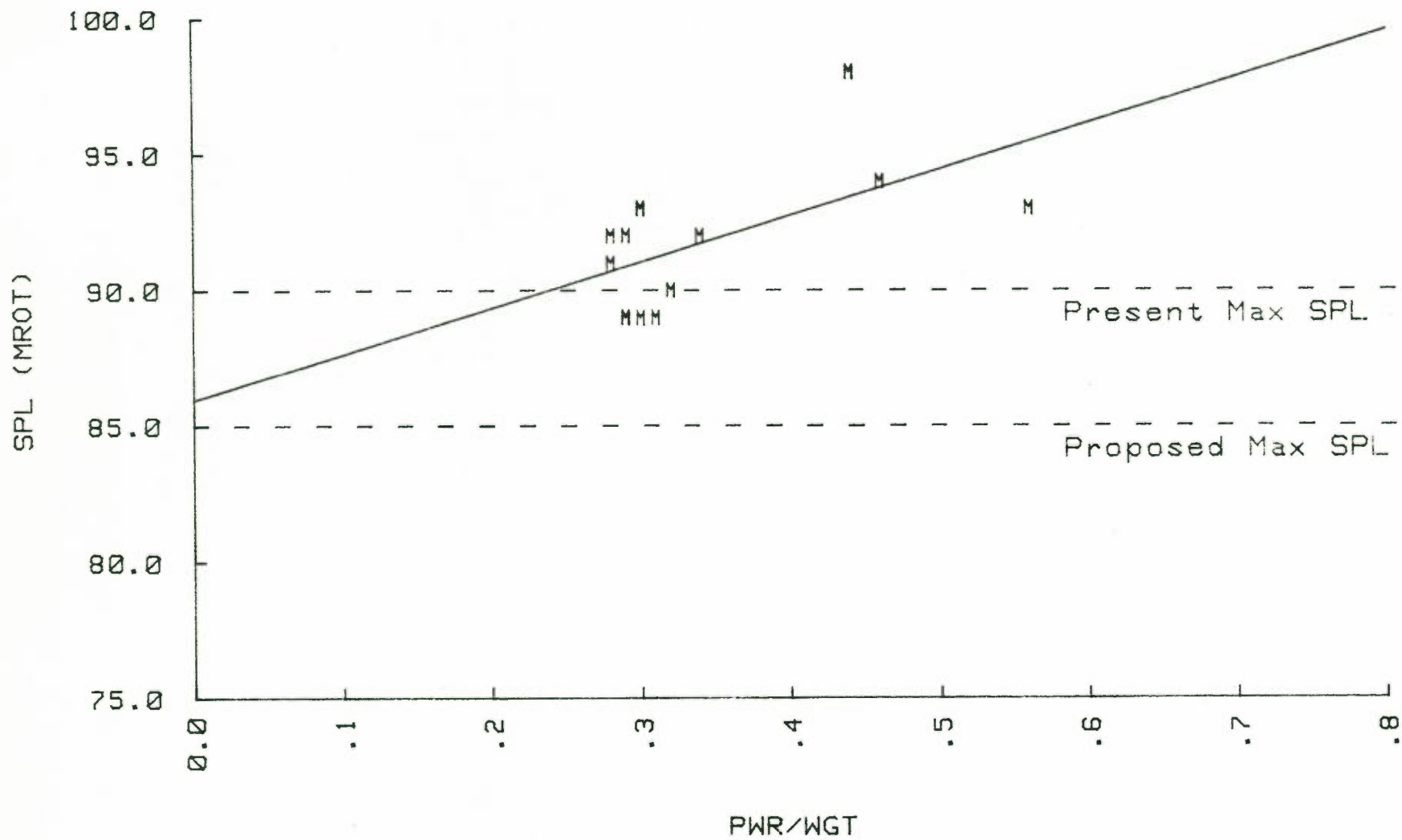
SPL (MROT) vs CAP/WGT





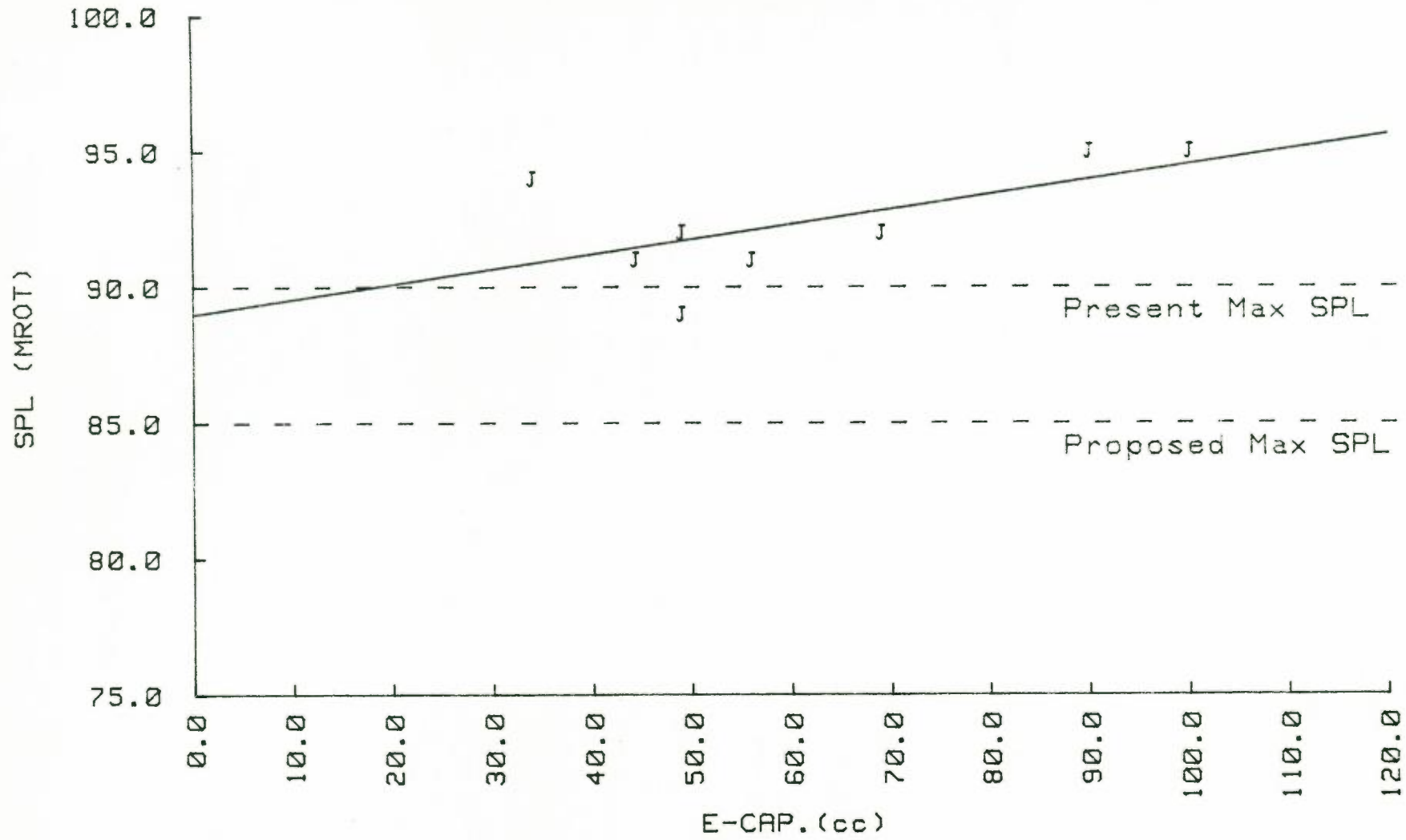
McCULLOCH CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



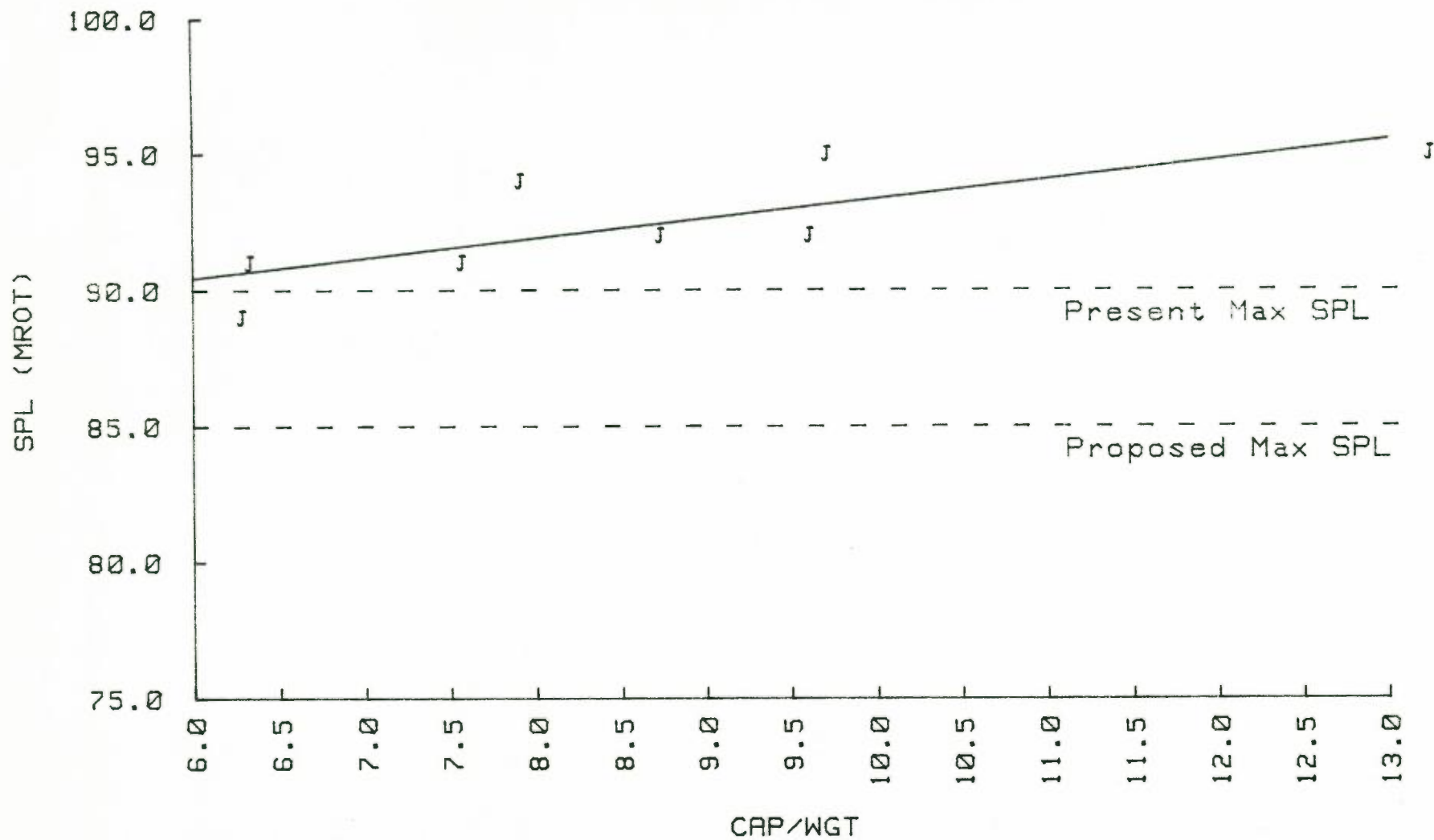
JONSERED CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



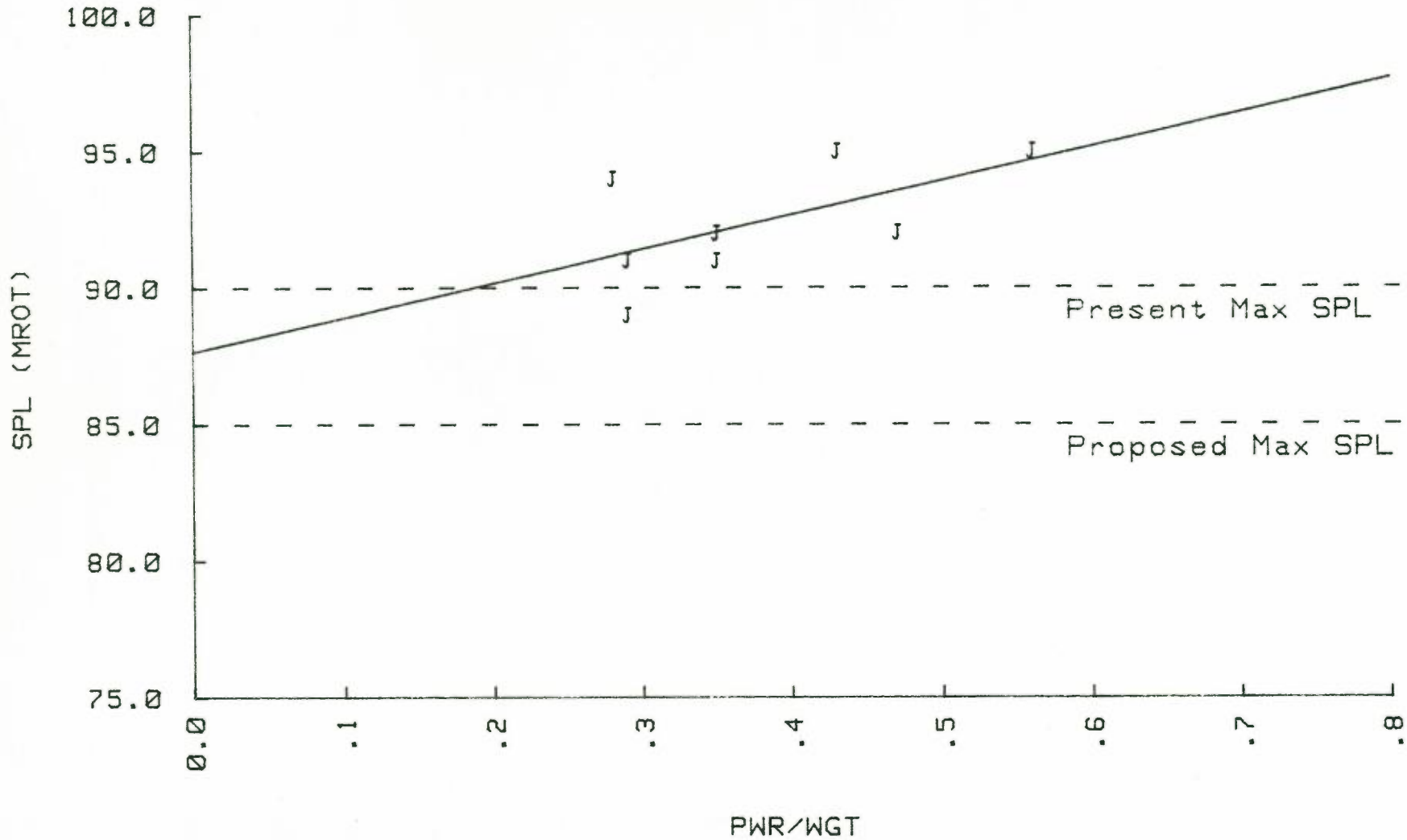
JONSERED CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



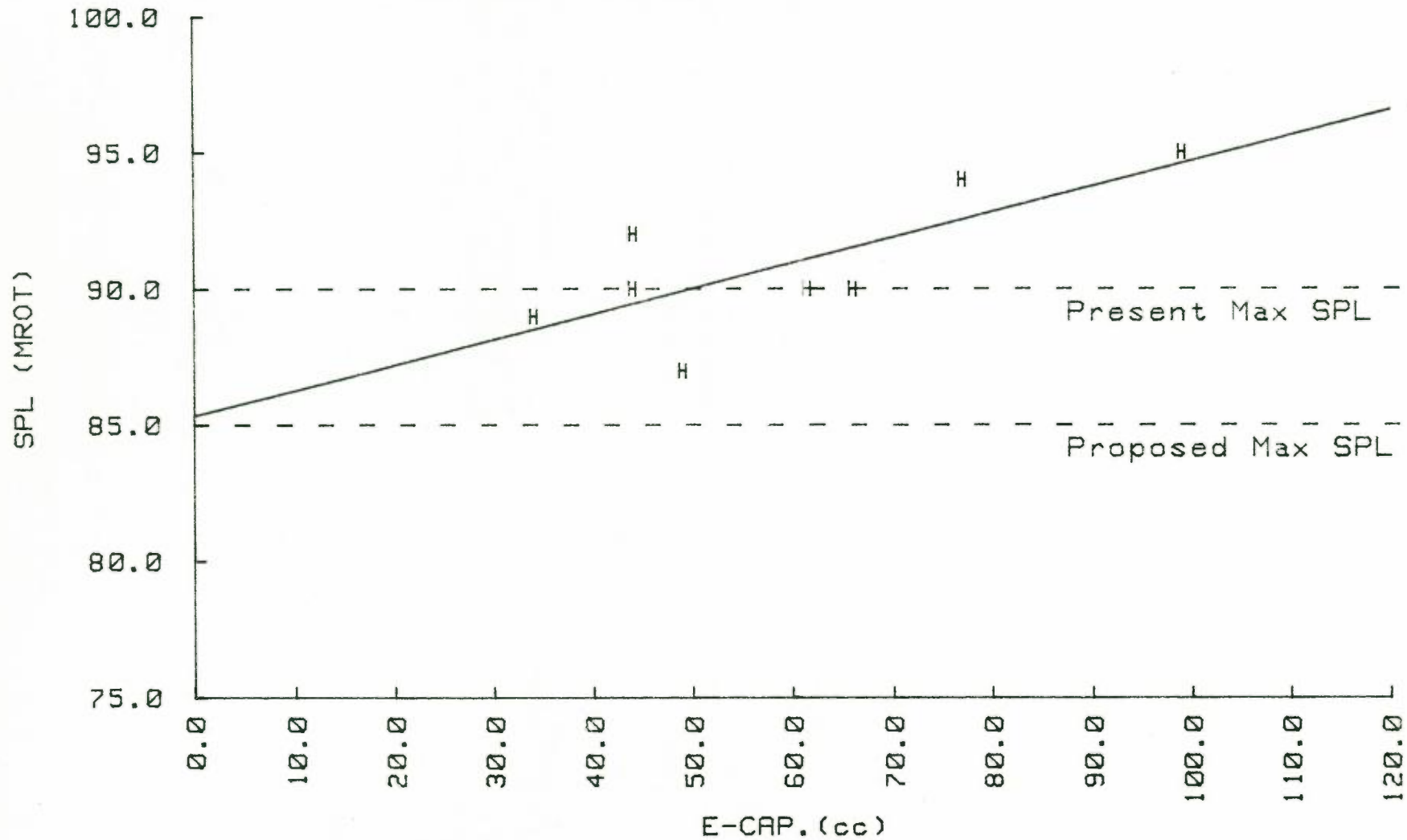
# JONSERED CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



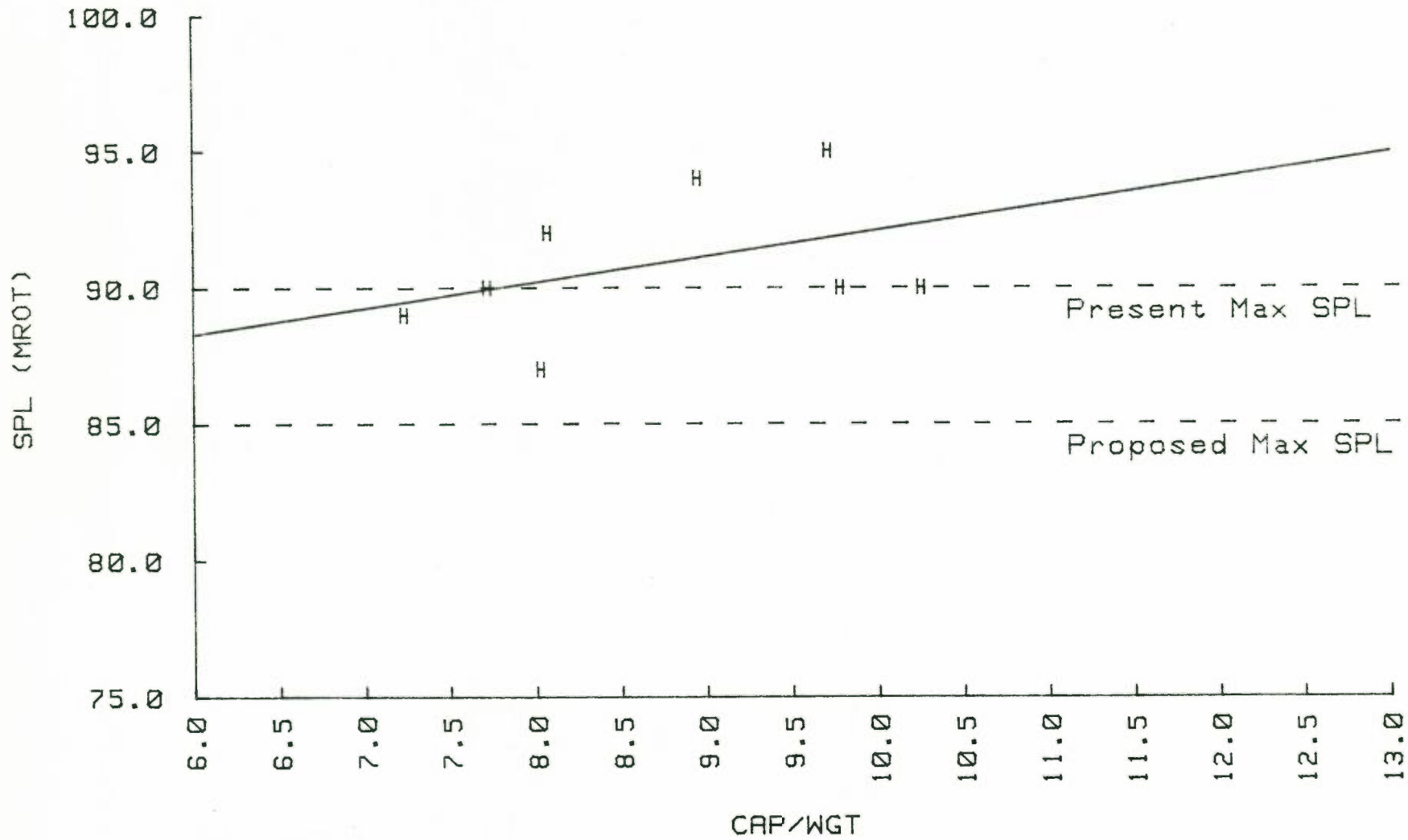
HUSQVARNA CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



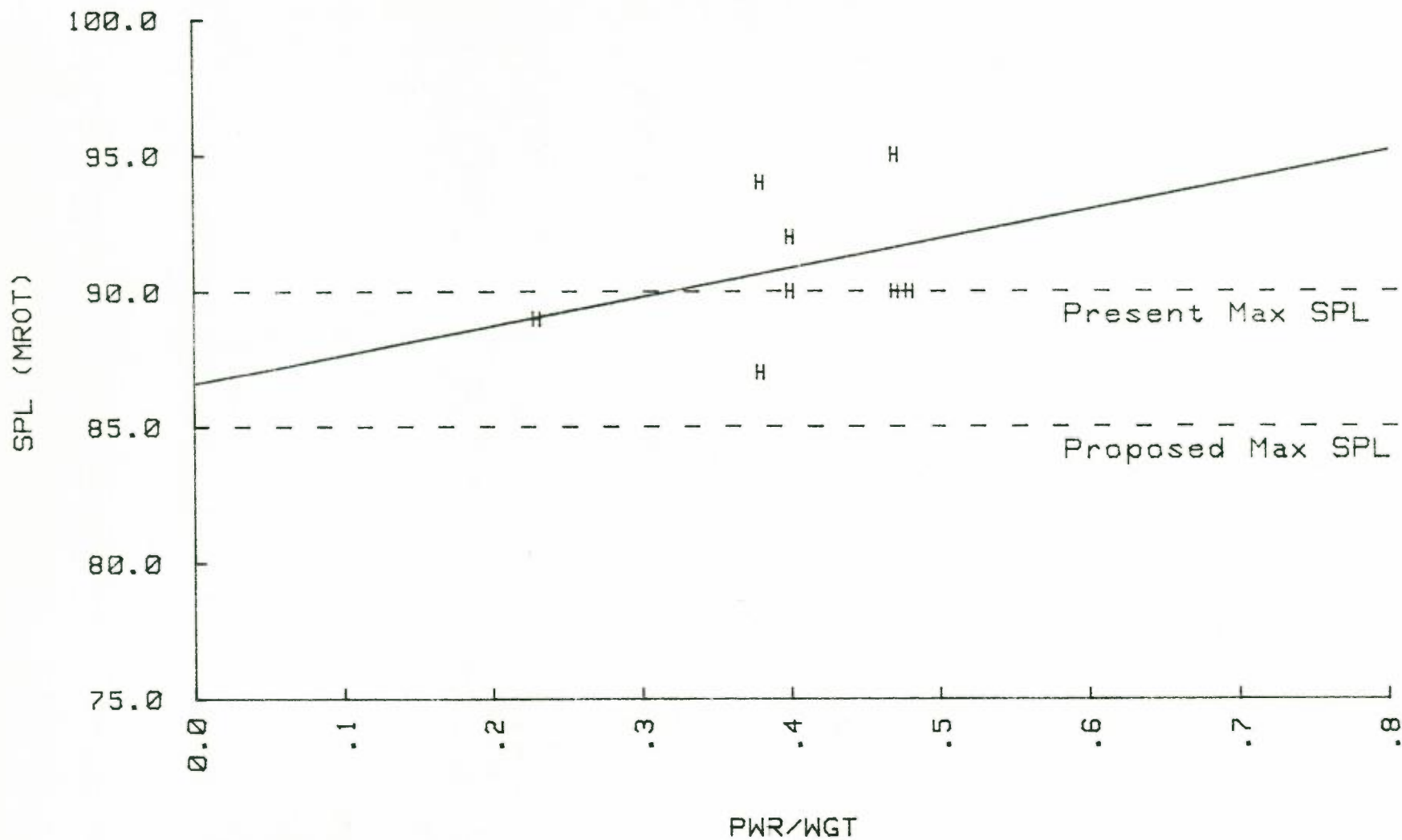
HUSQVARNA CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



HUSQVARNA CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

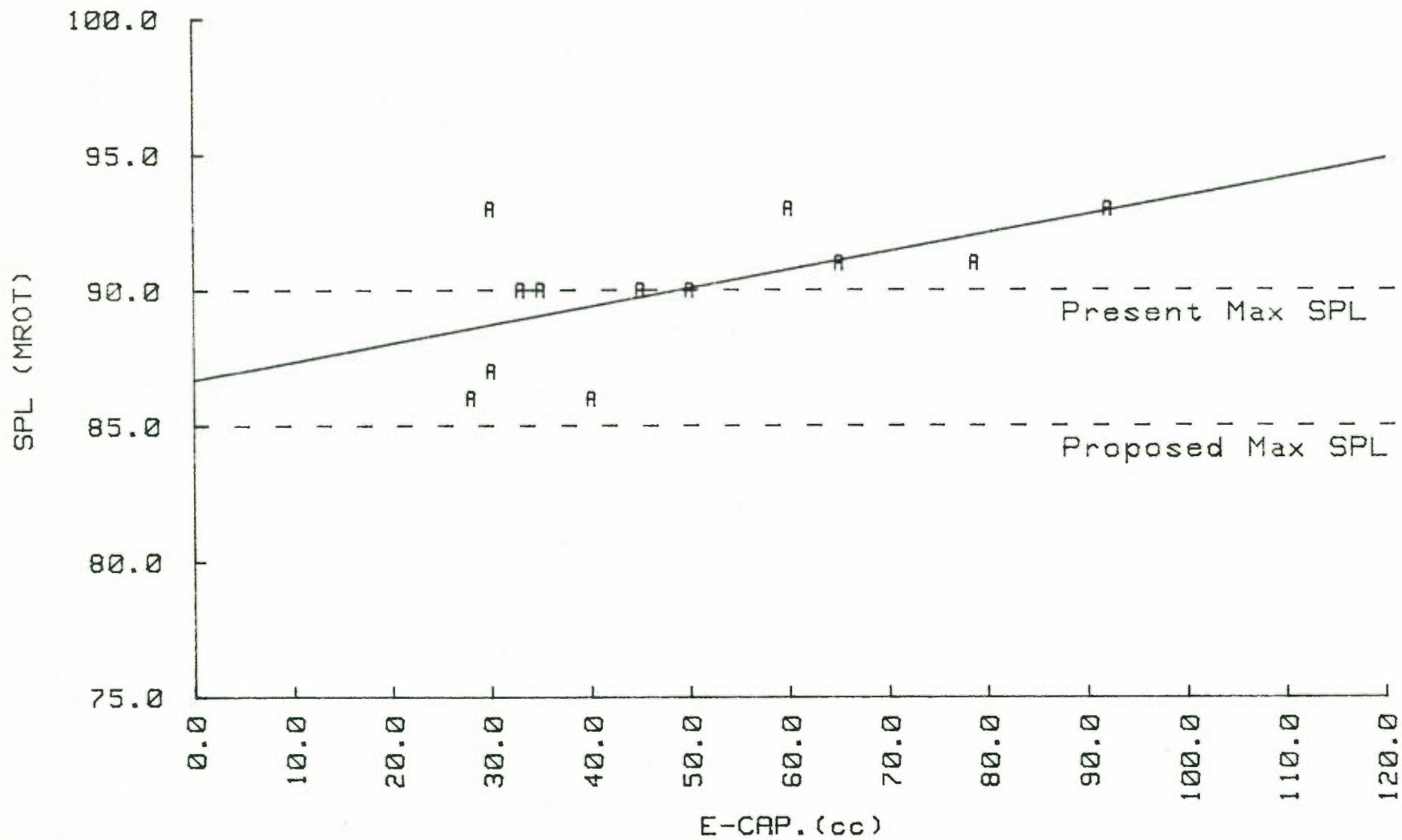
SPL (MROT) vs PWR/WGT





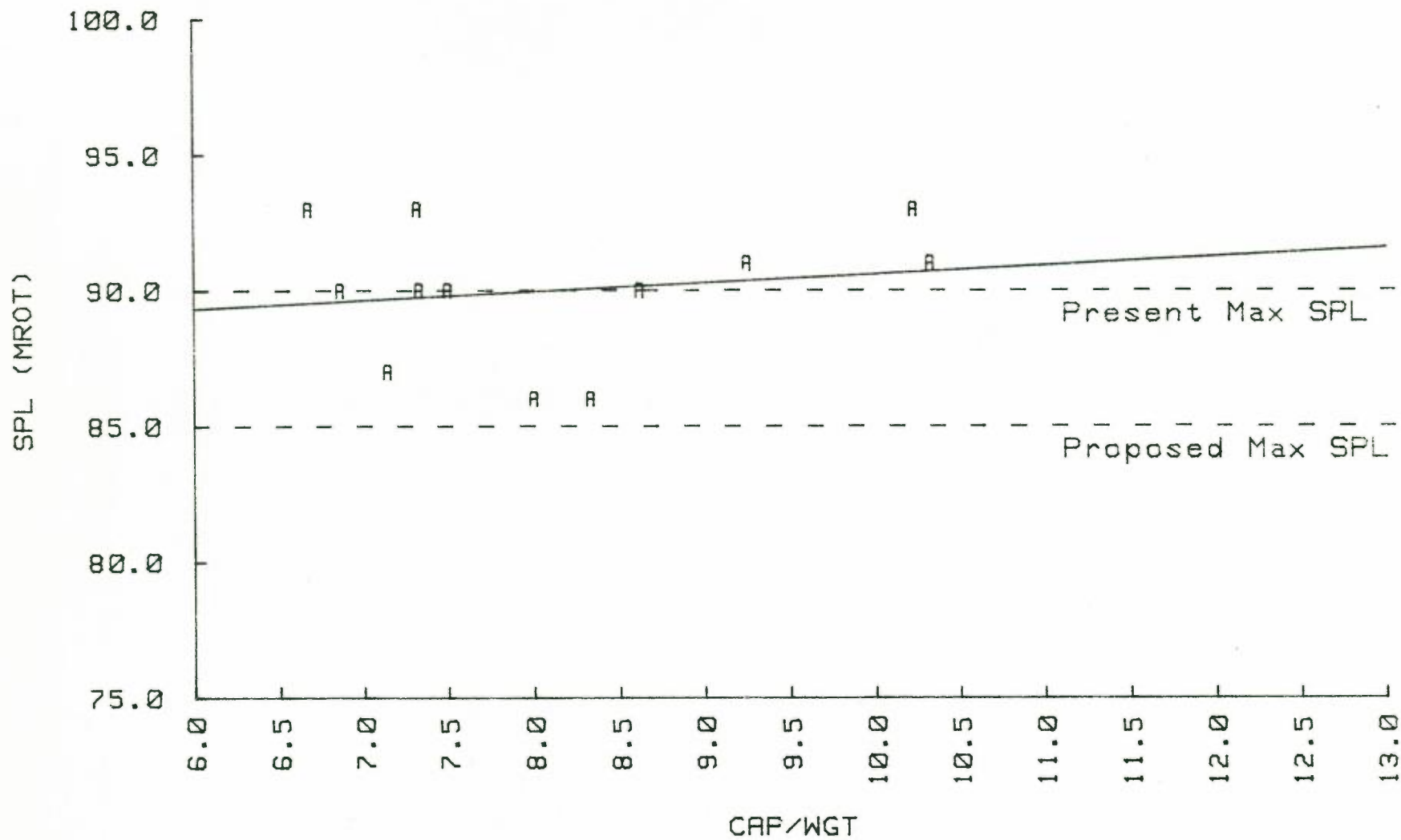
# ARIENS ECHO CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

## SPL (MROT) vs E-CAP. (cc)



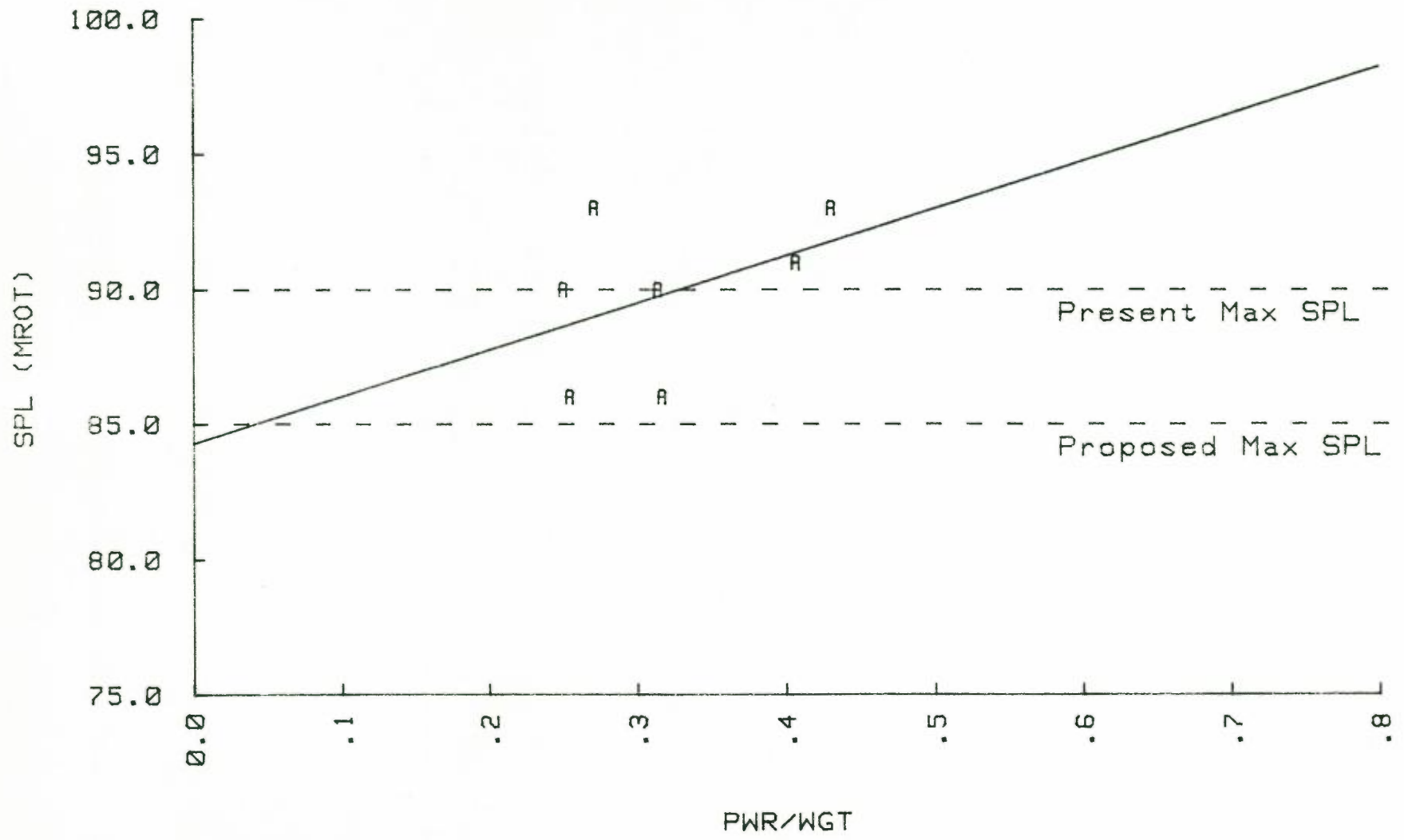
ARIENS ECHO CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



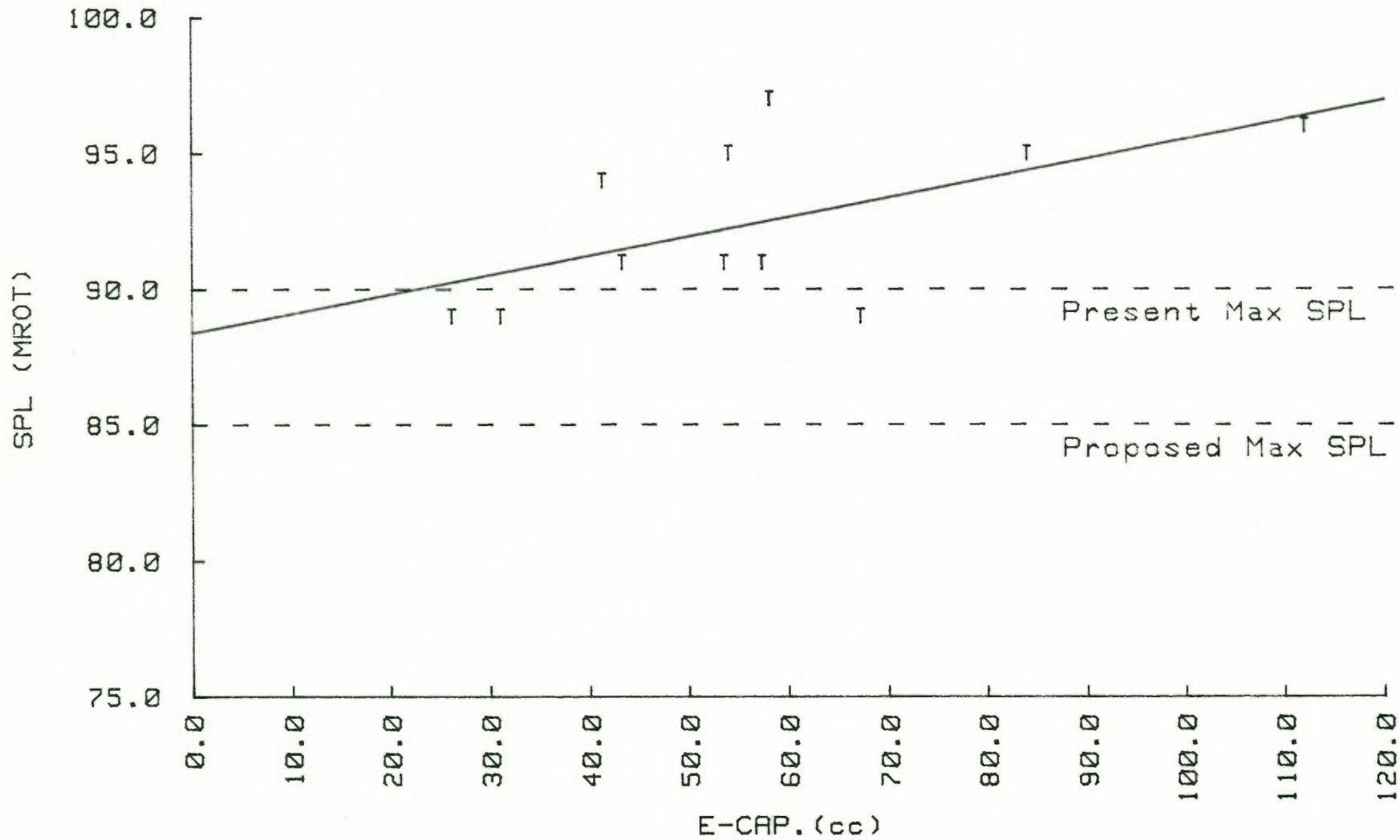
ARIENS ECHO CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



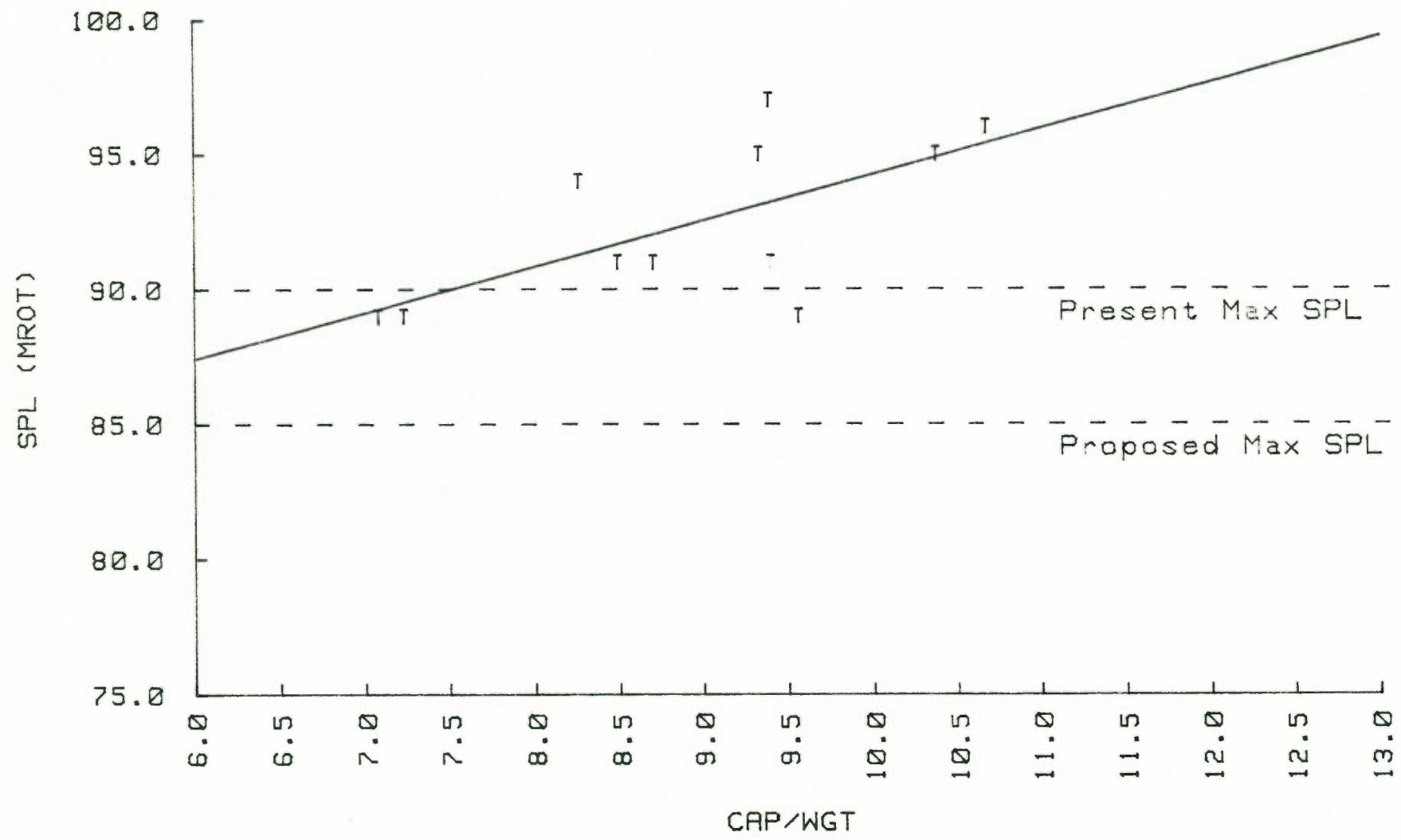
# HOMELITE CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

## SPL (MROT) vs E-CAP. (cc)



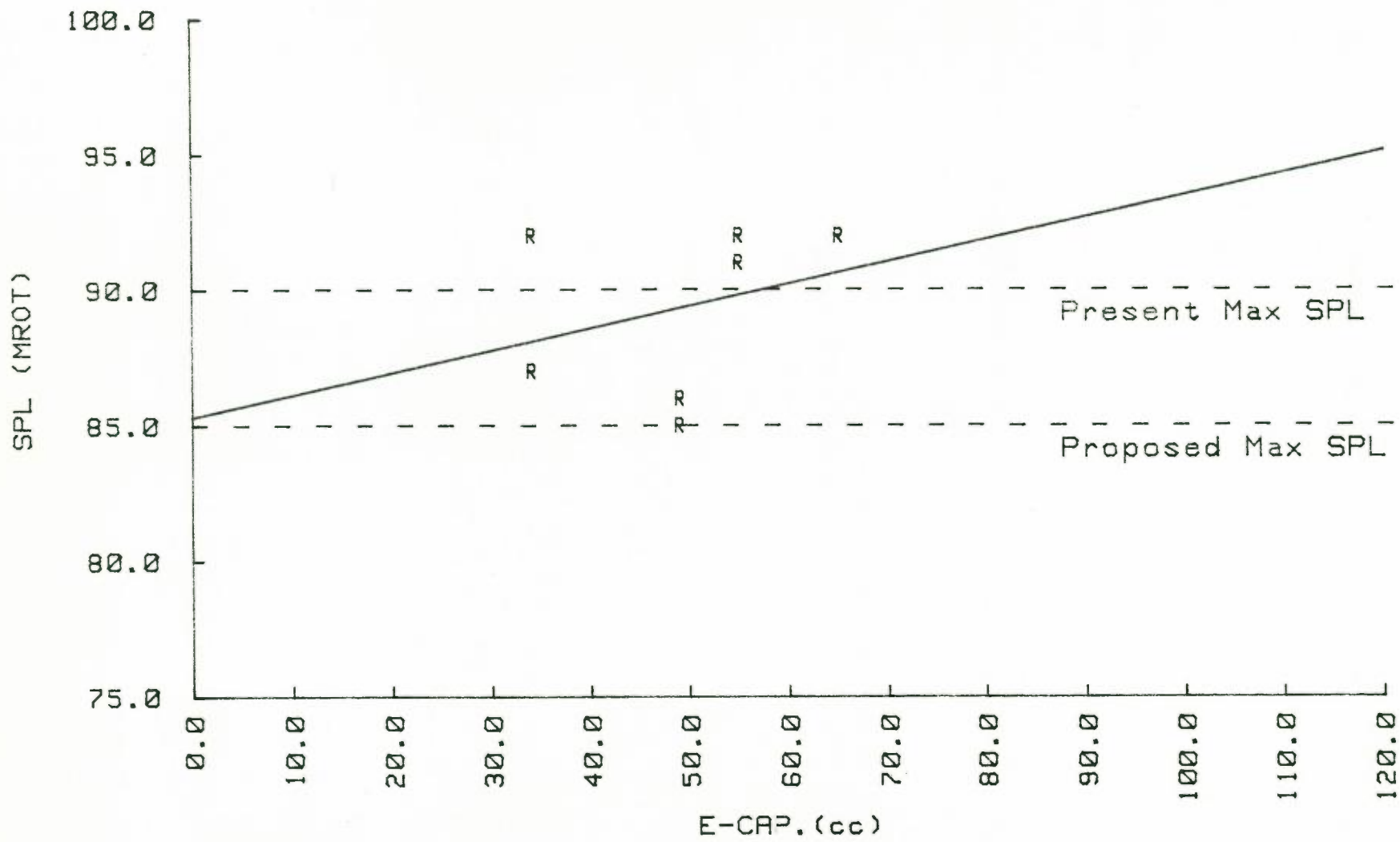
# HOMELITE CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



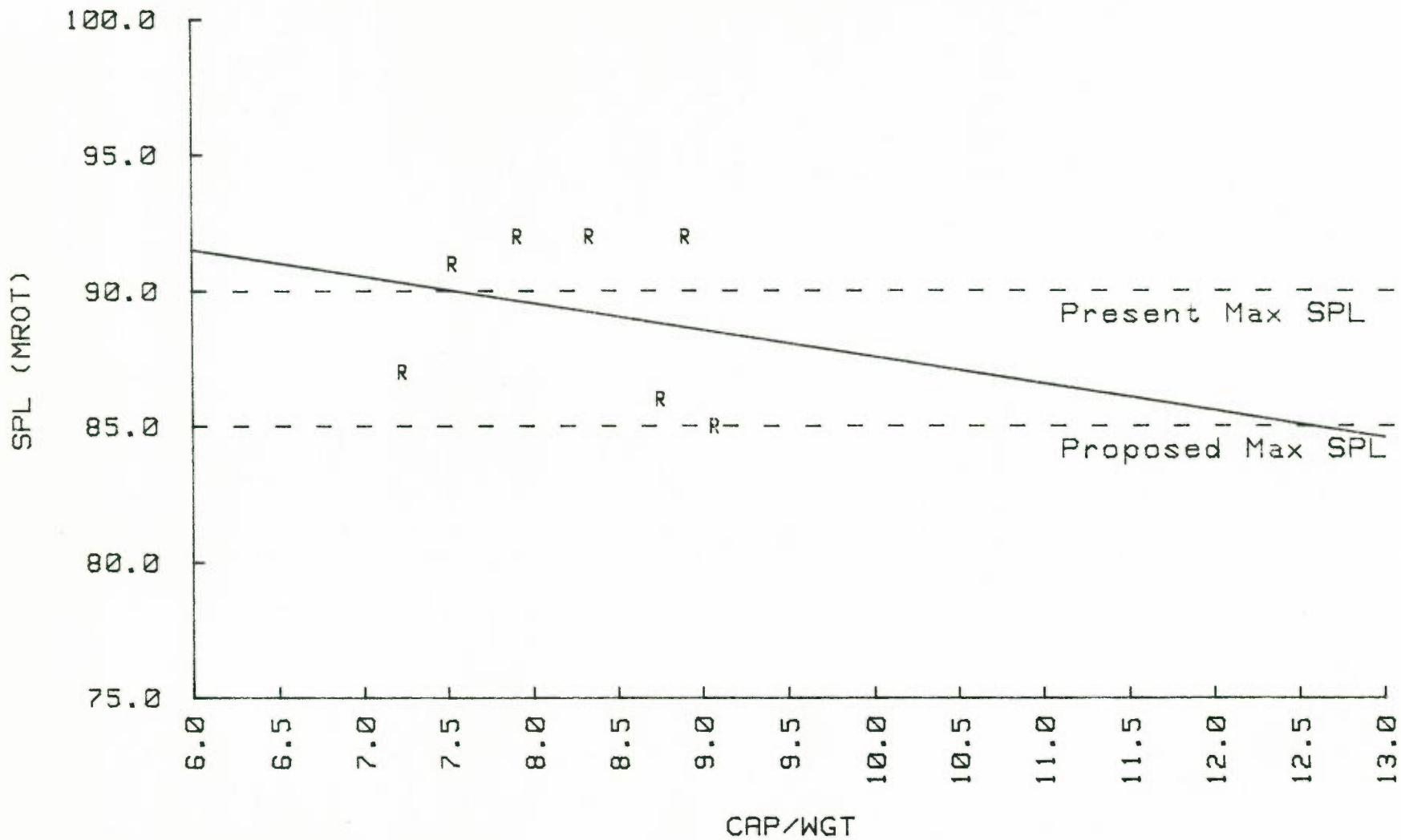
PARTNER CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



PARTNER CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

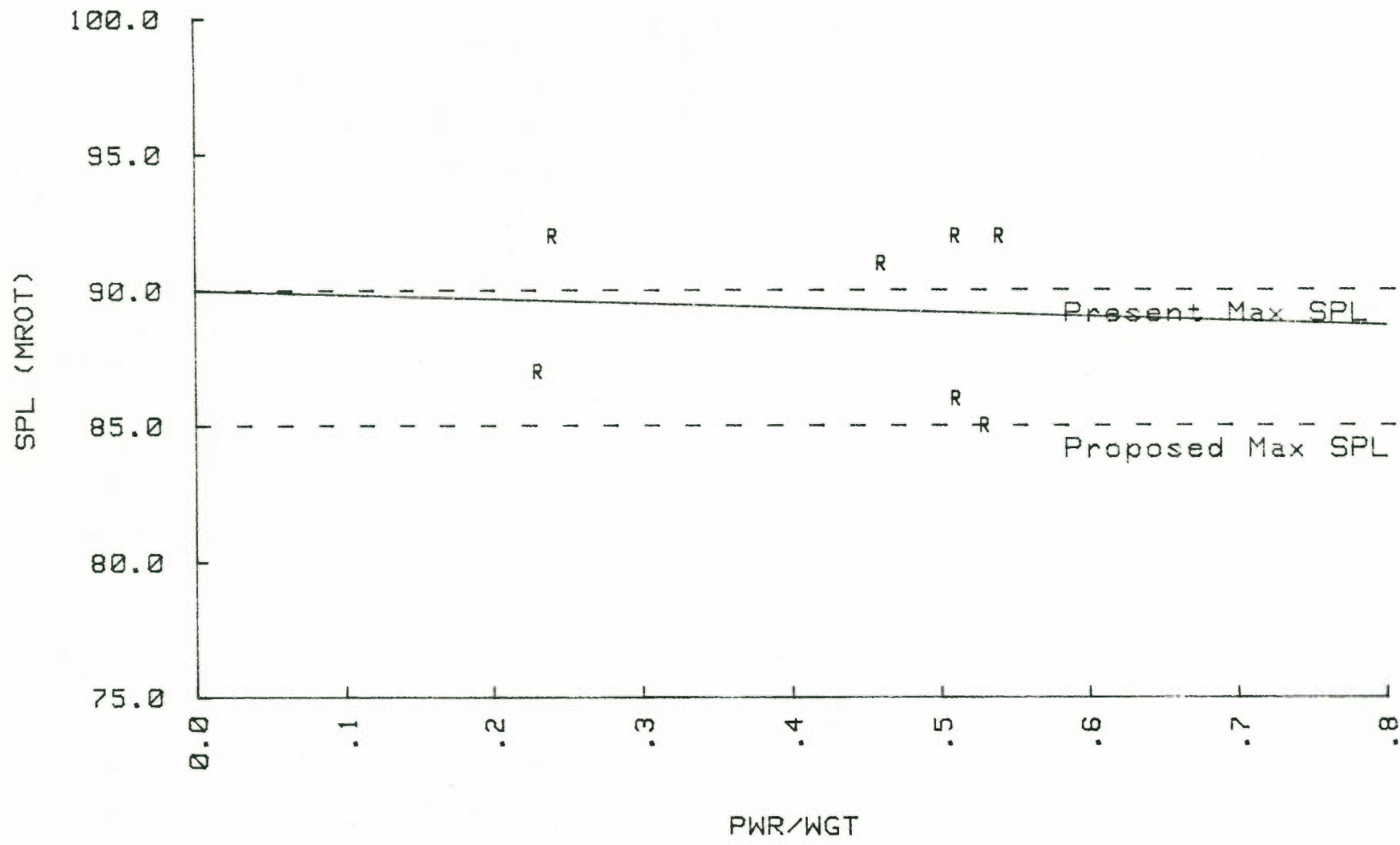
SPL (MROT) vs CAP/WGT





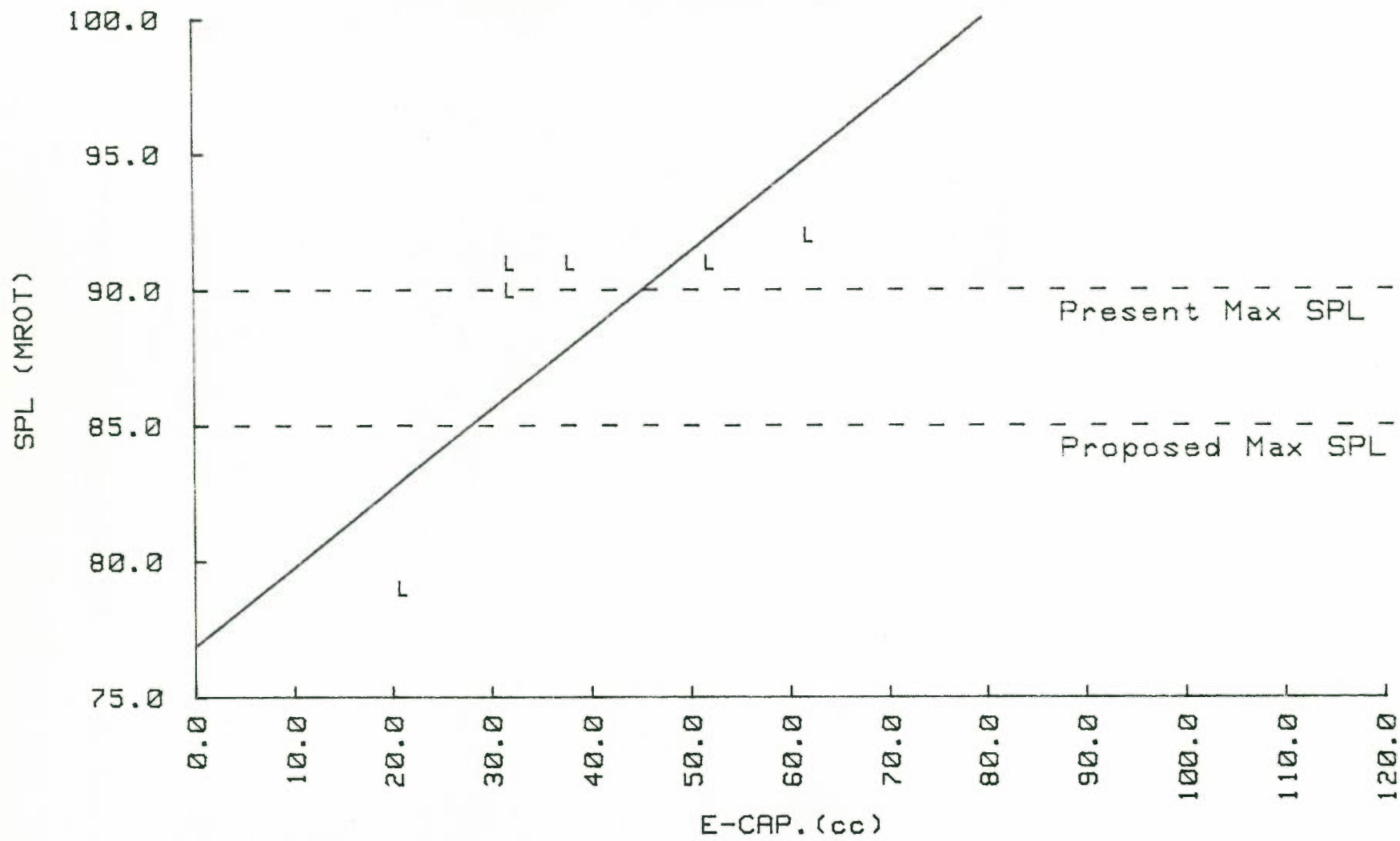
PARTNER CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



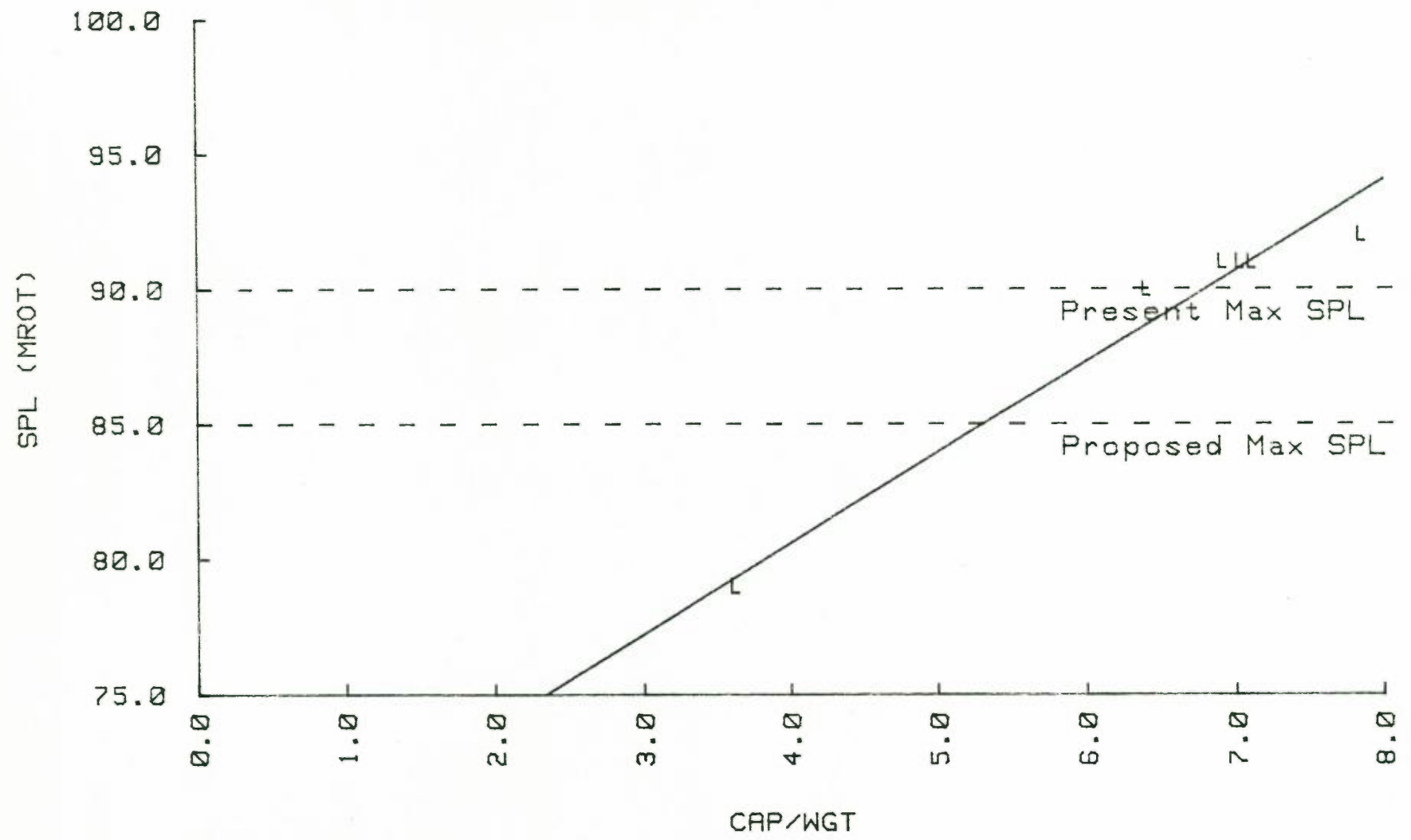
# SOLO CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



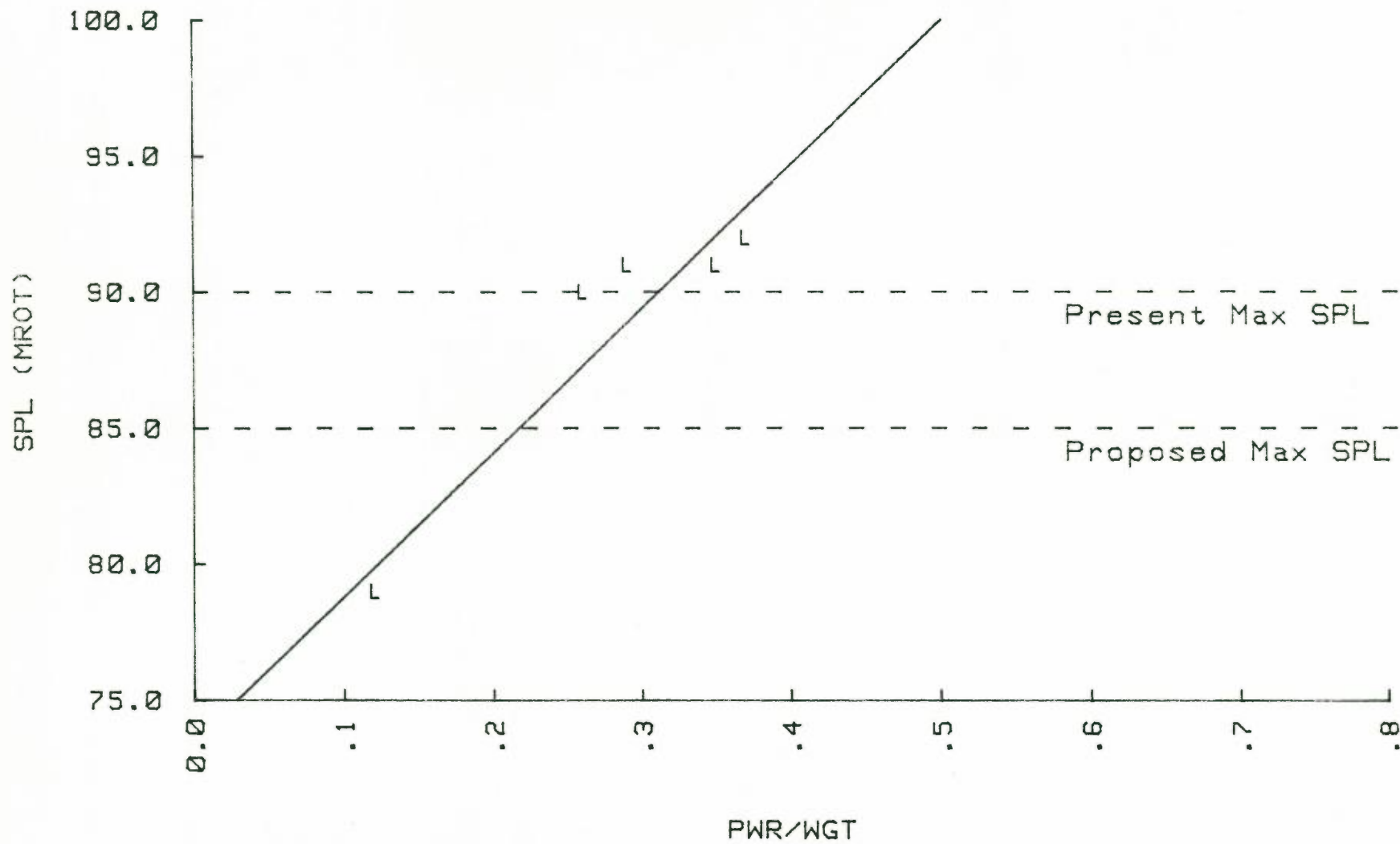
# SOLO CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



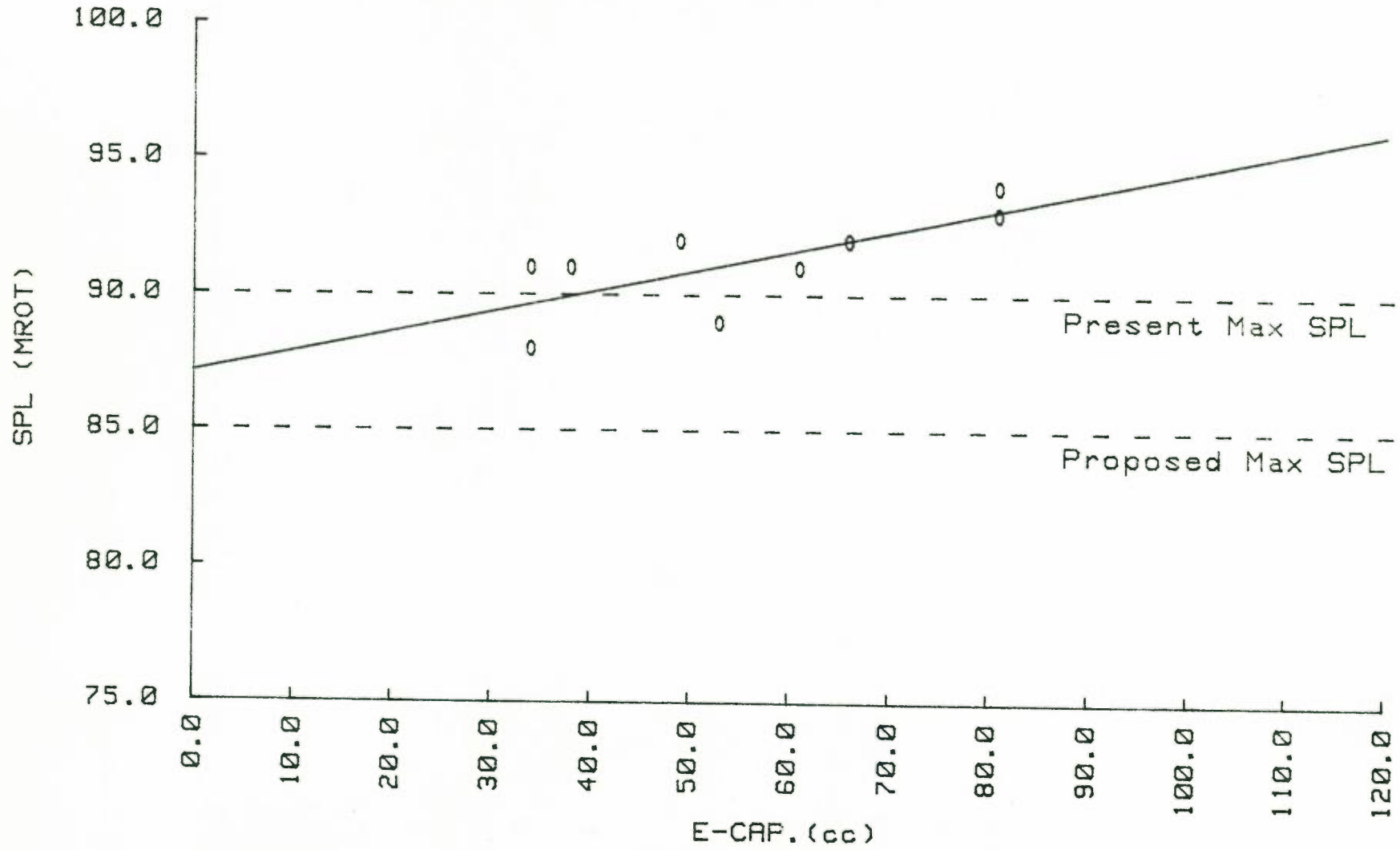
SOLO CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



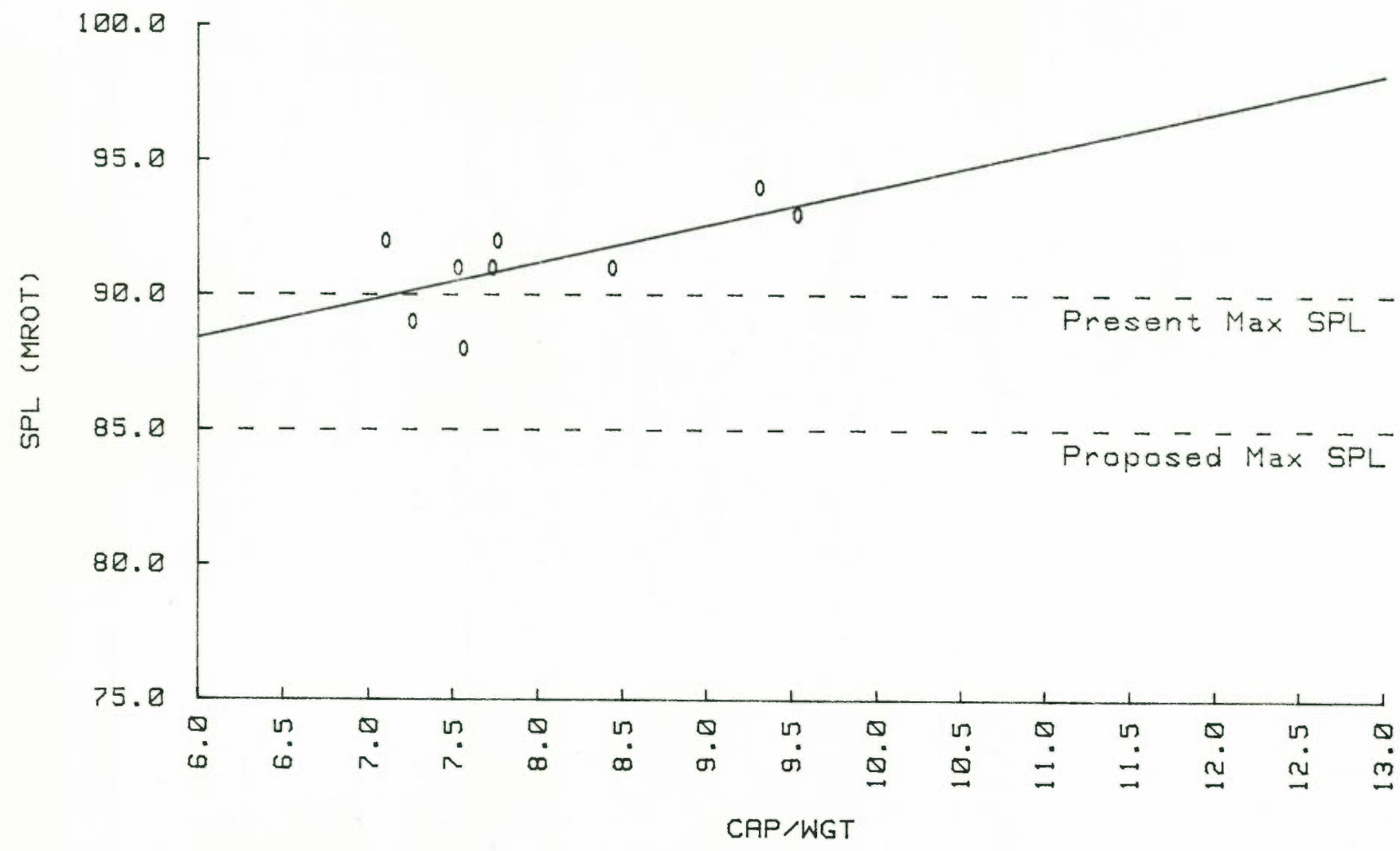
OLEO MAC CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



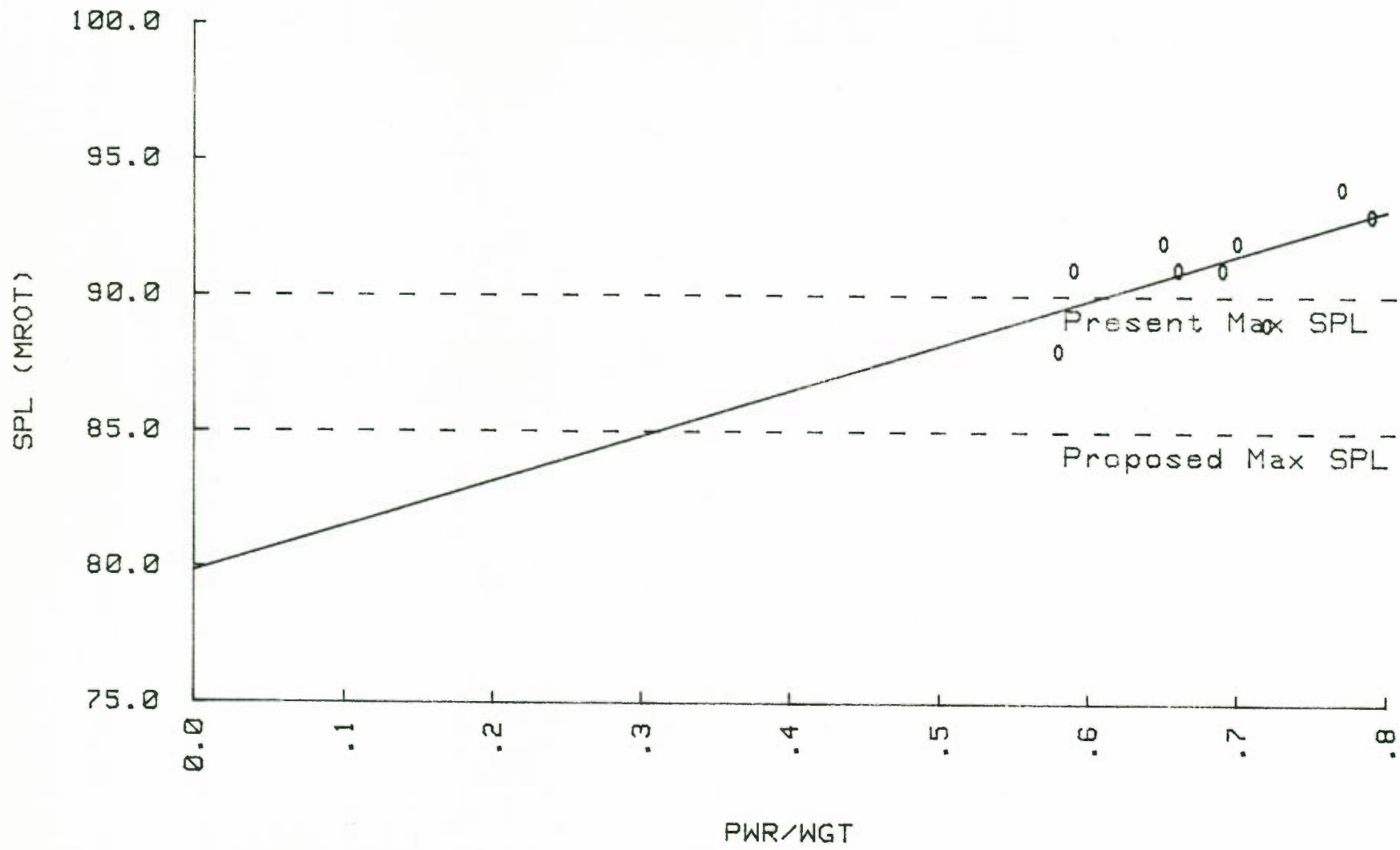
# OLEO MAC CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

## SPL (MROT) vs CAP/WGT



OLEO MAC CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

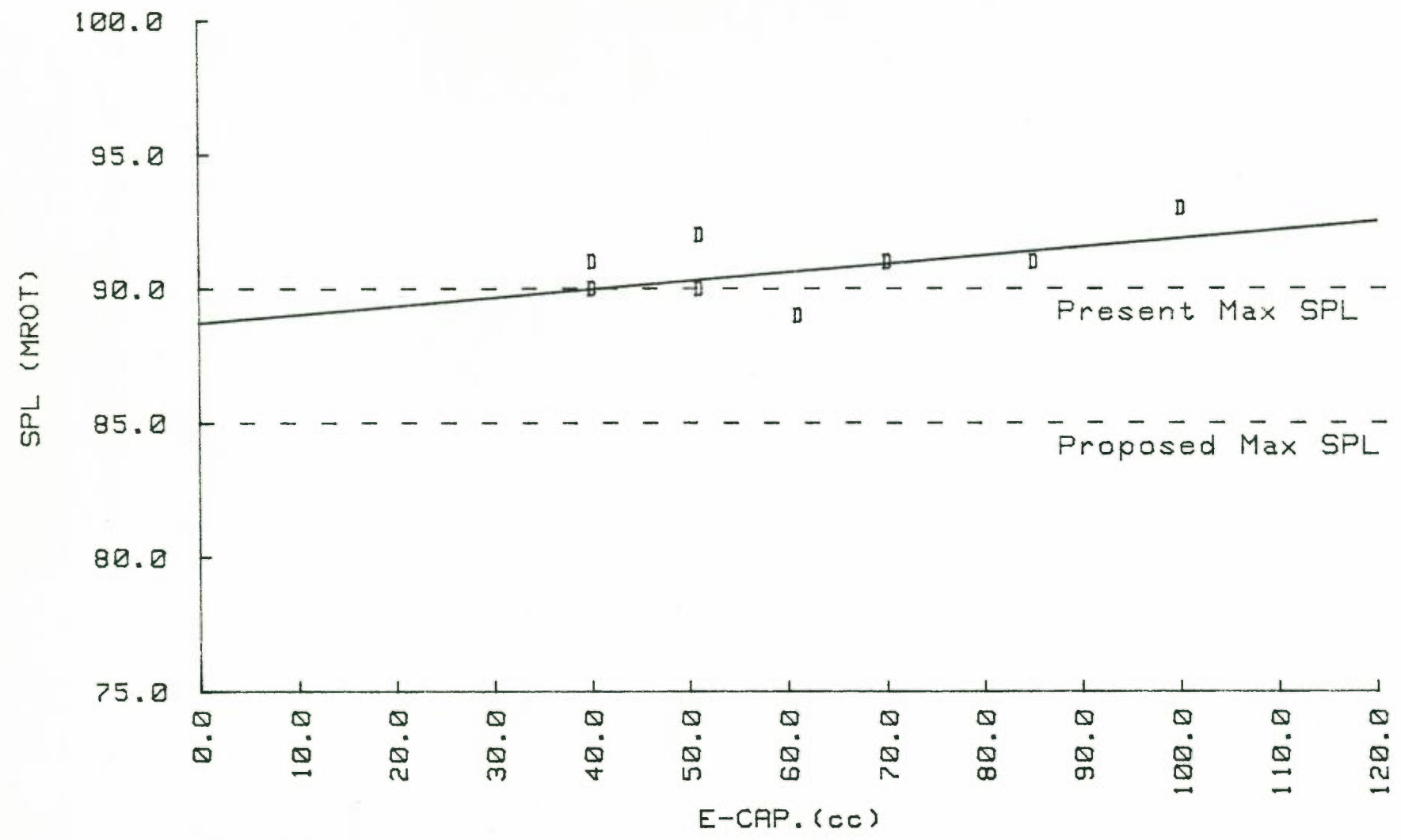
SPL (MROT) vs PWR/WGT





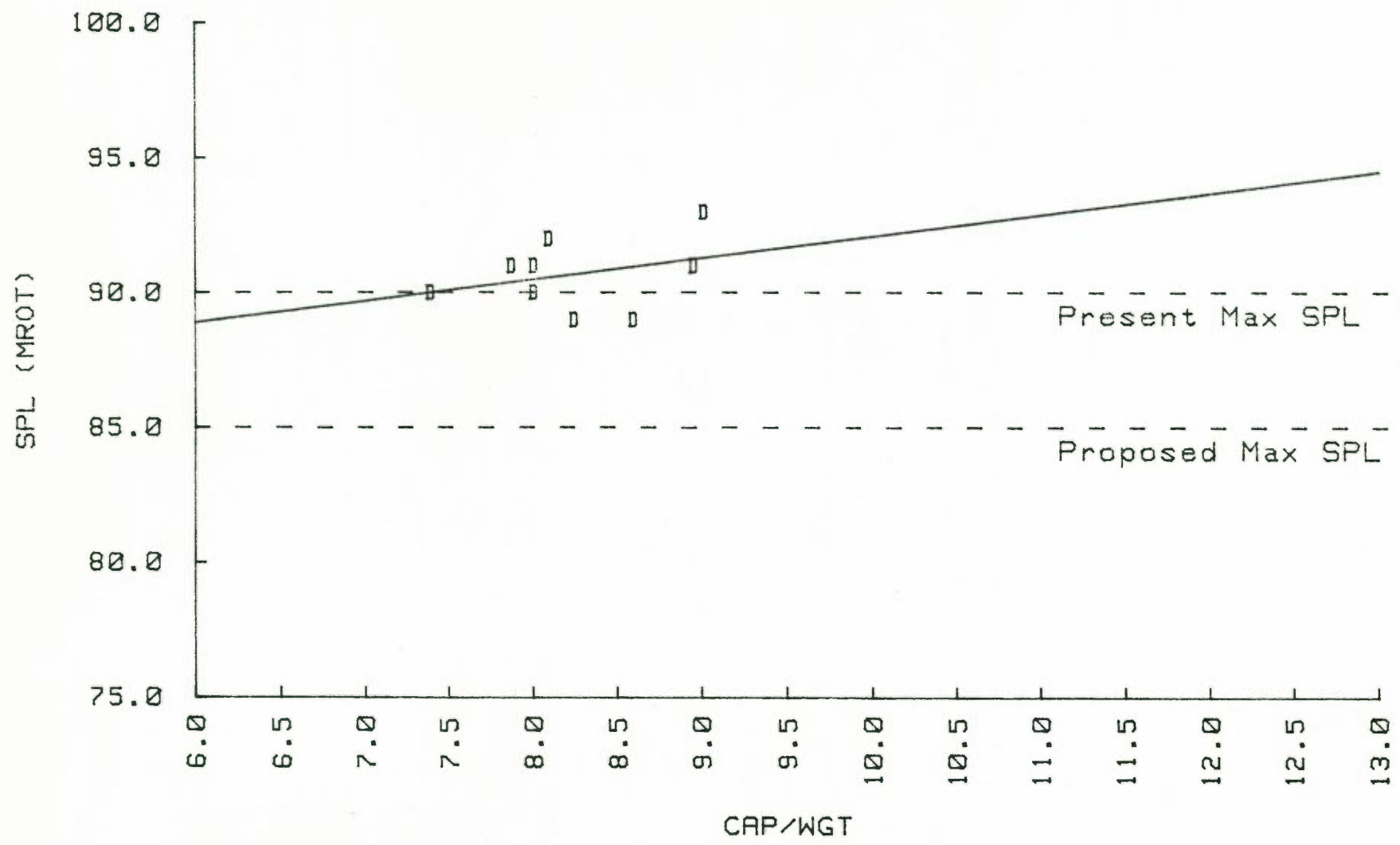
### SACHS DOLMAR CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs E-CAP. (cc)



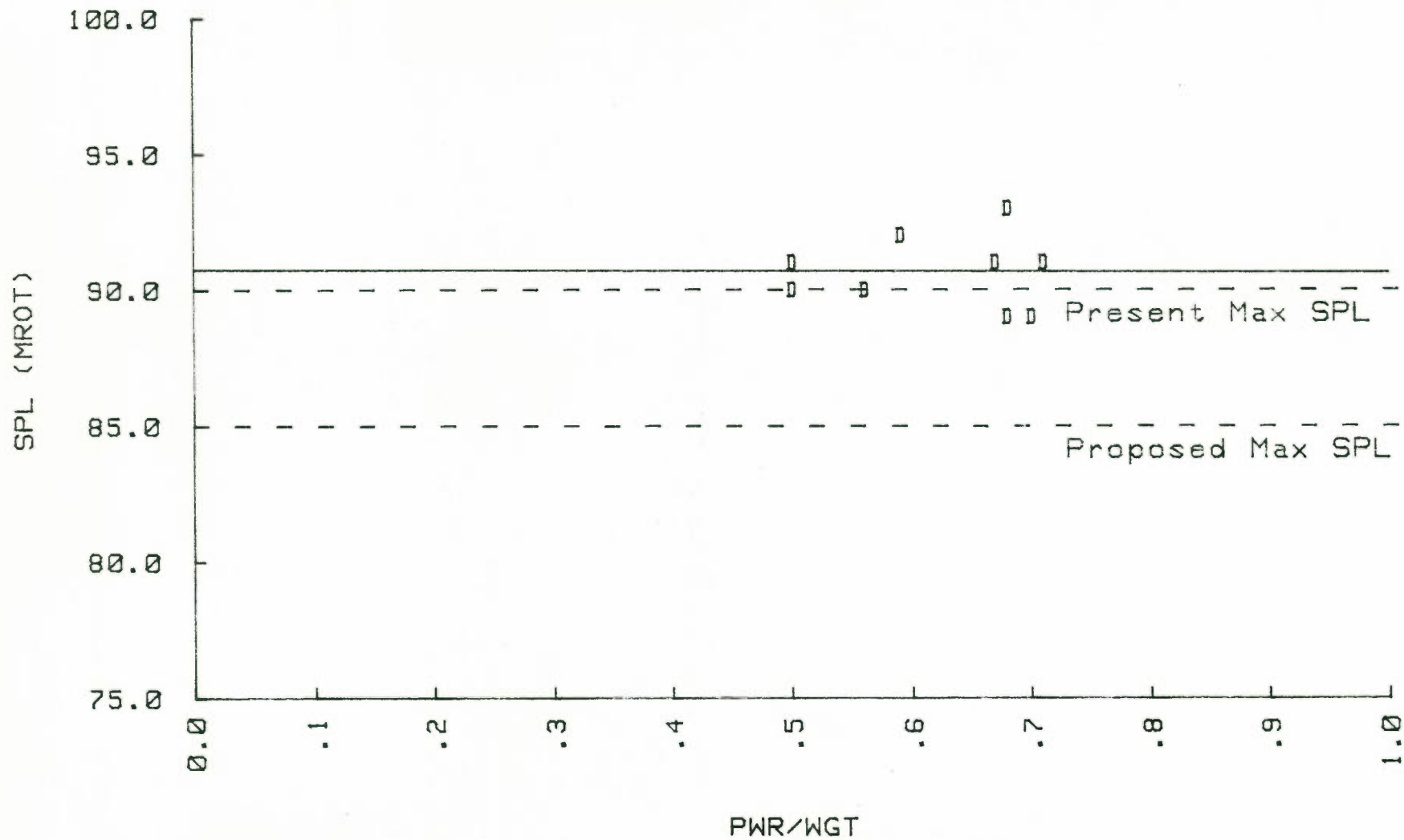
SACHS DOLMAR CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs CAP/WGT



SACHS DOLMAR CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

SPL (MROT) vs PWR/WGT



## S.P.C.C. Chainsaw Model File-Code Definition

BREAKDOWN:

6 Character Alpha Numeric

1ST CHARACTER: Date of test (Alpha) Identifier.

- (1) S - 2nd December, 1981
- (2) T - 3rd December, 1981
- (3) F - 4th December, 1981

2ND CHARACTER: Manufacturer (Alpha) Identifier

- |                      |                       |
|----------------------|-----------------------|
| (01) A - McCulloch   | (07) G - Homelite     |
| (02) M - Stihl       | (08) H - Partner      |
| (03) C - Poulan      | (09) B - Solo         |
| (04) K - Jonsereds   | (10) J - Oleo Mac     |
| (05) E - Husquarna   | (11) D - Sachs Dolmar |
| (06) F - Ariens Echo |                       |

3RD CHARACTER: Prior Testing (Numeric) Identifier

- 0 - Model not previously tested.
- 1 - Model previously tested.

4TH CHARACTER: Times previously tested (Numeric) Identifier

- |                             |                       |
|-----------------------------|-----------------------|
| 0 - Not previously tested.  | 7 - Tested 1978, 1980 |
| 3 - Tested 1975             | 8 - Tested 1980       |
| 4 - Tested 1975, 1978       | 9 - Tested 1978       |
| 5 - Tested 1975, 1978, 1980 |                       |

5TH & 6TH CHARACTERS: Model No. (Numeric) Identifier

01 to 13 Corresponding to Master Schedule.

E.G.

S	A	1	9	0 2
Date:	Manu- facturer:	Prior Testing	Times Tested	Model No Identifier
2.12.81	McCulloch			

MANUFACTURER'S MODEL AND S.P.L. LEVEL

Manufacturer/Distributor: Stihl

SPCC File No.	Model No.	SPL (MROT)
SM0001	009	86
SM0002	011 AV	86
SM1303	020 "S"	93
SM0004	076 AV	94
SM1805	010 AV	84
SM1806	032 AV/Q	88
SM1807	038 AV/Q	89
SM1808	085	92
SM1809	048 AV/Q	92
SM1510	051 AV/Q	94
SM1811	056 AVE/Q	94
SM1712	090 AV	94
SM1813	056 AVE/S	91

Manufacturer/Distributor: Poulan

SPCC File No.	Model No.	SPL (MROT) dB
SC1701	Micro 25	86
SC1402	Micro 25 CVA	85
SC1803	S 25 CVA	87
SC1804	3400	88
SC1805	3700	90
SC0006	4400	95
SC0007	4900	95
SC0008	5400	93
SC1809	6000S	92
SC0010	Micro 25	86
SC0011	S25DA	87

Manufacturer/Distributor: McCulloch

SPCC File No.	Model No.	SPL (MROT) dB
SA1901	MAC 120	89
SA1902	MAC 110	89
SA1903	PM 310	92
SA1904	PM 320	93
SA1805	PM 330	92
SA1906	PM 510	92
SA1907	PM 610	90
SA1908	PM 650	92
SA1809	PM 700	98
SA1810	PM 800	93
SA1911	PM 1000	94
SA0012	PM 120-A	89
SA0013	PM 510-A	91
SA0014	PM 310-A	89

## Manufacturer Distributer: Jonsereds

SPCC File No.	Model No.	SPL (MROT) dB
TK1701	361	94
TK1702	452N	91
TK1703	495P	89
TK1504	621	91
TK1805	70 E/B	92
TK1806	910 E/B	95
TK0007	520	92
TK0008	1020	95

## Manufacturer/Distributer: Husqvarna

SPCC File No.	Model No.	SPL (MROT) dB
TE1801	Husky STD	-
TE1802	Husky 34 DLX	89
TE1803	44 P	92
TE1804	44 SE	90
TE1705	61 P	90
TE1706	266	90
TE1707	480 CD	94
TE1708	2100 CD	95
TE1709	50 R	87

## Manufacturer/Distributer: Ariens Echo

SPCC File No.	Model No.	SPL (MROT) dB
TF1801	280 E	86
TF1702	302	93
TF1803	400 EVL	86
TF1804	650 EVL	91
TF1805	750 VL	91
TF1806	900 EVL	93
TF1907	315	87
TF1808	315 VL	90
TF1909	452 VL	90
TF1910	500 VL	90
TF1811	602	-
TF0012	602 VL	93
TF0013	330 EVL	90



Manufacturer/Distributor: Homelite

SPCC File No.	Model No.	SPL (MROT) dB
TG1501	X L2	89
TG1802	VI Super 2 SL	89
TG1703	150	91
TG1704	SEZ	94
TG1705	XL12	95
TG1706	SXLAØ	97
TG1707	360 SL	91
TG1808	550 SL	95
TG1809	330 SL	91
TG0010	410 SL	89
TG0011	750 SL	96

Manufacturer/Distributor: Partner

SPCC File No.	Model No.	SPL (MROT) dB
TH1801	S50	92
TH1802	S55	91
TH0003	500	85
TH0004	5000	86
TH0005	S65	92
TH0006	1613	92
TH0007	1616	87

Manufacturer/Distributor: Solo

SPCC File No.	Model No.	SPL (MROT) dB
FB1701	600	91
FB1702	605	90
FB1703	606	91
FB1704	616	91
FB1705	650	92
FB0006	103	79
FB0007	103	79



Manufacturer/Distributor: Oleo Mac

SPCC File No.	Model No.	SPL (MROT) dB
FS1801	233	91
FS1802	240	91
FS1803	252F	92
FS1804	254F	89
FS1805	261	91
FS0006	482	94
FS0007	234F	88
FS0008	272	92
FS0009	481	93

Manufacturer/Distributor: Sachs Dolmar

SPCC File No.	Model No.	SPL (MROT) dB
FD1701	112	92
FD1802	114	90
FD1803	117	89
FD1704	119	89
FD1705	123	91
FD1806	133	91
FD1807	153	93
FD0008	105	90
FD0009	108	91

## STIHL CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : STL(M):H6

OBS#	FILE NO.	E-CAP. (cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP. (cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	1020001 300.00 86	37.00 1.00 .34	10000.00 373.40 11.56	3.20 84.00	1.10 83.00
2	1020002 400.00 86	41.00 1.00 .35	10000.00 373.40 10.25	4.00 84.00	1.40 84.00
3	1021303 400.00 93	35.00 1.00 .45	12000.00 136.50 9.21	3.80 91.00	1.70 89.00
4	1020004 530.00 94	111.00 2.00 .57	10000.00 1687.40 12.47	8.90 94.00	5.10 90.00
5	1021805 400.00 84	37.00 1.00 .28	10000.00 373.40 9.49	3.90 83.00	1.10 81.00
6	1021806 400.00 88	51.00 2.00 .48	12000.00 705.60 9.44	5.40 86.00	2.60 87.00
7	1021807 400.00 89	62.00 2.00 .48	12000.00 798.66 10.00	6.20 89.00	3.00 89.00
8	1021808 430.00 92	56.00 2.00 .37	10000.00 594.00 8.36	6.70 87.00	2.50 92.00
9	1021809 400.00 92	76.00 2.00 .49	12000.00 724.47 10.27	7.40 91.00	3.60 90.00
10	1021510 530.00 94	89.00 2.00 .51	10000.00 1687.40 10.47	8.50 93.00	4.30 87.00
11	1021811 400.00 94	81.00 2.00 .52	11000.00 1228.50 10.25	7.90 91.00	4.10 90.00
12	1021712 630.00 94	137.00 2.00 .50	8000.00 950.00 10.87	12.60 88.00	6.30 93.00

13	1021813	87.00	11000.00	7.90	4.50
	400.00	2.00	1228.50	89.00	89.00
	91	.57	11.01		

## POULAN CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : POU(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	1031701 245.00 86	33.00 0.00 0.00	9600.00 202.42 9.68	3.41 84.00	0.00 86.00
2	1031402 355.00 85	33.00 0.00 0.00	9600.00 202.42 9.09	3.63 84.00	0.00 84.00
3	1031803 406.00 87	38.00 0.00 0.00	10000.00 202.42 8.82	4.31 86.00	0.00 86.00
4	1031804 406.00 88	54.00 0.00 0.00	10500.00 496.76 8.80	6.13 86.00	0.00 87.00
5	1031805 406.00 90	61.00 0.00 0.00	10500.00 496.76 9.95	6.13 87.00	0.00 90.00
6	1030006 420.00 95	69.00 0.00 0.00	9600.00 790.70 9.49	7.27 94.00	0.00 92.00
7	1030007 508.00 95	77.00 0.00 0.00	9600.00 868.22 10.09	7.63 93.00	0.00 91.00
8	1030008 609.00 93	85.00 0.00 0.00	9600.00 868.22 11.27	7.54 93.00	0.00 90.00
9	1031809 635.00 92	100.00 0.00 0.00	9600.00 909.58 11.01	9.08 90.00	0.00 92.00
10	1030010 304.00 86	33.00 0.00 0.00	9600.00 -10000000.00 9.68	3.41 83.00	0.00 83.00
11	1030011 406.00 87	38.00 0.00 0.00	10500.00 -10000000.00 8.82	4.31 84.00	0.00 84.00

## McCULLOCH CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

Name of data file : MCL(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	2011901 304.00 89	32.00 1.00 .29	10000.00 119.39 7.11	4.50 88.00	1.30 86.00
2	2011902 254.00 89	32.00 1.00 .30	10000.00 119.39 7.27	4.40 90.00	1.30 88.00
3	2011903 304.00 93	35.00 1.00 .30	10000.00 119.39 6.60	5.20 90.00	1.60 91.00
4	2011904 356.00 93	35.00 1.00 .30	10500.00 119.39 6.60	5.30 90.00	1.60 91.00
5	2011904 406.00 92	35.00 1.00 .29	10500.00 119.39 6.25	5.60 90.00	1.60 89.00
6	2011906 406.00 92	38.00 1.00 .28	10000.00 119.39 6.67	5.70 91.00	1.60 90.00
7	2011907 406.00 90	60.00 2.00 .32	10000.00 1755.60 6.82	8.80 87.00	2.00 87.00
8	2011908 406.00 92	60.00 2.00 .34	10500.00 1755.60 6.82	8.80 90.00	3.00 88.00
9	2011909 406.00 98	70.00 2.00 .44	10000.00 566.54 10.00	7.00 92.00	3.10 95.00
10	2011810 500.00 93	82.00 2.00 .56	10500.00 3015.87 10.51	7.80 89.00	4.40 88.00
11	2011911 608.00 94	99.00 2.00 .46	10000.00 900.00 10.00	9.90 88.00	4.60 91.00
12	2010012 304.00 89	32.00 1.00 .29	10000.00 119.39 7.11	4.50 86.00	1.30 85.00

13	2010013	38.00	10000.00	5.70	1.60
	406.00	1.00	119.39	88.00	84.00
	91	.28	6.67		
14	2010014	35.00	10000.00	5.20	1.60
	304.00	1.00	119.39	87.00	85.00
	89	.31	6.73		



## JONSEREDS CHAINSAWS - TESTED 2ND. TO 4TH. DECEMBER 1981

Name of data file : JON(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	2041701 0.00 94	34.00 1.00 .28	10000.00 87.50 7.91	4.30 94.00	1.19 91.00
2	2041702 0.00 91	44.30 1.00 .29	11500.00 425.00 6.33	7.00 87.00	2.01 87.00
3	2041703 0.00 89	49.00 2.00 .29	11000.00 450.00 6.28	7.80 88.00	2.24 89.00
4	2041504 0.00 91	56.00 2.00 .35	11000.00 654.50 7.57	7.40 88.00	2.61 91.00
5	2041805 0.00 92	69.00 2.00 .35	11000.00 654.50 8.73	7.90 91.00	2.80 90.00
6	2041806 0.00 95	90.00 2.00 .56	11000.00 833.63 13.24	6.80 92.00	3.80 95.00
7	2040007 0.00 92	49.00 2.00 .47	11500.00 247.50 9.61	5.10 88.00	2.39 91.00
8	2040008 0.00 95	100.00 2.00 .43	11000.00 1202.50 9.71	10.30 93.00	4.48 92.00



## ARIENS ECHO CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : ARI(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	2061801 254.00 86	28.00 1.00 .25	10000.00 0.00 8.00	3.50 85.00	.89 81.00
2	2061702 356.00 93	30.00 1.00 -10000000.00	10000.00 0.00 6.67	4.50 92.00	-10000000.00 89.00
3	2061803 356.00 86	40.00 2.00 .32	10000.00 0.00 8.33	4.80 84.00	1.52 82.00
4	2061804 508.00 91	65.00 2.00 .41	10000.00 0.00 10.32	6.30 89.00	2.56 86.00
5	2061805 508.00 91	78.60 2.00 -10000000.00	10000.00 0.00 9.25	8.50 90.00	-10000000.00 88.00
6	2061806 635.00 93	92.00 2.00 .43	10000.00 0.00 10.22	9.00 90.00	3.87 92.00
7	2061907 305.00 87	30.00 1.00 -10000000.00	10000.00 0.00 7.14	4.20 86.00	-10000000.00 81.00
8	2061908 356.00 90	35.00 1.00 -10000000.00	10000.00 0.00 6.86	5.10 88.00	-10000000.00 84.00
9	2061909 406.00 90	45.00 2.00 .25	10000.00 0.00 7.50	6.00 89.00	1.50 85.00
10	2061910 406.00 90	50.00 2.00 .31	10000.00 0.00 8.62	5.80 89.00	1.82 86.00
11	2060012 508.00 93	60.00 2.00 .27	10000.00 0.00 7.32	8.20 90.00	2.22 88.00
12	2060013 356.00 90	33.00 2.00 -10000000.00	10000.00 0.00 7.33	4.50 87.00	-10000000.00 86.00

## HUSQVARNA CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : HUQ(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	2051802 350.00 89	34.00 1.00 .23	10000.00 96.25 7.23	4.70 86.00	1.10 86.00
2	2051803 400.00 92	44.00 2.00 .40	11500.00 331.50 8.07	5.45 87.00	2.20 90.00
3	2051804 325.00 90	44.00 2.00 .40	12000.00 331.50 7.72	5.70 86.00	2.30 86.00
4	2051705 400.00 90	61.50 2.00 .48	11500.00 552.50 10.25	6.00 88.00	2.90 87.00
5	2051706 450.00 90	66.00 2.00 .47	12000.00 552.50 9.78	6.75 87.00	3.20 85.00
6	2051707 450.00 94	77.00 2.00 .38	11500.00 350.00 8.95	8.60 94.00	3.30 94.00
7	2051708 400.00 95	99.00 2.00 .47	10000.00 350.00 9.71	10.20 94.00	4.80 95.00
8	2051709 400.00 87	49.00 2.00 .38	10500.00 336.00 8.03	6.10 85.00	2.30 87.00

## HOMLITE CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : HOM(M):H6

OBS#	FILE NO. BAR LN(mm) SPL (MROT)	E-CAP.(cc) SAW TYPE PWR/WGT	R.P.M. EX CP.(cc) CAP/WGT	WGT. (kg) SPLX dB(A)	POWER (kw) SPLY dB(A)
1	2071501 300.00 89	26.20 0.00 0.00	8200.00 0.00 7.08	3.70 87.00	0.00 84.00
2	2071802 350.00 89	31.10 0.00 0.00	9600.00 0.00 7.23	4.30 88.00	0.00 86.00
3	2071703 400.00 91	43.30 0.00 0.00	10000.00 0.00 8.49	5.10 91.00	0.00 86.00
4	2071704 400.00 94	41.30 0.00 0.00	10000.00 0.00 8.26	5.00 94.00	0.00 89.00
5	2071705 400.00 95	54.10 0.00 0.00	10000.00 0.00 9.33	5.80 94.00	0.00 89.00
6	2071806 400.00 97	58.20 0.00 0.00	10000.00 0.00 9.39	6.20 94.00	0.00 89.00
7	2071707 400.00 91	57.40 0.00 0.00	11000.00 0.00 8.70	6.60 90.00	0.00 89.00
8	2071808 500.00 95	84.00 0.00 0.00	10500.00 0.00 10.37	8.10 93.00	0.00 90.00
9	2071809 400.00 91	53.60 0.00 0.00	10500.00 0.00 9.40	5.70 90.00	0.00 86.00
10	2070010 400.00 89	67.20 0.00 0.00	11000.00 0.00 9.56	7.03 88.00	0.00 88.00
11	2070011 600.00 96	112.00 0.00 0.00	10500.00 0.00 10.67	10.50 95.00	0.00 93.00

## PARTNER CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : PAR(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	2081801 457.00 92	55.00 2.00 .51	11000.00 482.13 8.33	6.60 89.00	3.36 90.00
2	2081802 457.00 91	55.00 2.00 .46	11000.00 482.13 7.53	7.30 88.00	3.36 90.00
3	2080003 330.00 85	49.00 2.00 .53	11000.00 281.25 9.07	5.40 84.00	2.90 85.00
4	2080004 330.00 86	49.00 2.00 .51	11000.00 281.25 8.75	5.60 80.00	2.90 83.00
5	2080005 457.00 92	65.00 2.00 .54	11000.00 482.13 8.90	7.30 91.00	3.97 92.00
6	2080006 356.00 92	34.00 1.00 .24	10000.00 81.25 7.91	4.30 92.00	1.10 87.00
7	2080007 406.00 87	34.00 1.00 .23	10000.00 135.00 7.23	4.70 86.00	1.10 86.00

## SOLO CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : SLO(M):H6

OBS#	FILE NO.	E-CAP. (cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	3091701 305.00 91	32.00 2.00 .29	10500.00 117.00 7.11	4.50 89.00	1.30 88.00
2	3091702 356.00 90	32.00 2.00 .26	10500.00 156.00 6.40	5.00 87.00	1.30 84.00
3	3091703 406.00 91	38.00 2.00 .35	10500.00 156.00 6.91	5.50 89.00	1.90 85.00
4	3091704 457.00 91	52.00 2.00 .35	10500.00 612.00 7.03	7.40 86.00	2.60 91.00
5	3091705 508.00 92	62.00 2.00 .37	10000.00 688.50 7.85	7.90 87.00	2.90 91.00
6	3090006 254.00 79	21.00 1.00 .12	10500.00 360.00 3.62	5.80 77.00	.70 78.00
7	3090007 254.00 79	21.00 1.00 .12	13000.00 360.00 3.62	5.80 78.00	.70 79.00



## OLEO MAC CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : OLM(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	3101801 305.00 91	34.00 1.00 .59	10500.00 154.00 7.73	4.40 88.00	2.61 87.00
2	3101802 406.00 91	38.00 2.00 .66	10000.00 154.00 8.44	4.50 89.00	2.98 86.00
3	3101803 406.00 92	49.00 2.00 .65	10000.00 407.16 7.10	6.60 84.00	4.48 91.00
4	3101804 406.00 89	53.00 2.00 .72	10500.00 407.16 7.26	7.30 87.00	5.22 89.00
5	3101805 406.00 91	61.00 2.00 .69	10300.00 586.56 7.53	8.10 86.00	5.60 90.00
6	3100006 457.00 94	81.00 2.00 .77	10300.00 586.56 9.31	8.70 88.00	6.71 93.00
7	3100007 356.00 88	34.00 1.00 .58	10500.00 154.00 7.56	4.50 86.00	2.61 87.00
8	3100008 457.00 92	66.00 2.00 .70	10500.00 586.56 7.76	8.50 87.00	5.97 92.00
9	3100009 457.00 93	81.00 2.00 .79	10500.00 586.56 9.53	8.50 89.00	6.71 91.00

## SACHS DOLMAR CHAINSAWS - TESTING 2ND. TO 4TH. DECEMBER 1981

Name of data file : SAC(M):H6

OBS#	FILE NO.	E-CAP.(cc)	R.P.M.	WGT. (kg)	POWER (kw)
	BAR LN(mm) SPL (MROT)	SAW TYPE PWR/WGT	EX CP.(cc) CAP/WGT	SPLX dB(A)	SPLY dB(A)
1	3111701 450.00 92	51.00 1.00 .59	11000.00 360.00 8.09	6.30 89.00	3.70 88.00
2	3111802 450.00 90	51.00 1.00 .56	11000.00 360.00 7.39	6.90 86.00	3.90 89.00
3	3111803 450.00 89	61.00 1.00 .68	11000.00 399.00 8.59	7.10 88.00	4.80 87.00
4	3111704 450.00 89	61.00 2.00 .70	11000.00 399.00 8.24	7.40 88.00	5.20 89.00
5	3111705 530.00 91	70.00 2.00 .67	9500.00 496.13 7.87	8.90 89.00	6.00 91.00
6	3111806 500.00 91	85.00 2.00 .71	9800.00 496.13 8.95	9.50 88.00	6.70 90.00
7	3111807 630.00 93	100.00 2.00 .68	10000.00 607.50 9.01	11.10 90.00	7.50 92.00
8	3110008 350.00 90	40.00 1.00 .50	10000.00 101.25 8.00	5.00 89.00	2.50 87.00
9	3110009 350.00 91	40.00 1.00 .50	10000.00 101.25 8.00	5.00 90.00	2.50 90.00



