

498.

TOXICOLOGICAL CONSEQUENCES OF PESTICIDAL USE

IN THE

REPUBLIC OF SOUTH AFRICA

APPENDIX 2:

EPIDEMIOLOGY OF PESTICIDAL USE

IN

SOUTH AFRICA

BY

H.O. FOURIE

FACULTY OF MEDICINE  
UNIVERSITY OF CAPE TOWN  
RONDEBOSCH, CAPE  
SOUTH AFRICA

August, 1986

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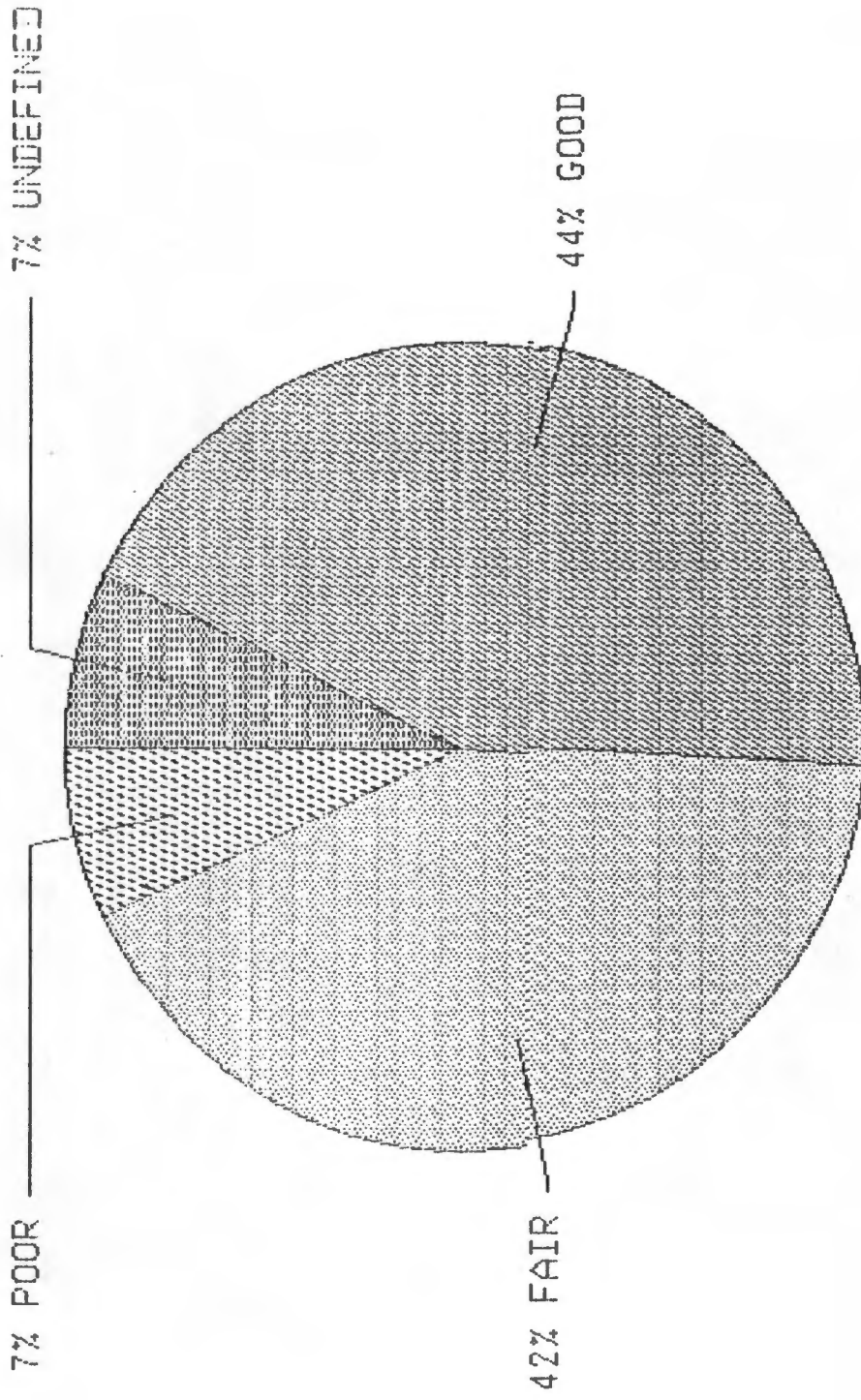
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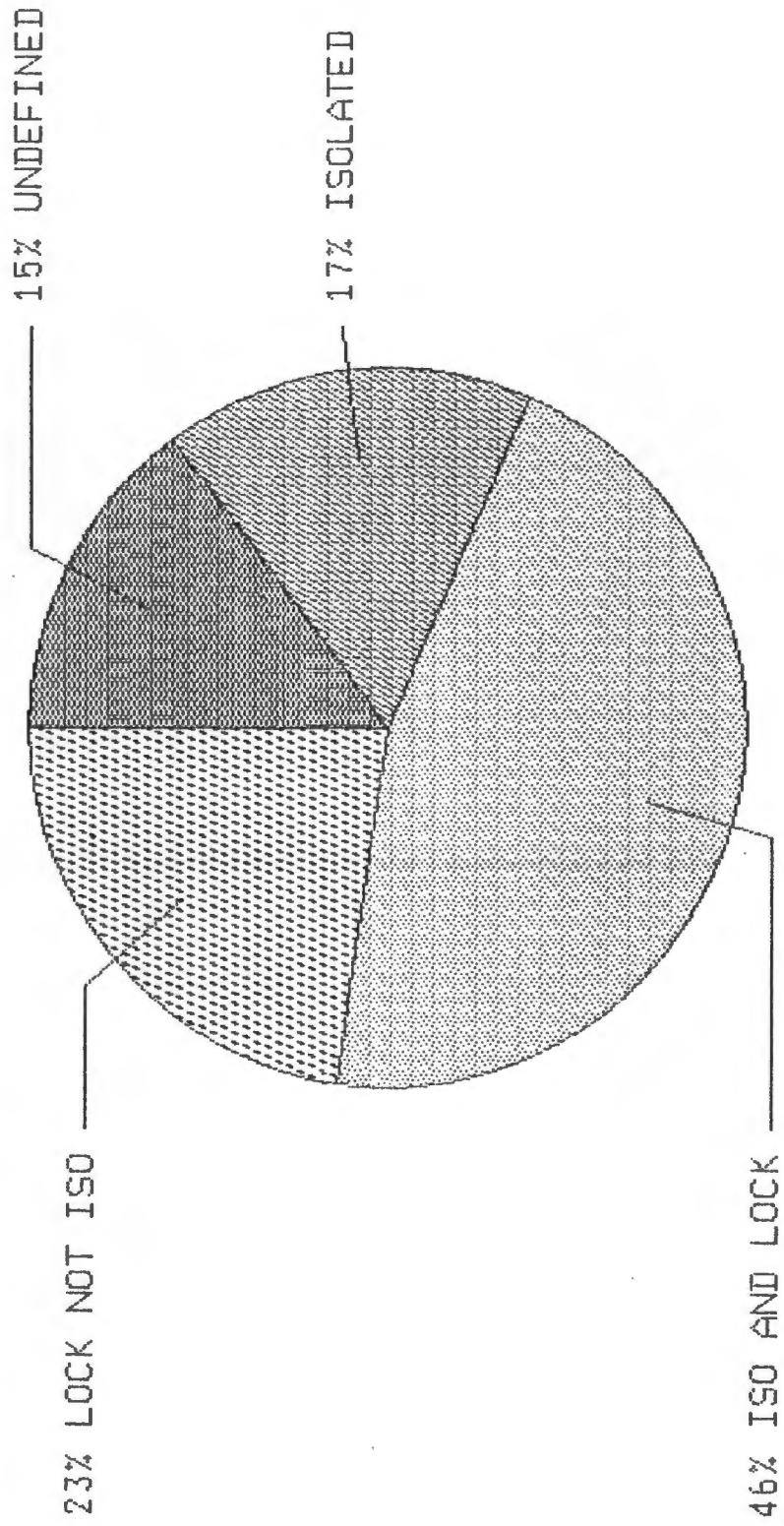
## ABBREVIATIONS AND GLOSSARY

Anticoagul = Anticoagulant  
Appl = Application  
Ae = aerial  
Chi = Children  
Child = Children  
Dithio car = Dithiocarbamate  
Elsewhere = Garage, Golfclub, Motorcar, Grain Silo, Nursery, Trading Site, Sheepkraal.  
Fam/Fre Eve = Family/Frends Evidence  
Fav = Favourable  
Gl = Gloves  
Glo = Gloves  
Ha = Hand  
Husb = Husband  
Iso = Isolated  
Liq dil = Liquid dilute  
Liq con = liquid concentrate  
Ma = Masks  
Mas = Masks  
Me = Mechanical  
Mec Surf = Mechanical Surface  
Nitro Phen = Nitrophenolic  
Org chlor = Organochlorine  
Org phos = Organophosphate  
Other ( protection ) = Boots, Helmet, Plastic apron.  
Ov = Overalls  
Over = Overalls  
Pat hou/yard = Patiens House/yard  
Pat evi = Patiens Evidence  
Su = Surface  
Unfav = Unfavourable  
Wif = Wife

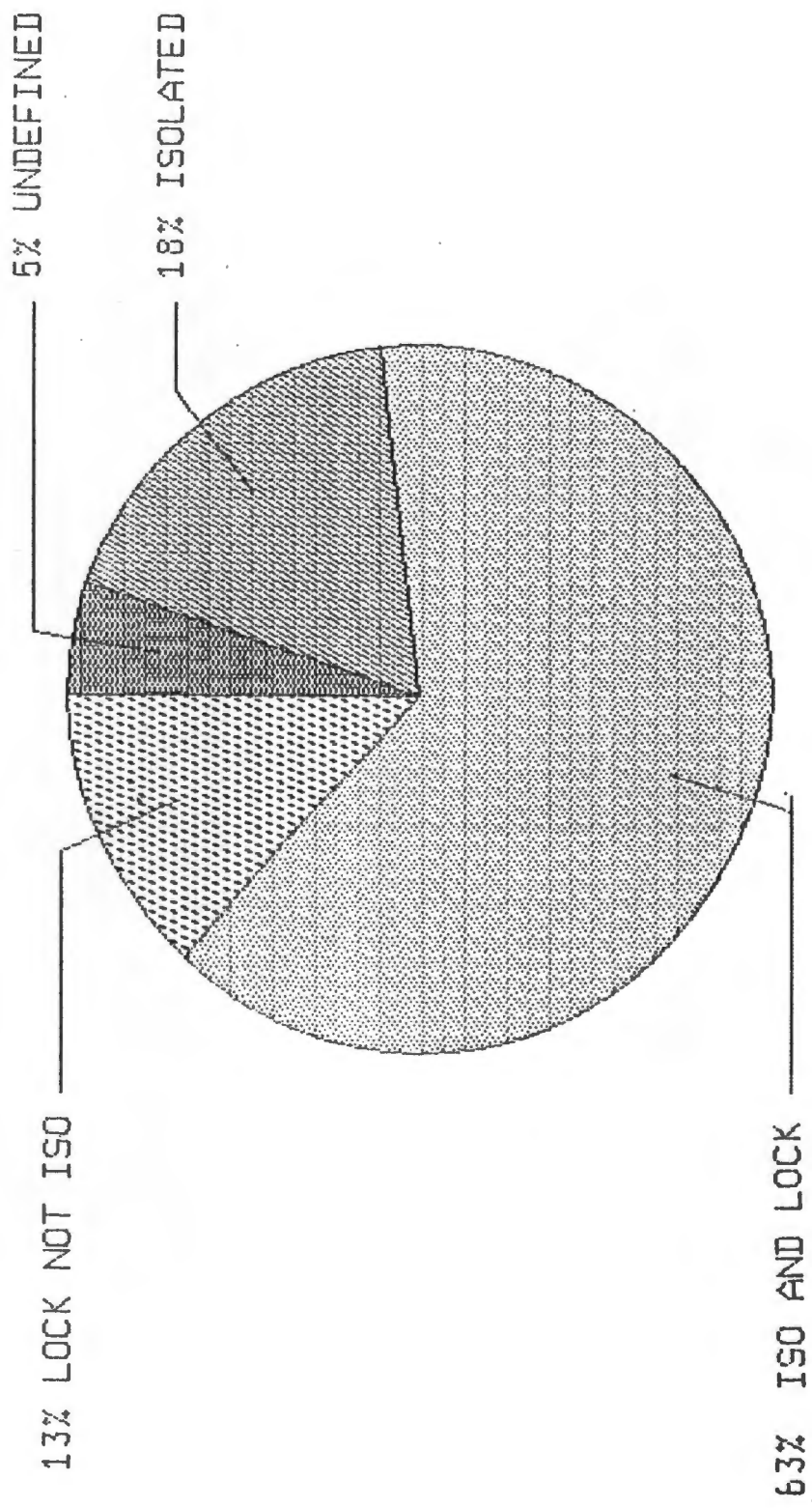
GENERAL POISON KNOWLEDGE OF OWNER



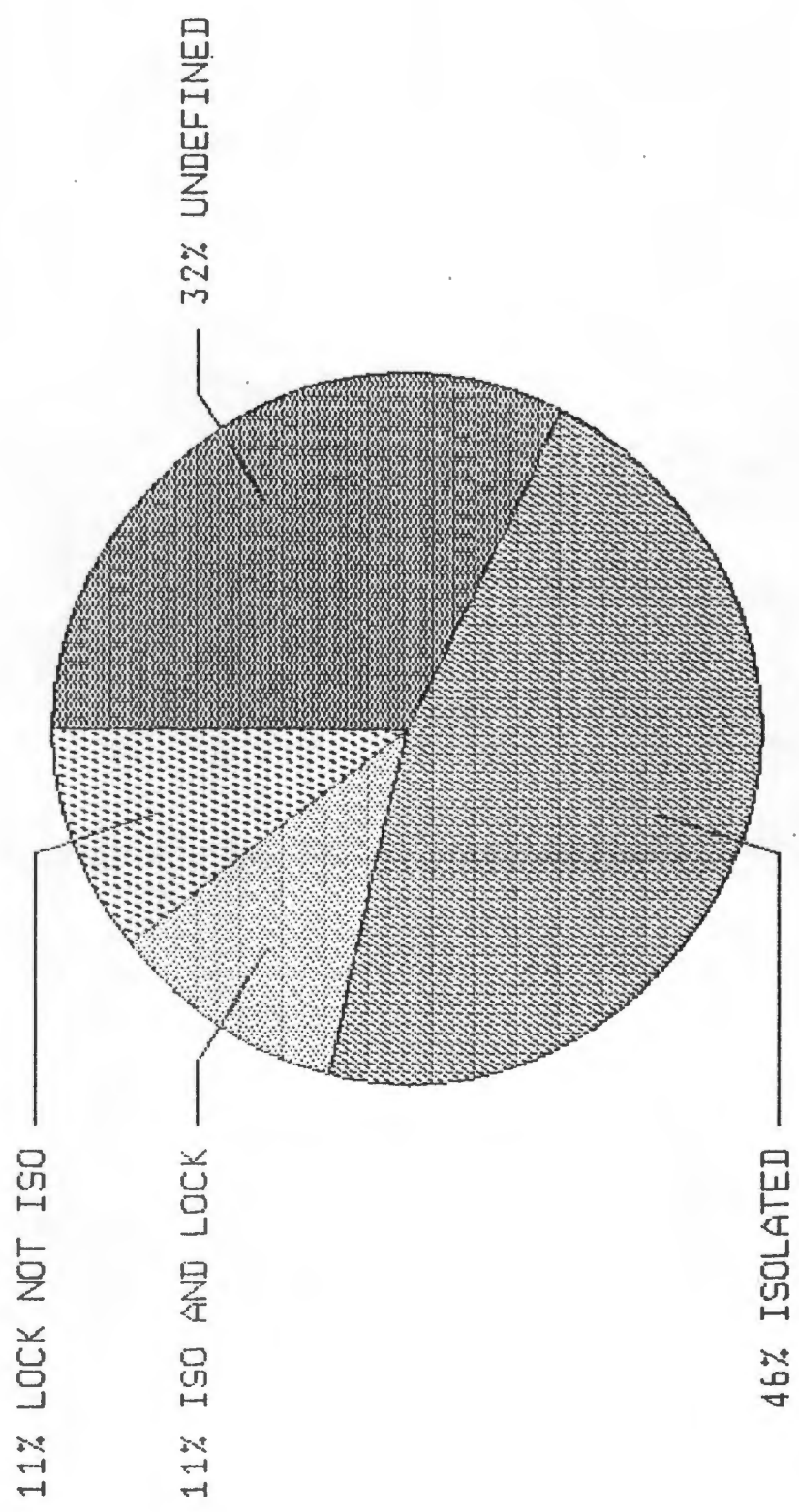
STORAGE OF POISONS BY OWNER



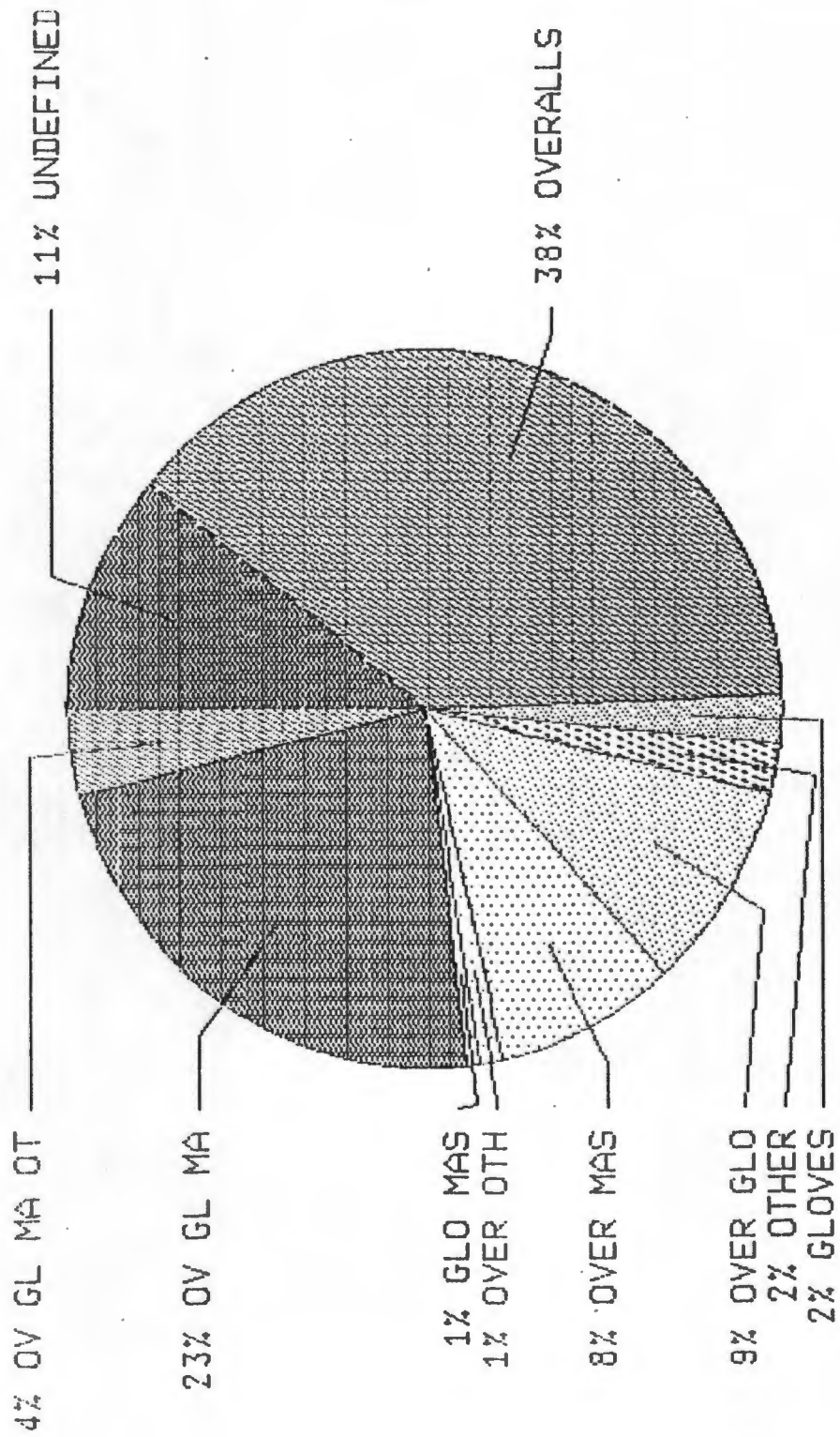
KNOWLEDGE OF OWNER = GOOD BY POISON STORAGE



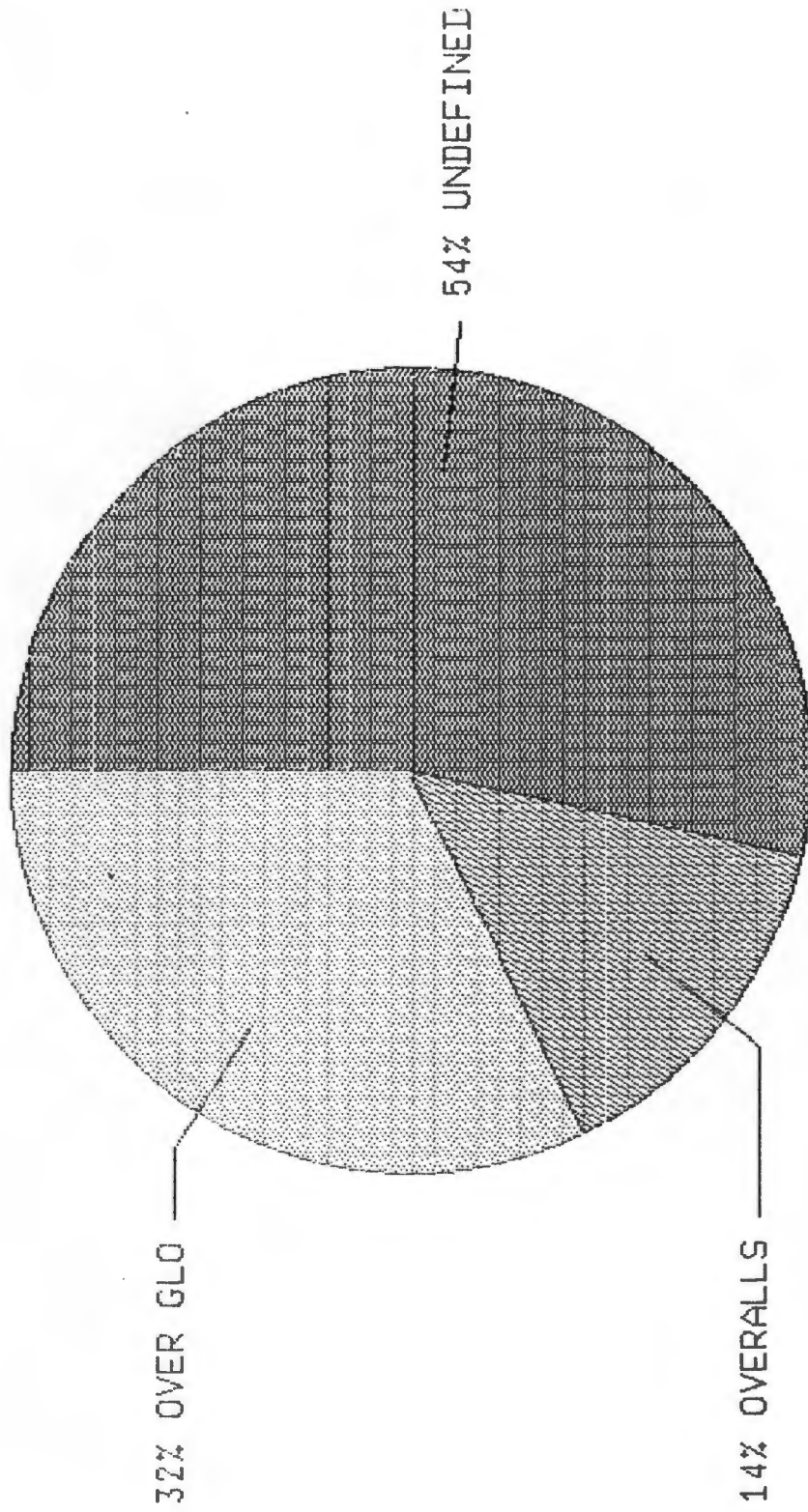
KNOWLEDGE OF OWNER = POOR BY POISON STORAGE



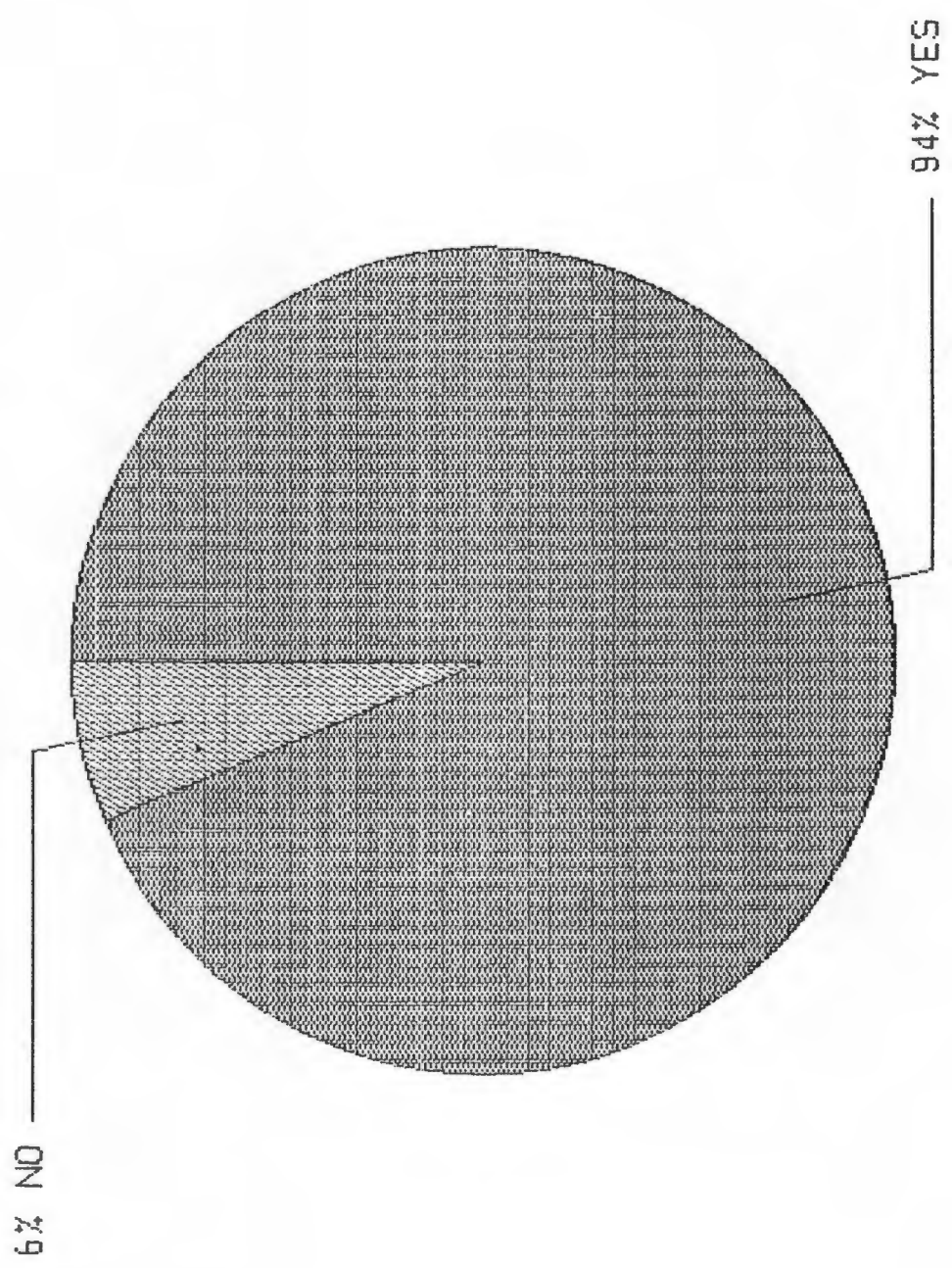
PROTECTIVE CLOTHING PER GEN POISON KNOWLEDGE = GOOD



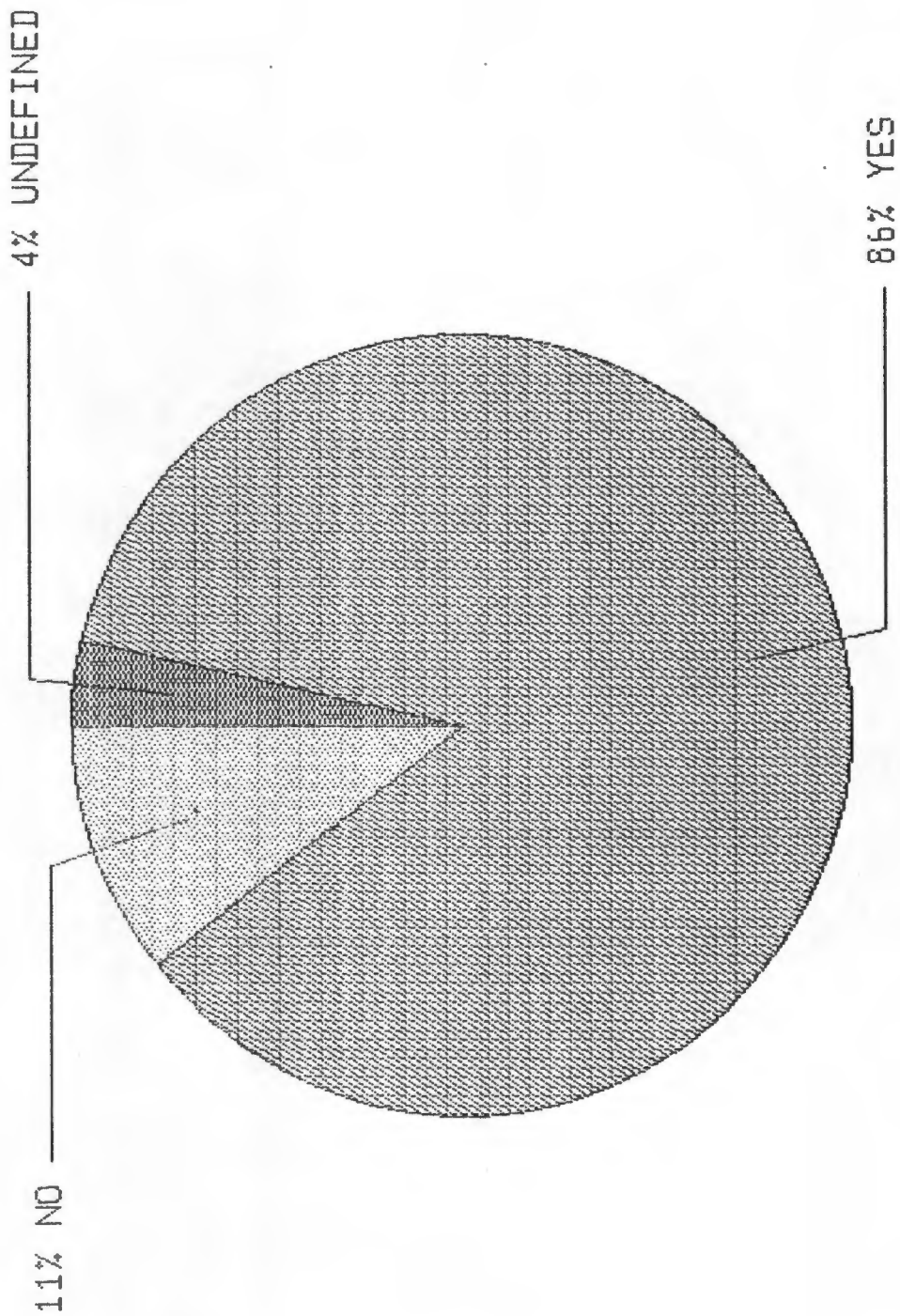
PROTECTIVE CLOTHING PER GEN POISON KNOWLEDGE - POOR



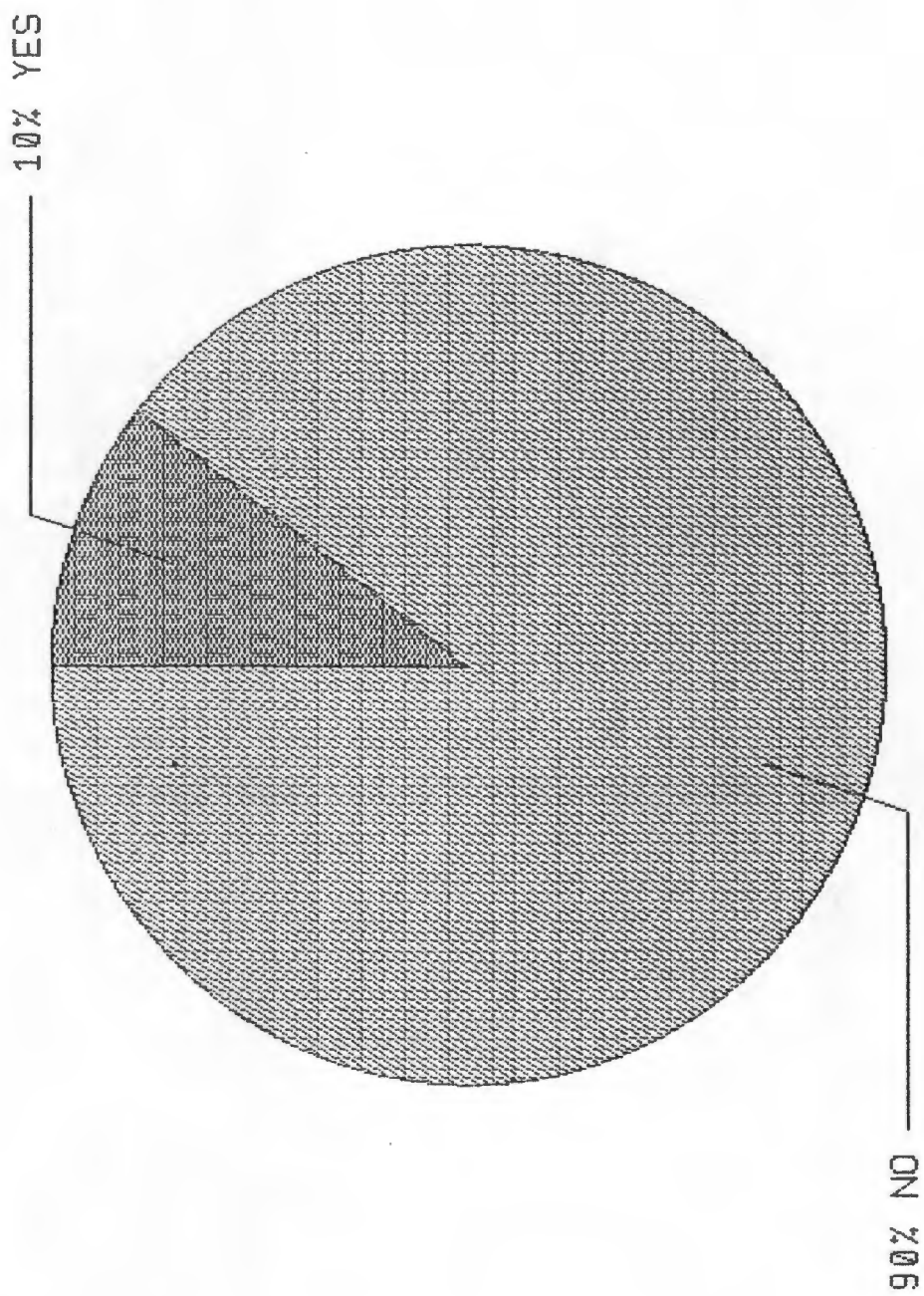
POISON KNOWLEDGE = GOOD WERE PATIENT HOSPITALISED



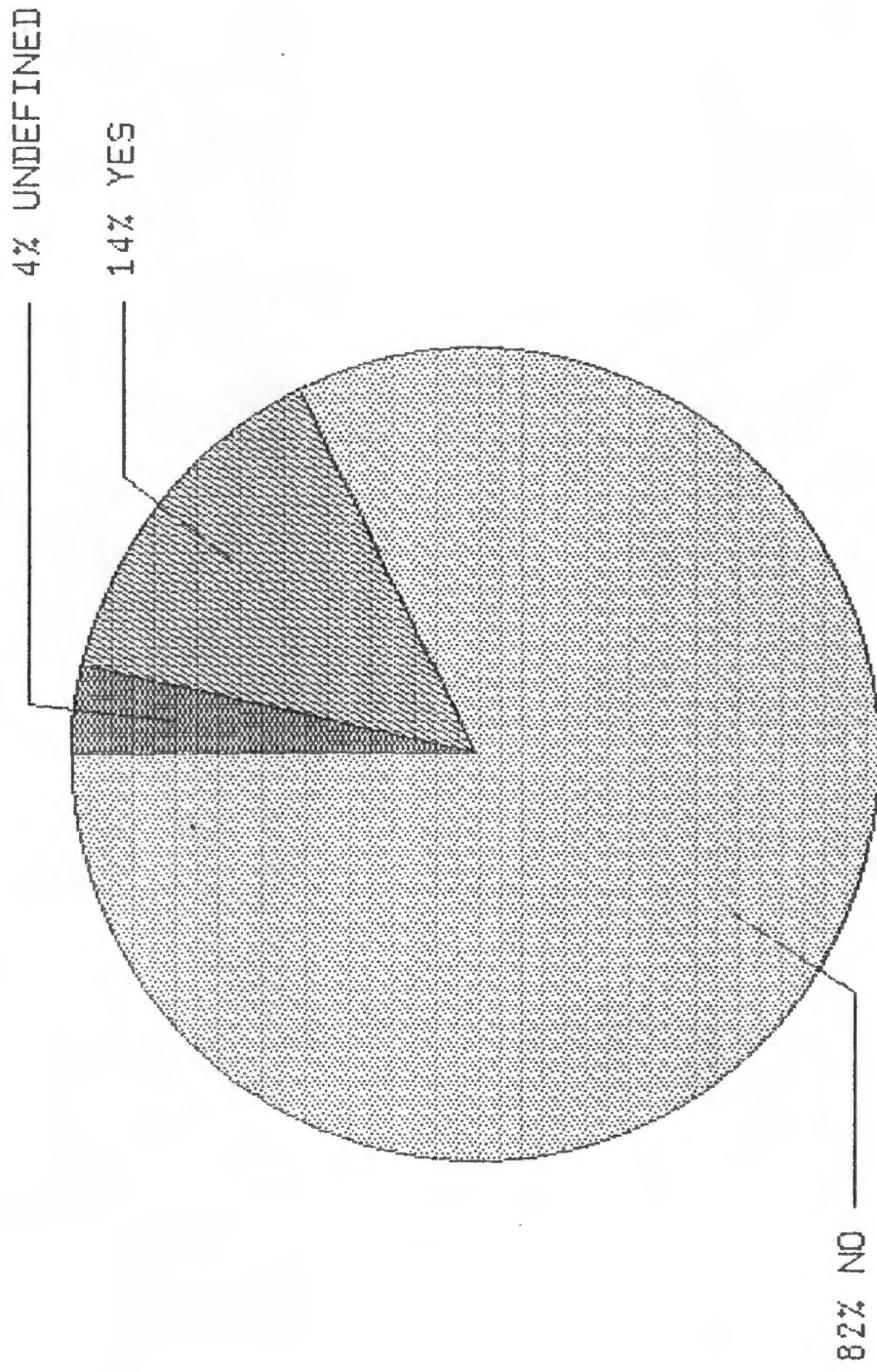
POISON KNOWLEDGE = POOR WERE PATIENT HOSPITALISED



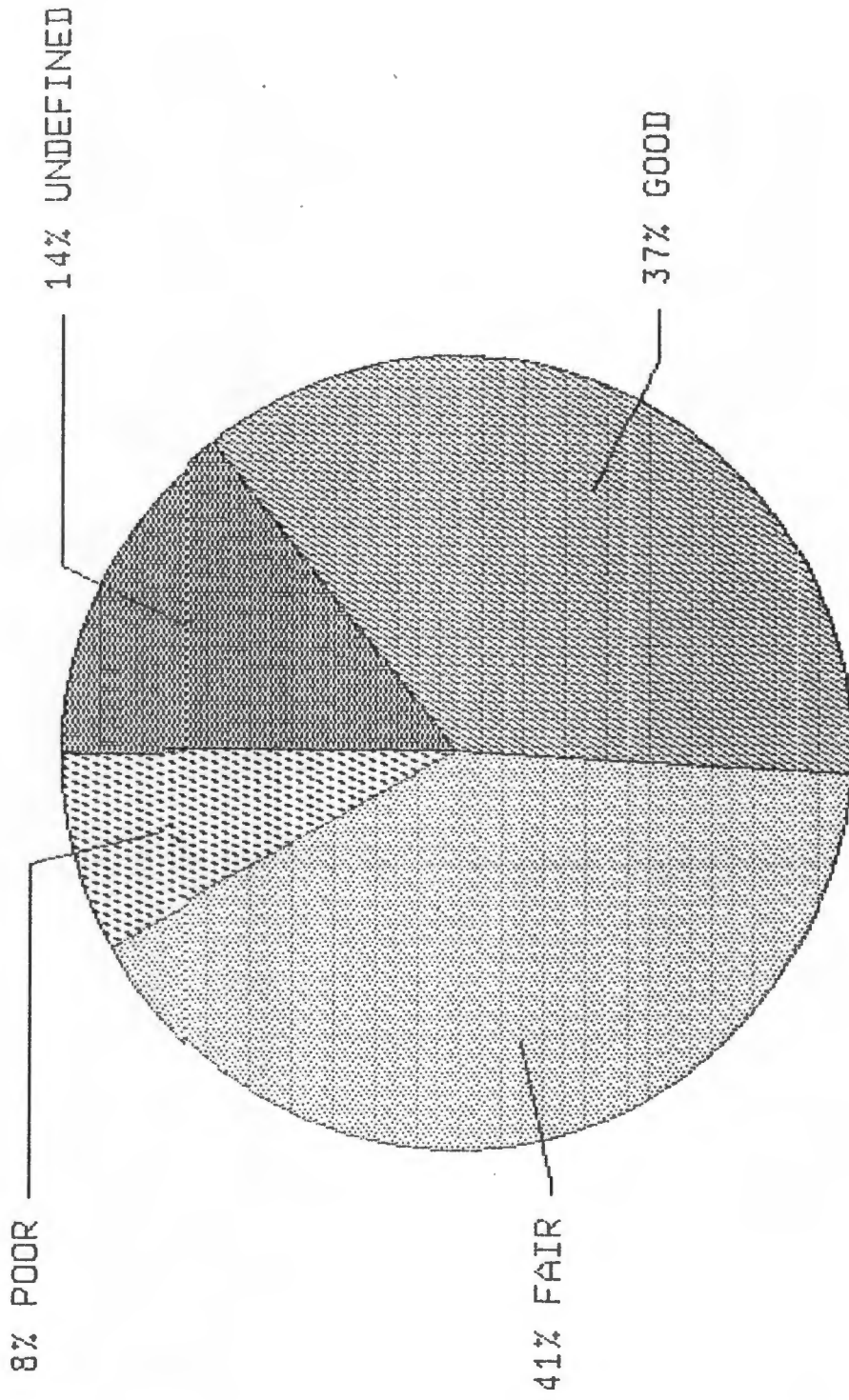
POISON KNOWLEDGE = GOOD WERE PATIENT FATAL



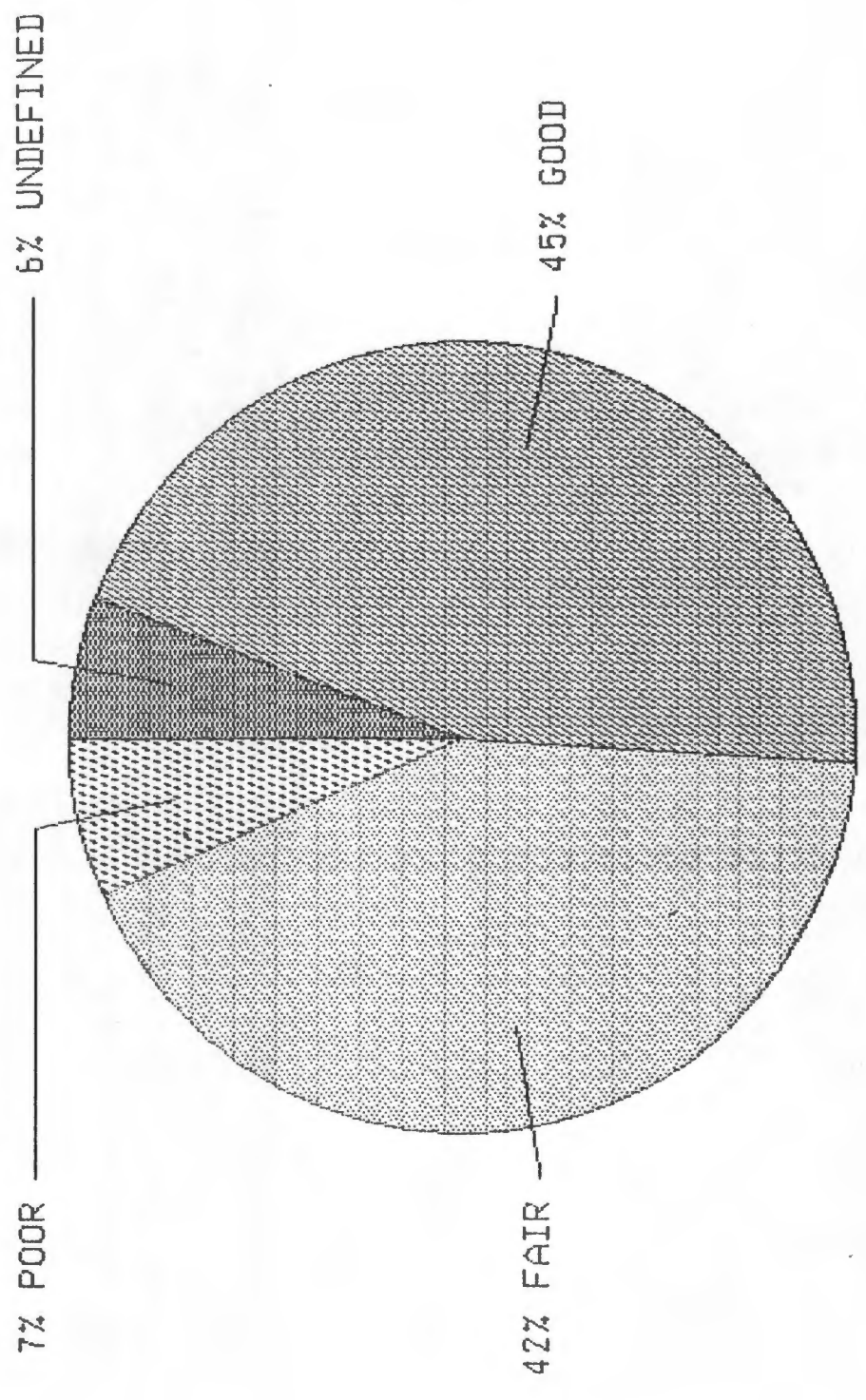
POISON KNOWLEDGE = POOR WERE PATIENT FATAL



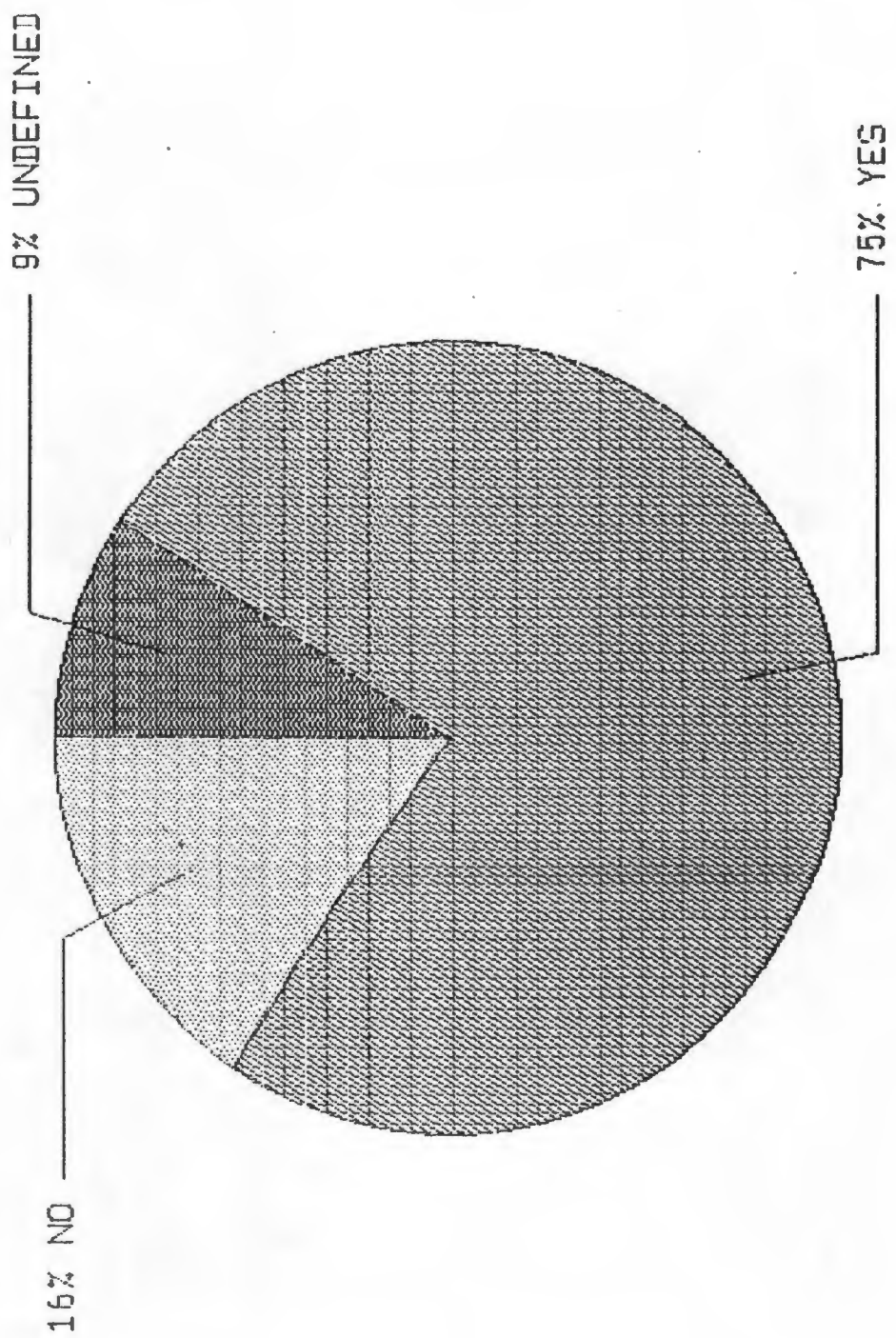
PATIENT FATAL = YES HOW WAS POISON KNOWLEDGE



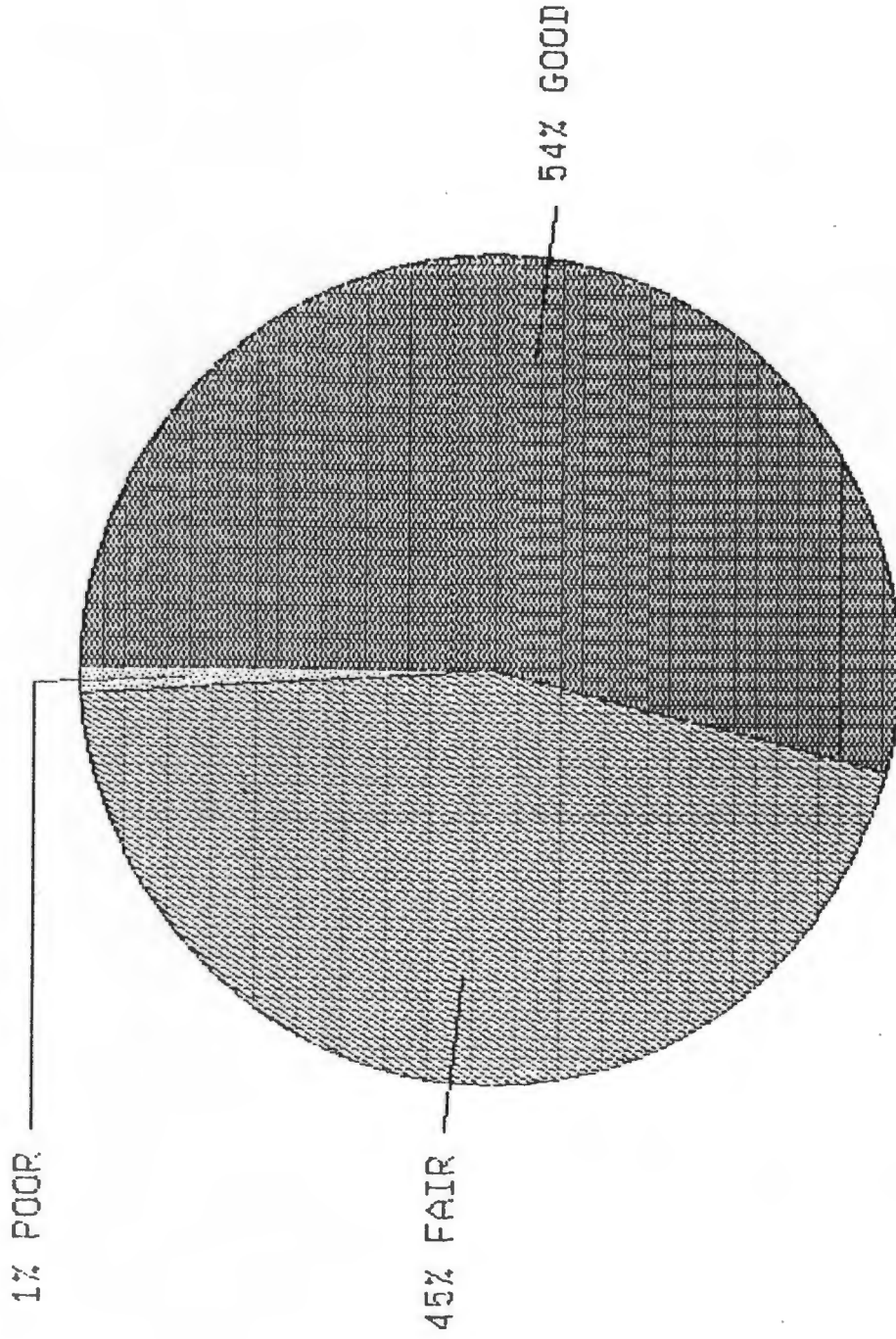
PATIENT FATAL = NO HOW WAS POISON KNOWLEDGE



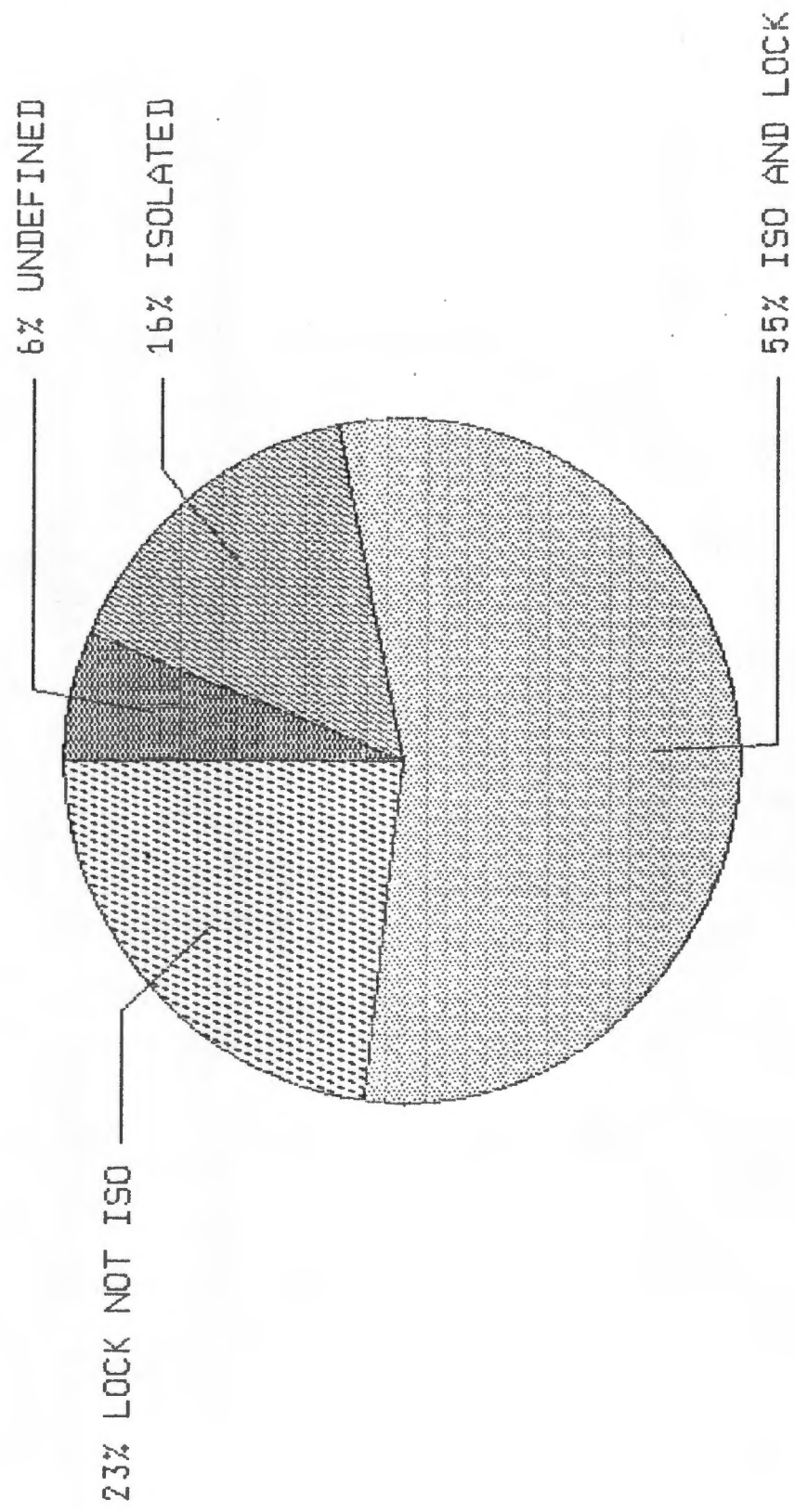
GUIDANCE RECEIVED BY OWNERS



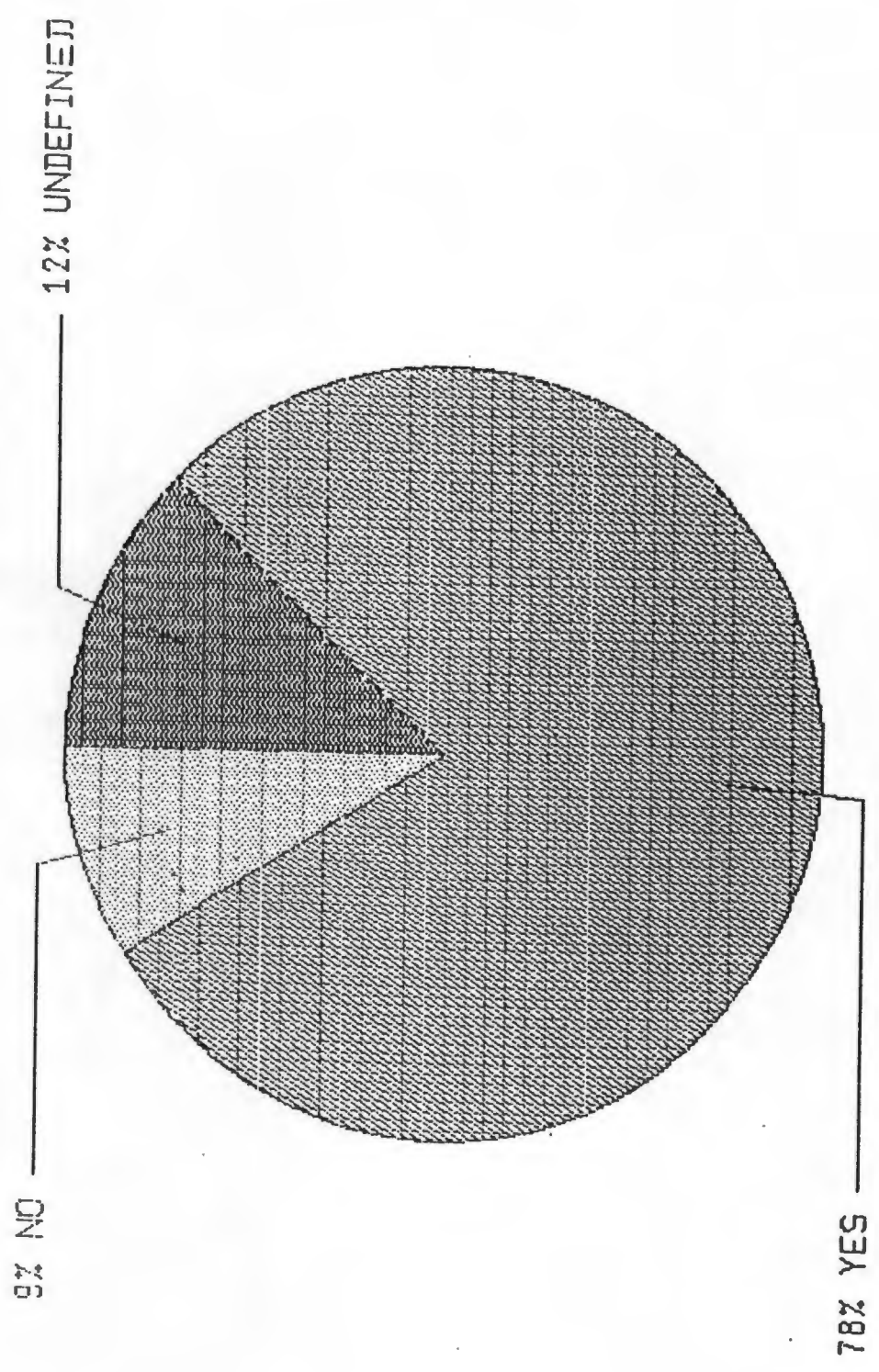
GUIDANCE RECEIVED=YES BY GEN POISON KNOWLEDGE



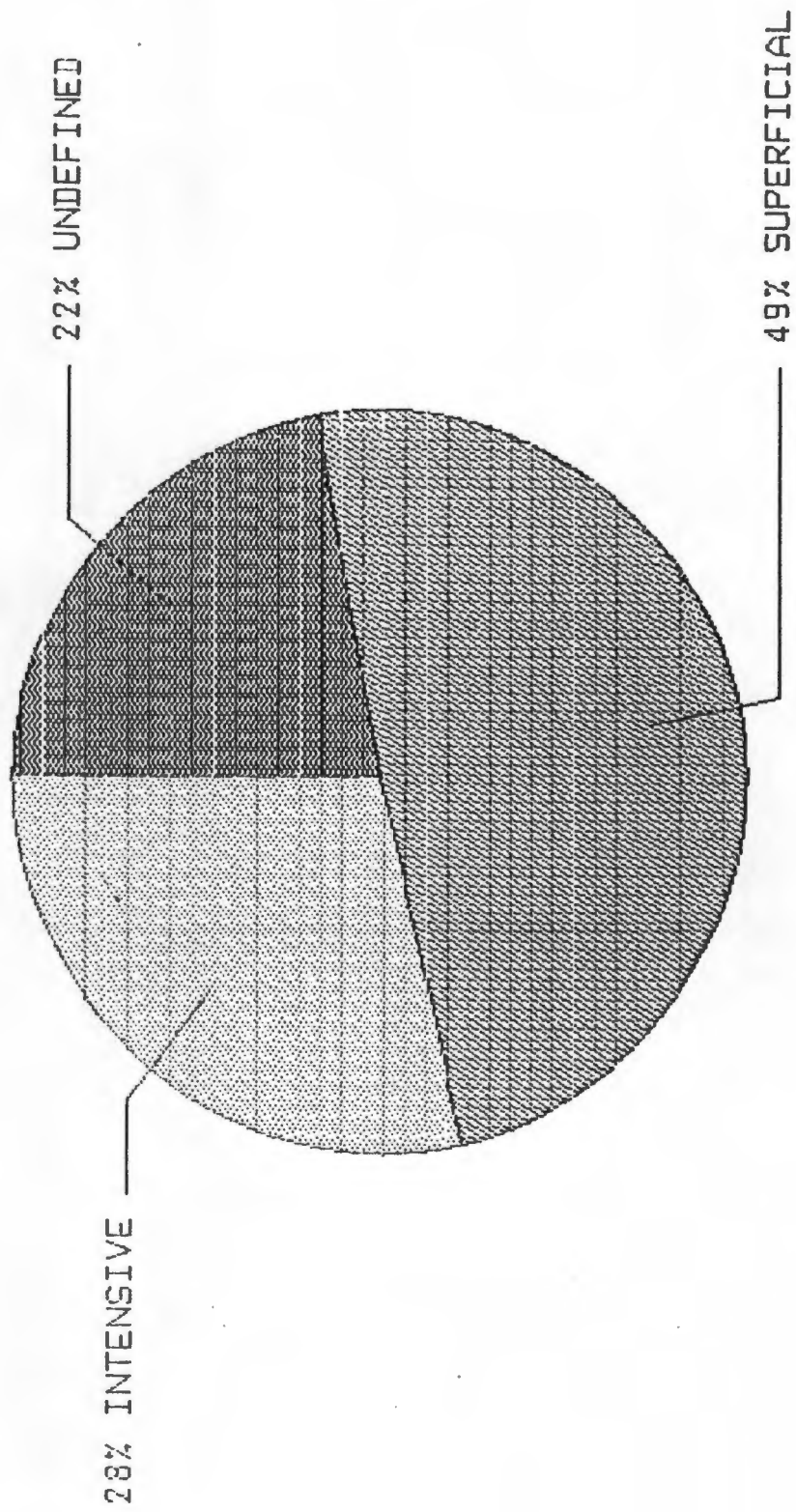
GUIDANCE RECEIVED BY OWNER = YES BY POISON STORAGE



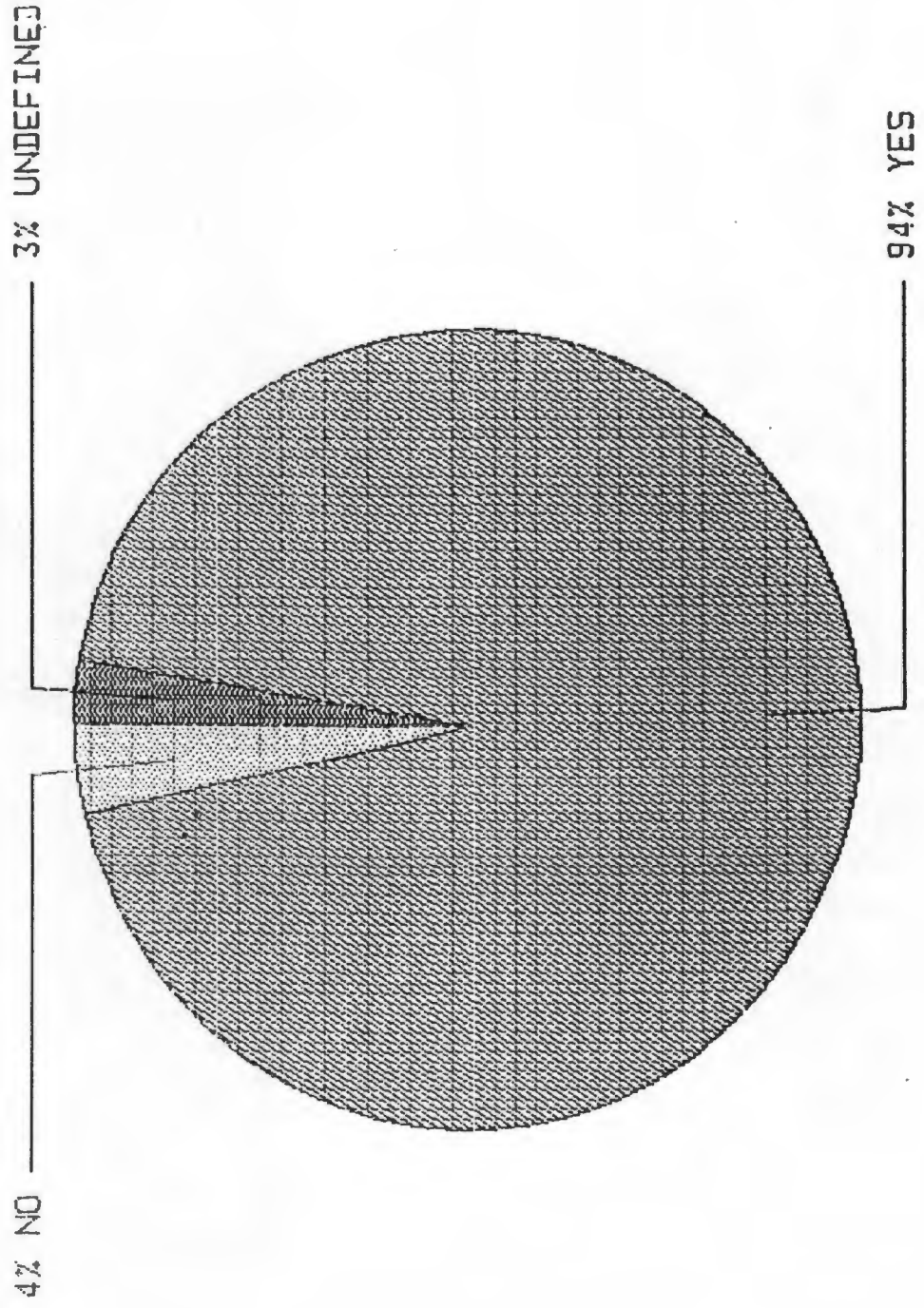
# DID OWNER GIVE GUIDANCE TO WORKERS



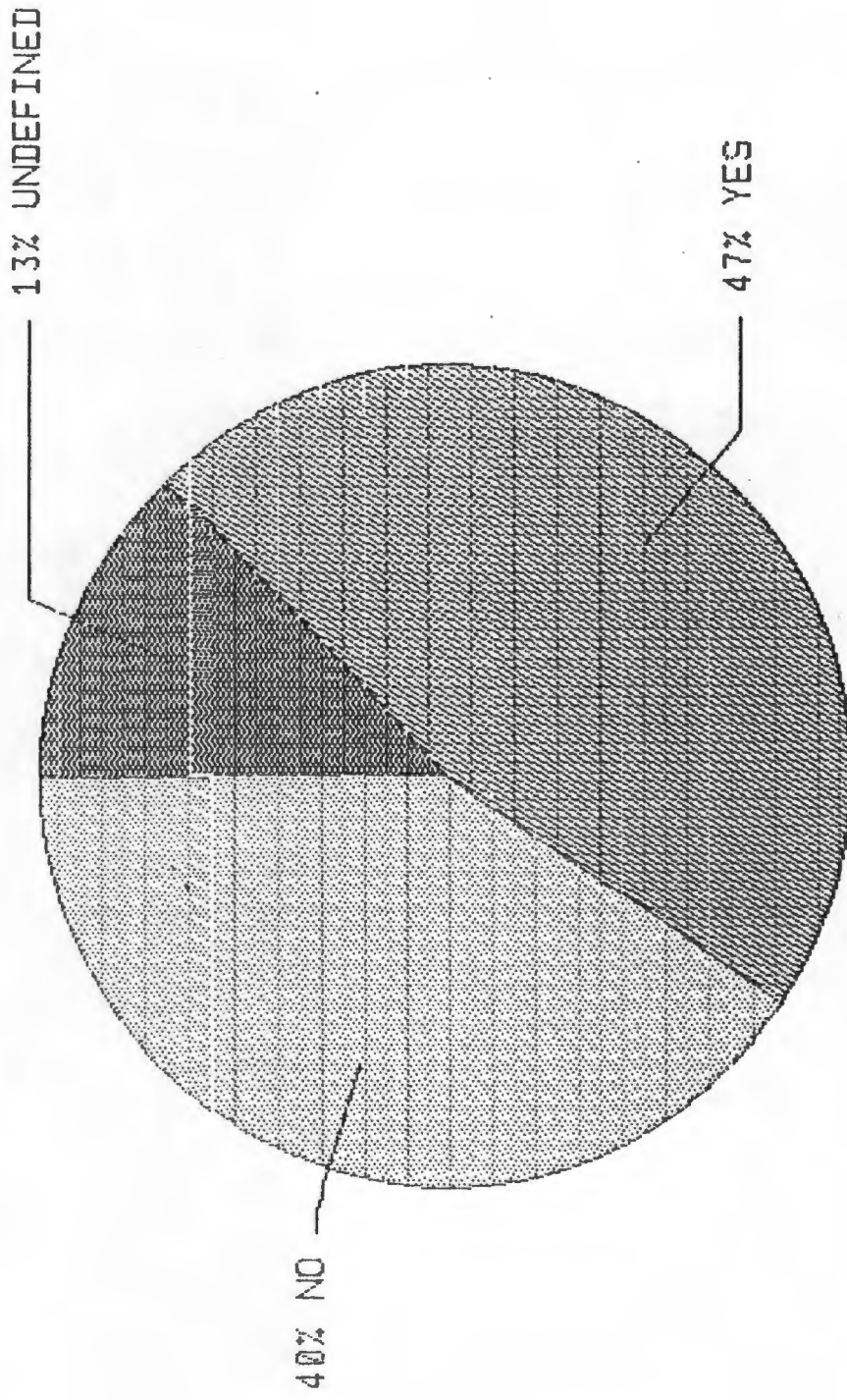
# HOW WAS GUIDANCE PROVIDED TO WORKERS



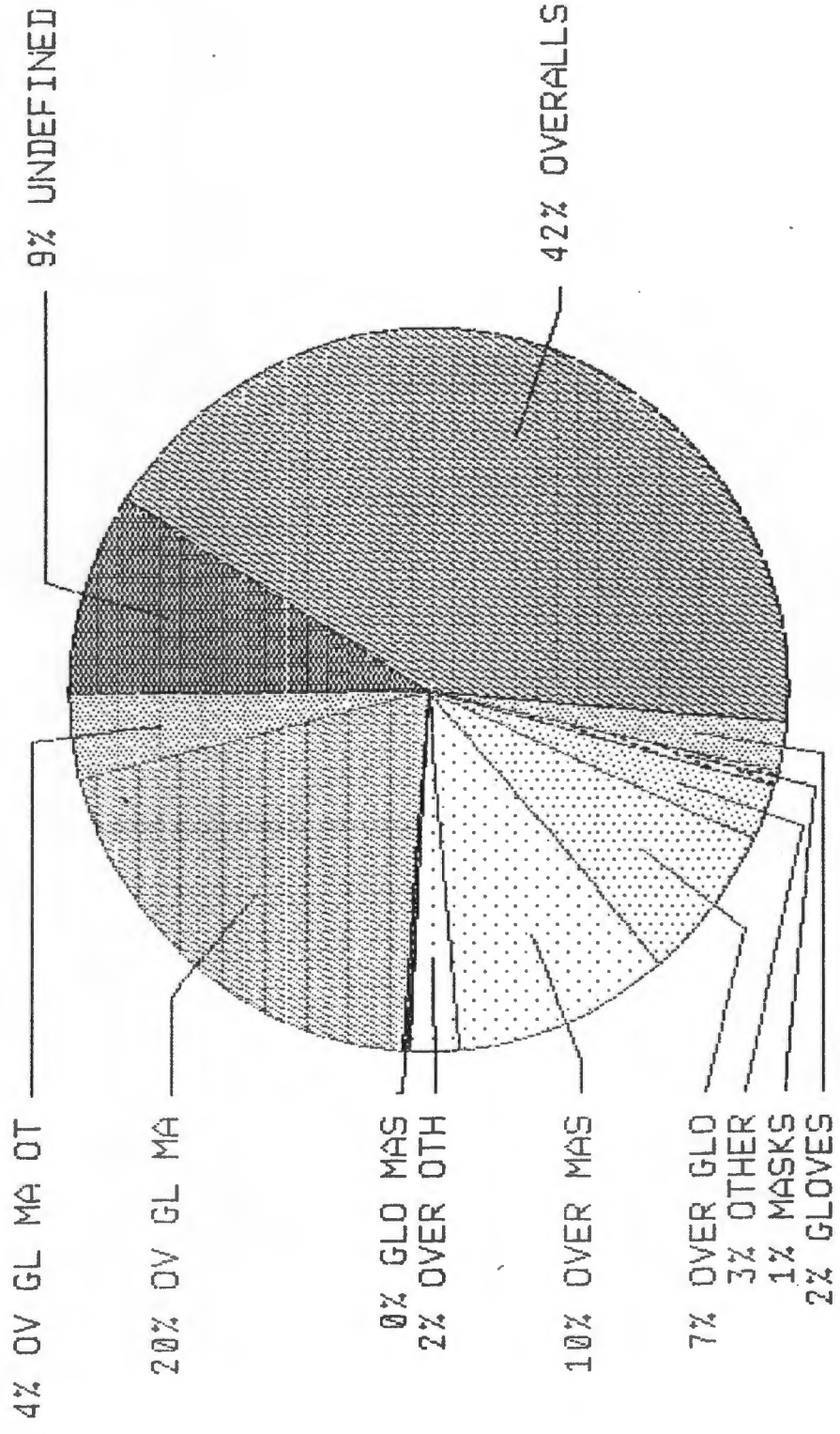
GUIDANCE RECEIVED BY OWNERS=YES GUIDANCE TO WORKERS



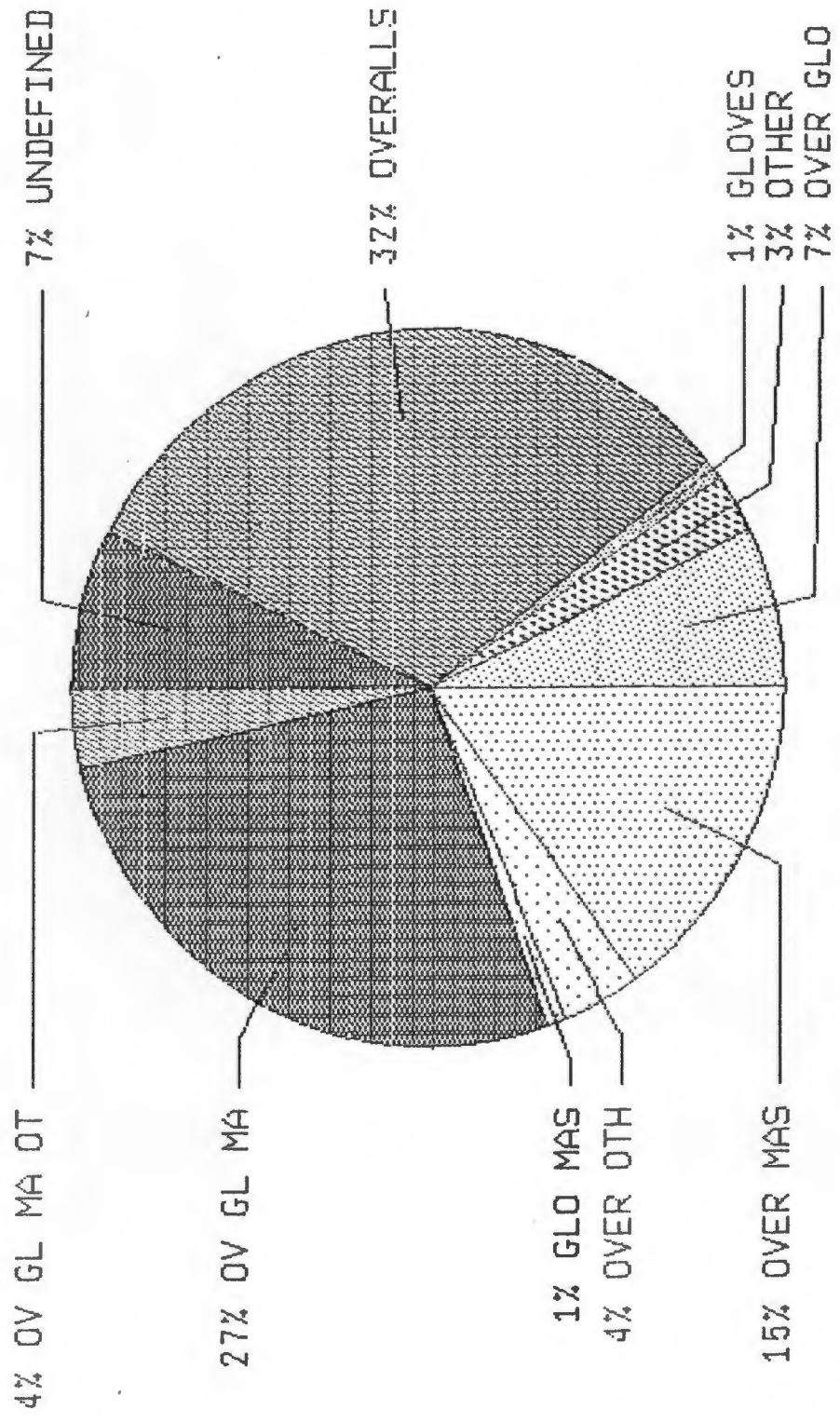
GUIDANCE TO OWNER=NO GUIDANCE TO WORKER



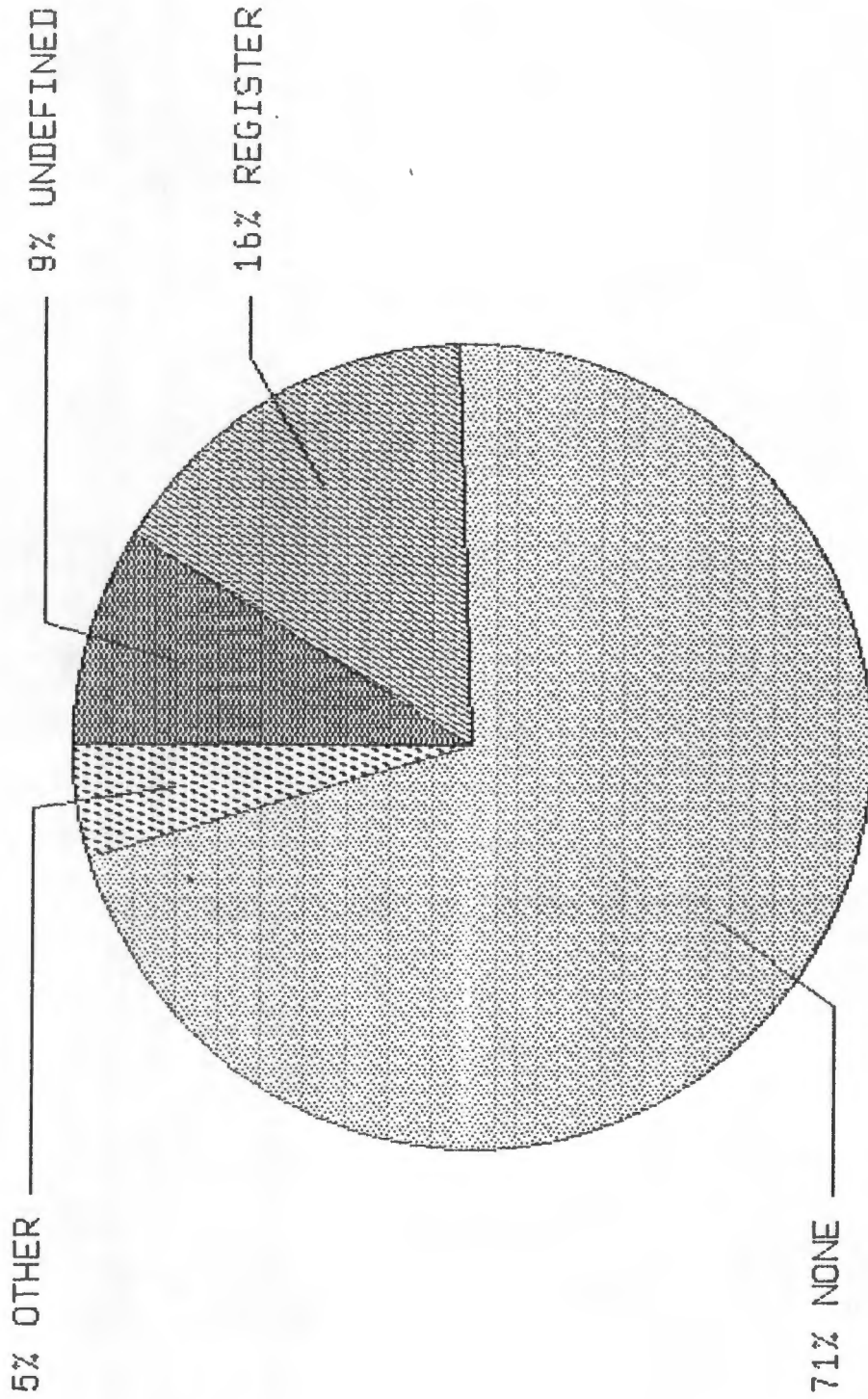
PROTECTIVE CLOTHING PER GUIDANCE PROVIDED=YES



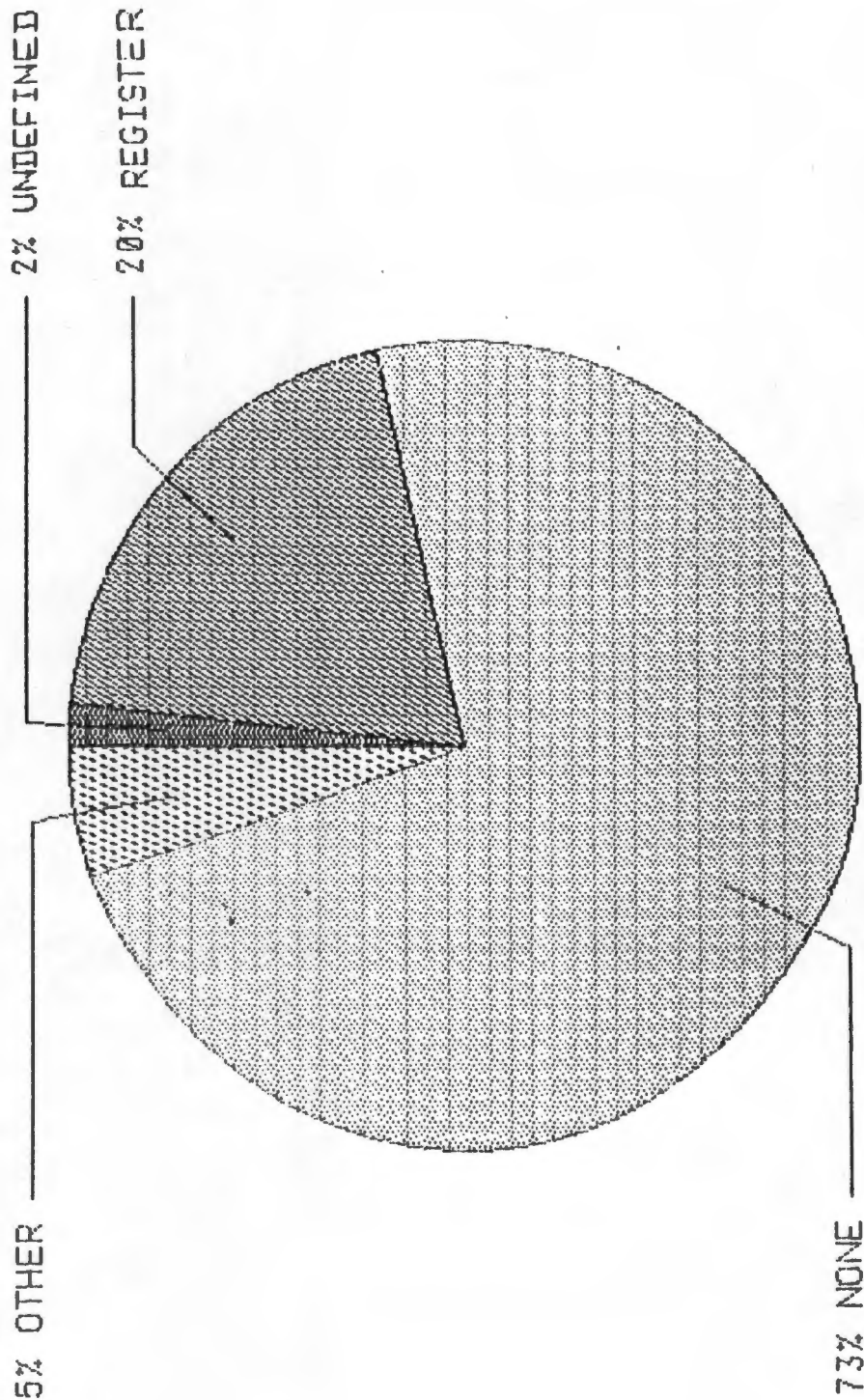
PROTECTIVE CLOTHING PER GUIDANCE PROVIDED=INTENSIVE



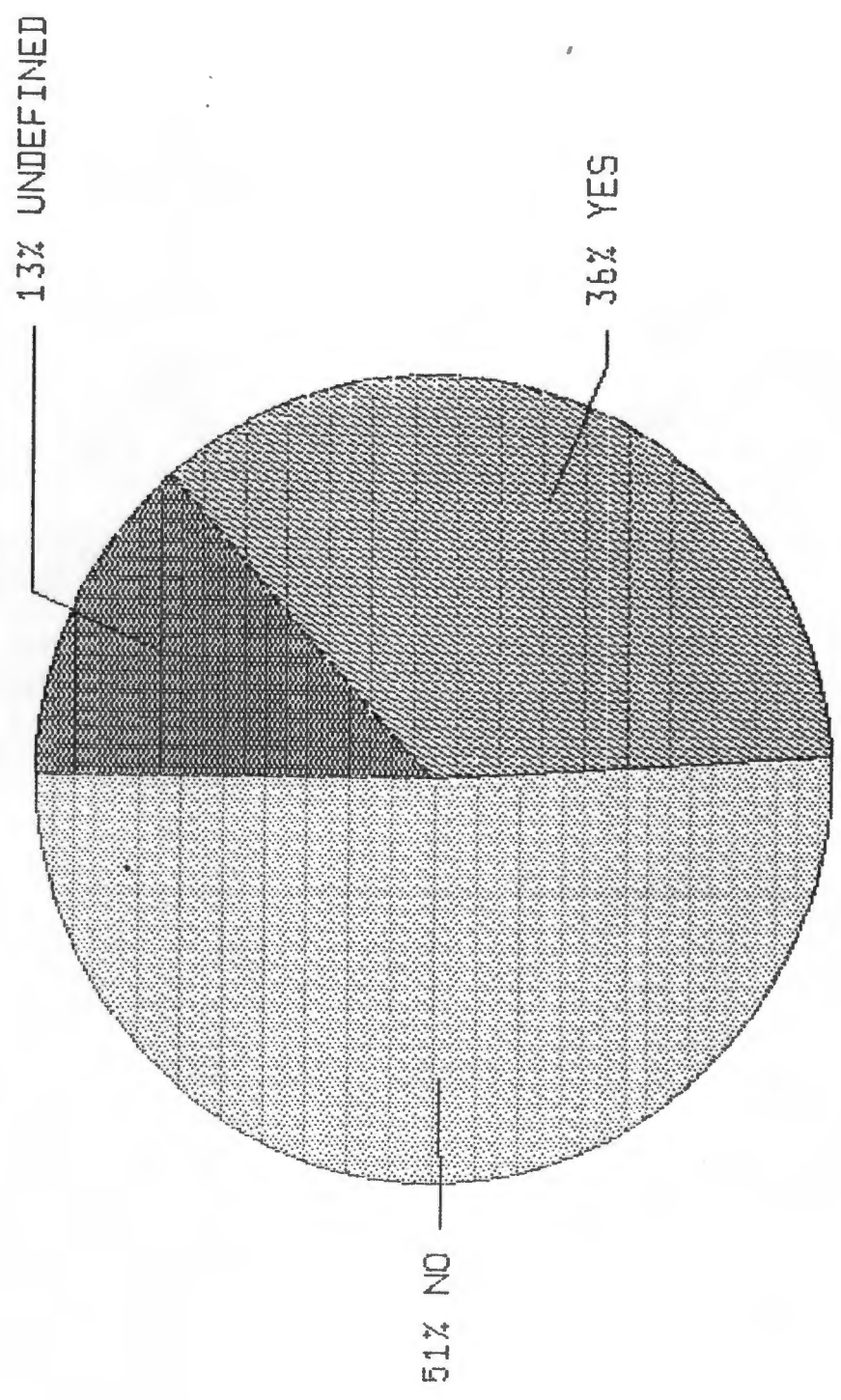
# CONTROL OF POISONS BY OWNER



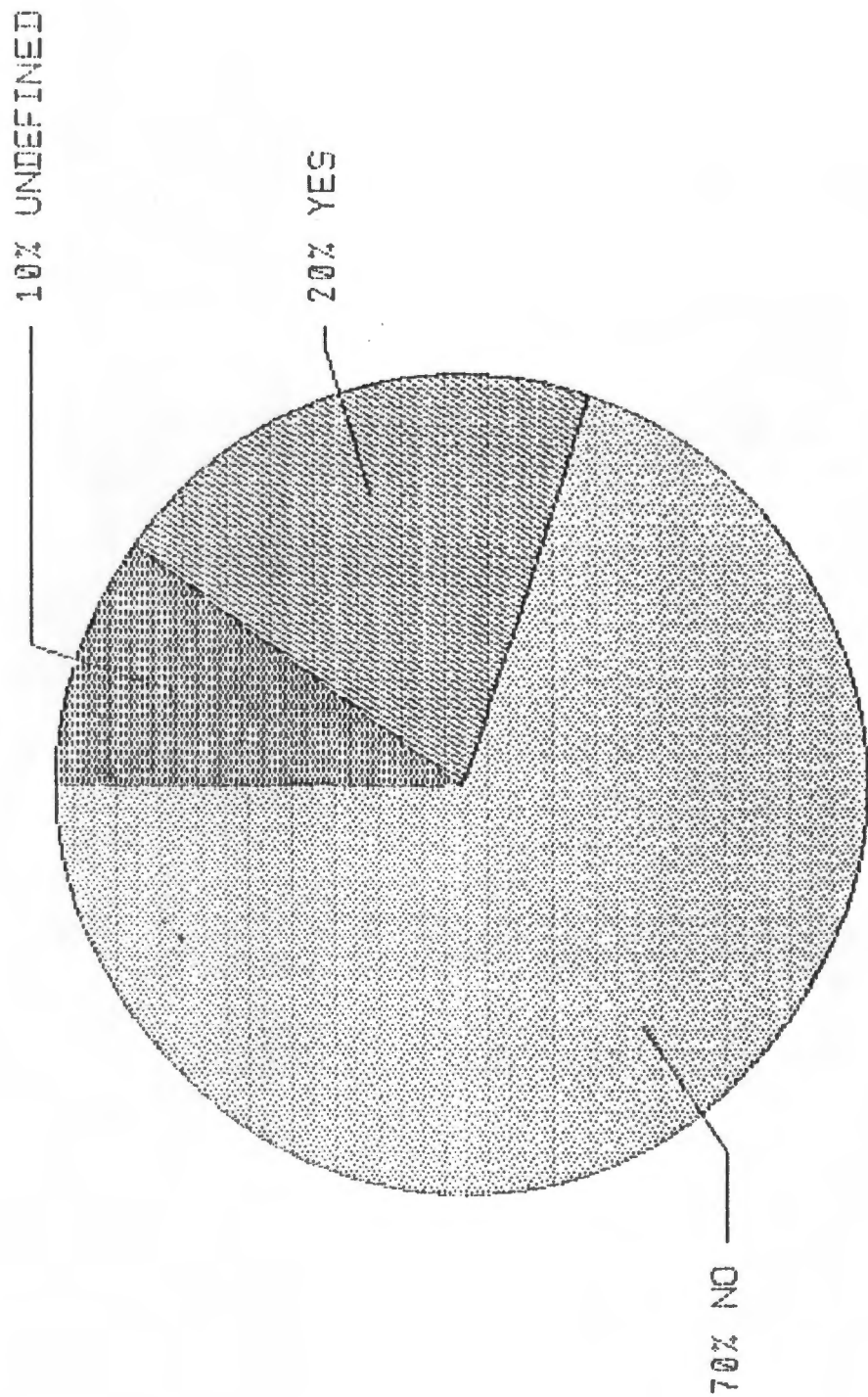
GUIDANCE RECEIVED-YES BY CONTROL



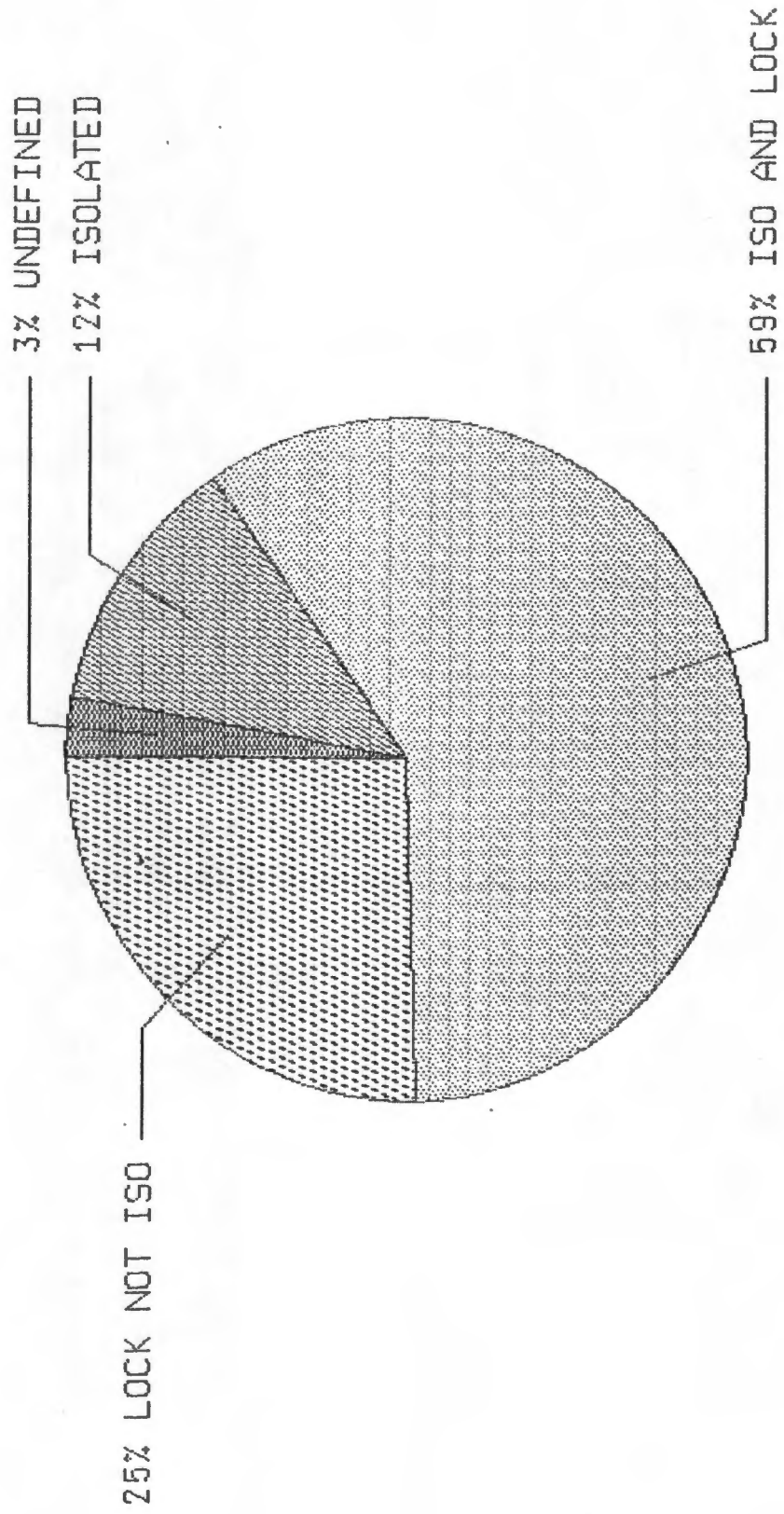
WASHING FACILITIES AVAILABLE TO WORKERS



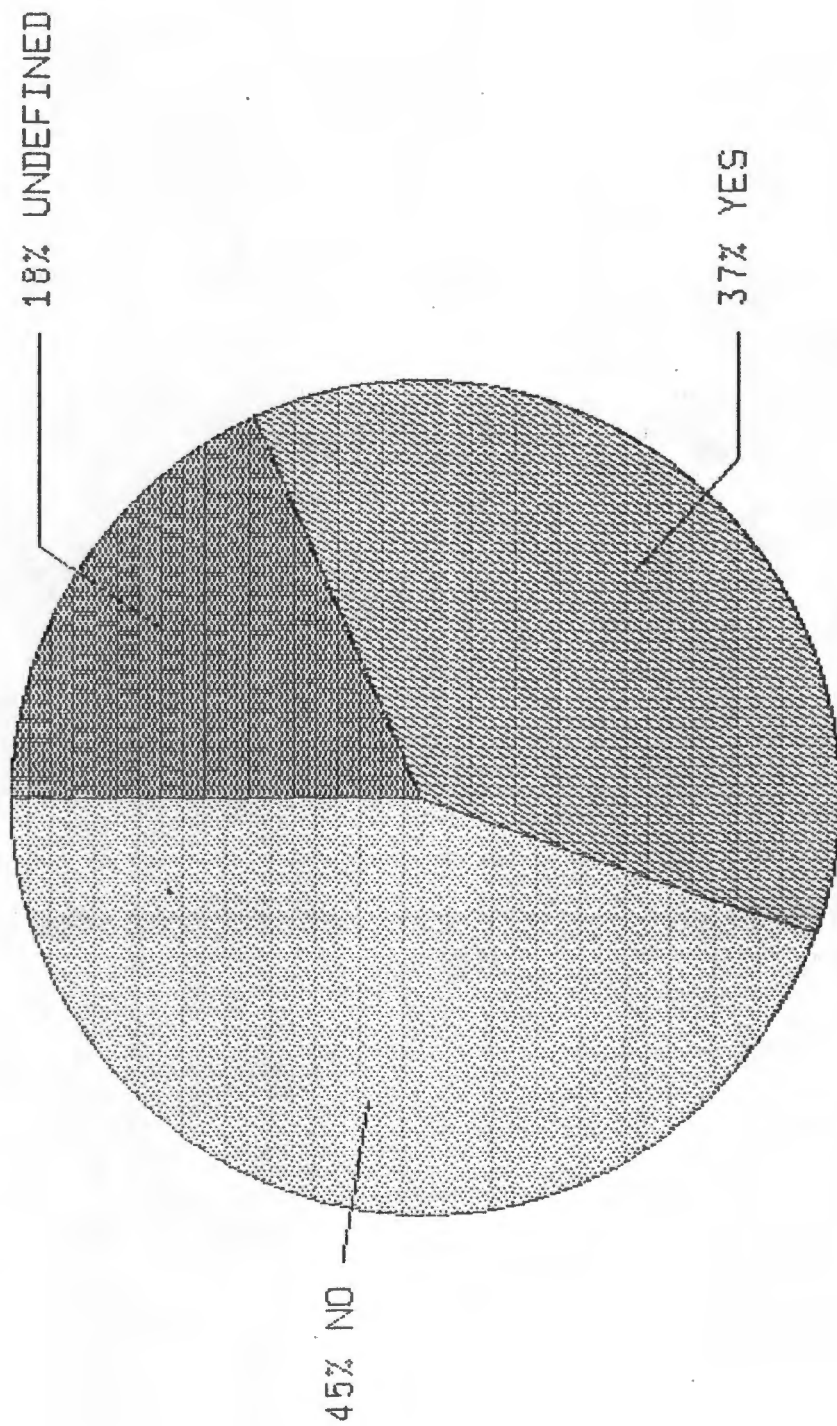
ACCESSIBILITY TO POISONS BY UNAUTHORISED PERSONS



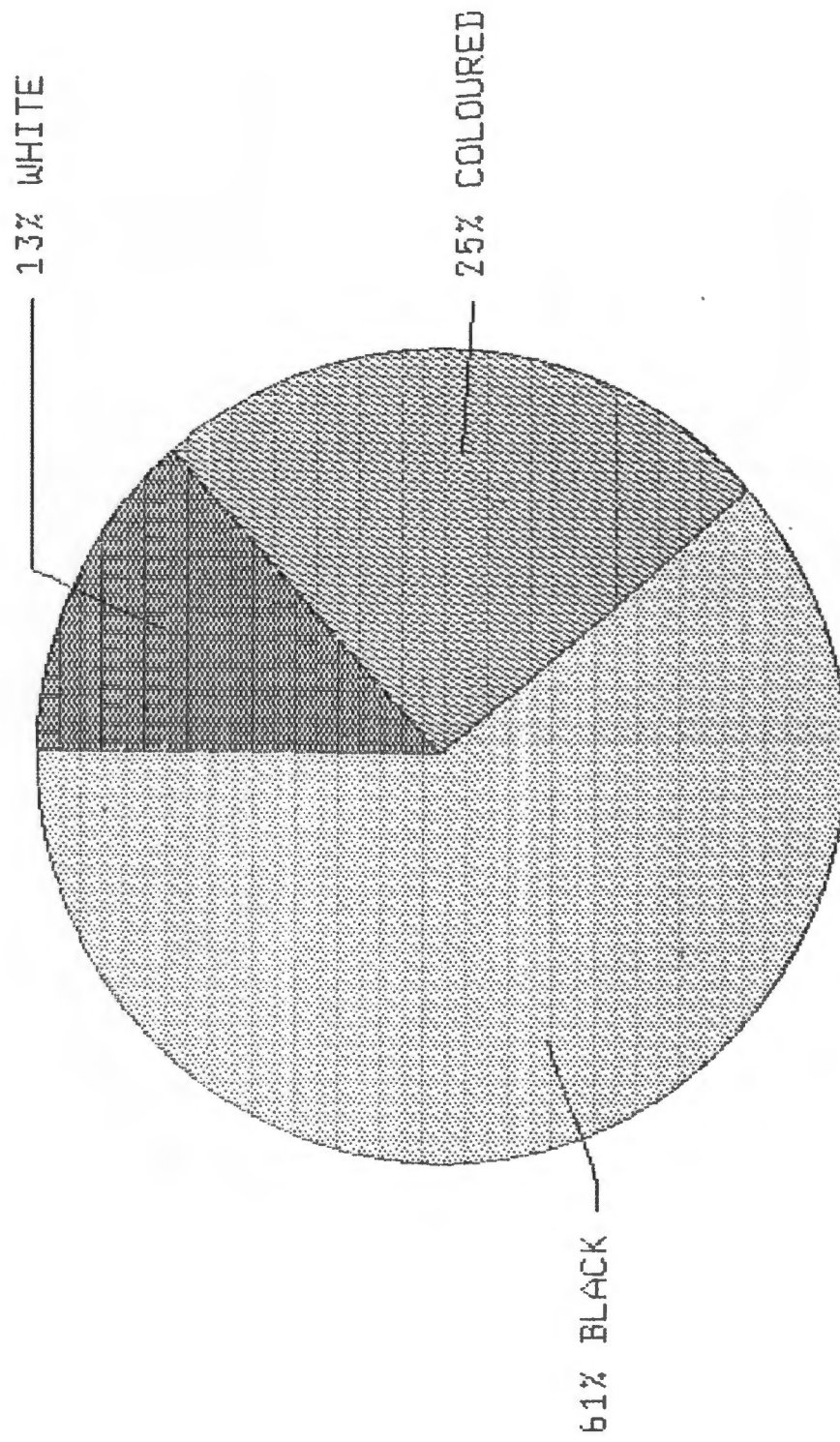
ACCESSIBILITY TO POISONS = NO BY POISON STORAGE



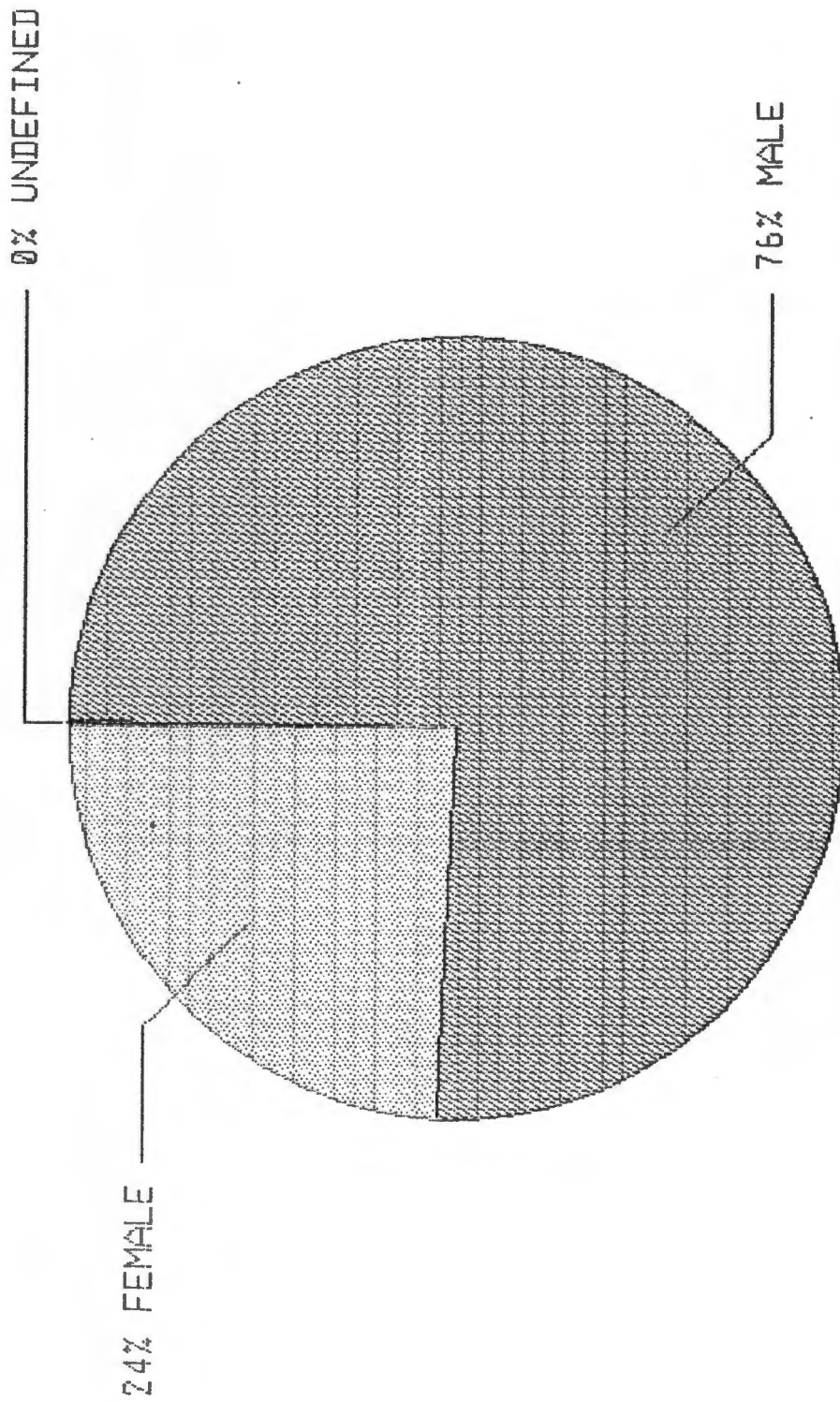
ARE CONTAINERS USED FOR DILUTING PROPERLY LABELLED



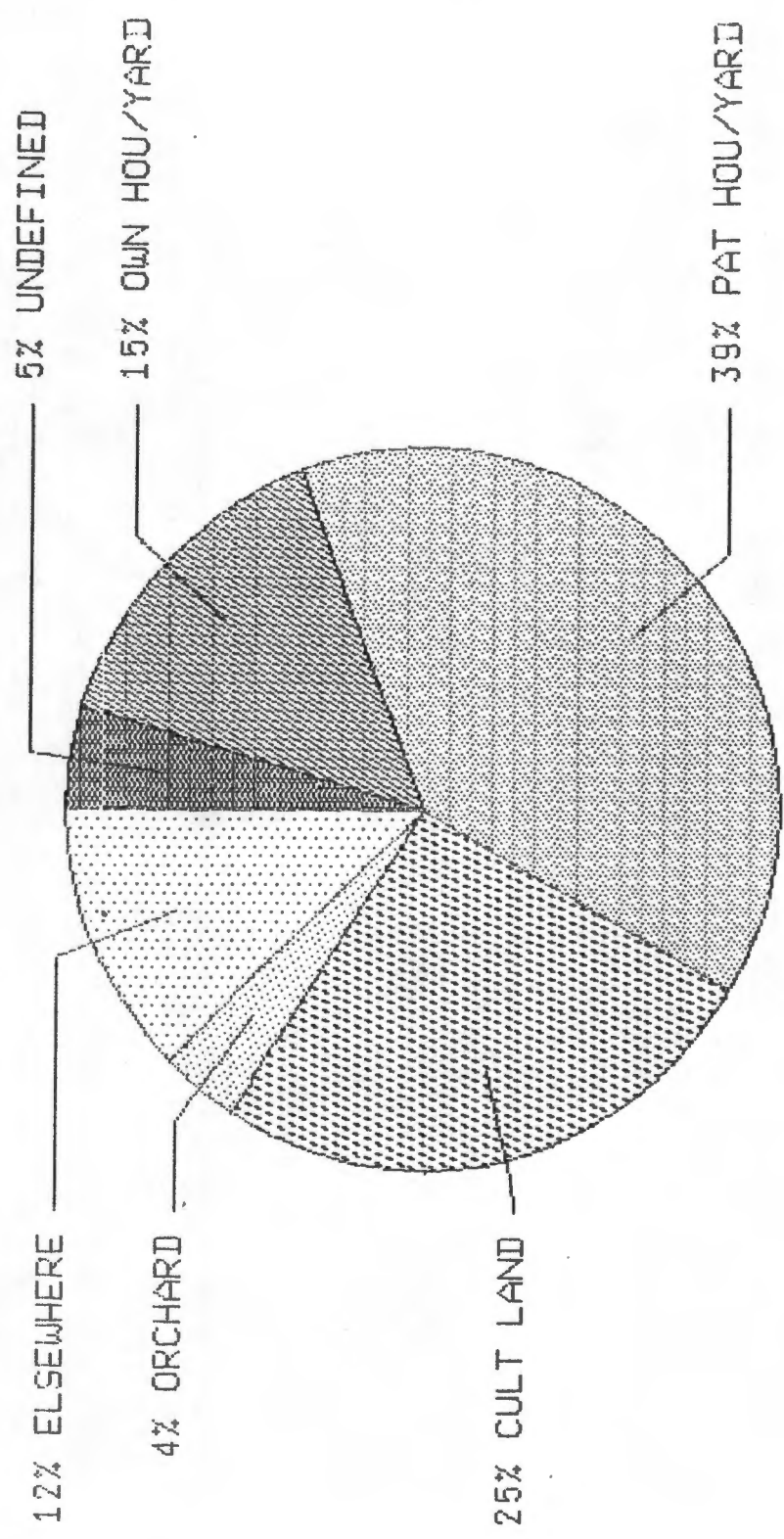
# POISONING BY RACE GROUPS



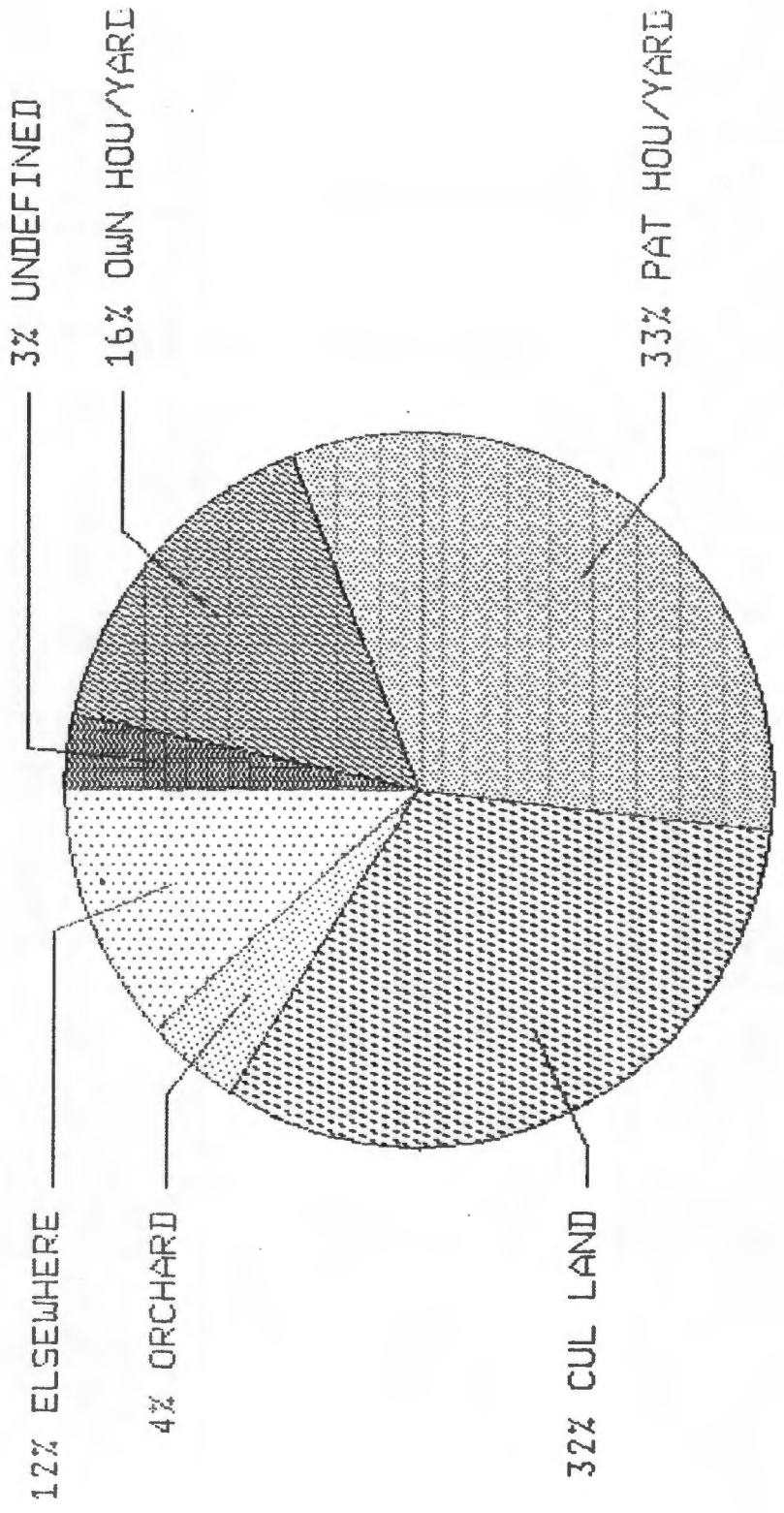
# SEX OF POISONED CASES



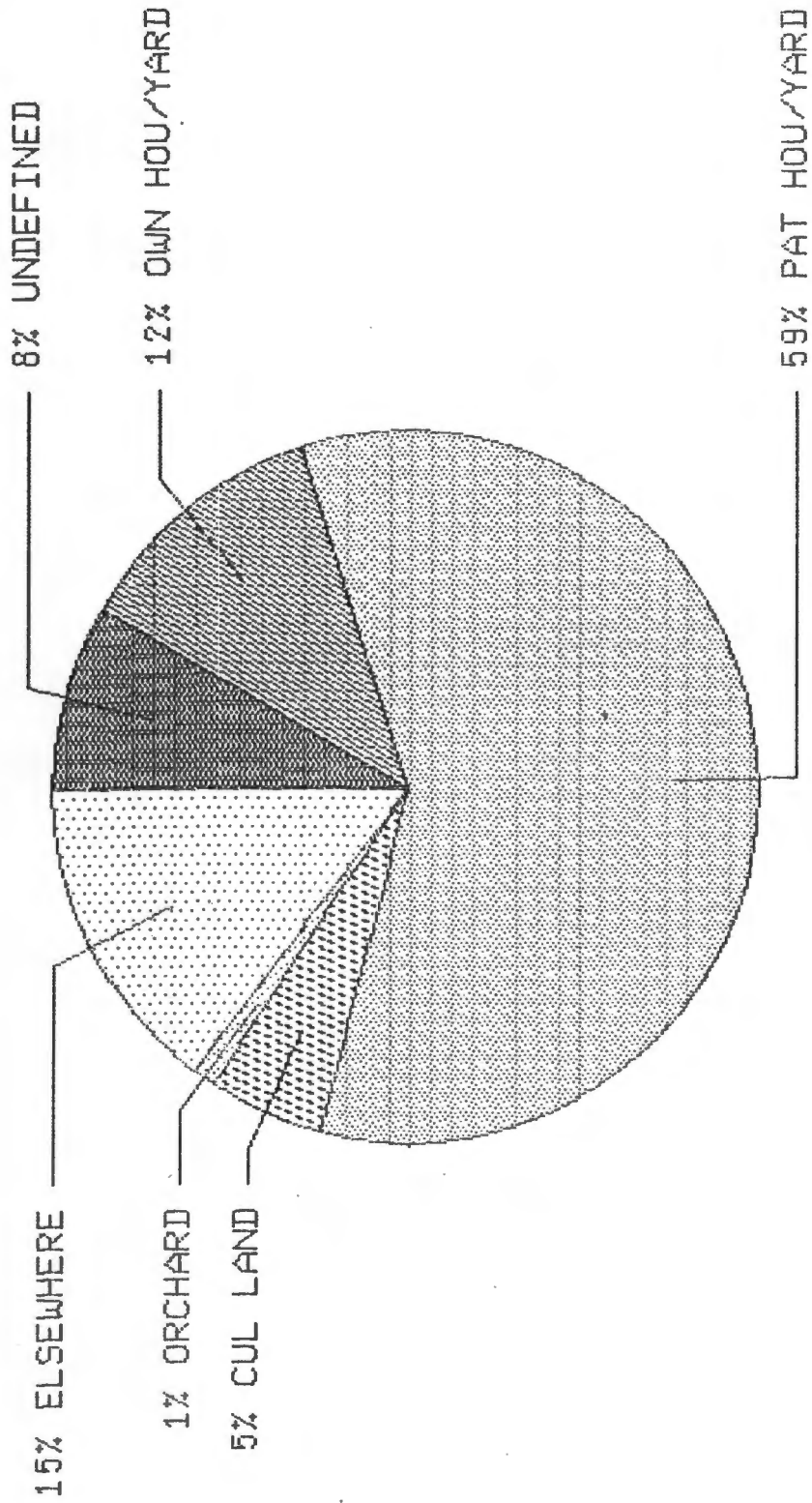
# LOCATION WHERE POISONING TOOK PLACE



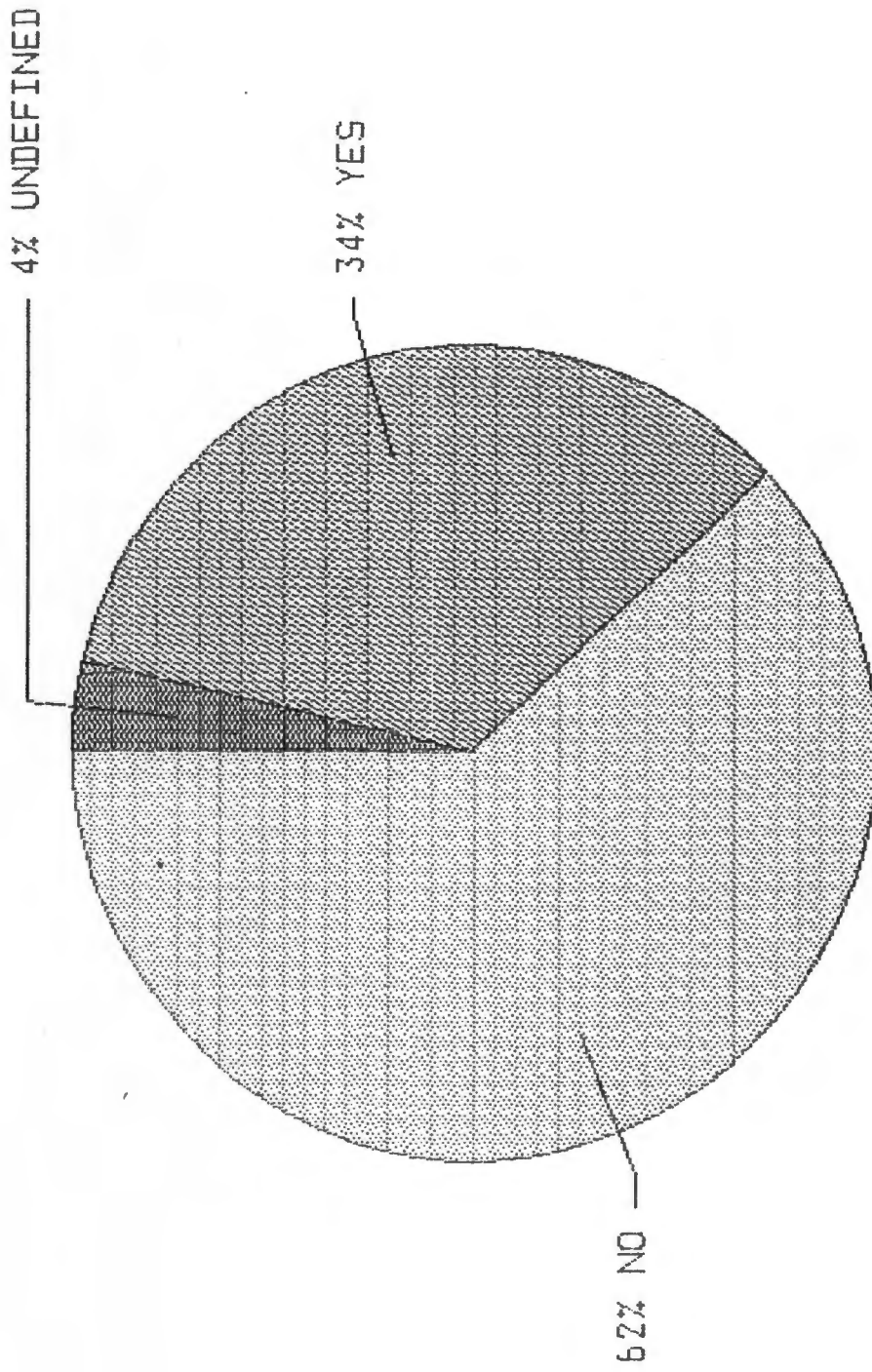
# WHERE DID POISONING OF MALES TAKE PLACE



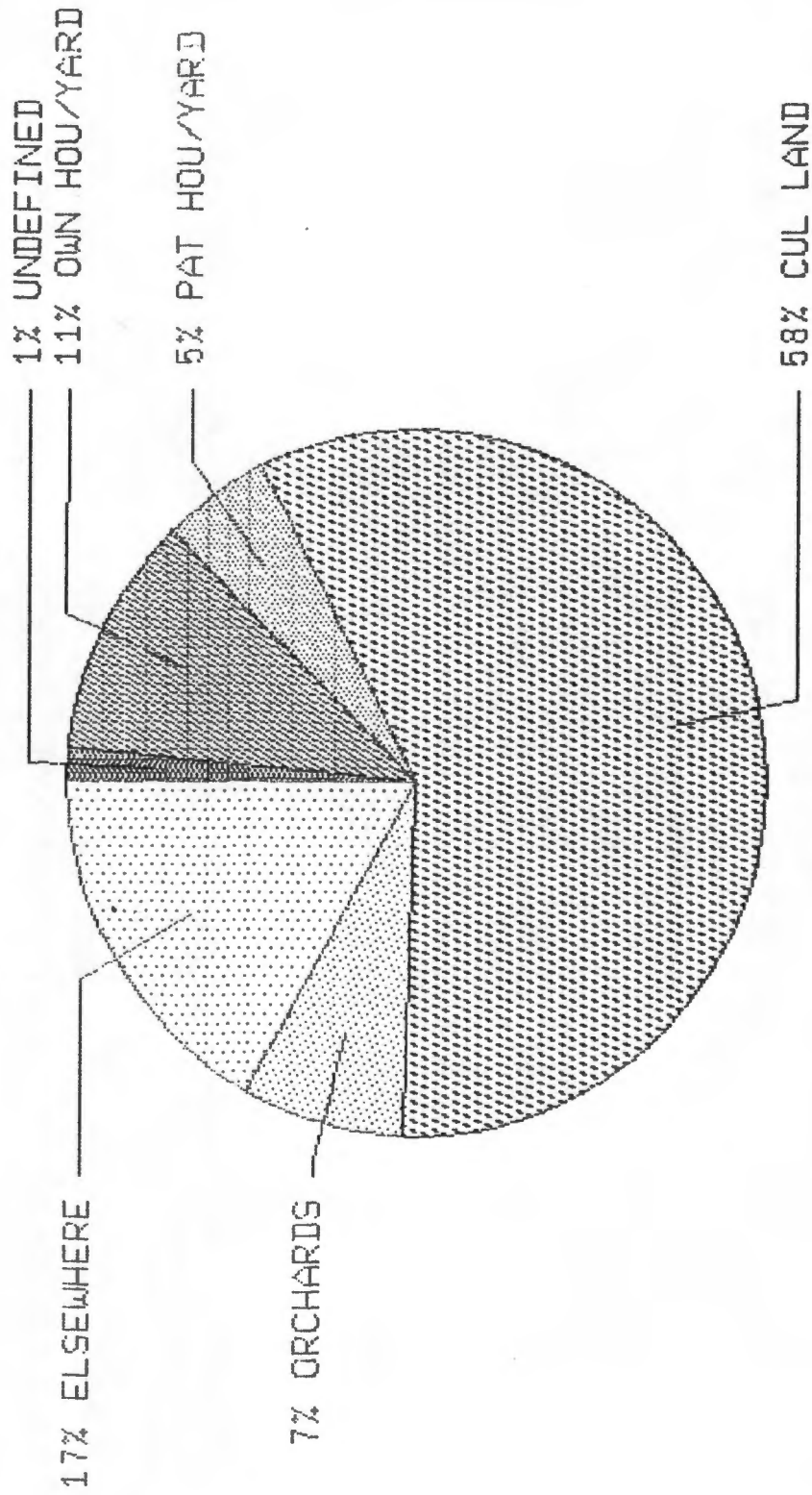
# WHERE DID POISONING OF FEMALES TAKE PLACE



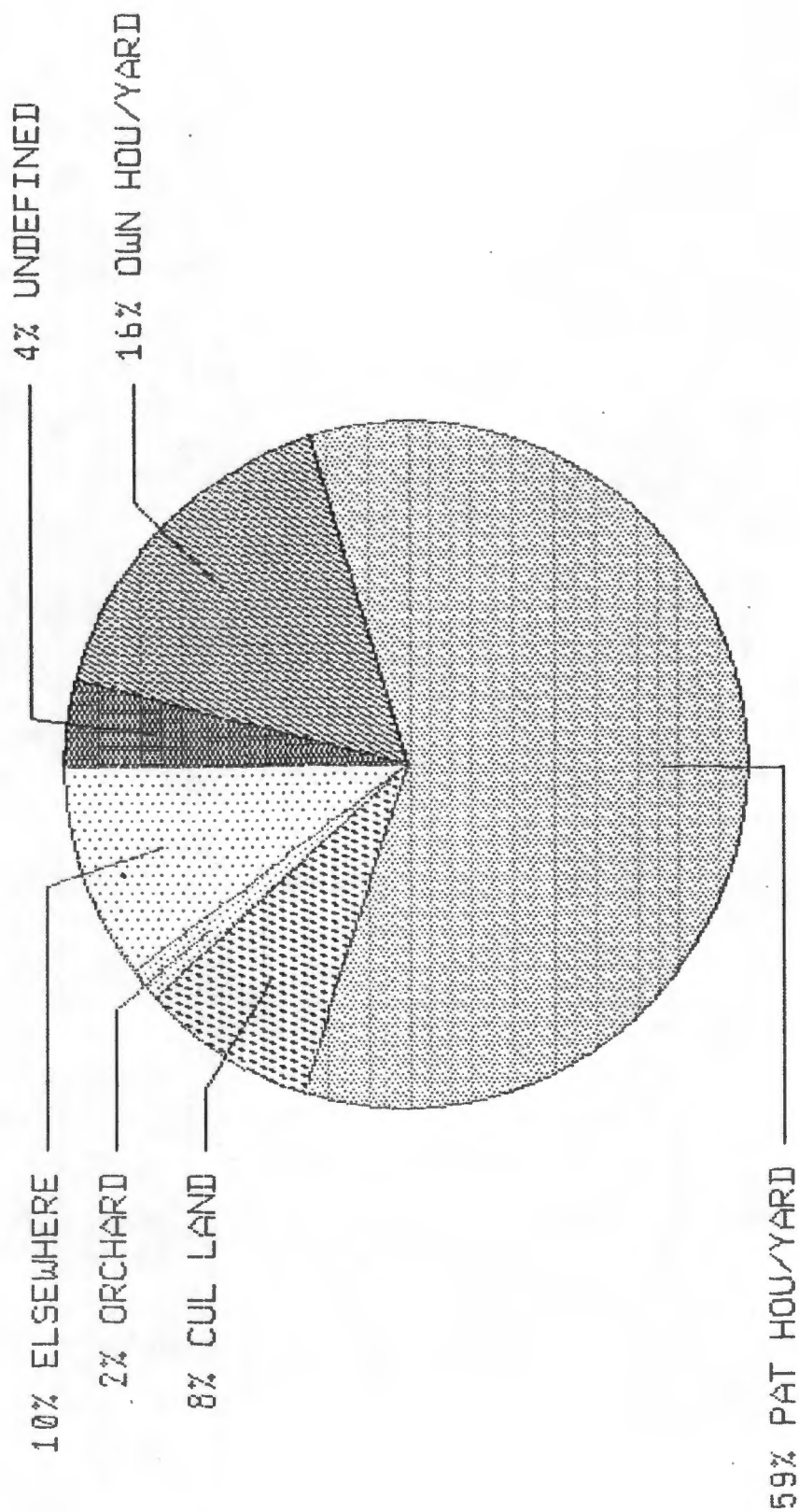
# DID POISONING TOOK PLACE DURING NORMAL DUTIES



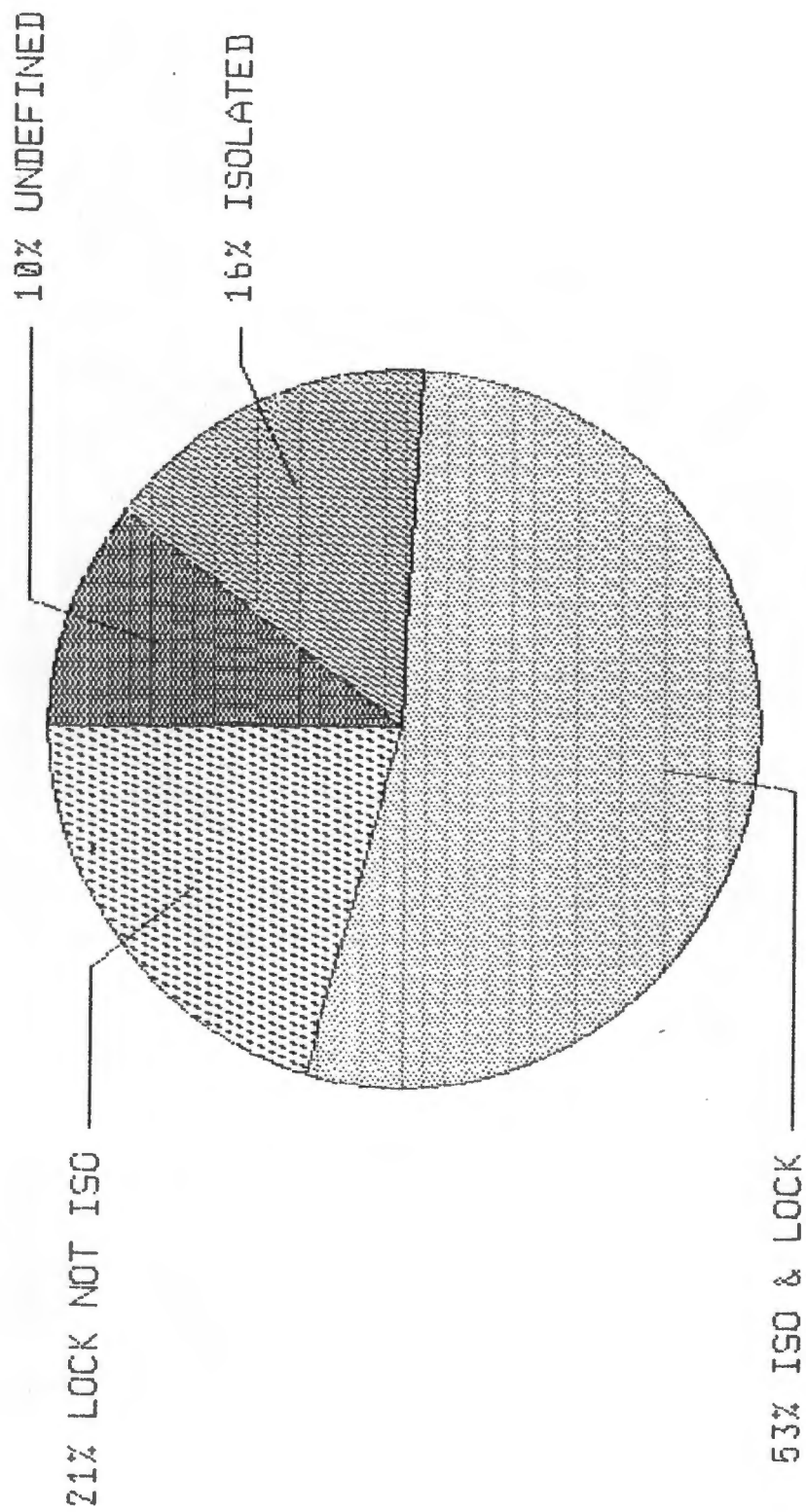
POISONING DURING NORMAL DUTIES=YES AT WHICH LOCATION



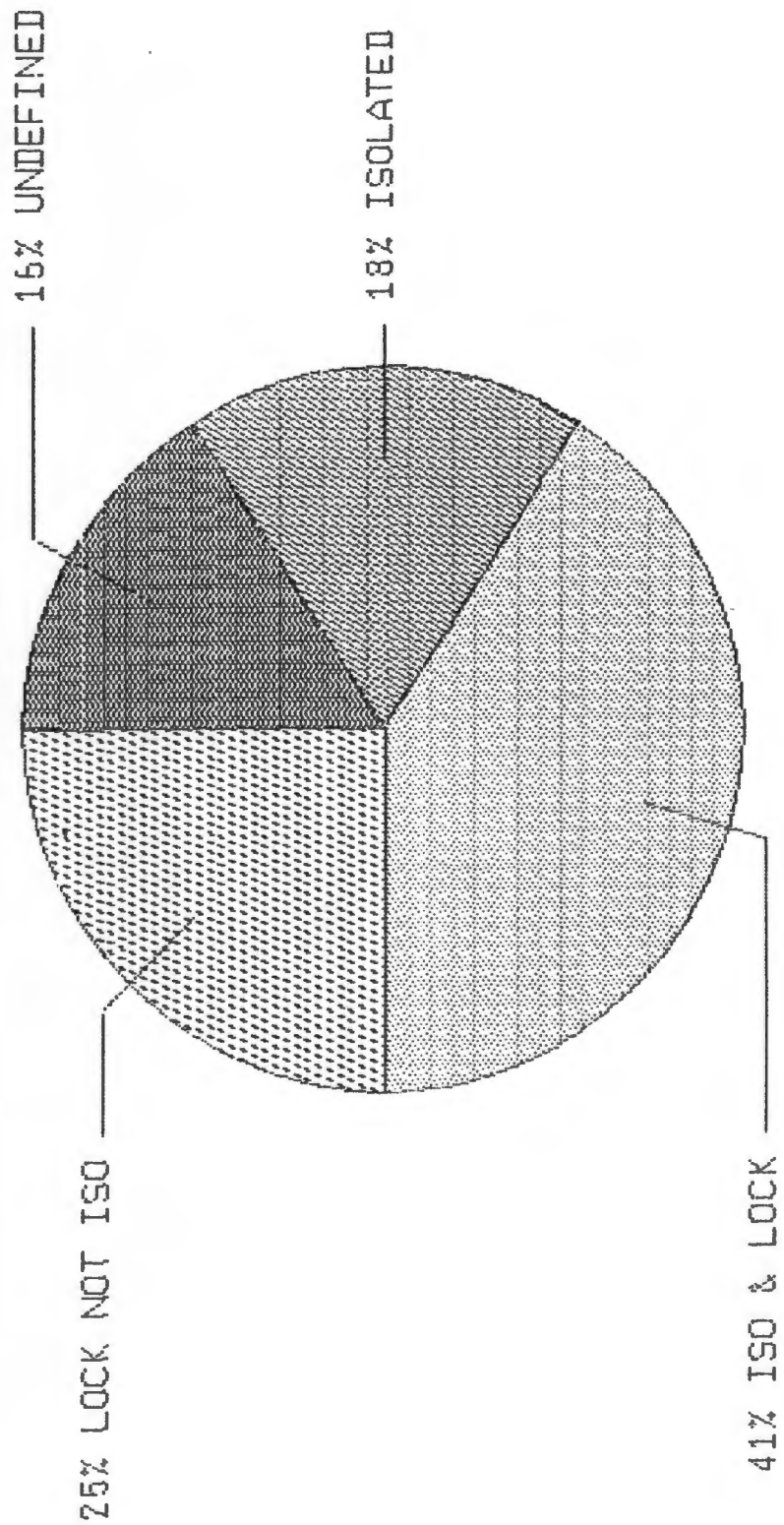
POISONING DURING NORMAL DUTIES=NO AT WHICH LOCATION



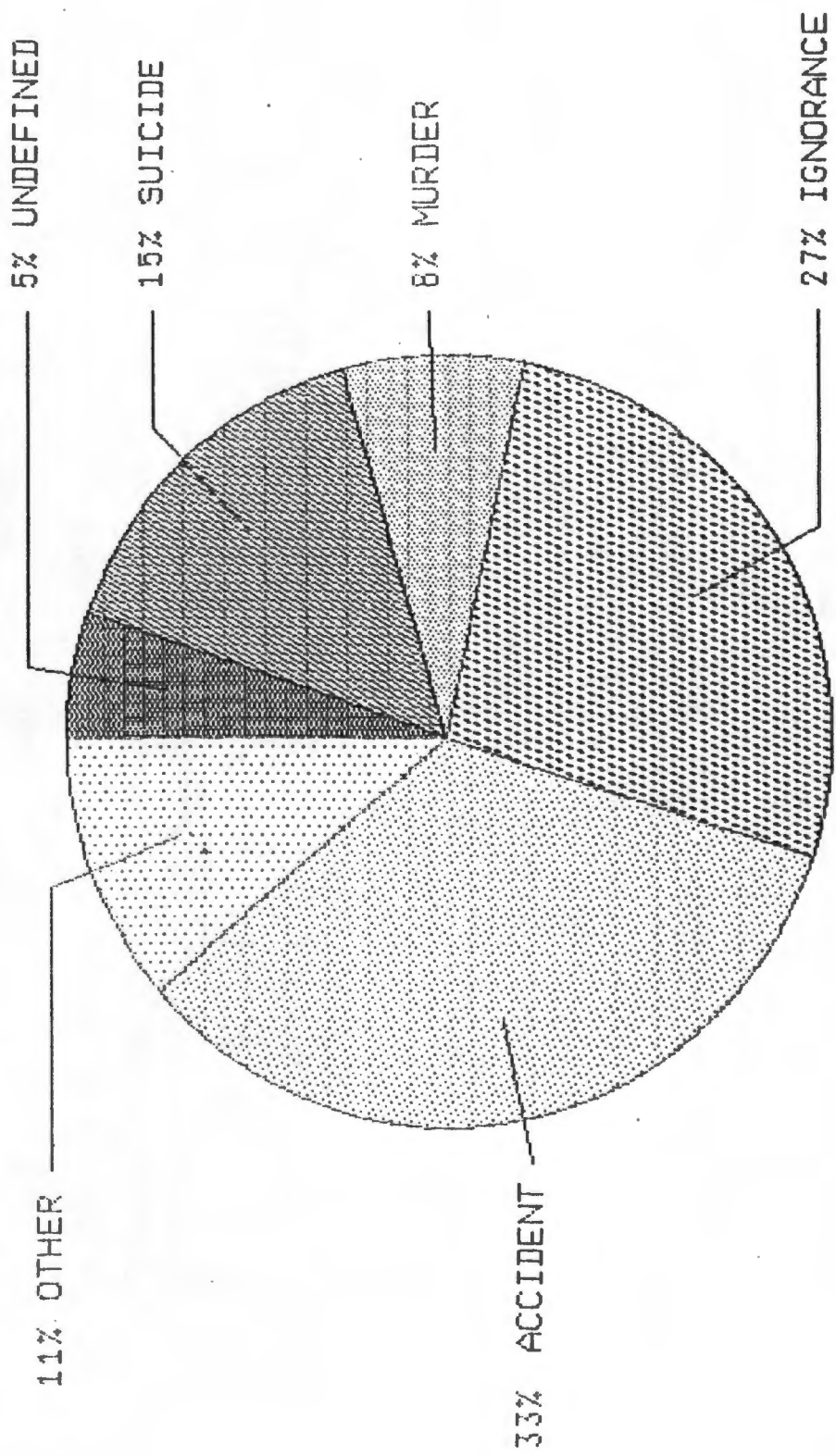
# POISONING DURING NORMAL HOURS=YES PER POISON STORAGE



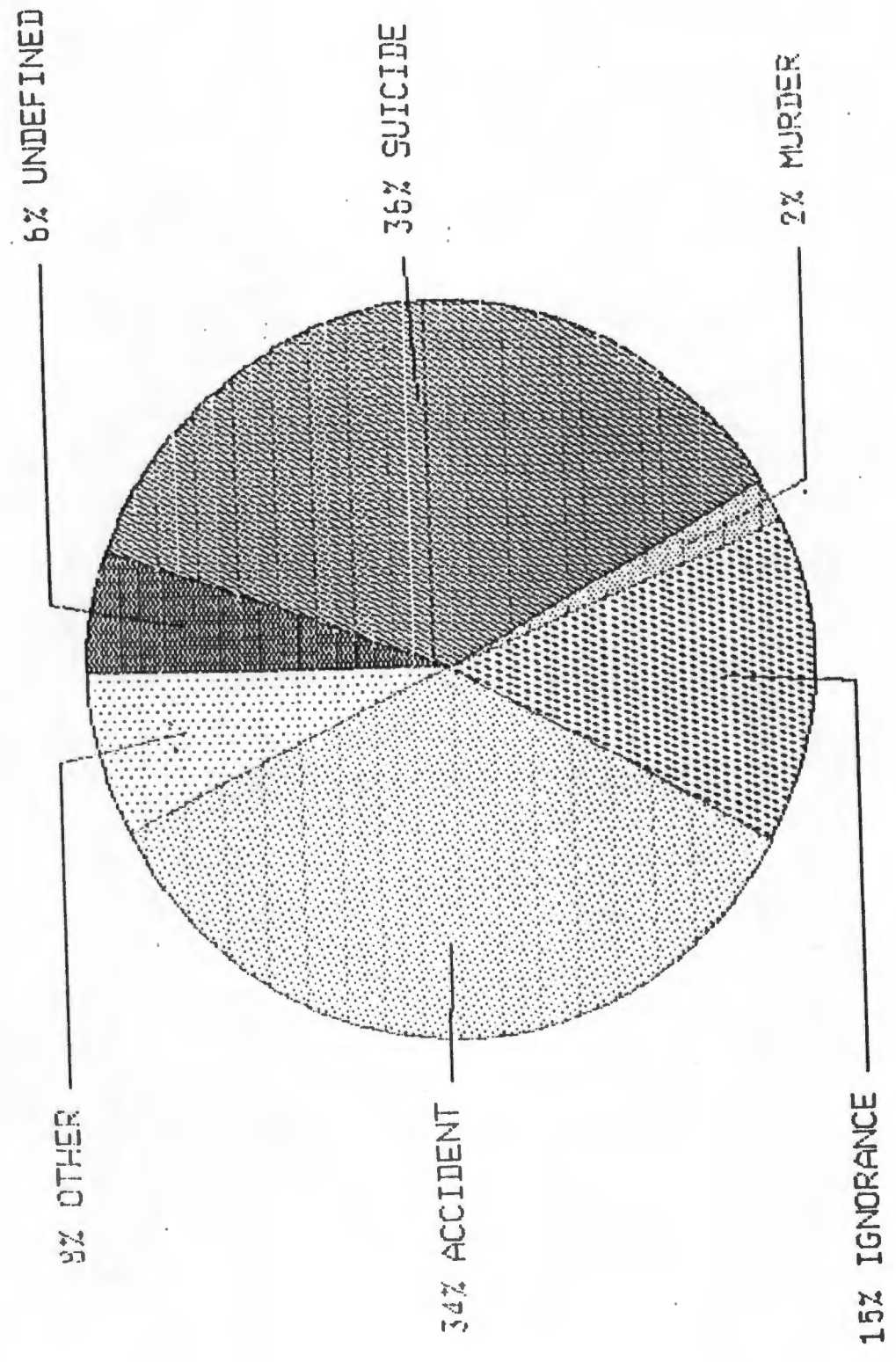
# POISONING DURING NORMAL HOURS=NO PER POISON STORAGE



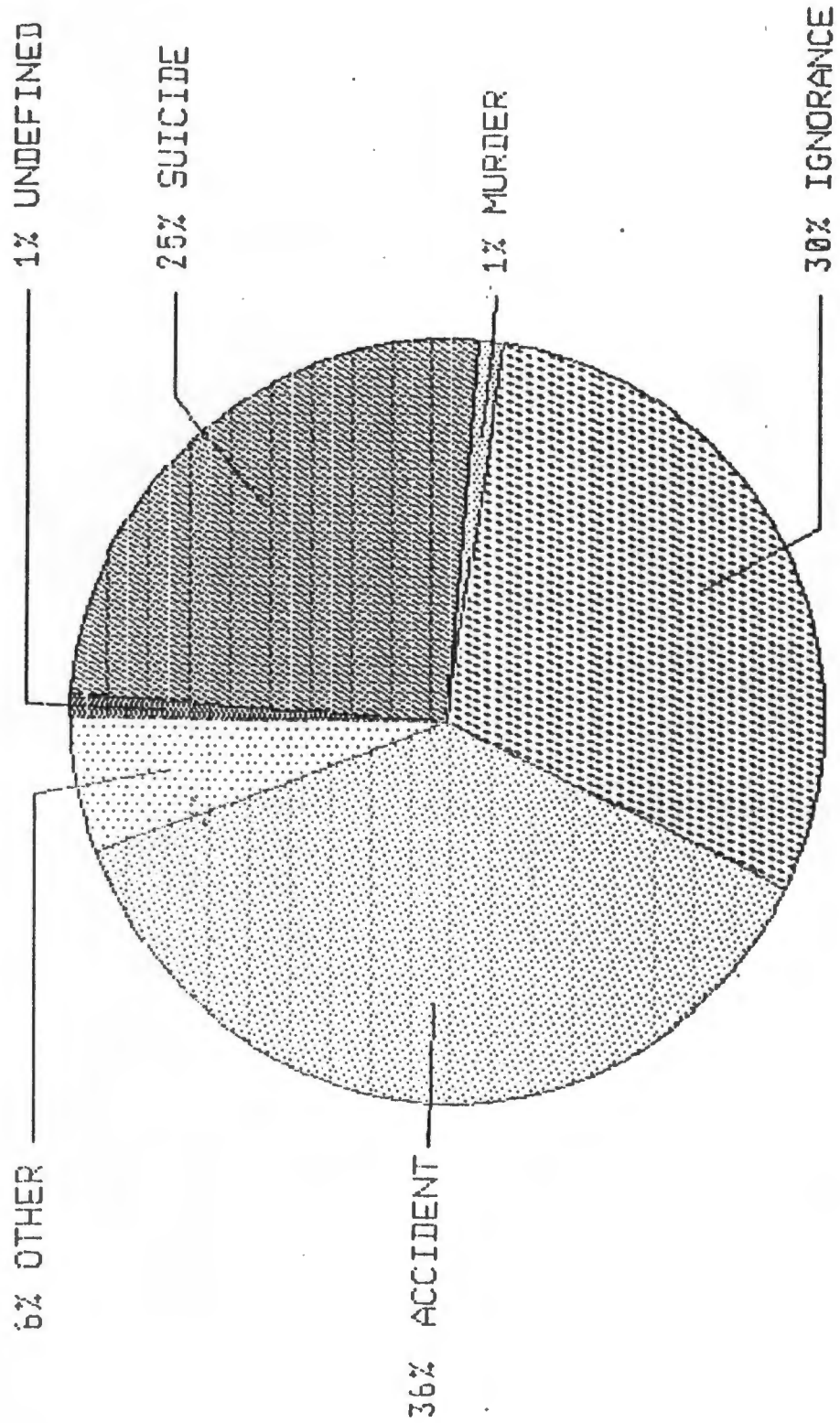
# REASONS FOR POISONING



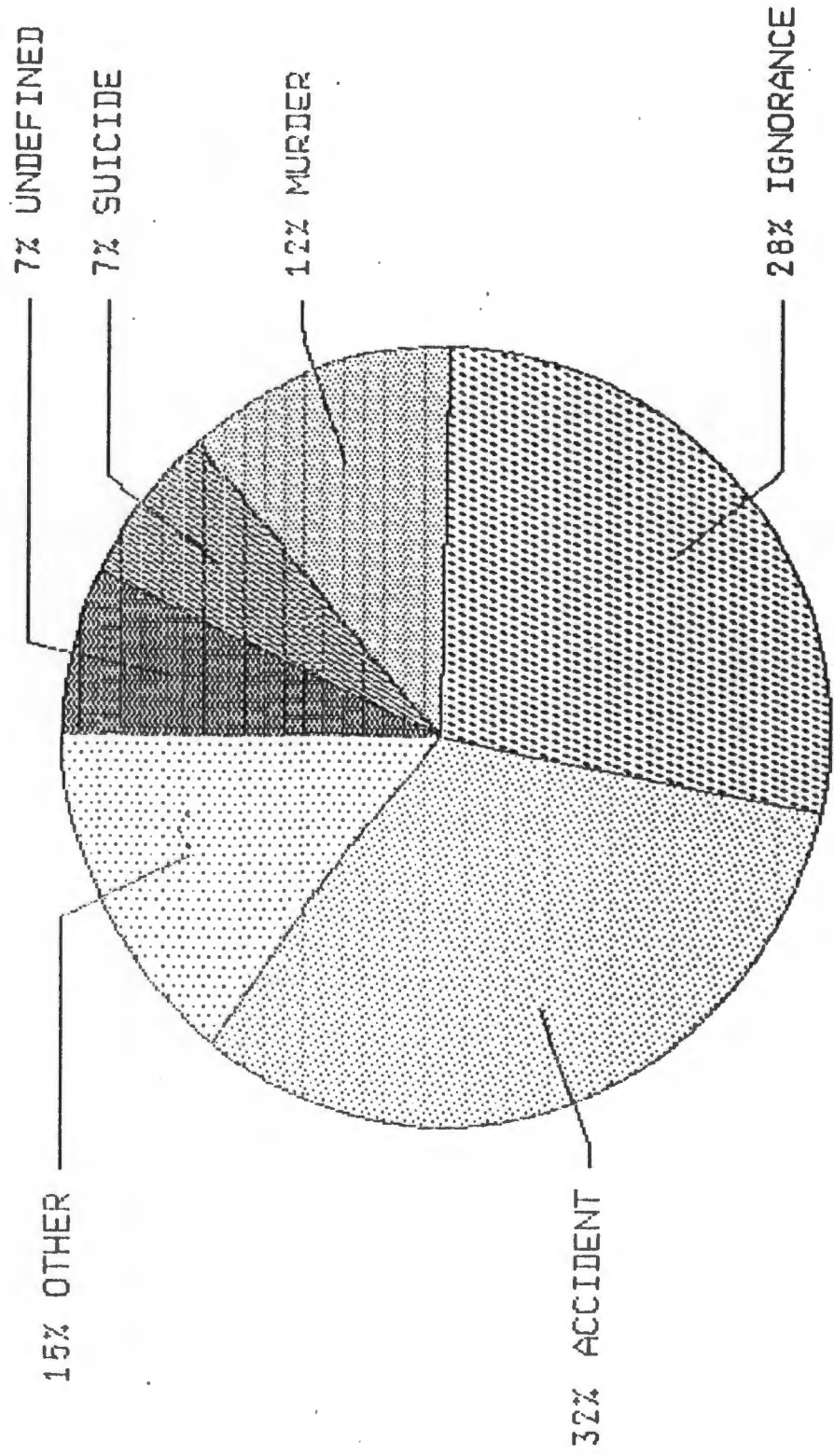
# REASONS FOR POISONING PER RACE GROUP=WHITE



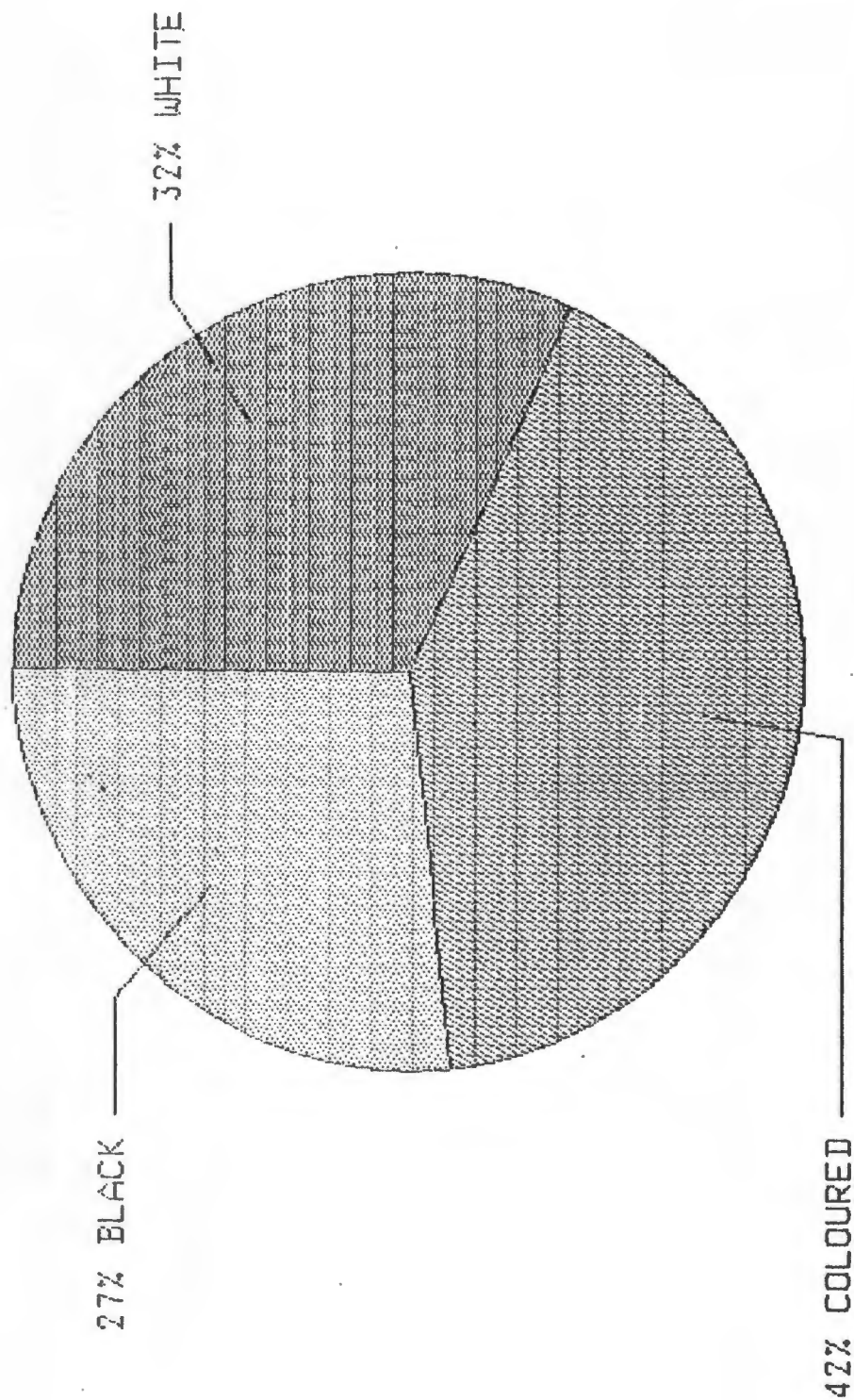
REASONS FOR POISONING BY RACE GROUP=COLOURED



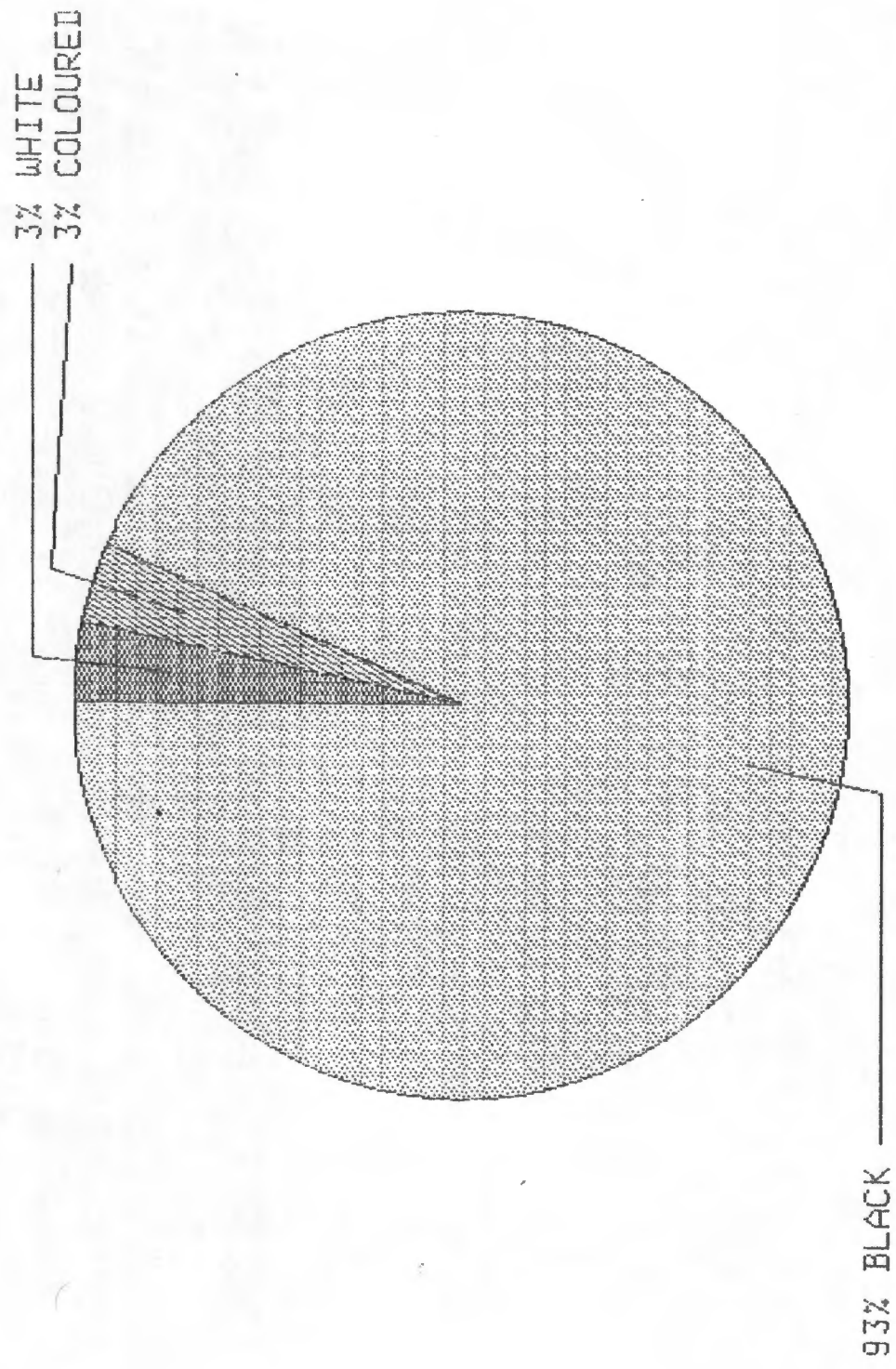
REASONS FOR POISONING PER RACE GROUP=BLACK



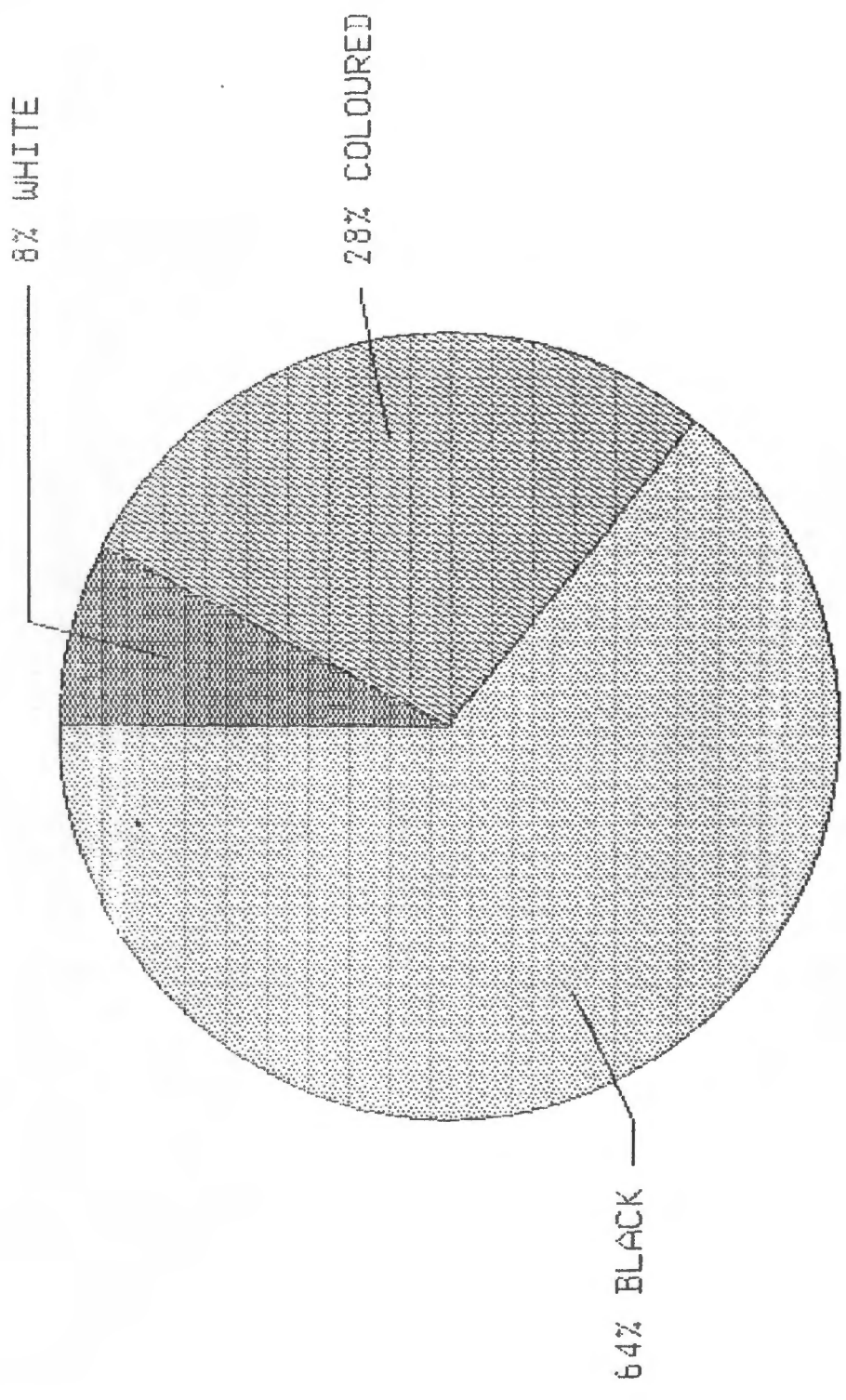
REASON FOR POISONING=SUICIDE / RACE GROUP



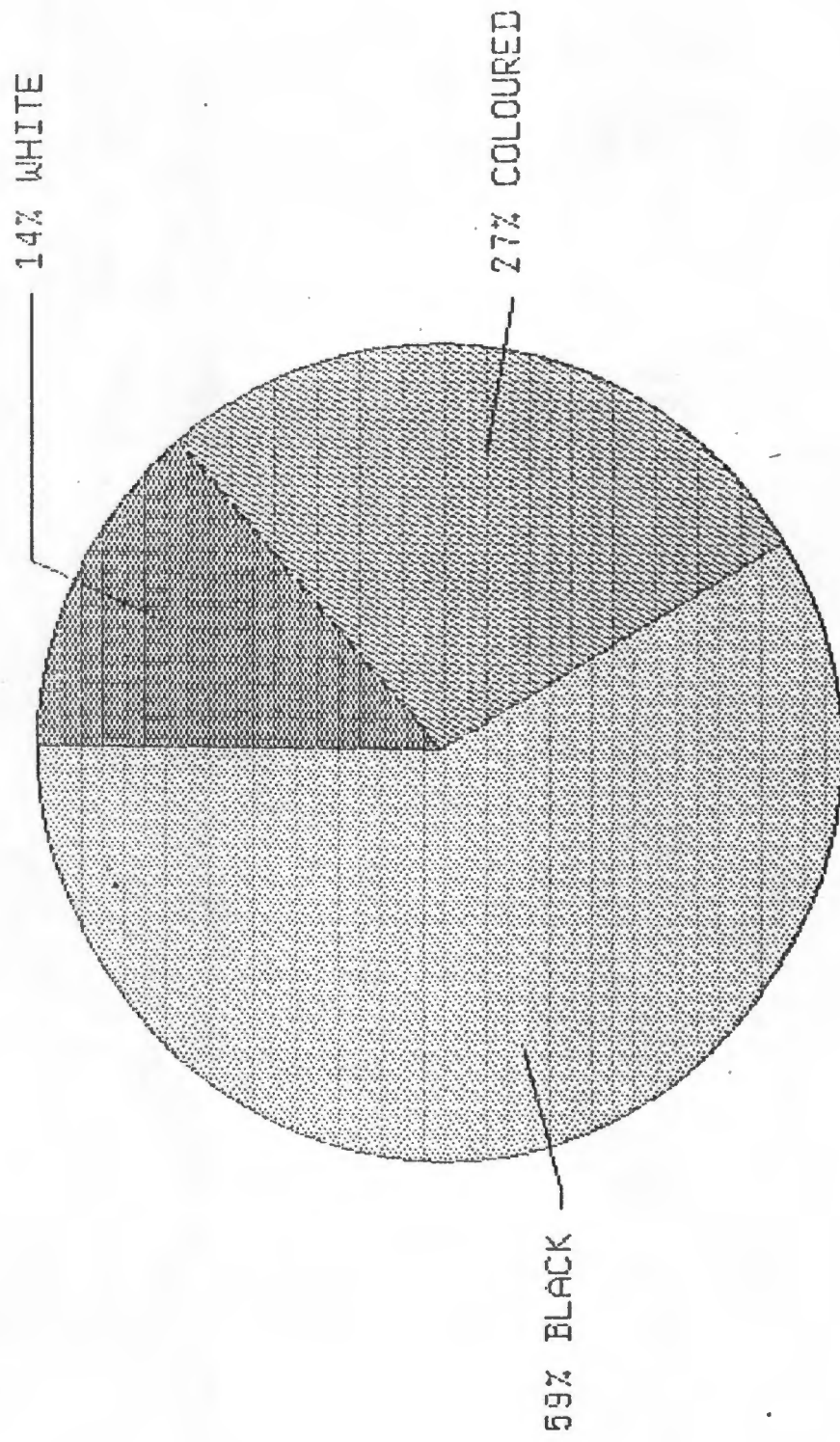
REASON FOR POISONING=MURDER / RACE GROUP



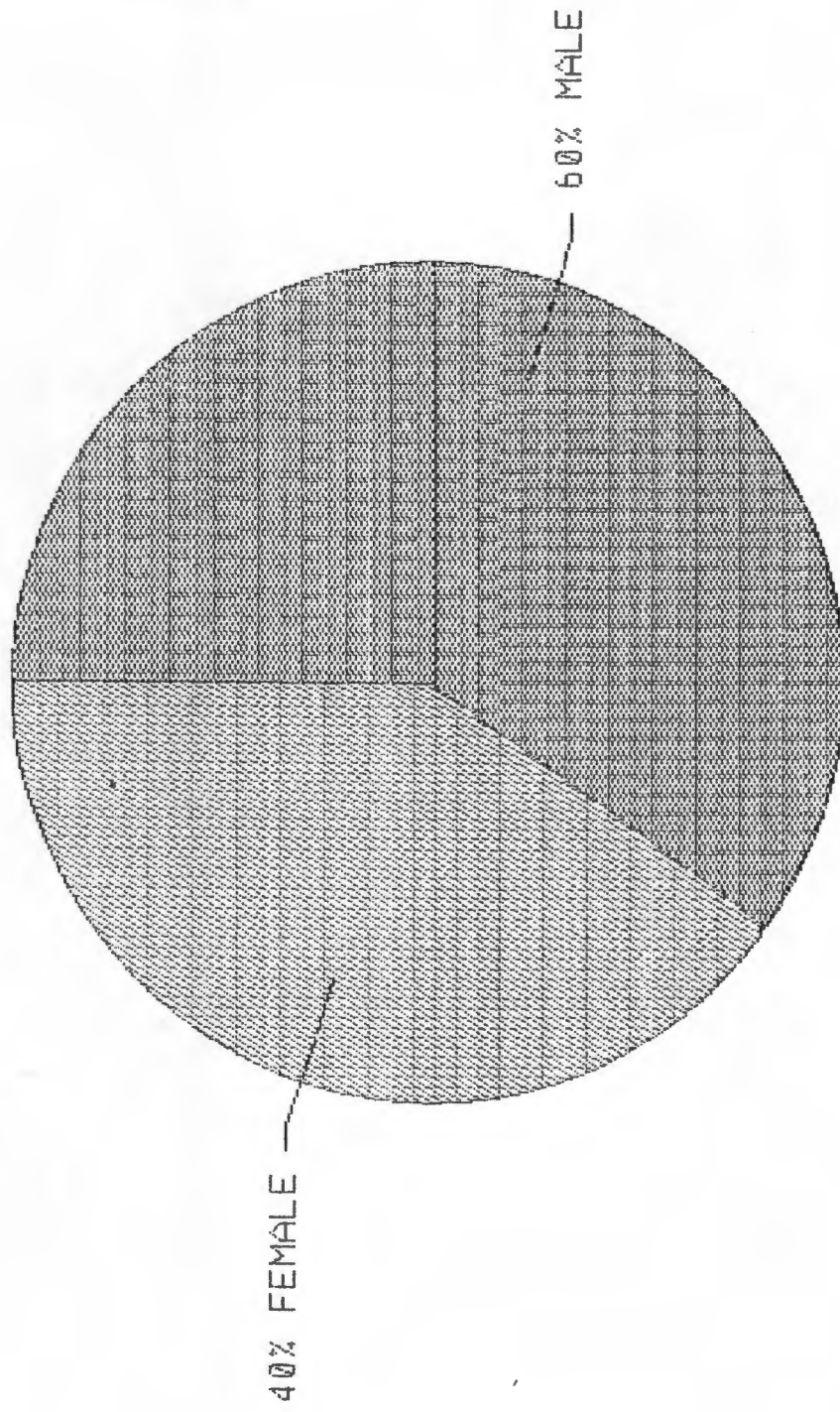
REASON FOR POISONING=IGNORANCE / RACE GROUP



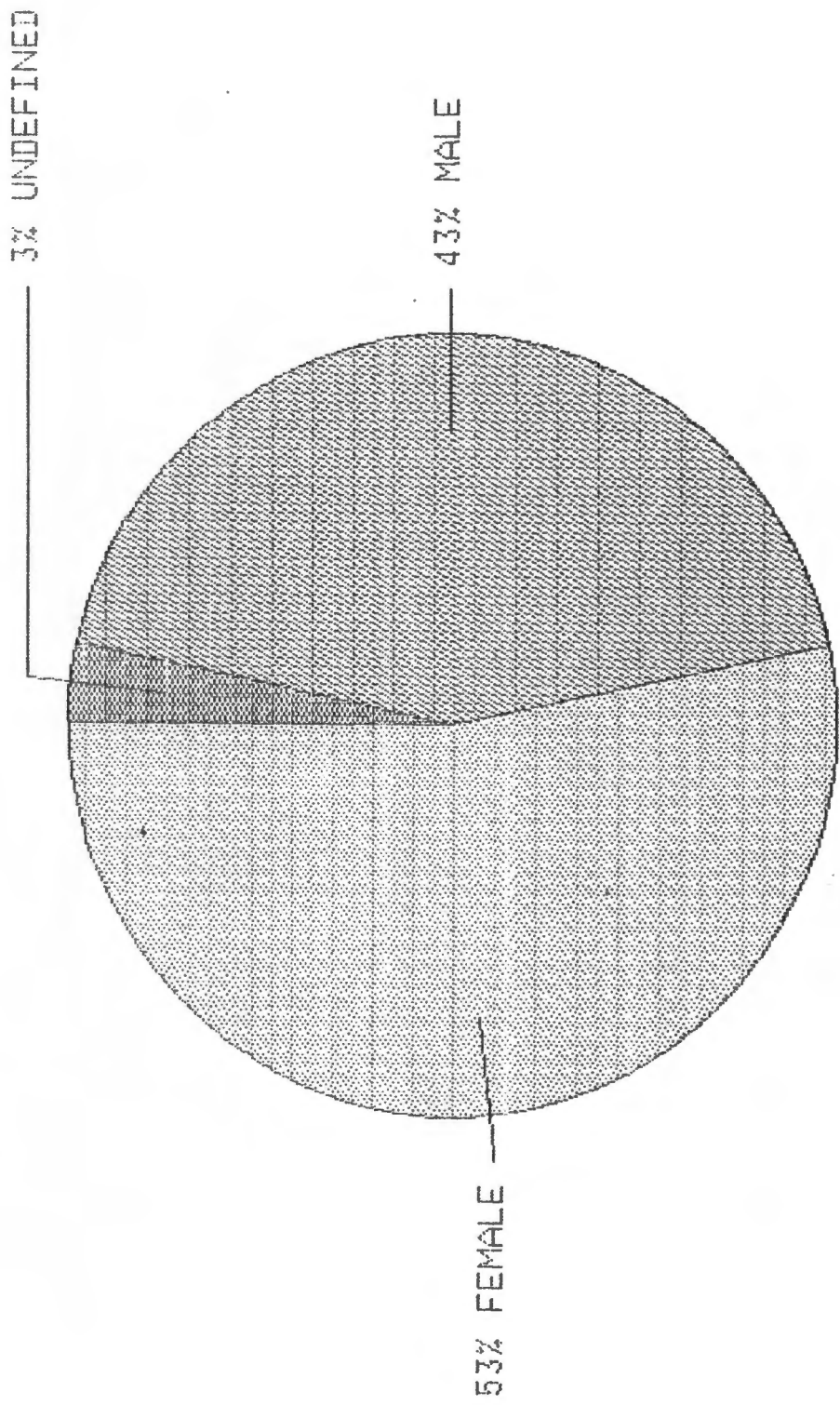
REASON FOR POISONING= ACCIDENT / RACE GROUP



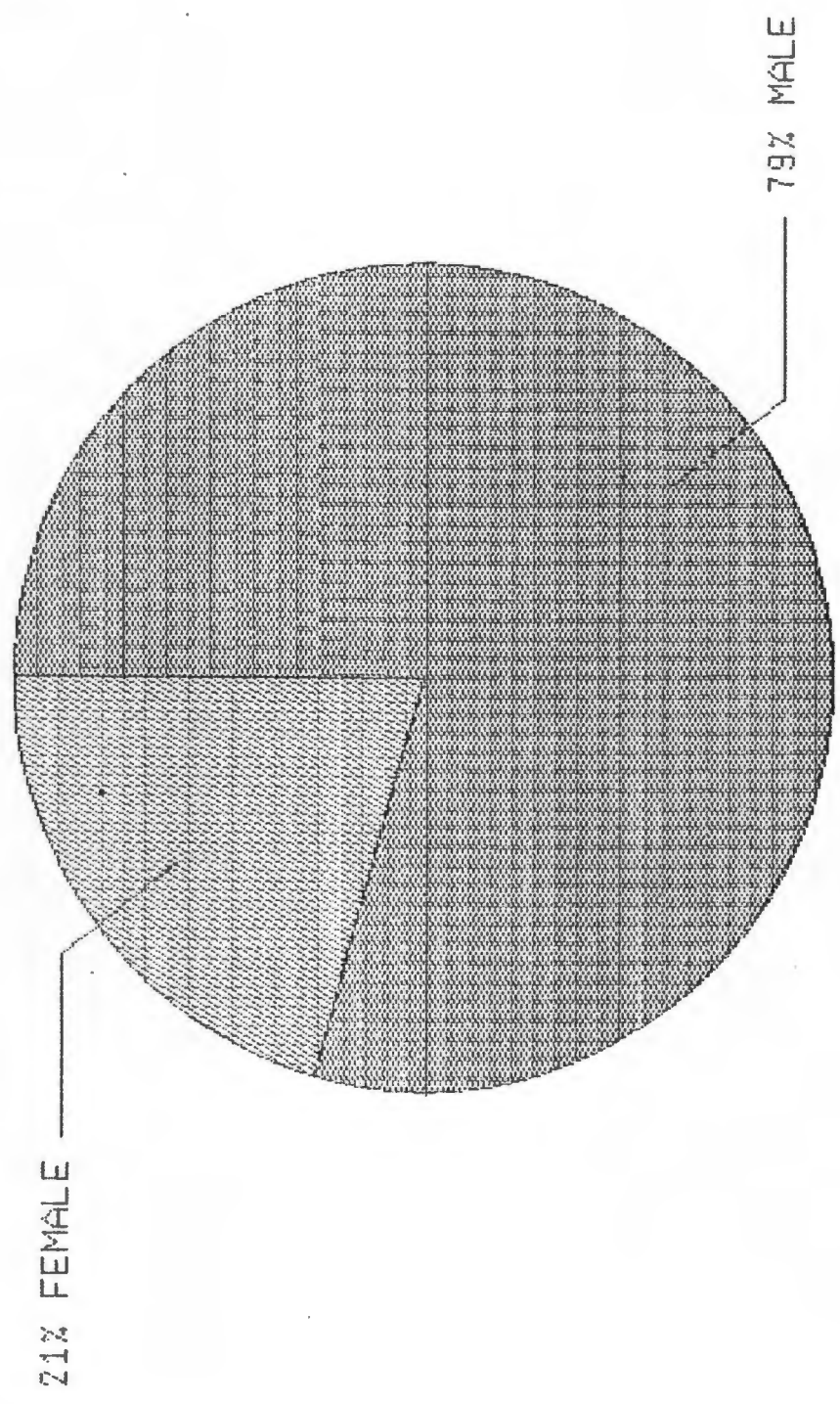
REASON FOR POISONING=SUICIDE / SEX



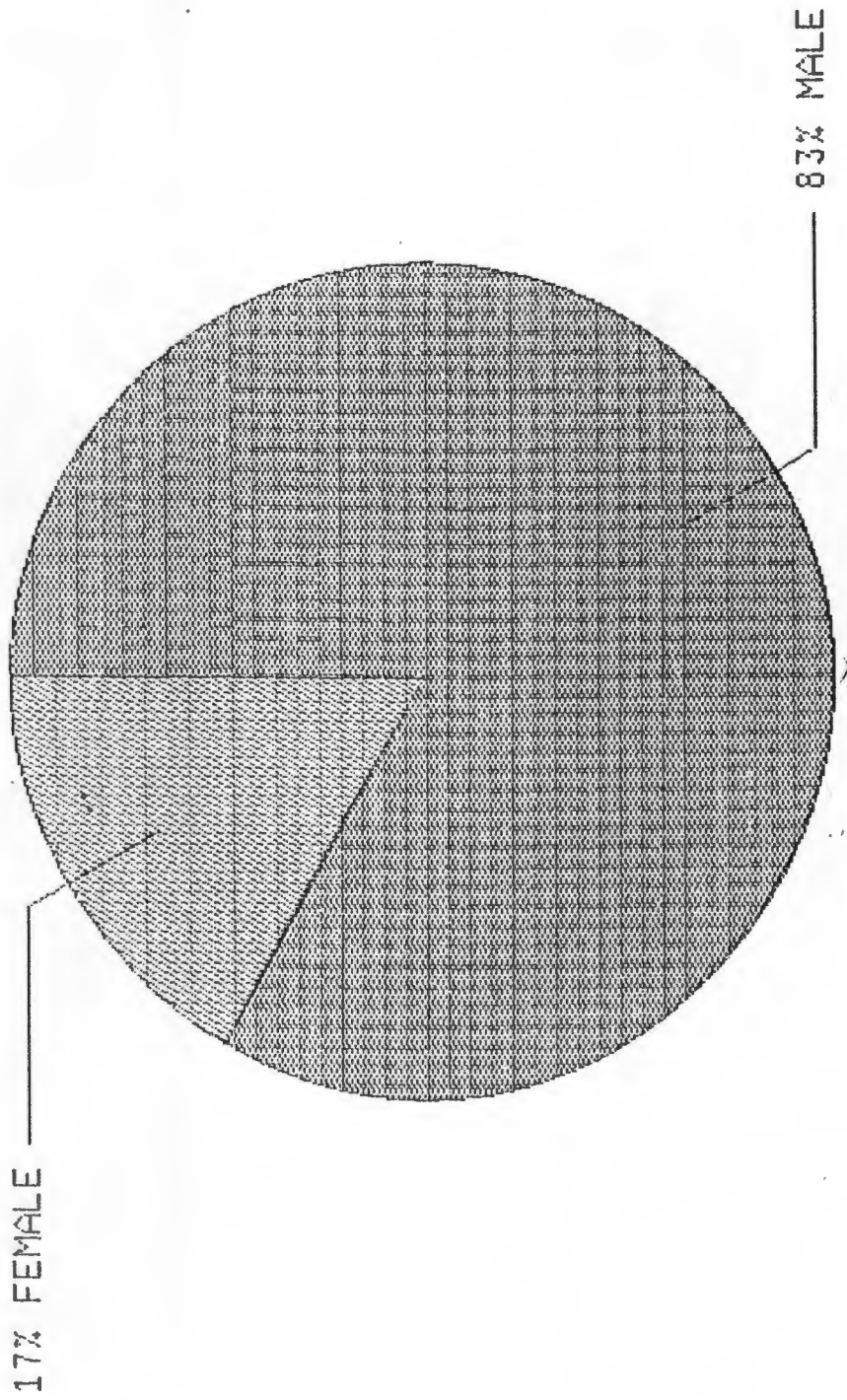
REASON FOR POISONING=MURDER / SEX



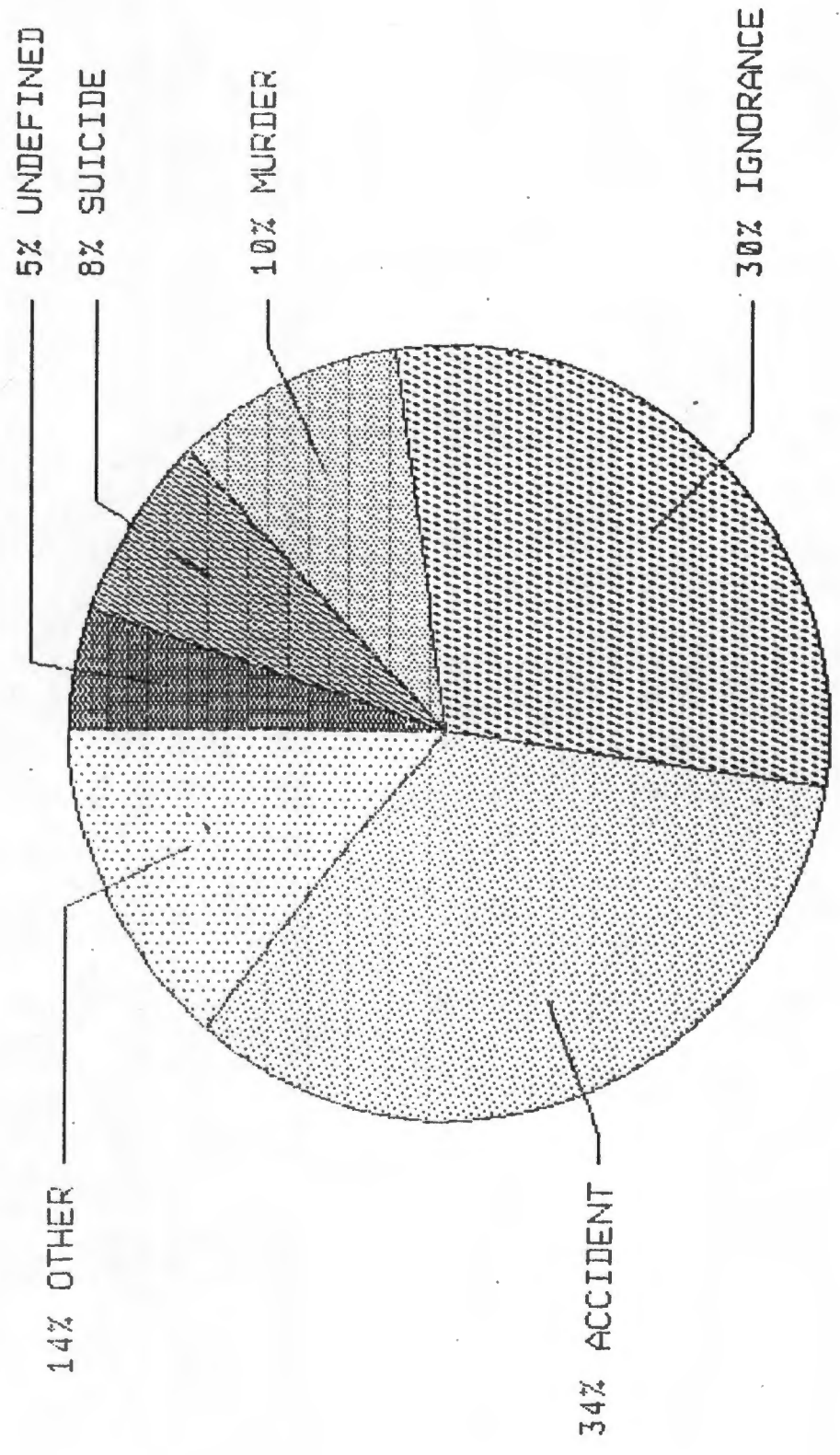
REASON FOR POISONING=IGNORANCE / SEX



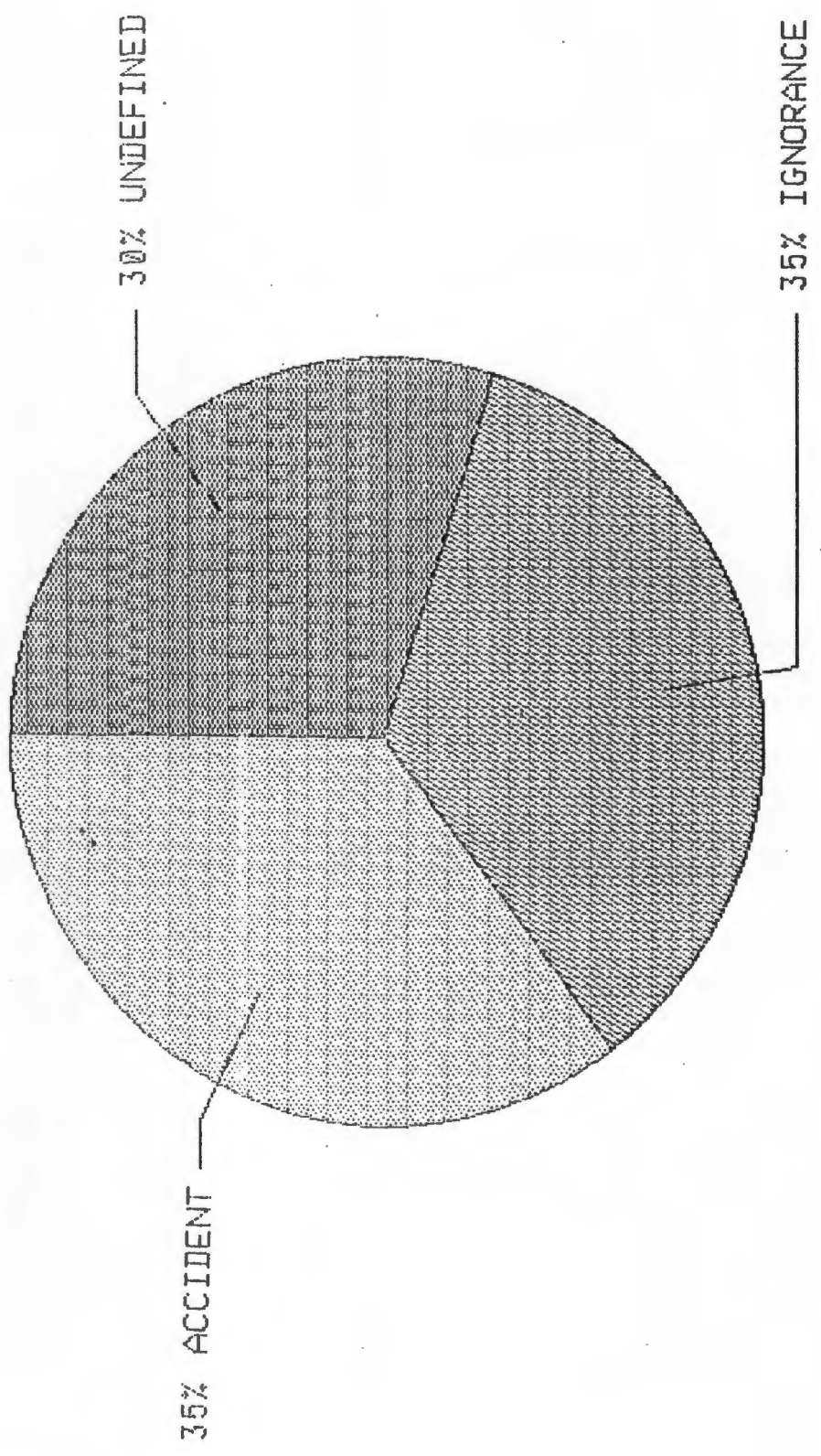
REASON FOR POISONING = ACCIDENT / SEX



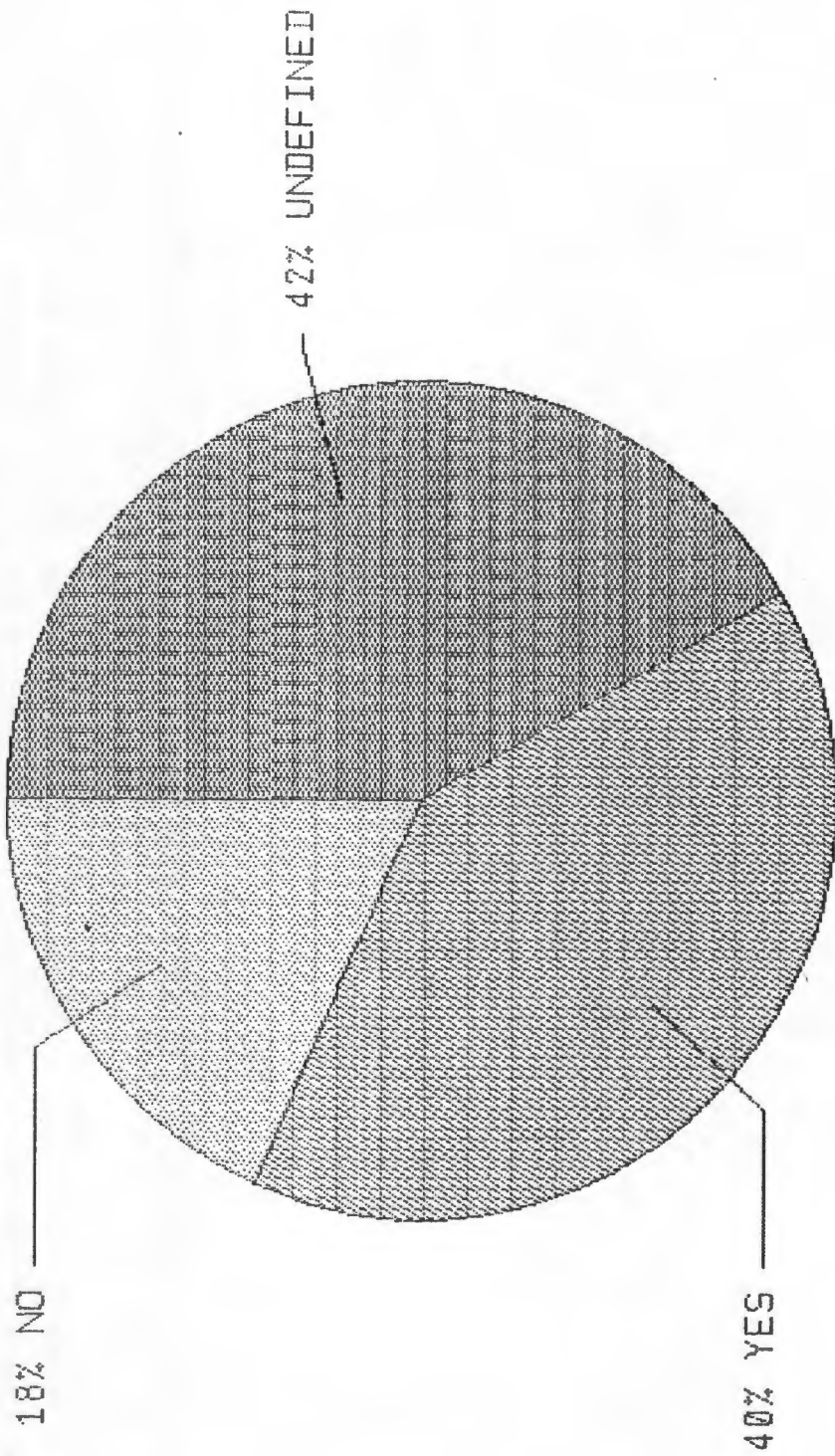
GUIDANCE GIVEN TO WORKERS=YES PER REASON FOR POISONING



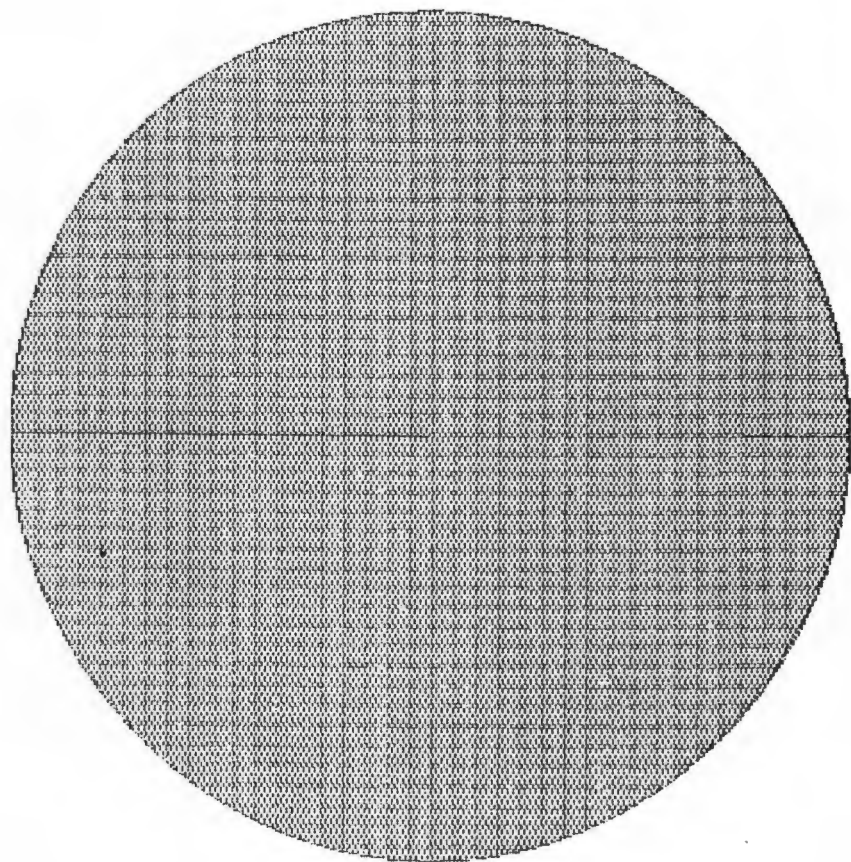
GUIDANCE GIVEN TO WORKERS=NO / REASON FOR POISONING



REASON FOR POISONING=SUICIDE / WERE GUIDANCE GIVEN TO WORKERS

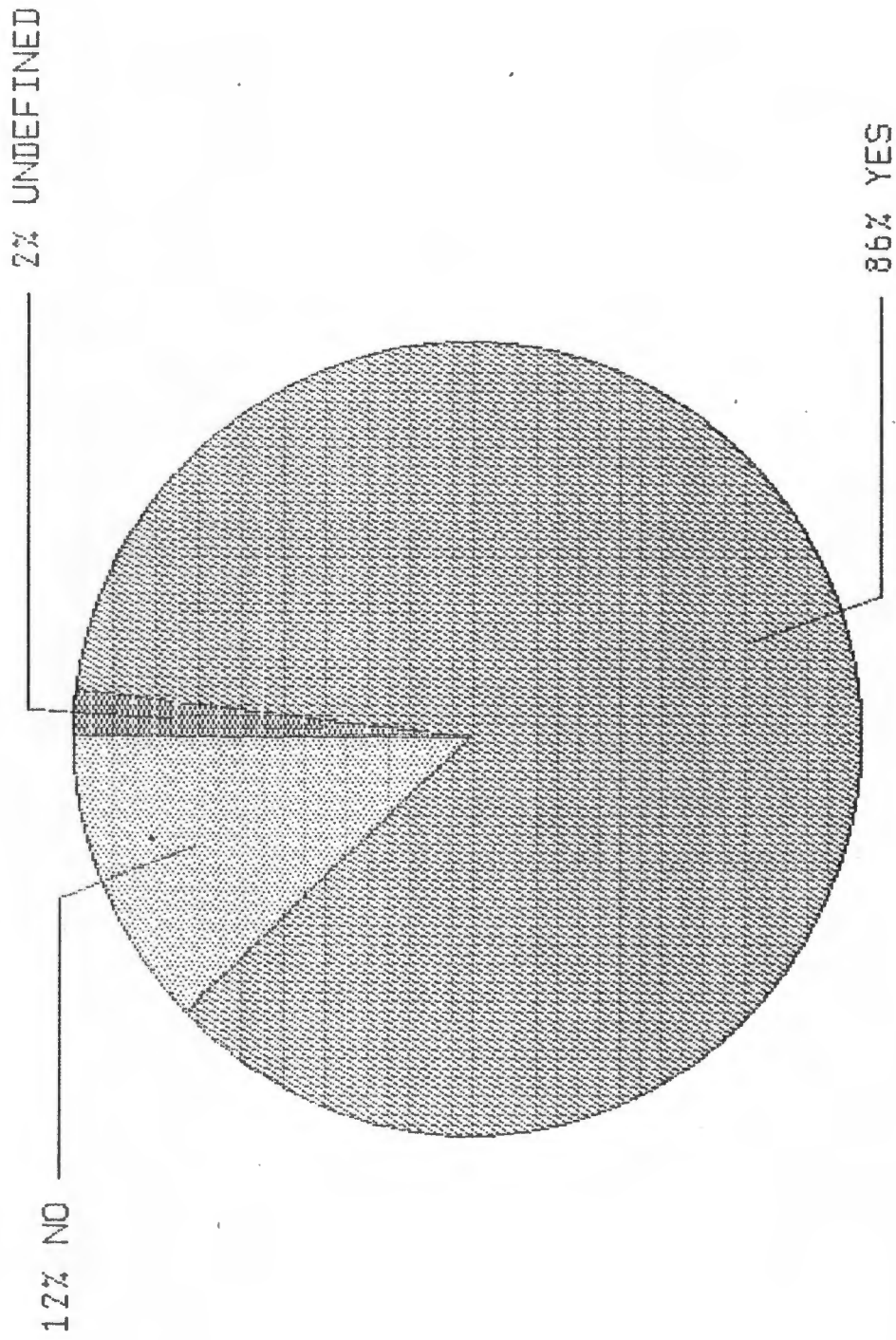


REASON FOR POISONING=MURDER / WERE GUIDANCE GIVEN TO WORKERS

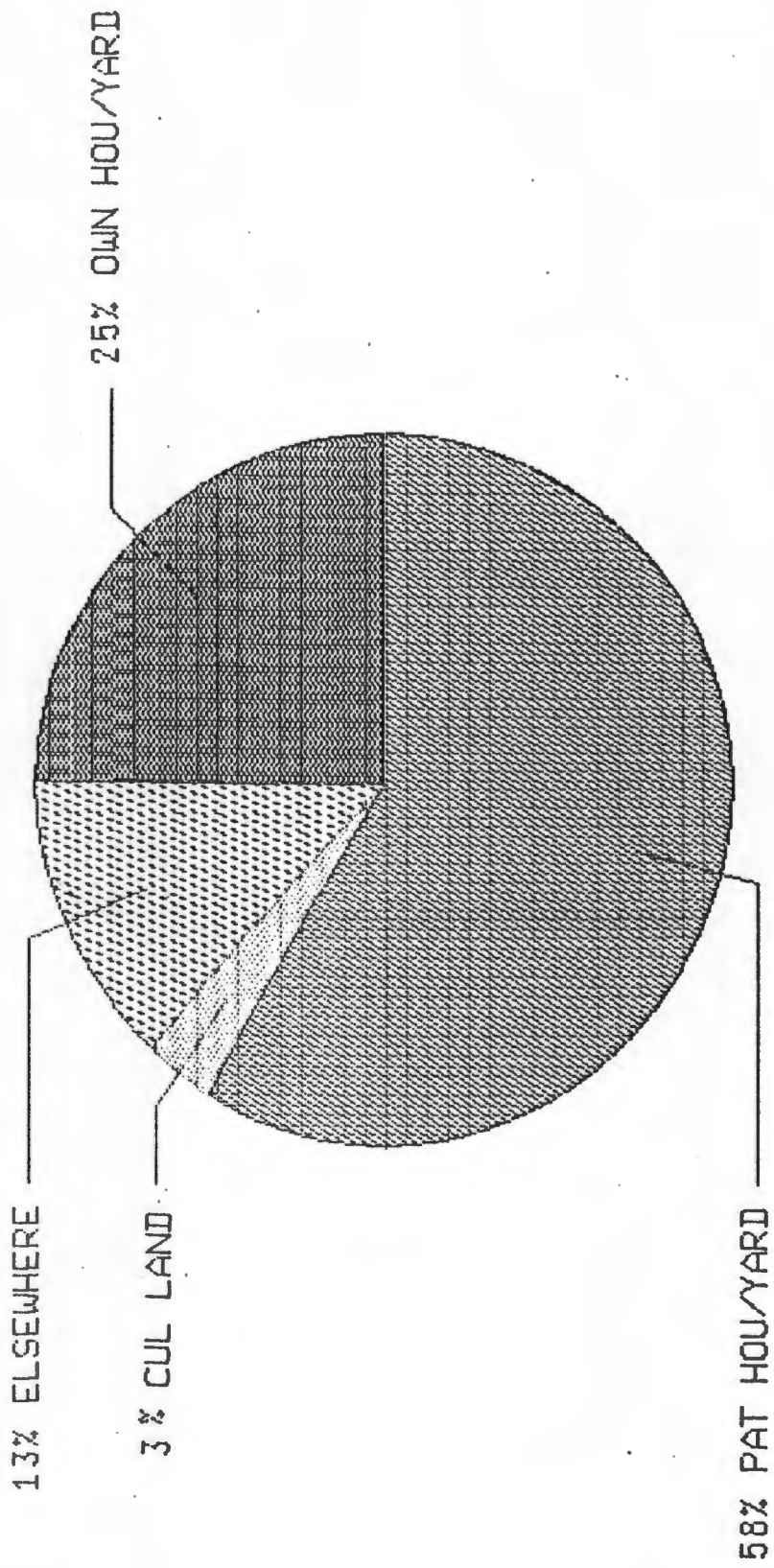


100% YES

REASON FOR POISONING = IGNORANCE / WERE GUIDANCE GIVEN TO WORKERS

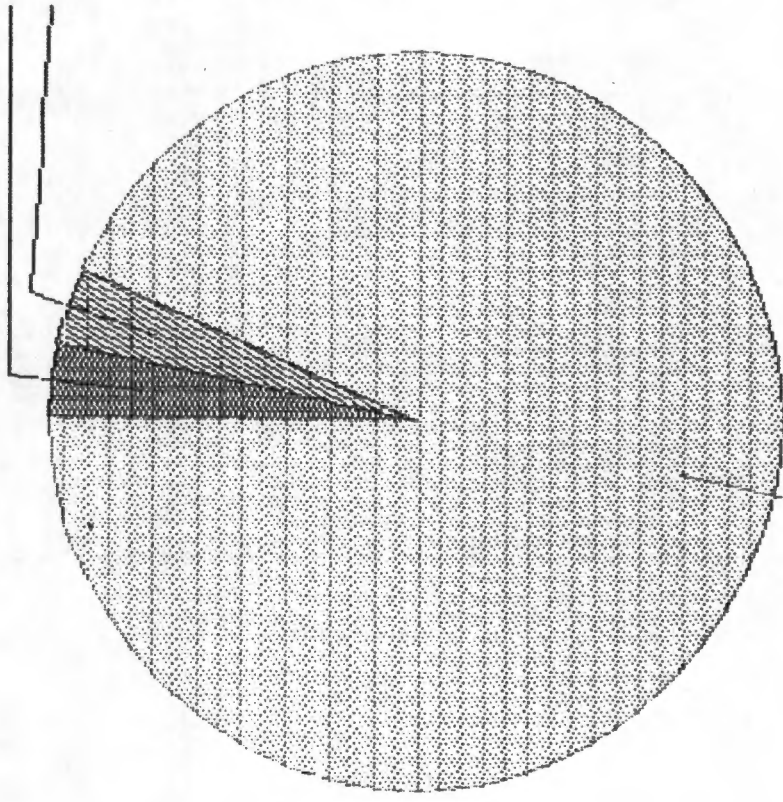


WHERE DID POISONING=SUICIDE TAKE PLACE



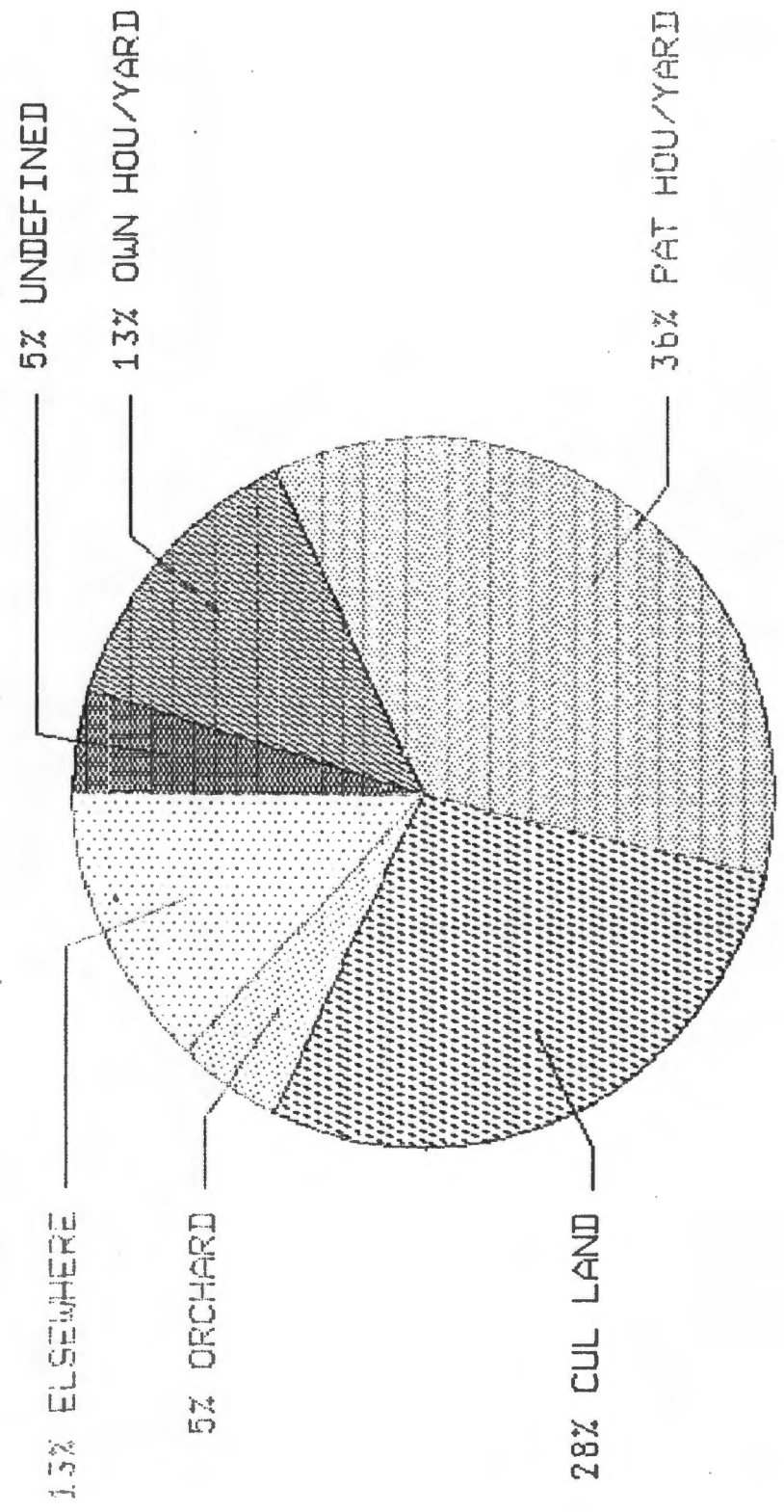
WHERE DID POISONING=MURDER TAKE PLACE

3% UNDEFINED  
3% OWN HOU/YARD

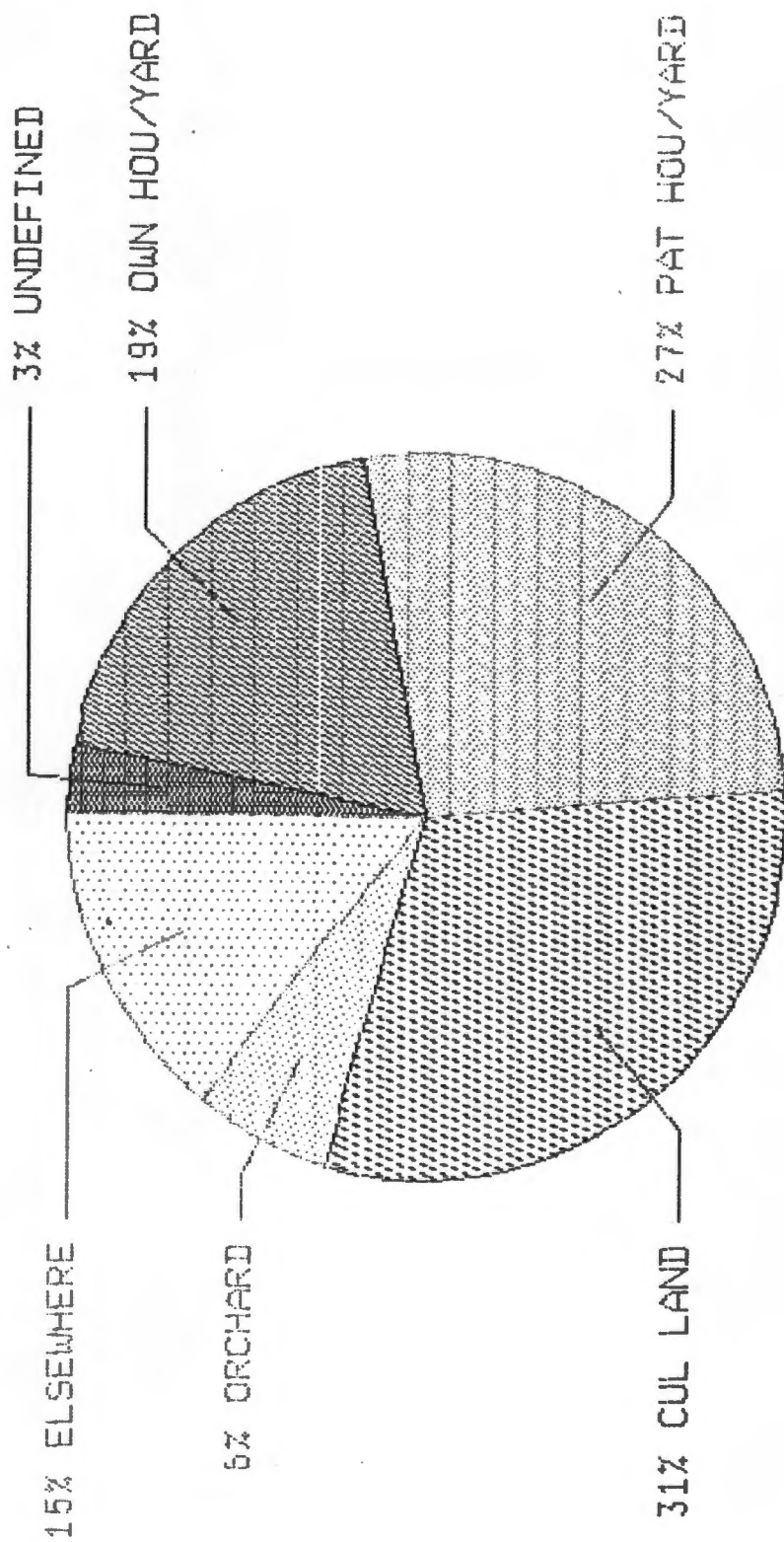


93% PAT HOU/YARD

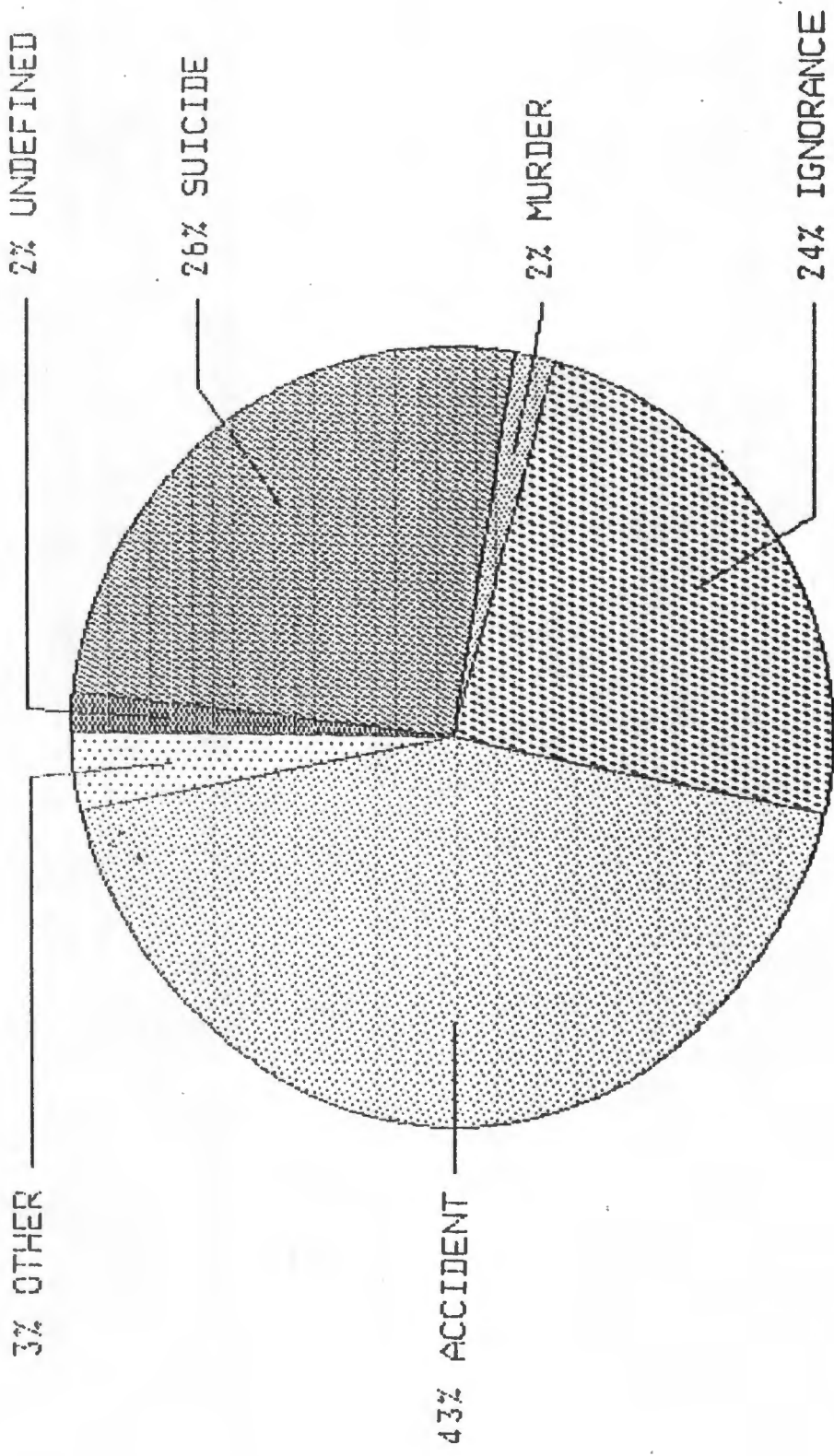
# WHERE DID POISONING=IGNORANCE TAKE PLACE



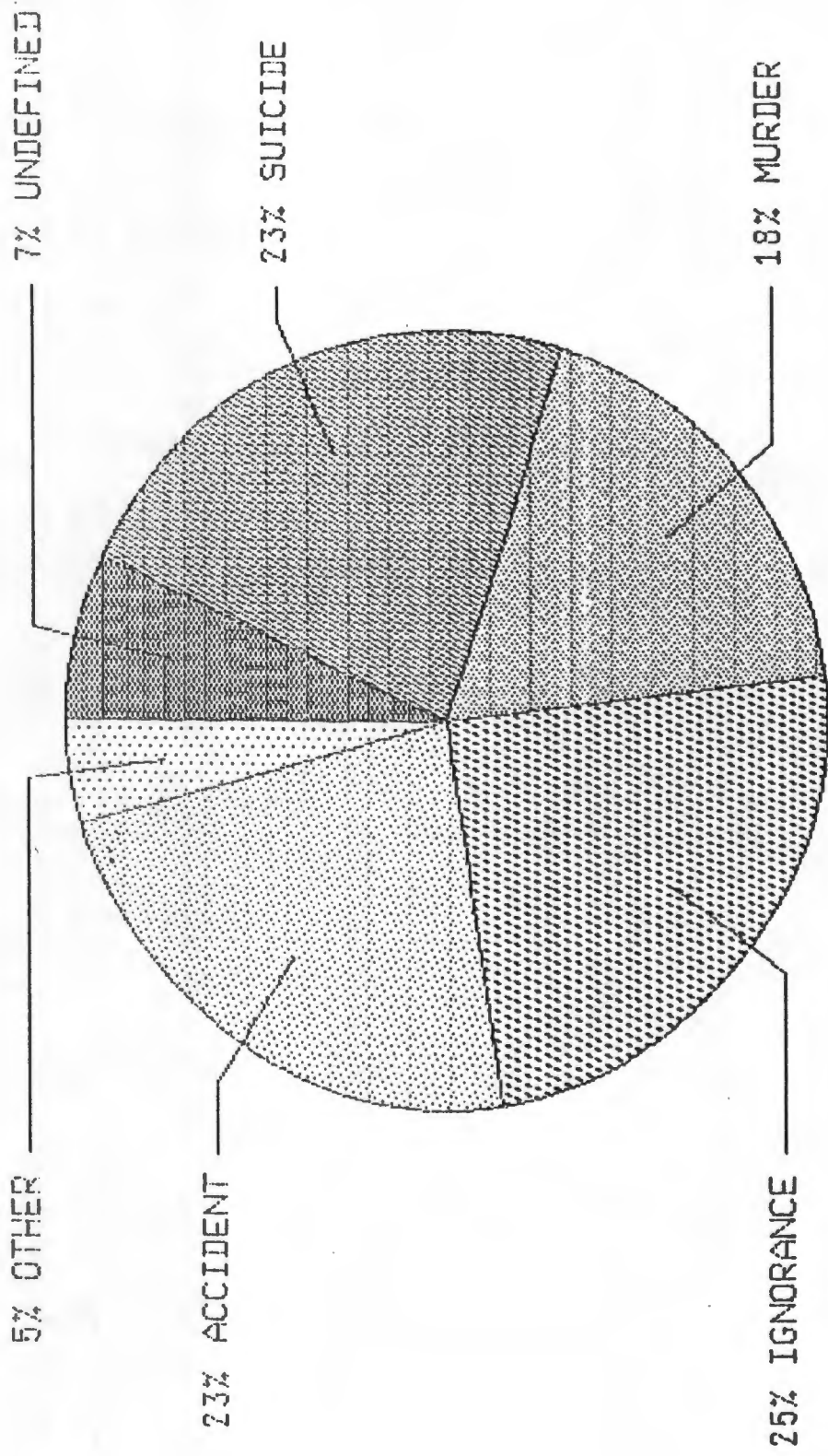
# WHERE DID POISONING=ACCIDENT TAKE PLACE



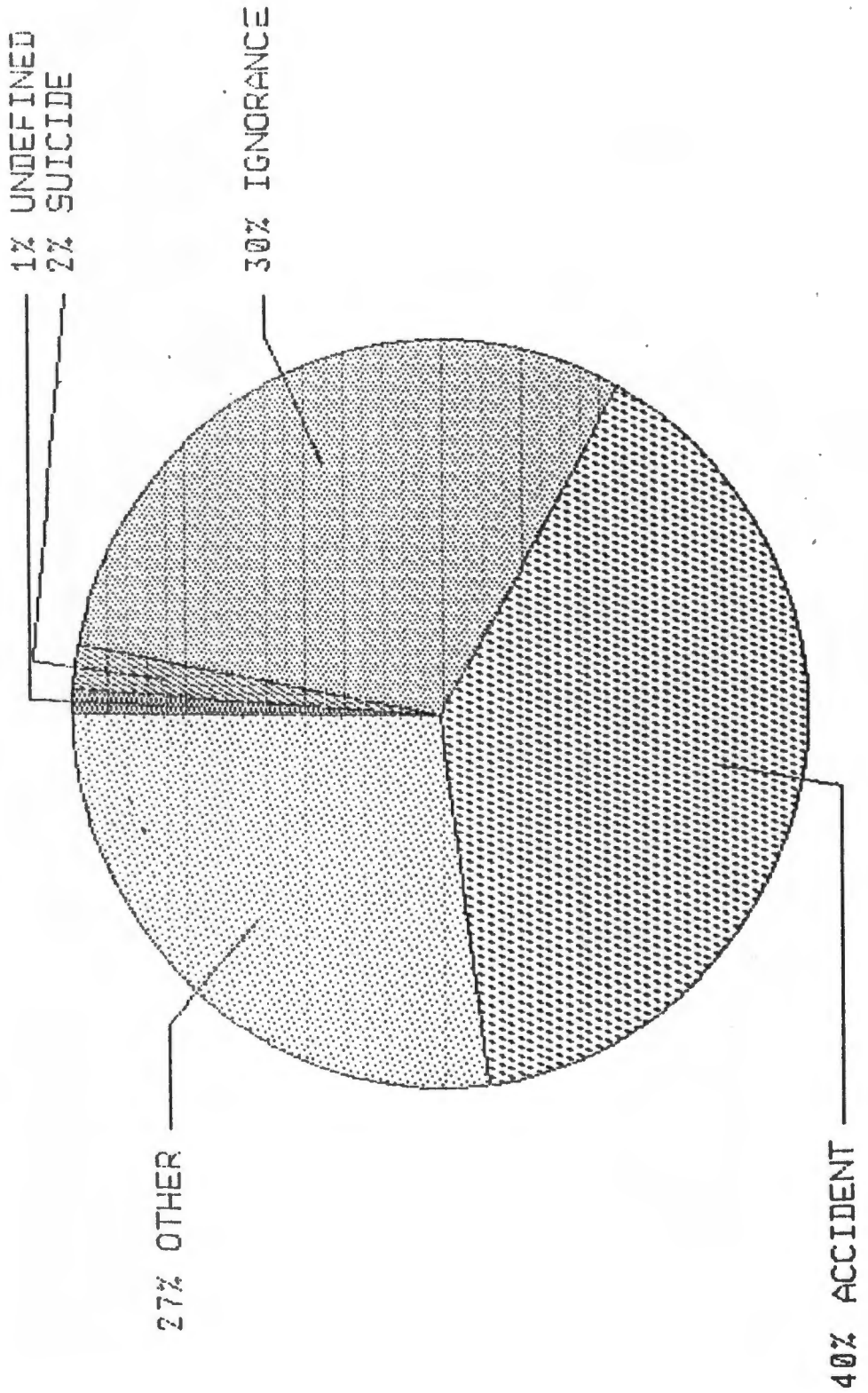
POISONING AT OWN HOU/YARD : WHAT WAS REASON



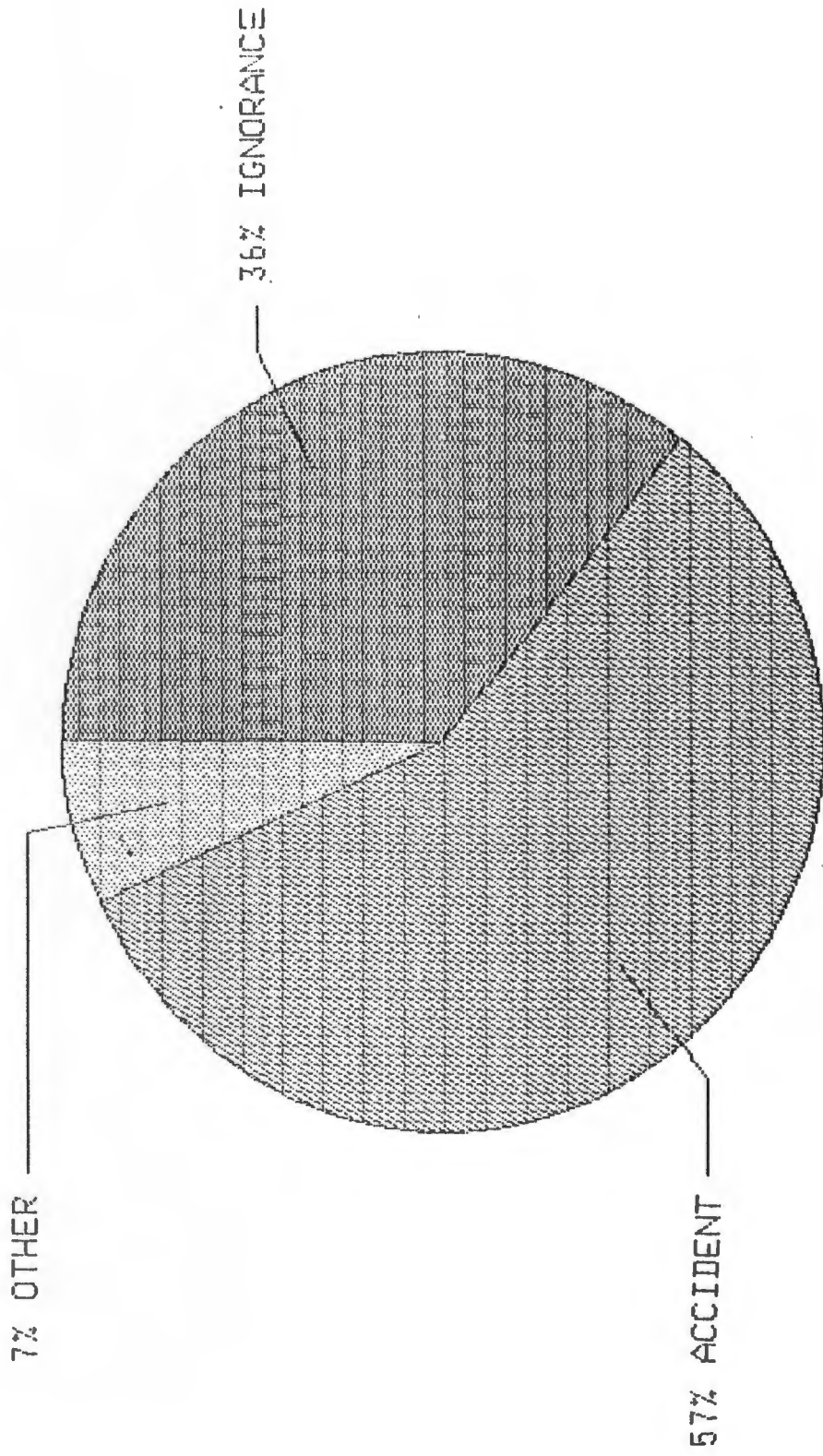
POISONING AT PAT HOU/YARD : WHAT WAS REASON



POISONING AT CUL LAND : WHAT WAS REASON

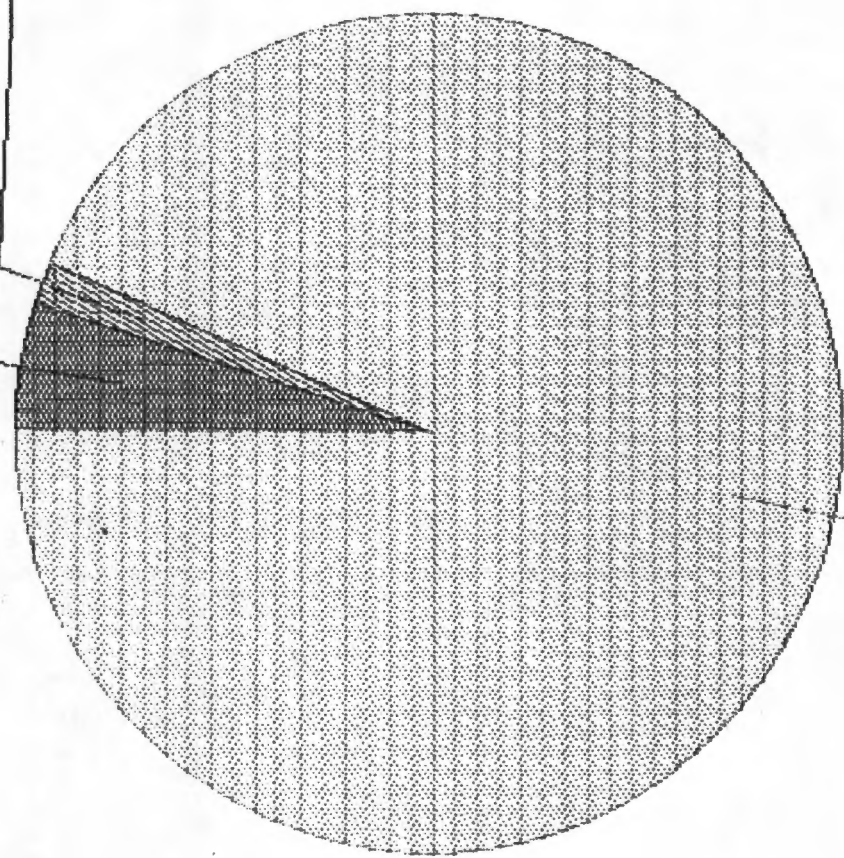


POISONING AT ORCHARD : WHAT WAS REASON



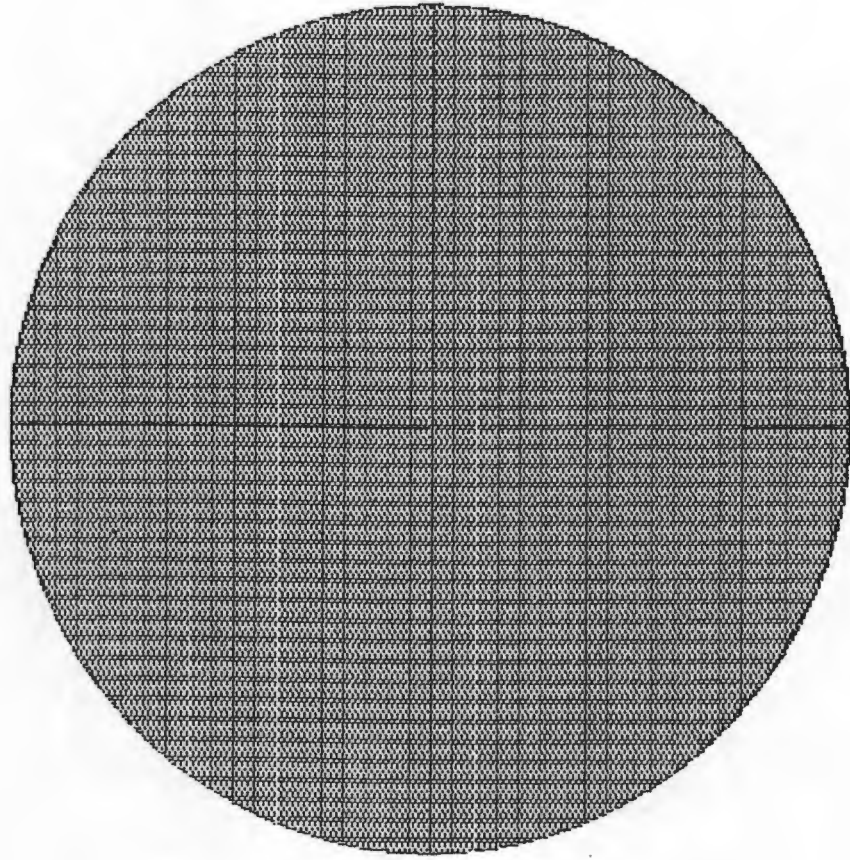
DID POISONING=SUICIDE TOOK PLACE DURING WORKING HOURS

5% UNDEFINED  
2% YES



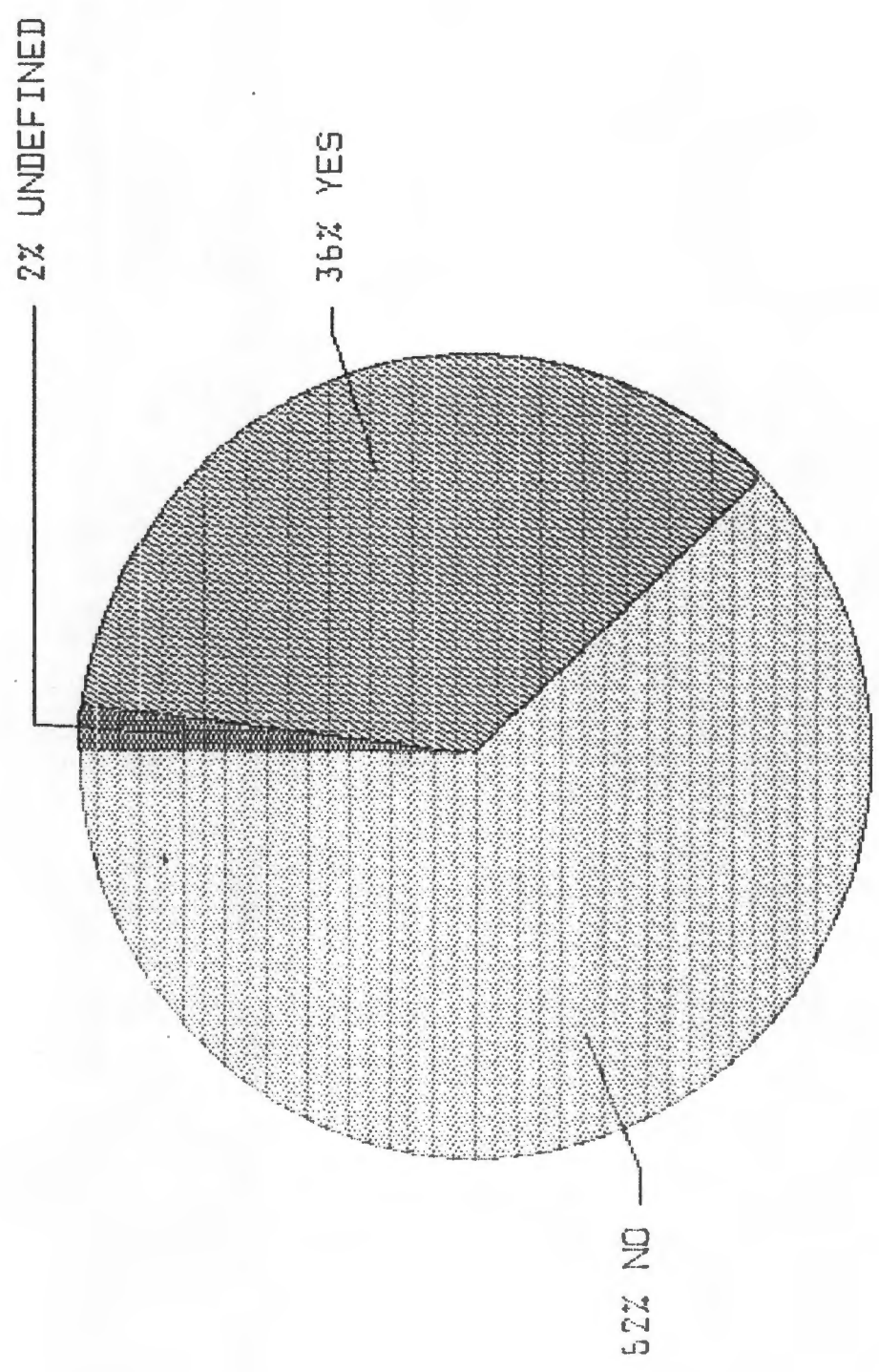
93% NO

DID POISONING=MURDER TOOK PLACE DURING WORKING HOURS

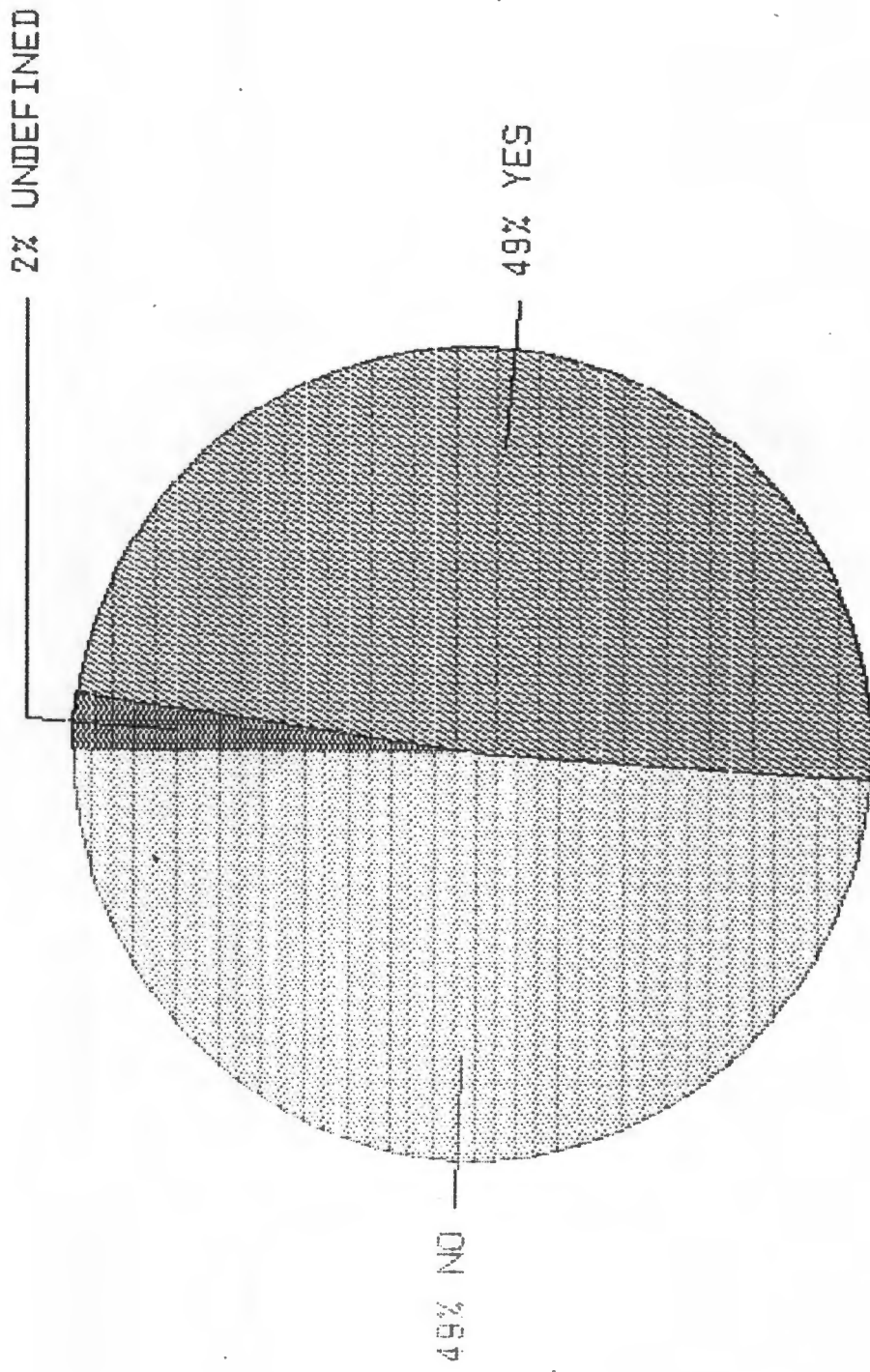


100% NO

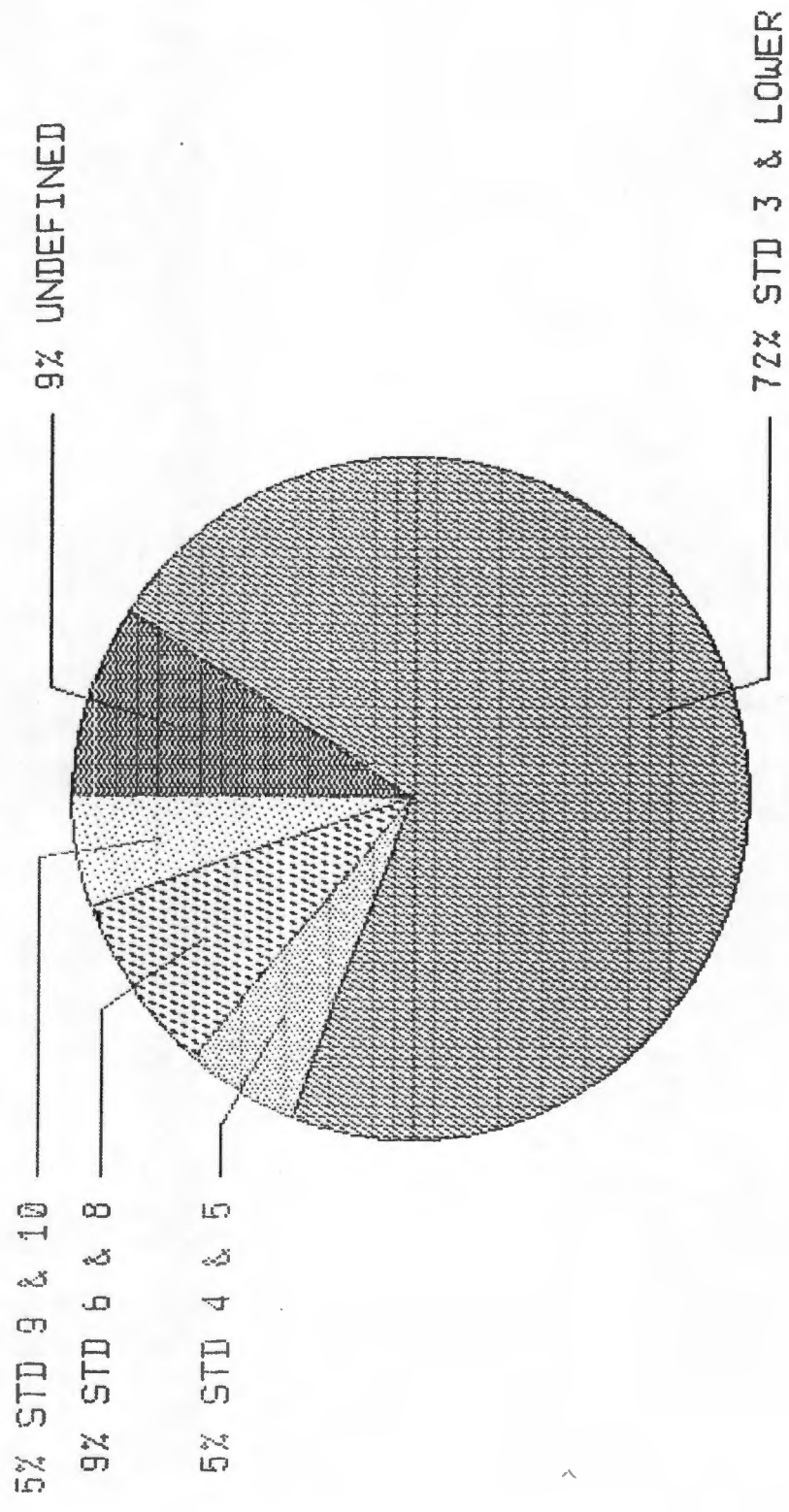
DID POISONING=IGNORANCE TOOK PLACE DURING WORKING HOURS



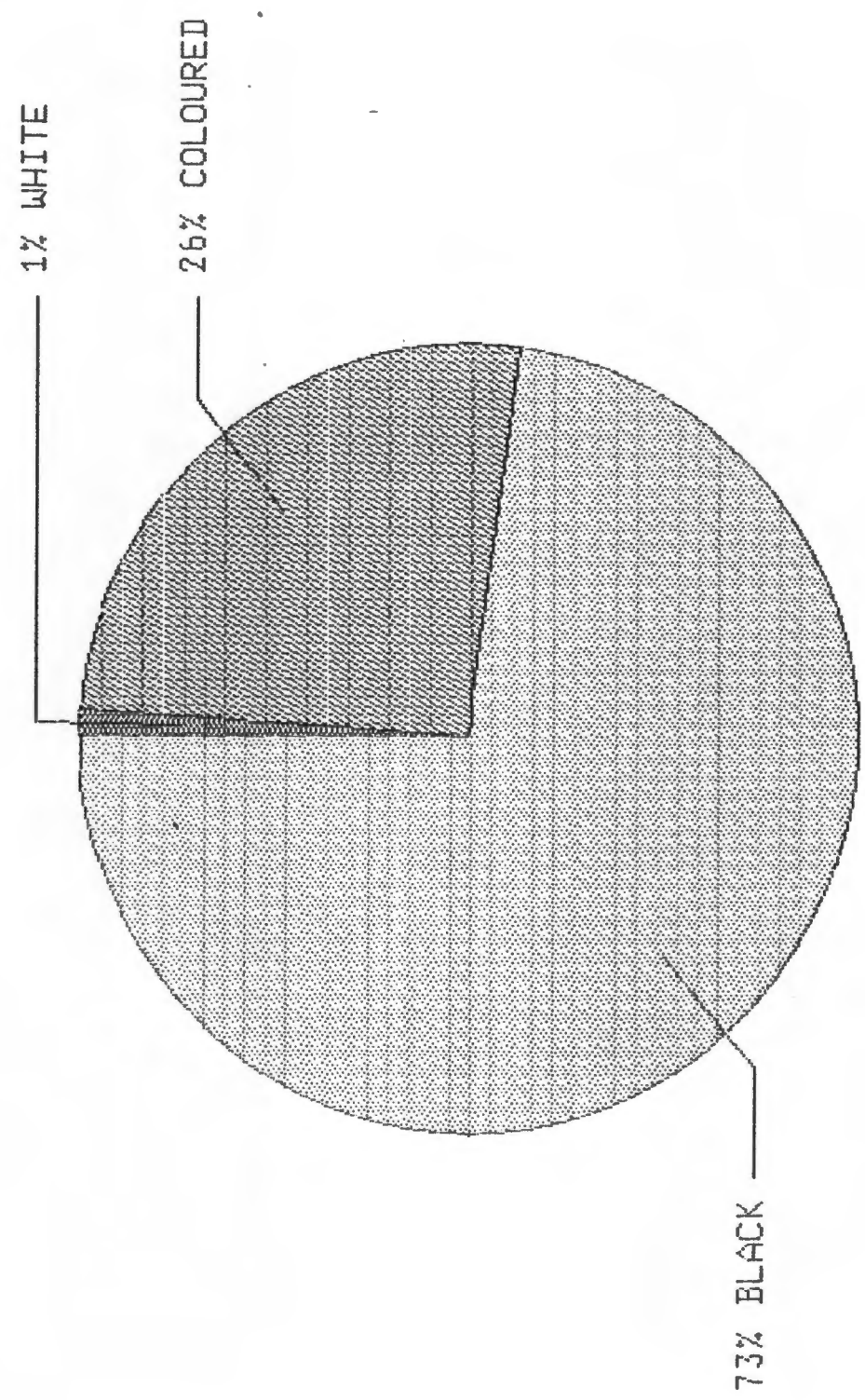
DID POISONING=ACCIDENT TOOK PLACE DURING WORKING HOURS



# ACADEMIC QUALIFICATIONS OF POISONED CASES



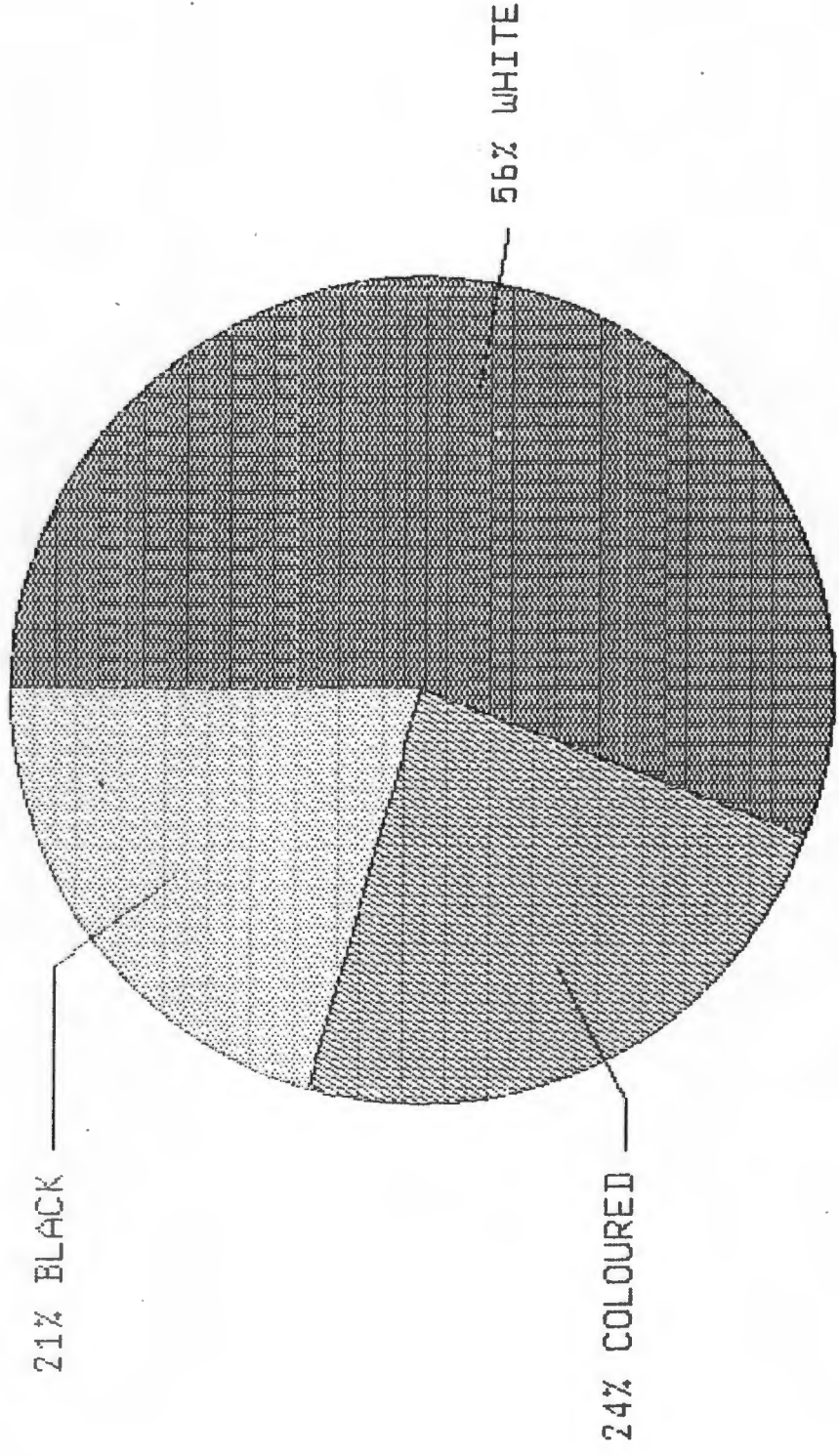
ACADEMIC QUALIFICATIONS UP TO STD 3 PER RACE GROUP



ACADEMIC QUALIFICATIONS=STD 4-5 PER RACE GROUP

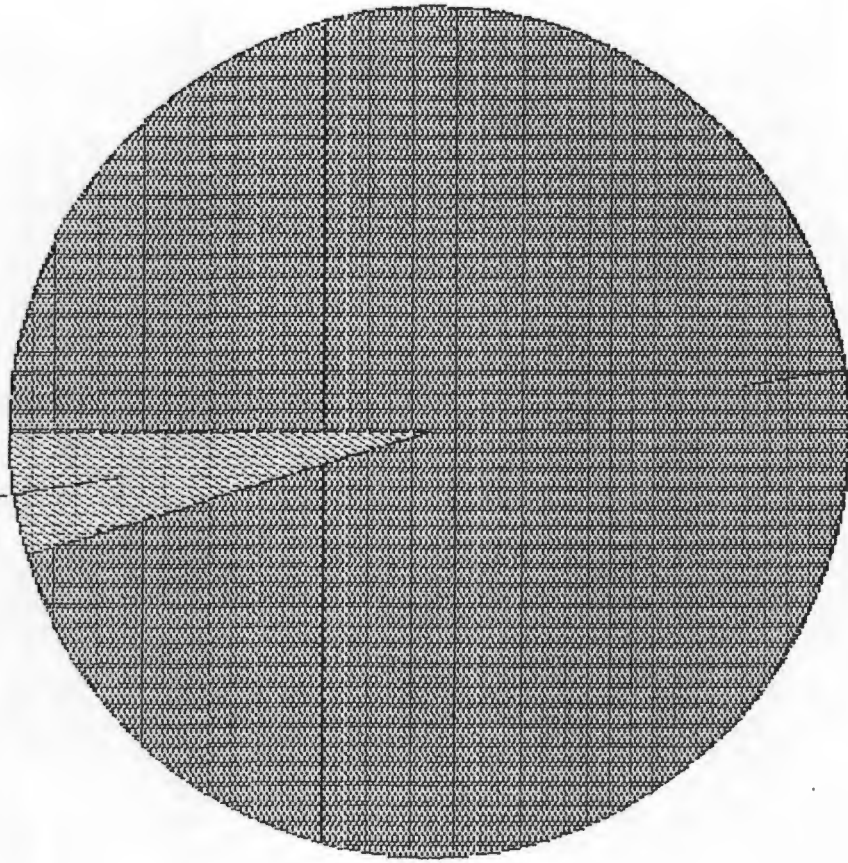


ACADEMIC QUALIFICATIONS=STD 6-8 PER RACE GROUP



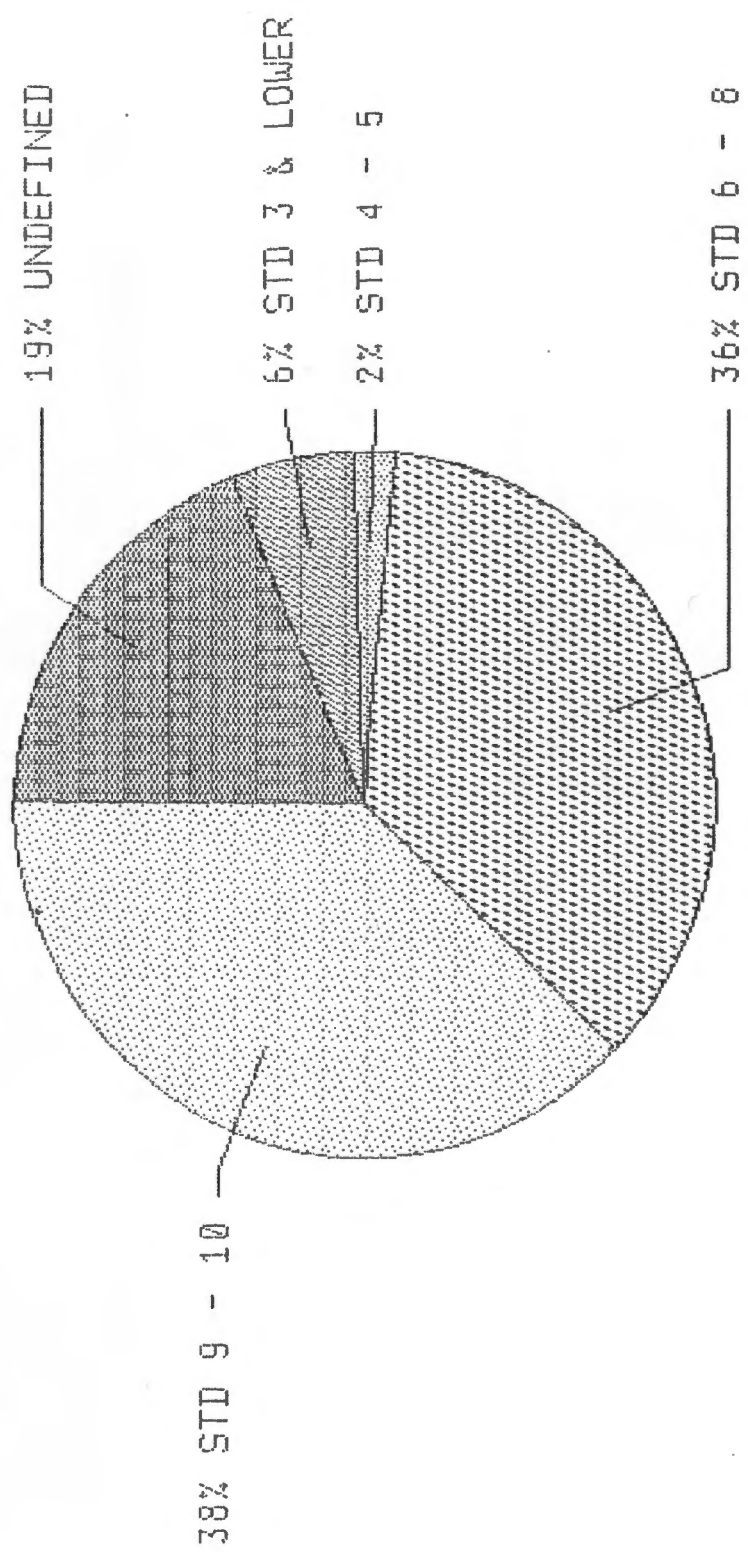
ACADEMIC QUALIFICATIONS=STD 9-10 PER RACE GROUP

5% COLOURED

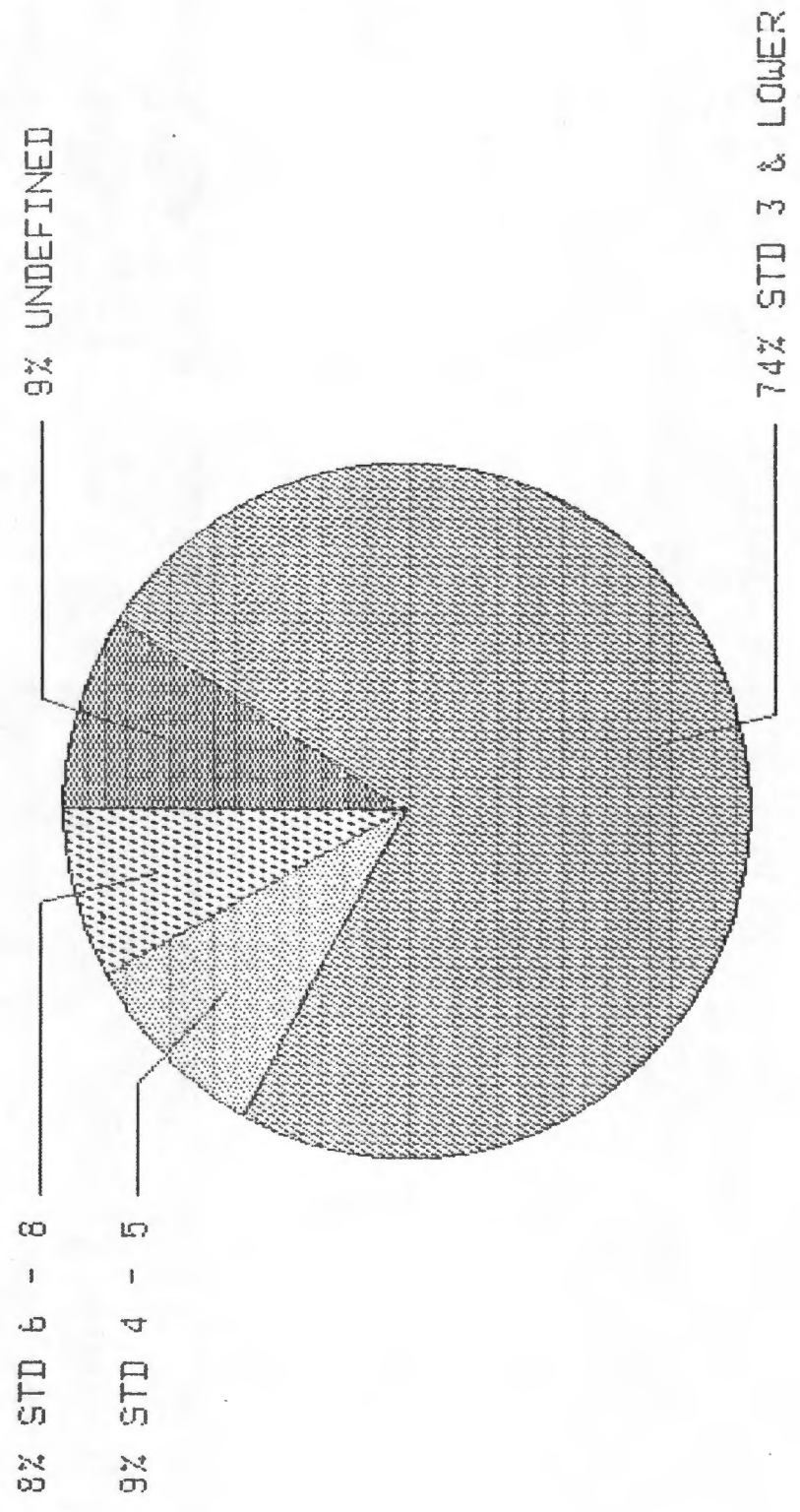


95% WHITE

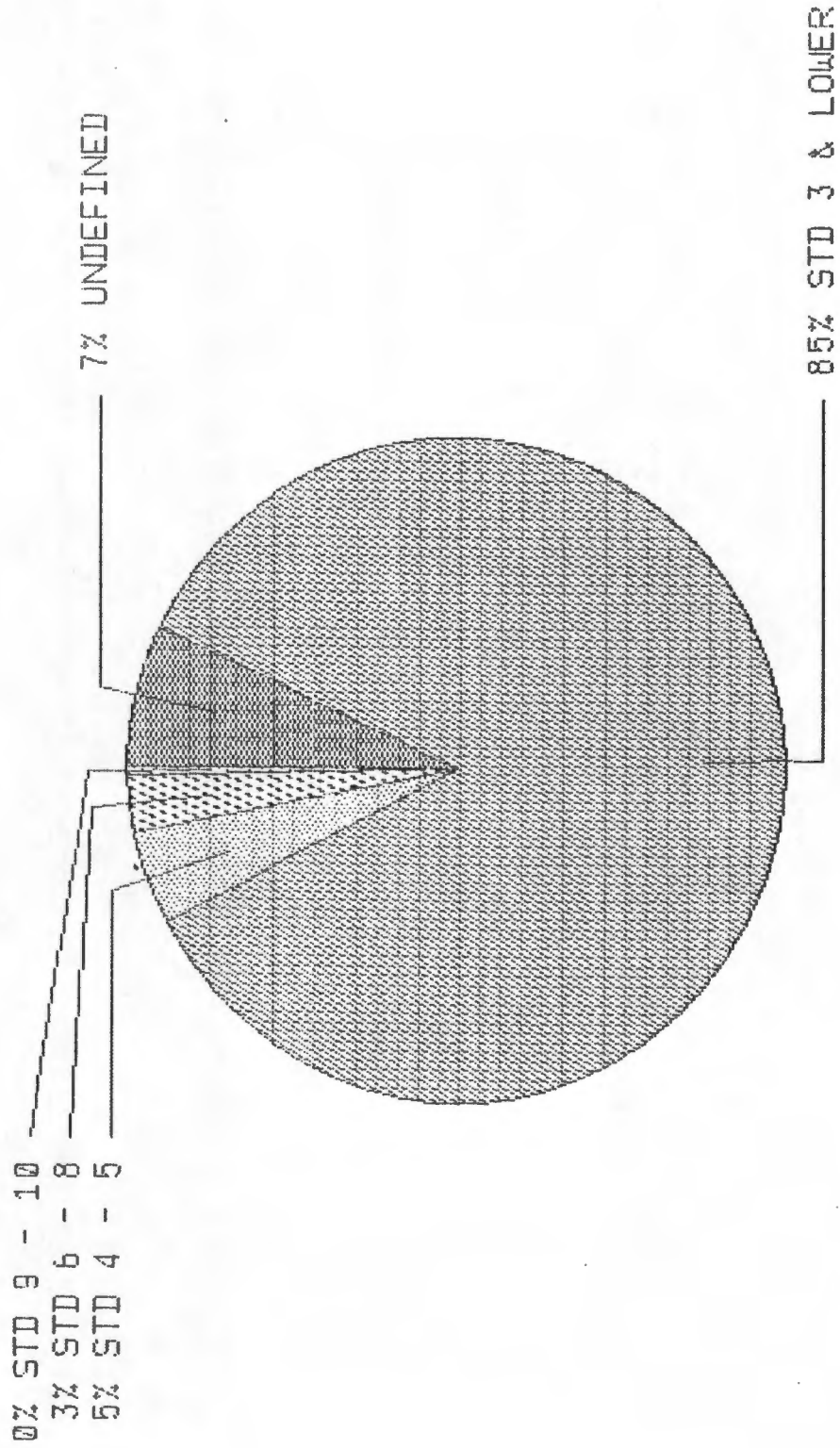
RACE=WHITE : ACADEMIC QUALIFICATIONS



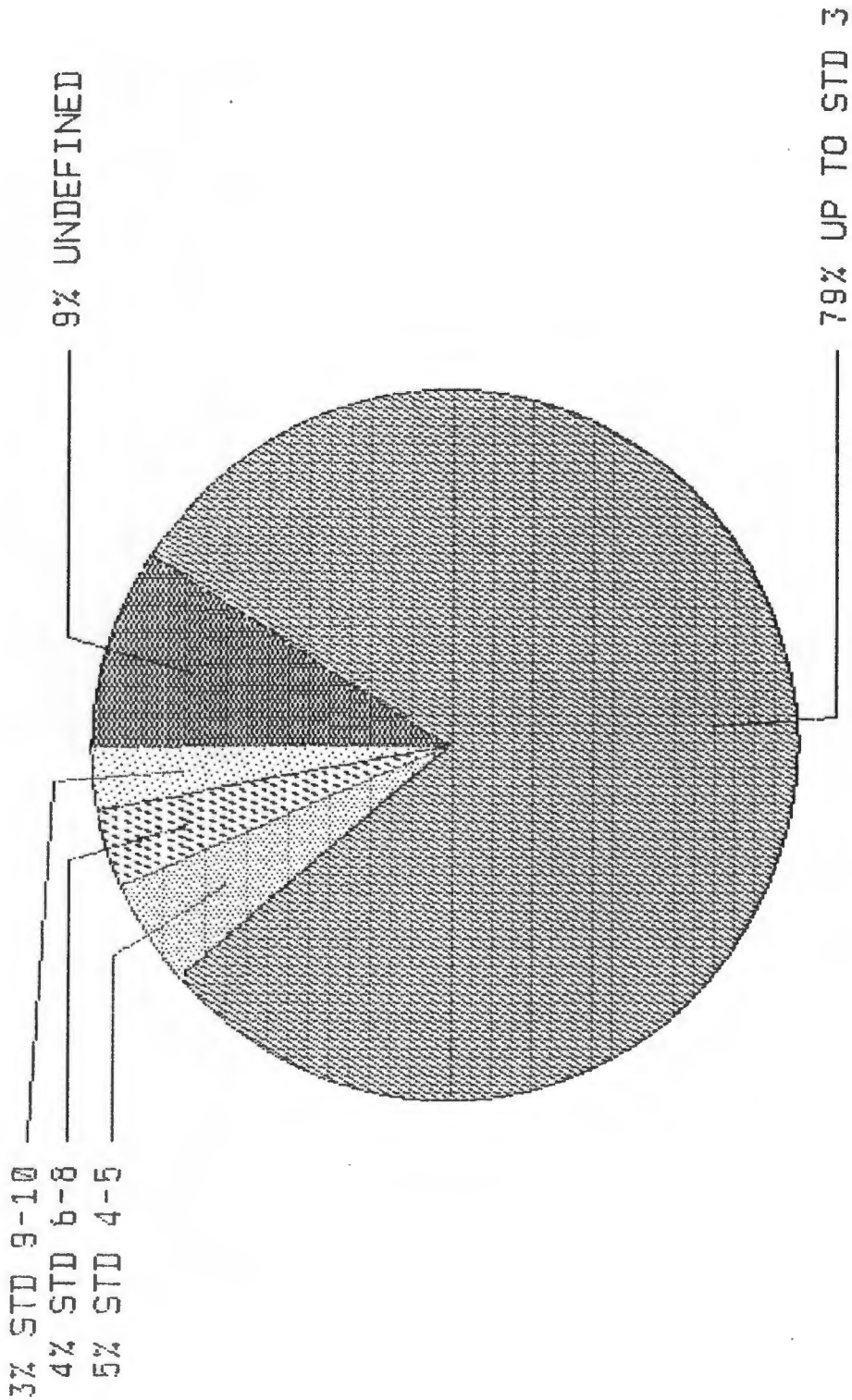
# RACE=COLOURED : ACADEMIC QUALIFICATIONS



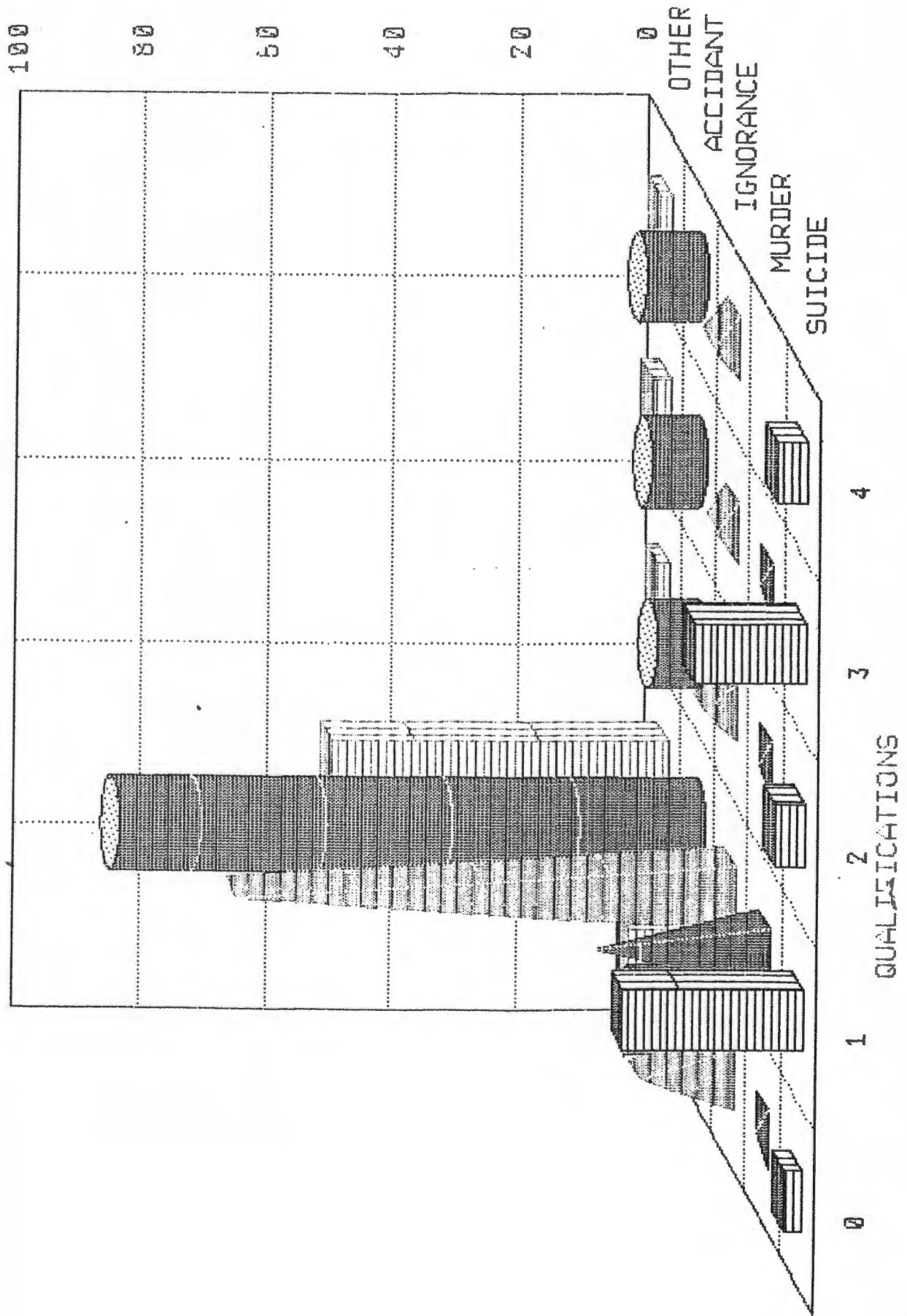
RACE=BLACK : ACADEMIC QUALIFICATIONS



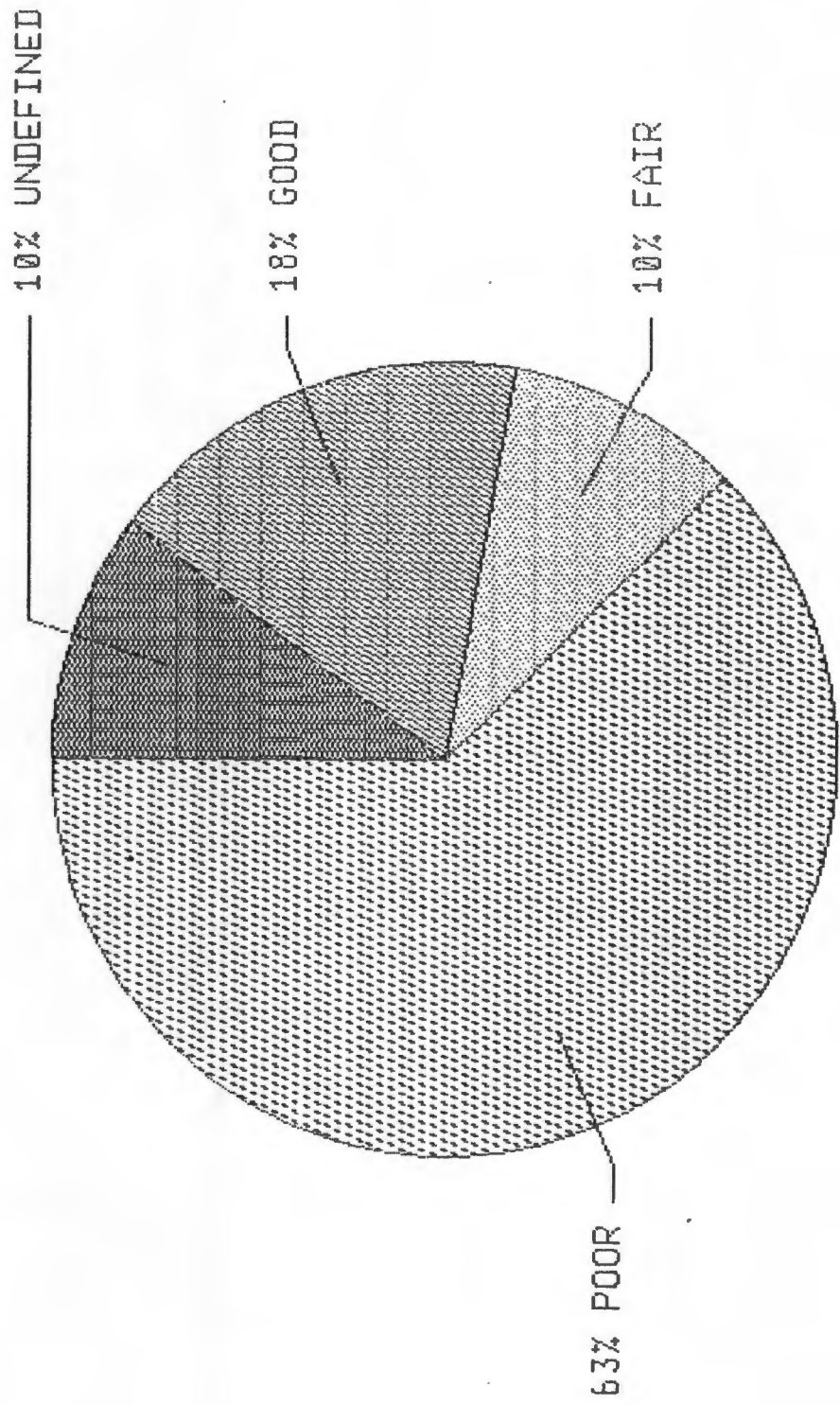
WERE GUIDANCE GIVEN TO ALL LEVELS OF EDUCATION?



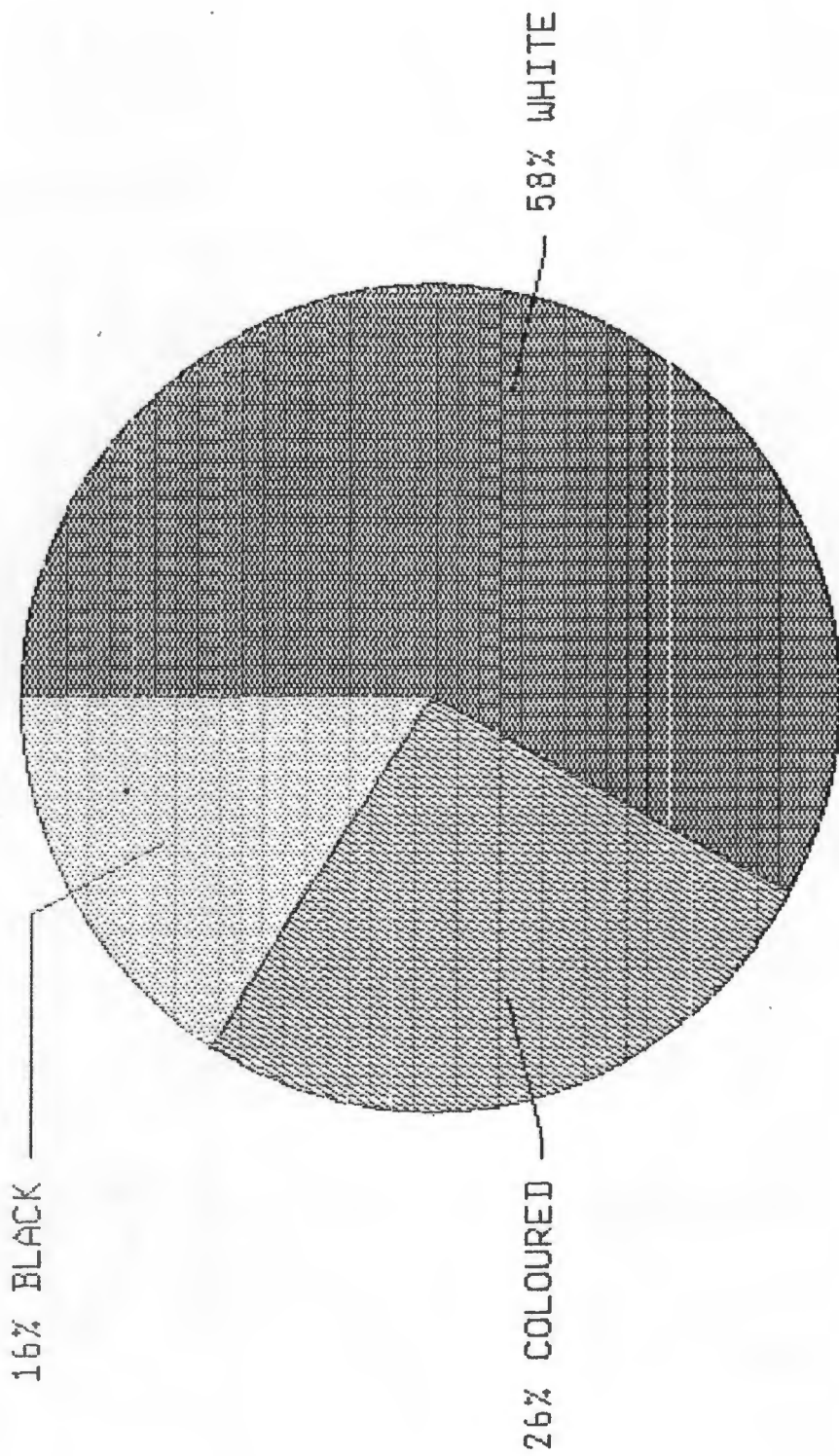
# EDUCATIONAL LEVEL PER REASON FOR POISONING



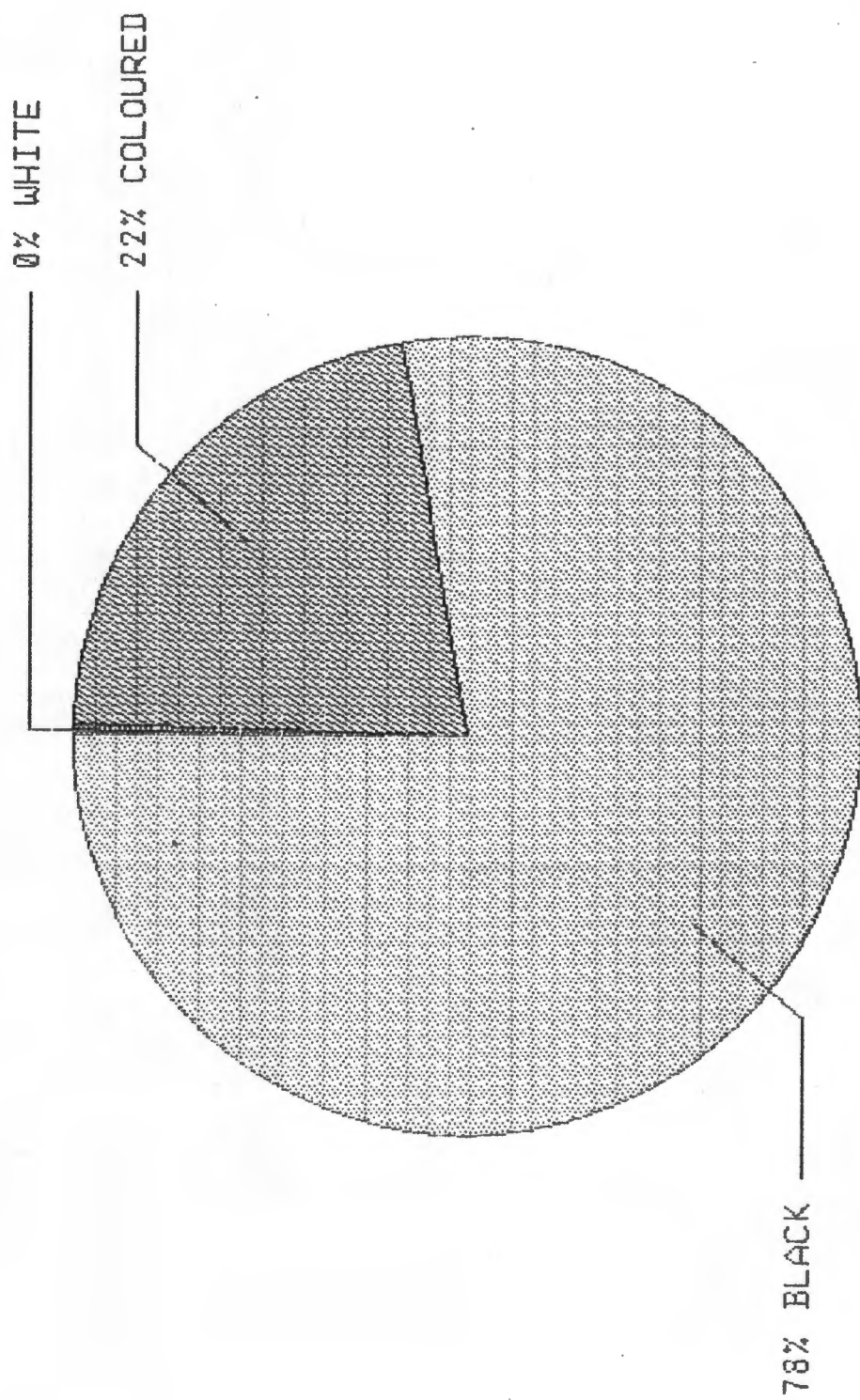
ABILITY OF PATIENTS TO READ AFRIKAANS



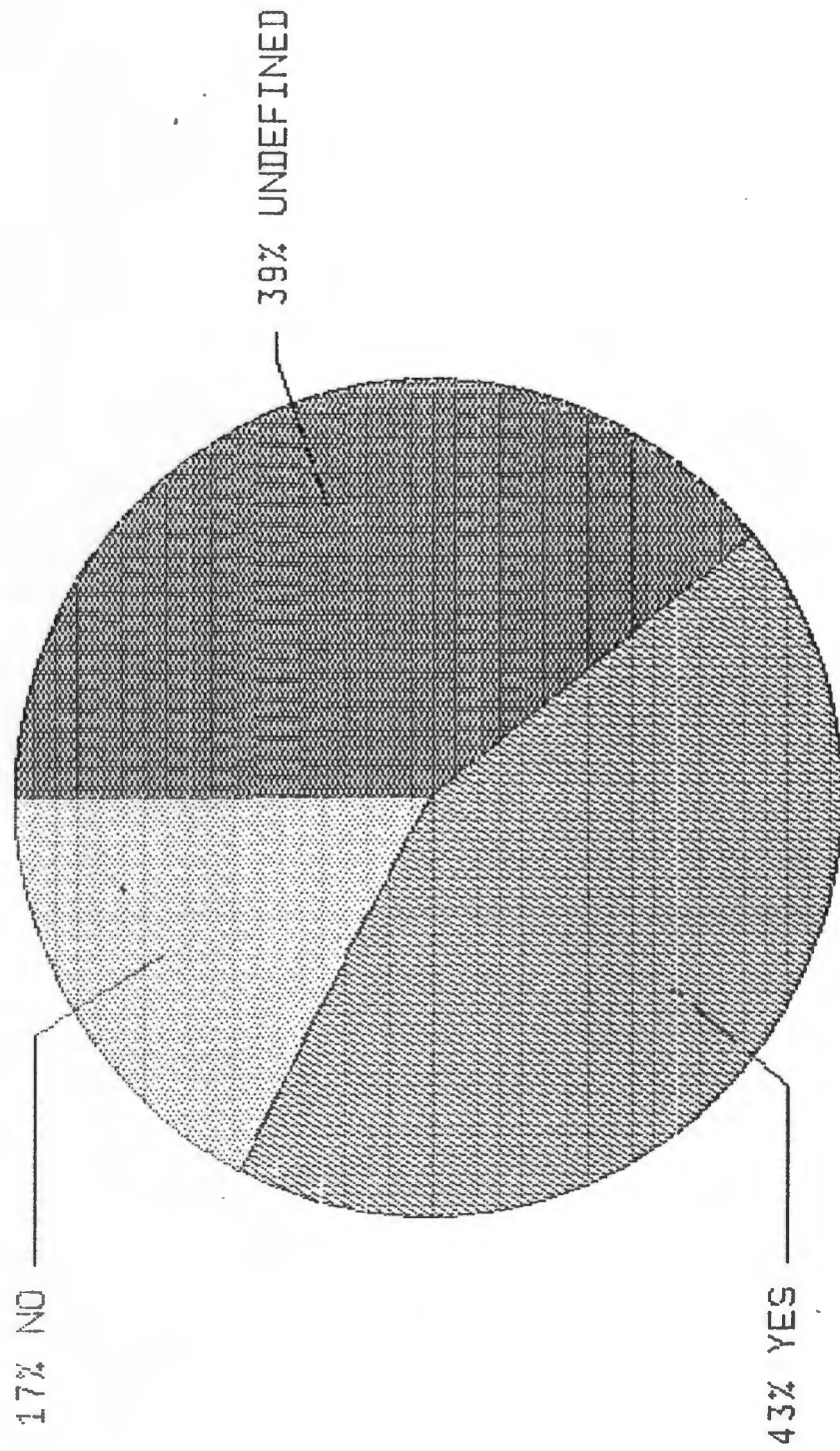
ABILITY OF PATIENTS TO READ AFRIKAANS=GOOD



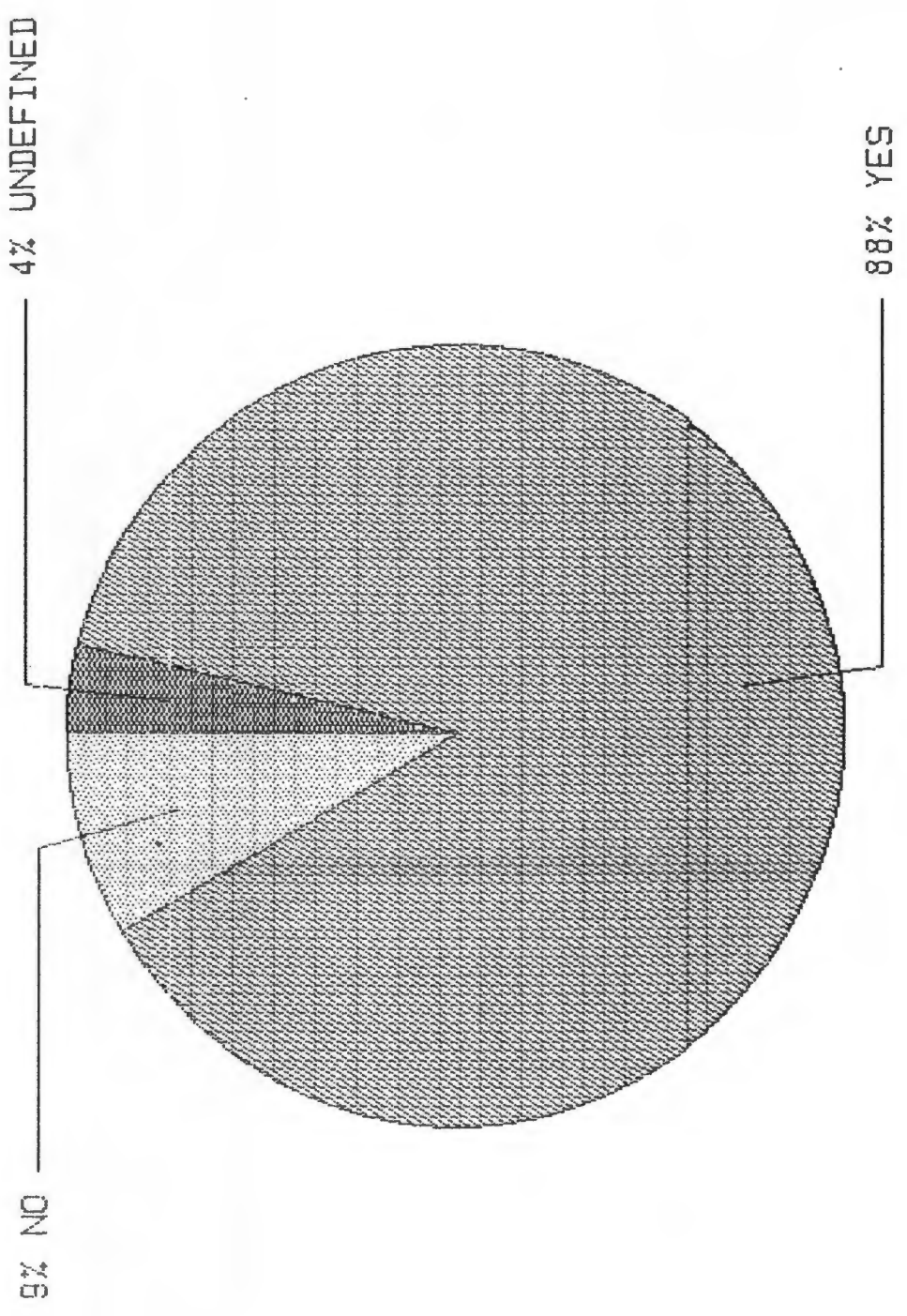
# ABILITY OF PATIENTS TO READ AFRIKAANS=POOR



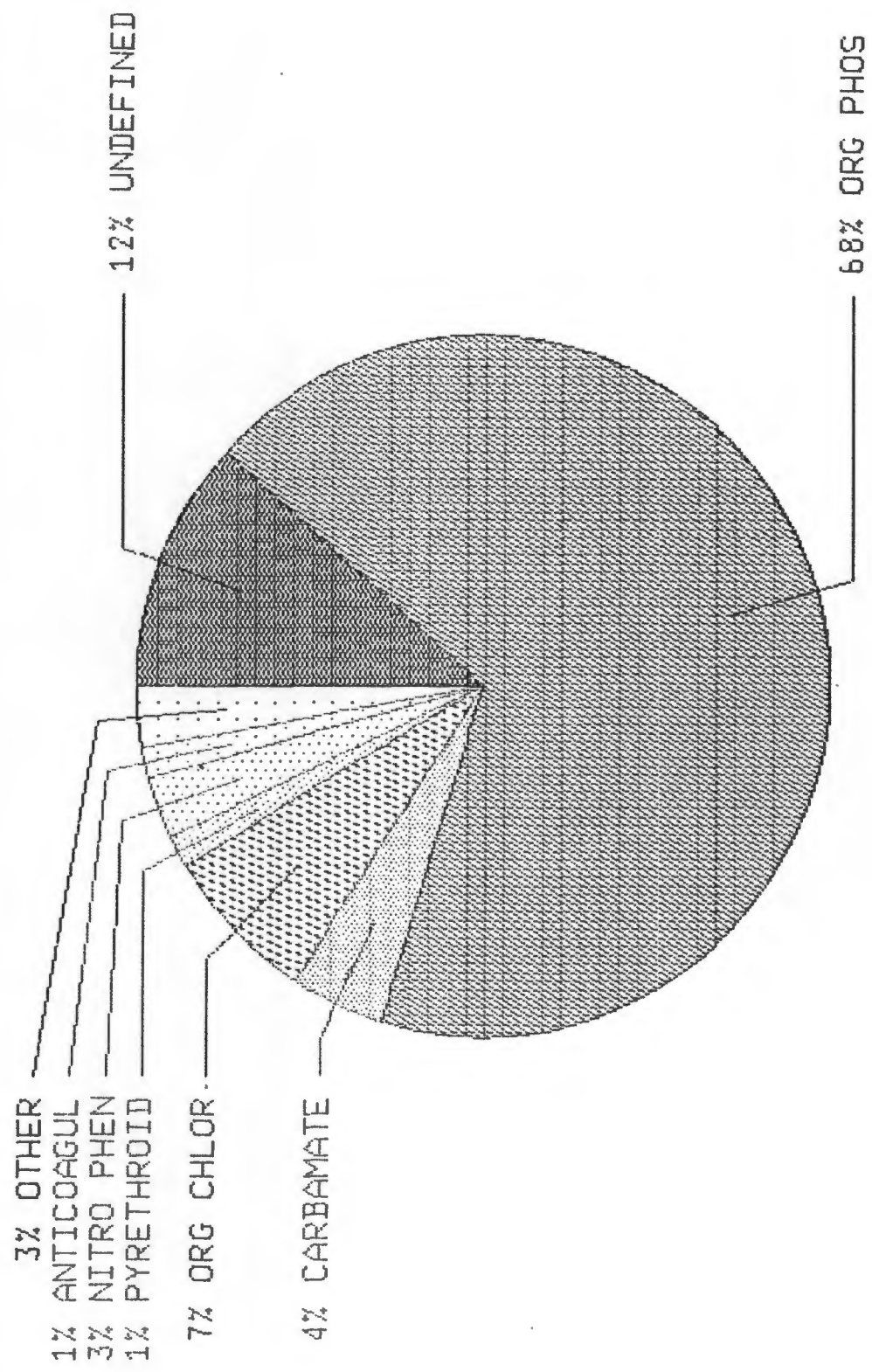
DID ABILITY TO READ AFRIKAANS=GOOD RECEIVE GUIDANCE



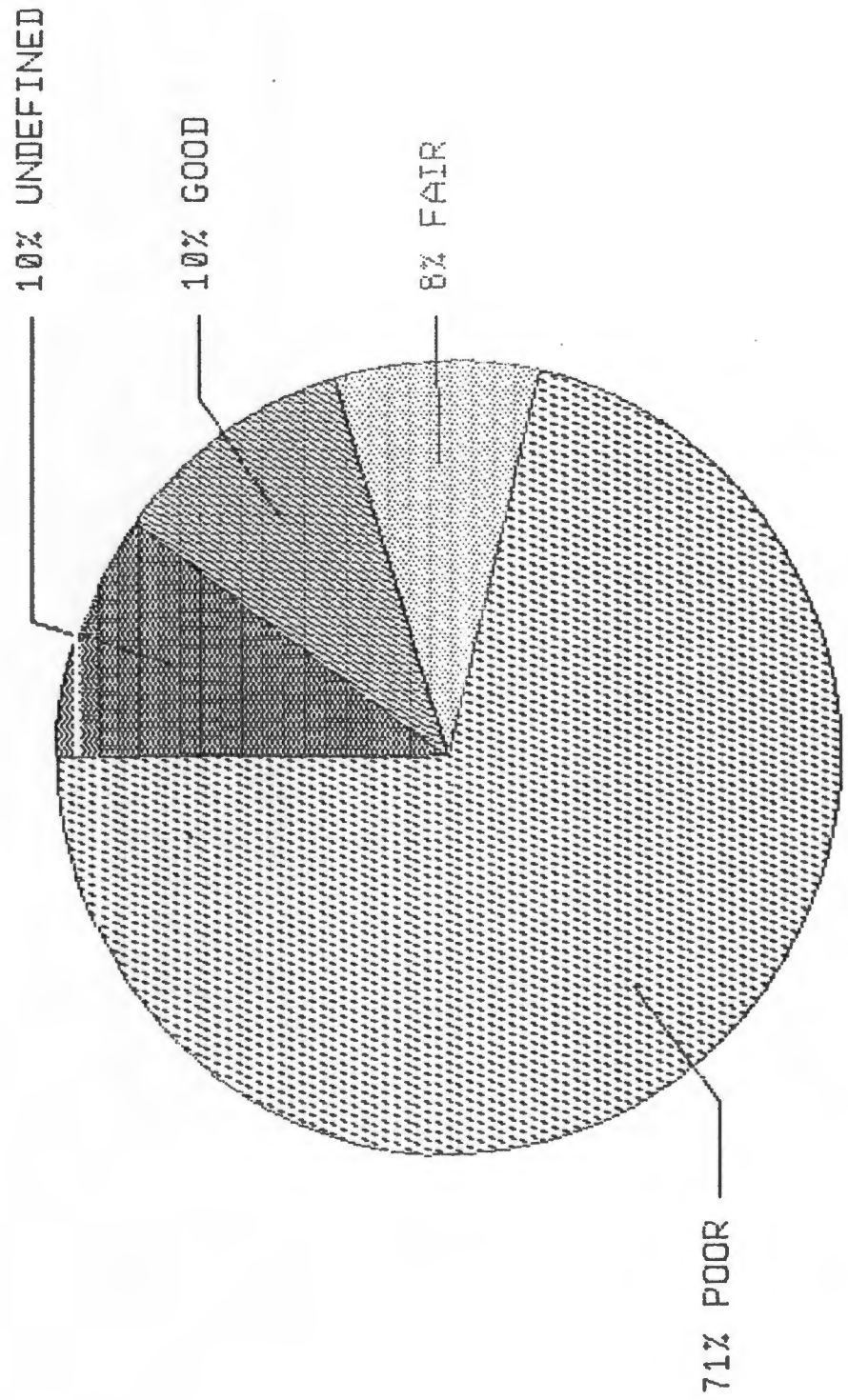
DID ABILITY TO READ AFRIKAANS=POOR RECEIVE GUIDANCE



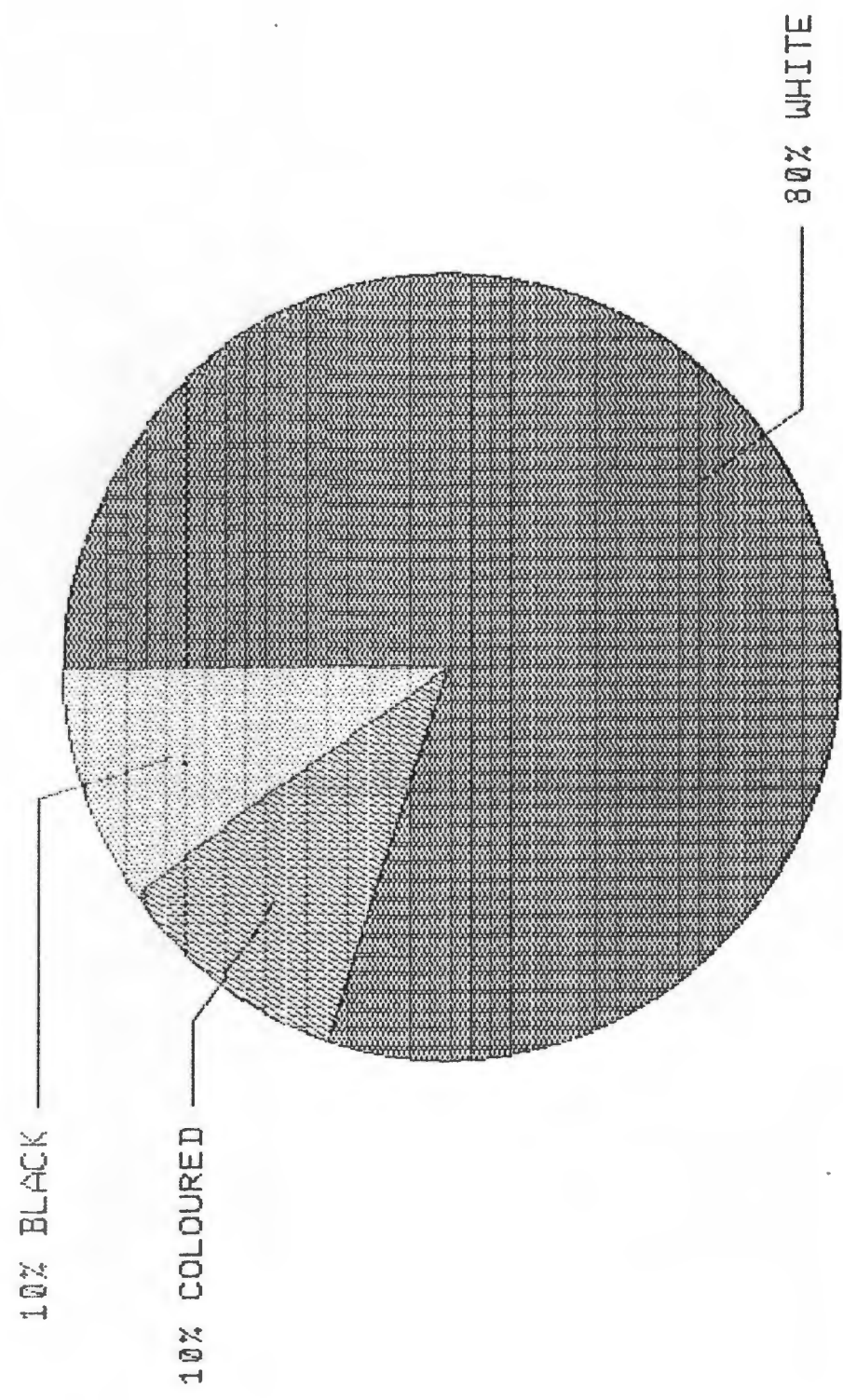
BY WHICH POISON GROUP DID POISONING OCCUR PER AFR READING=GOOD



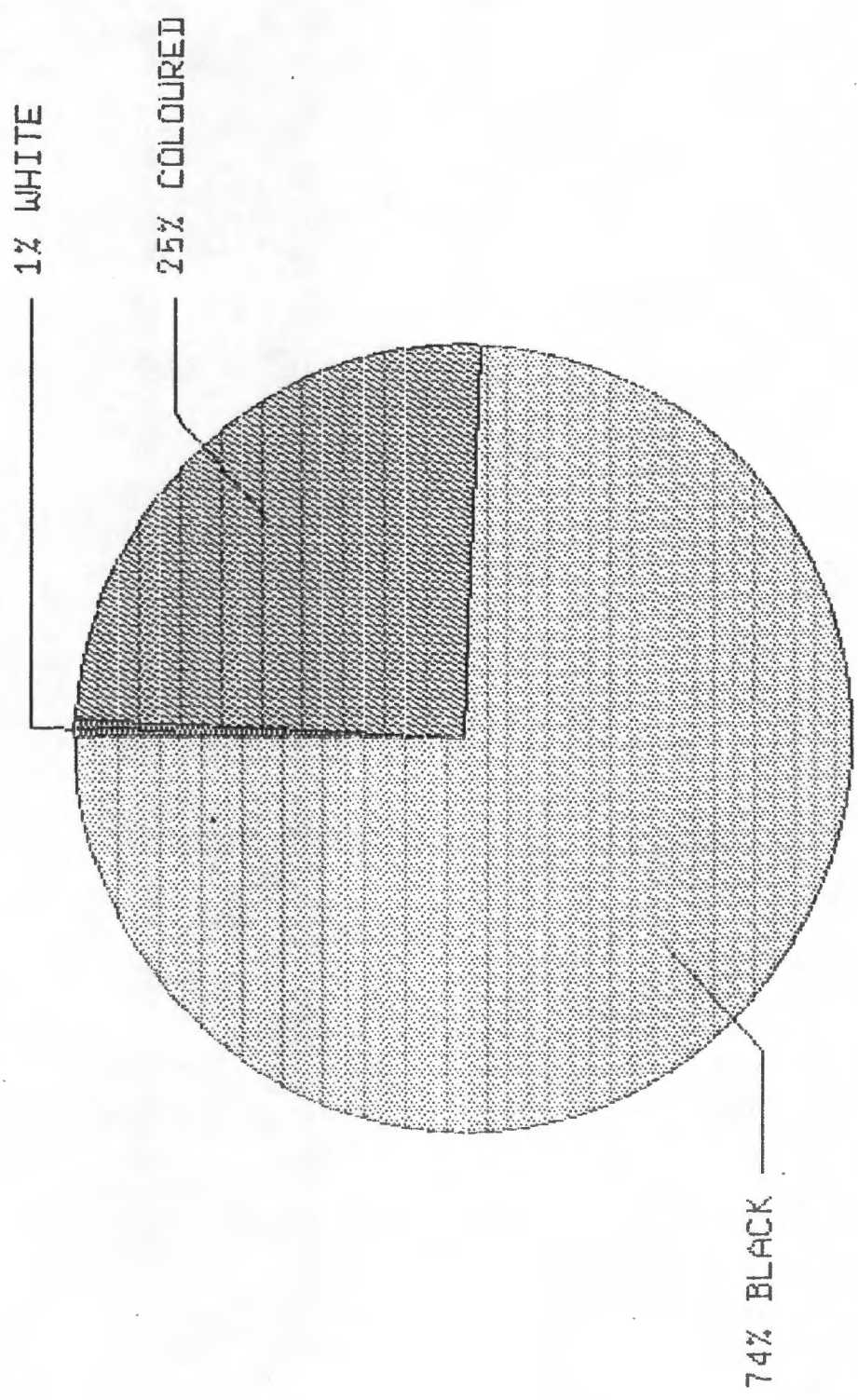
ABILITY OF PATIENTS TO READ ENGLISH



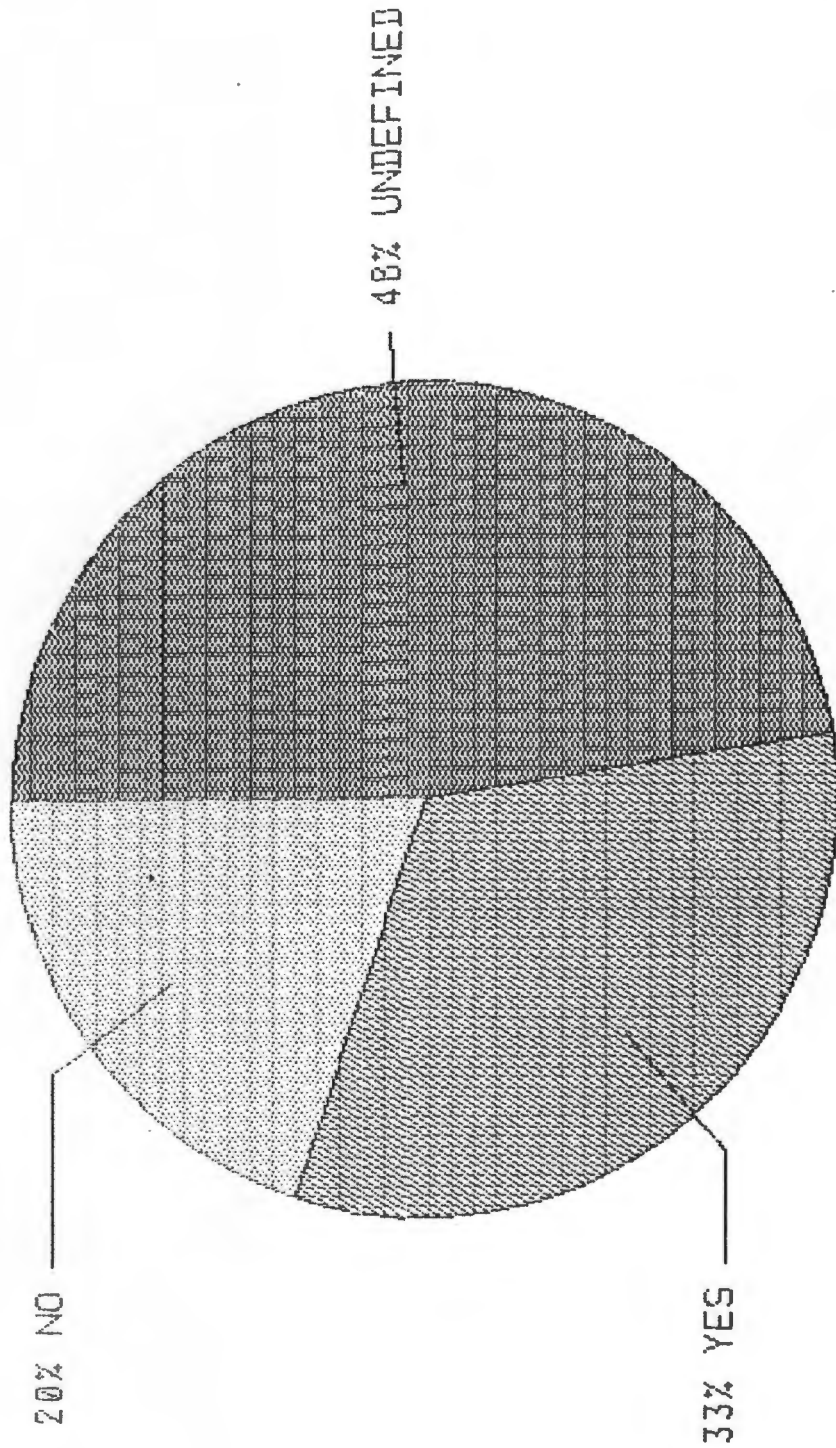
ABILITY TO READ ENGLISH=GOOD PER RACE GROUP



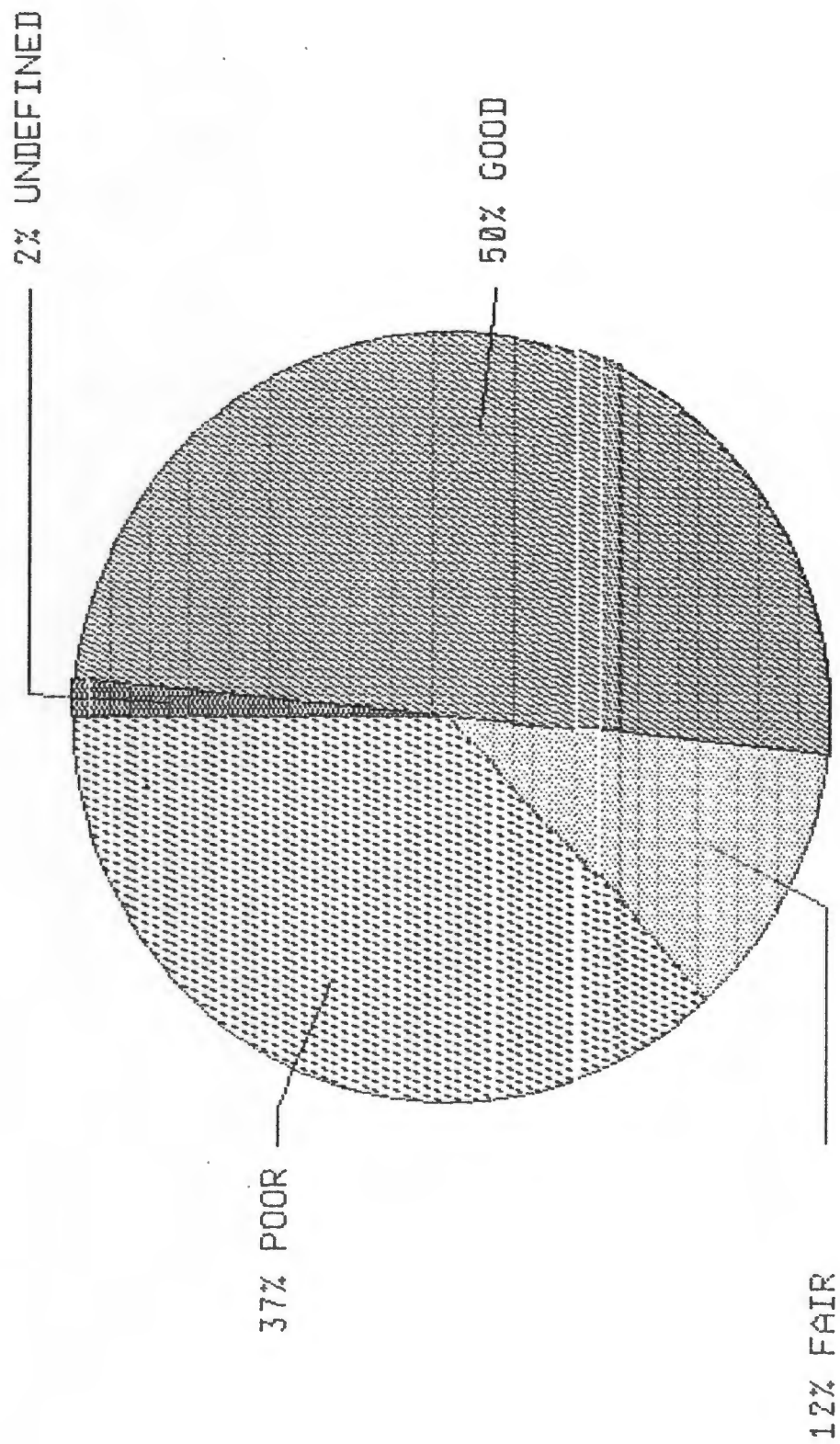
ABILITY OF PATIENTS TO READ ENGLISH=POOR PER RACE GROUP



WERE GUIDANCE GIVEN TO WORKERS PER ENGLISH READING GOOD

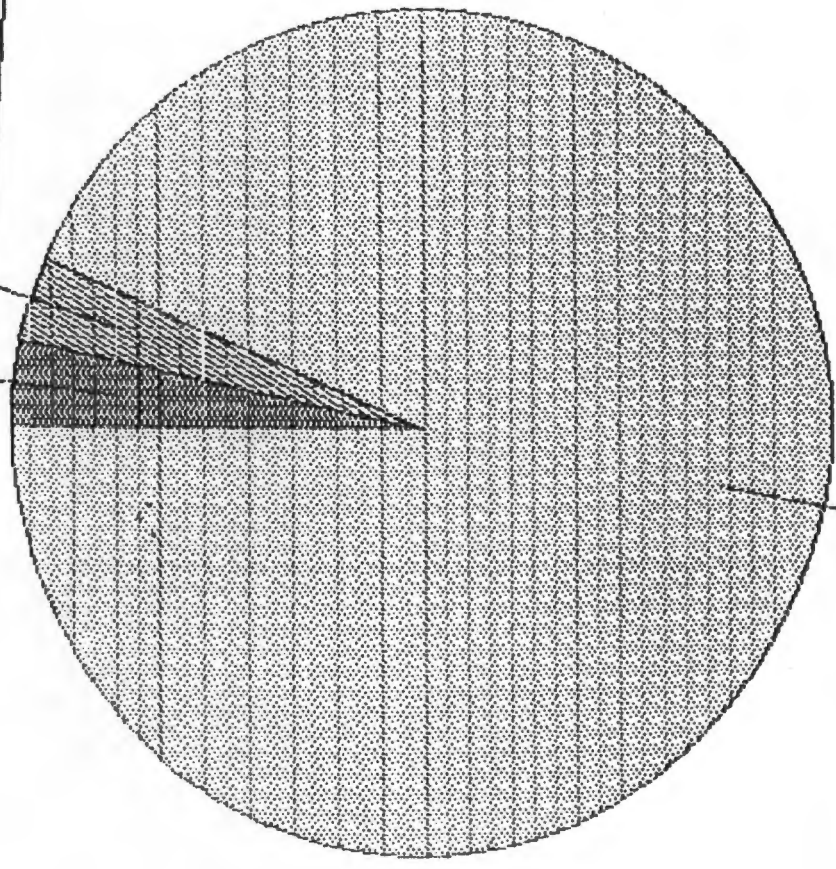


REASON FOR POSONING=SUICIDE PER ABILITY TO READ AFRIKAANS



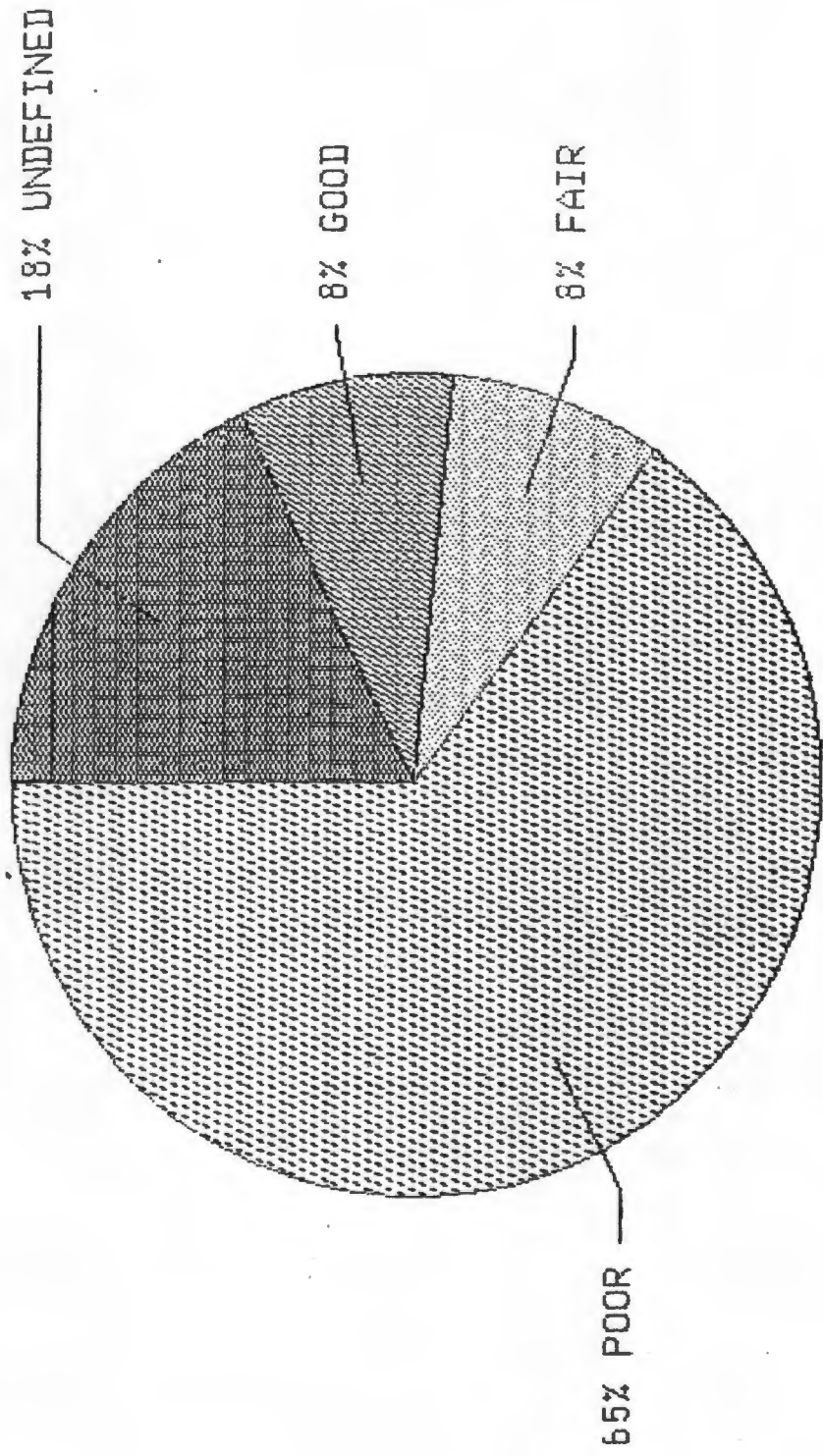
REASON FOR POISONING=MURDER PER ABILITY TO READ AFRIKAANS

3% UNDEFINED  
3% GOOD

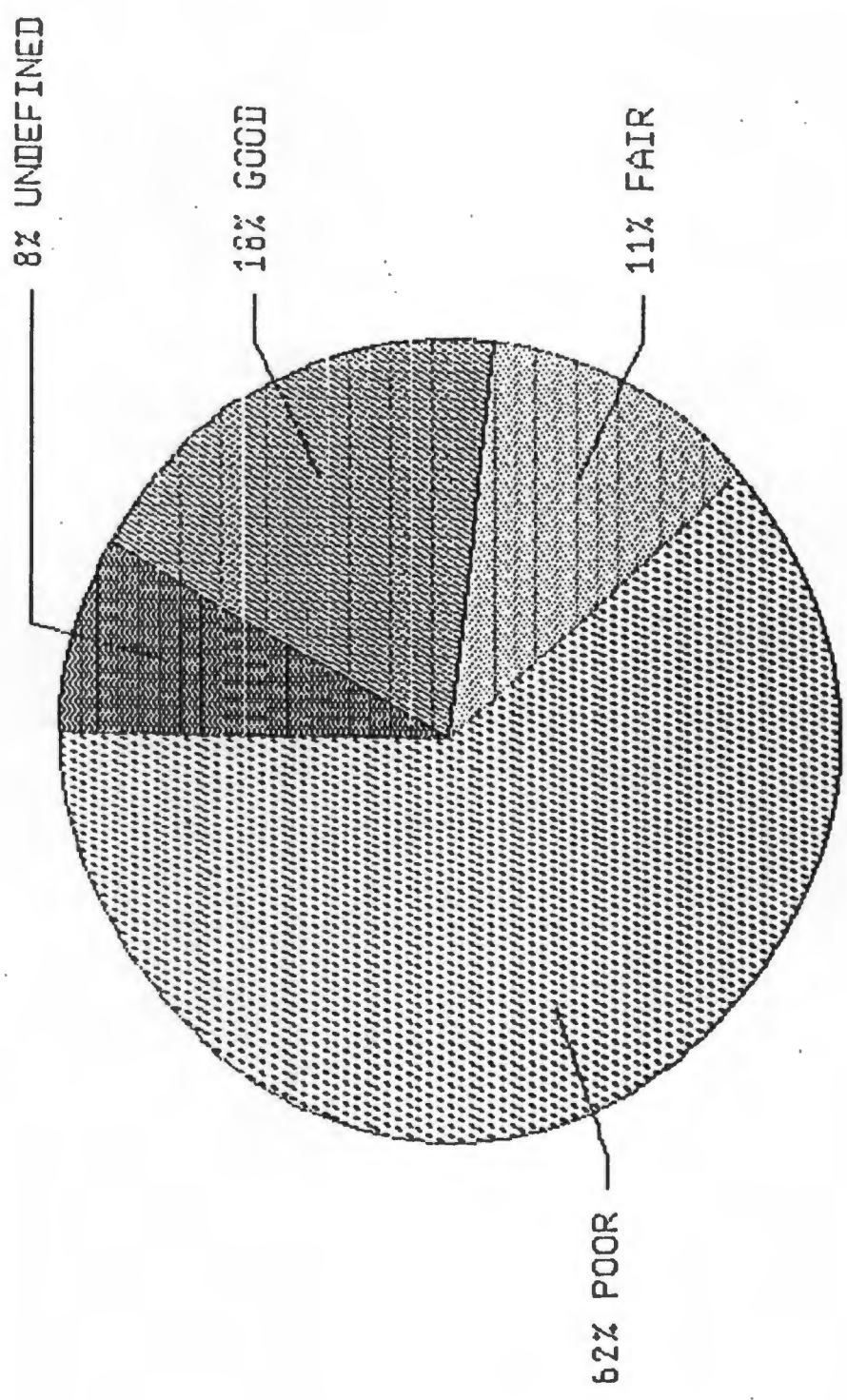


93% FAIR

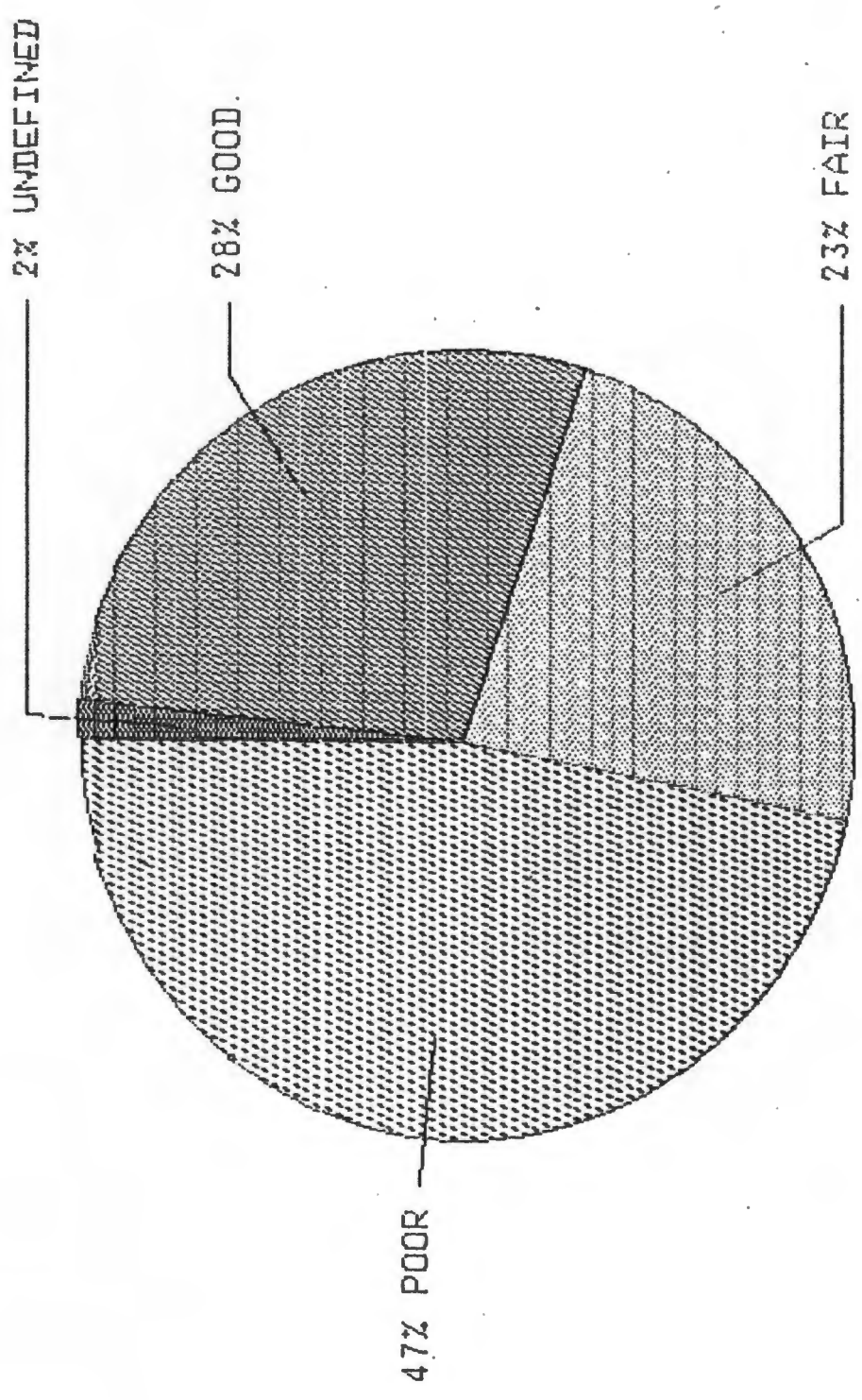
REASON FOR POISONING=IGNORANCE PER ABILITY TO READ AFRIKAANS



REASON FOR POISONING= ACCIDENT PER ABILITY TO READ AFRIKAANS

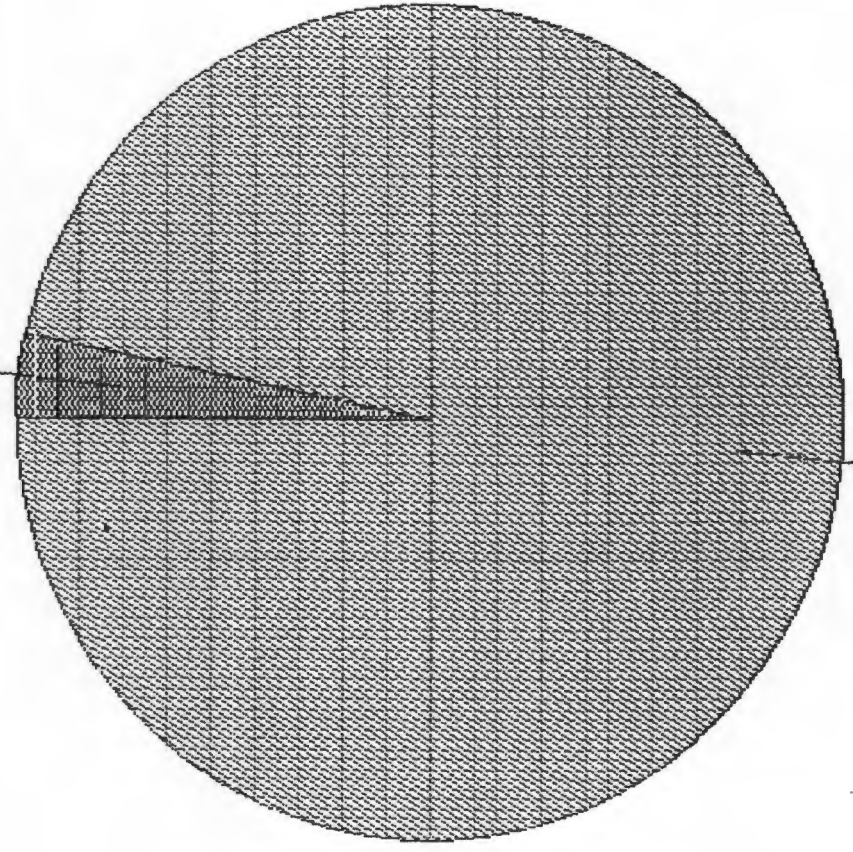


POISONING=SUICIDE WHAT ABILITY TO READ ENGLISH



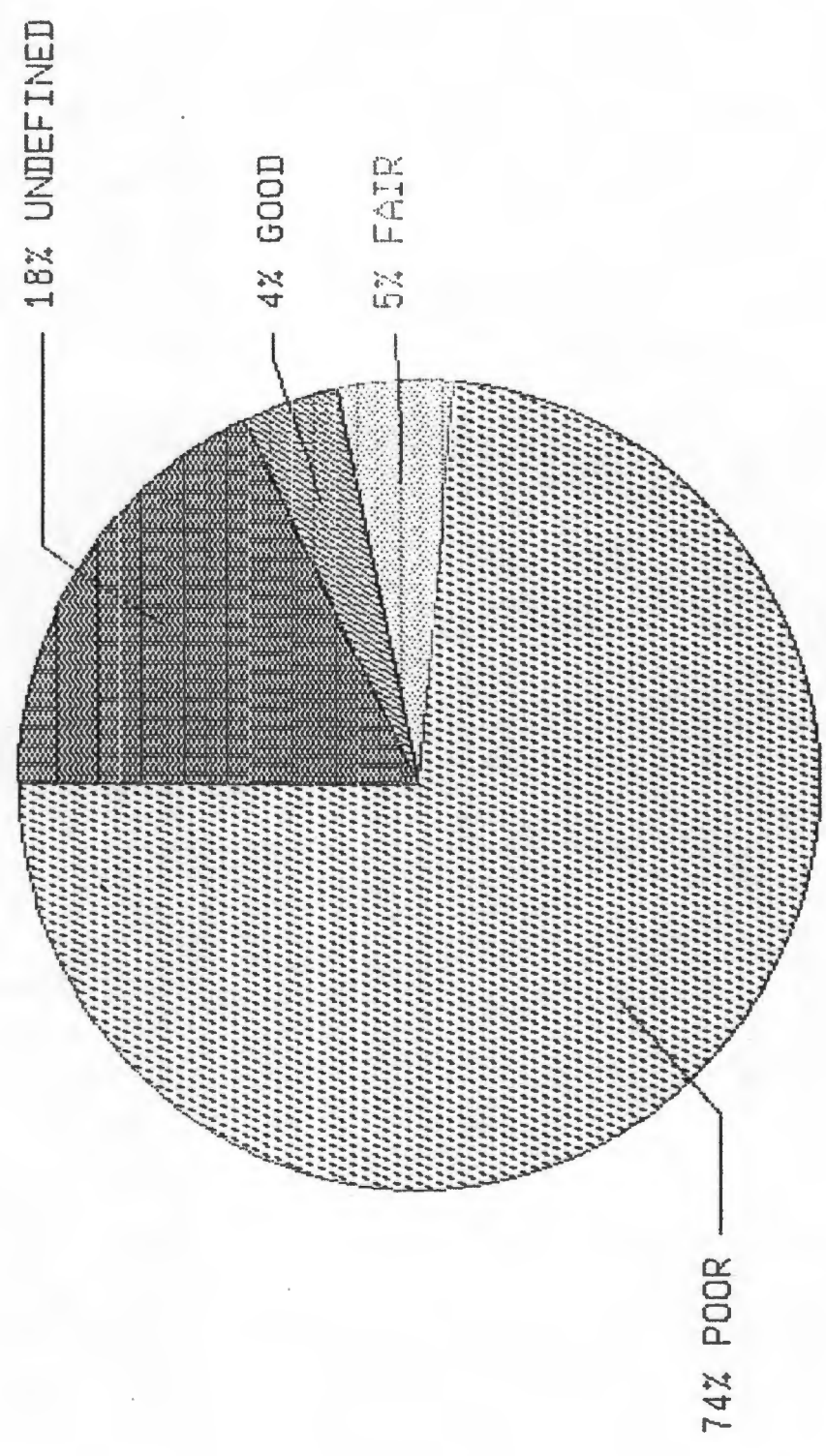
POISONING=MURDER WHAT ABILITY TO READ ENGLISH

3% UNDEFINED

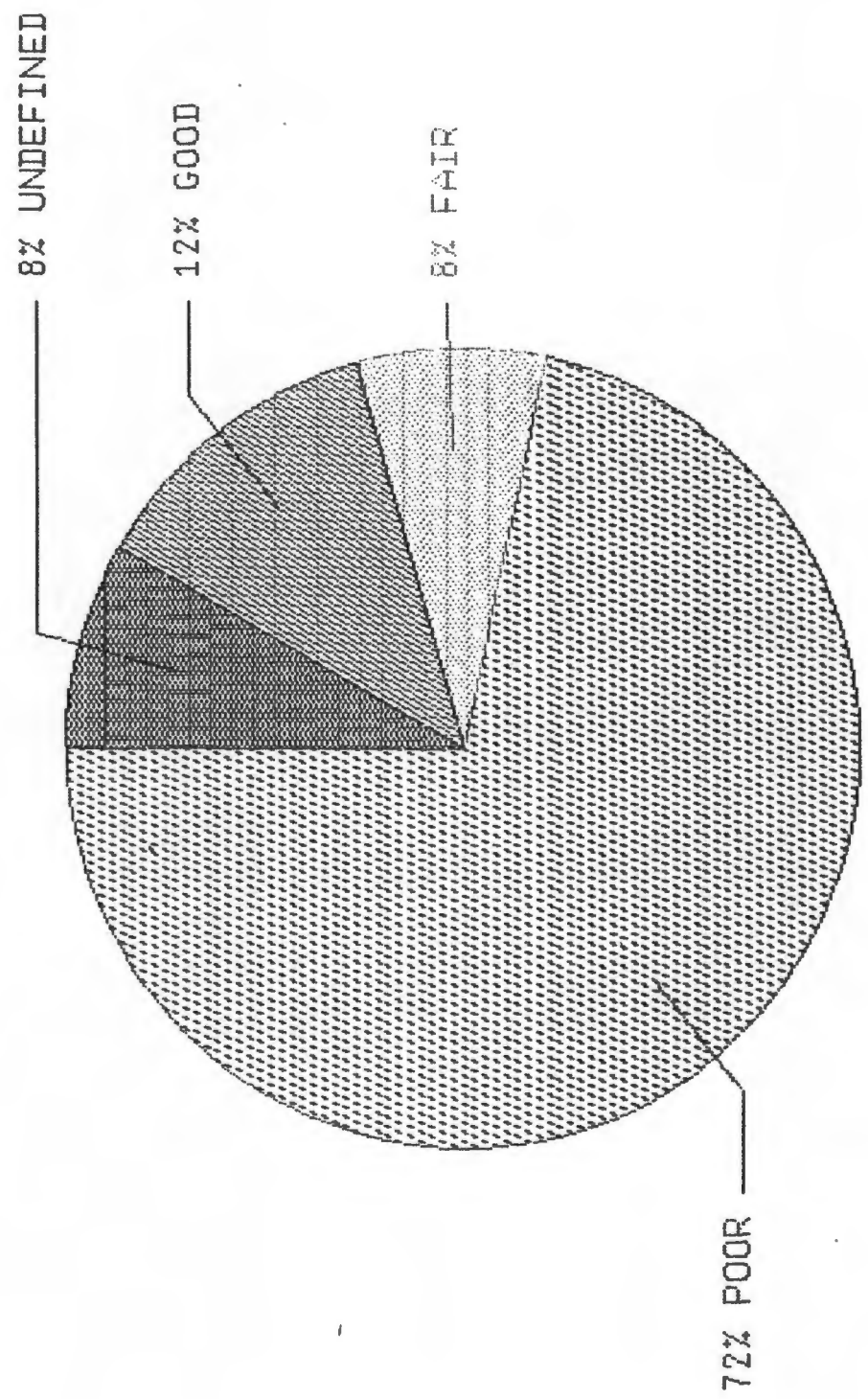


97% GOOD

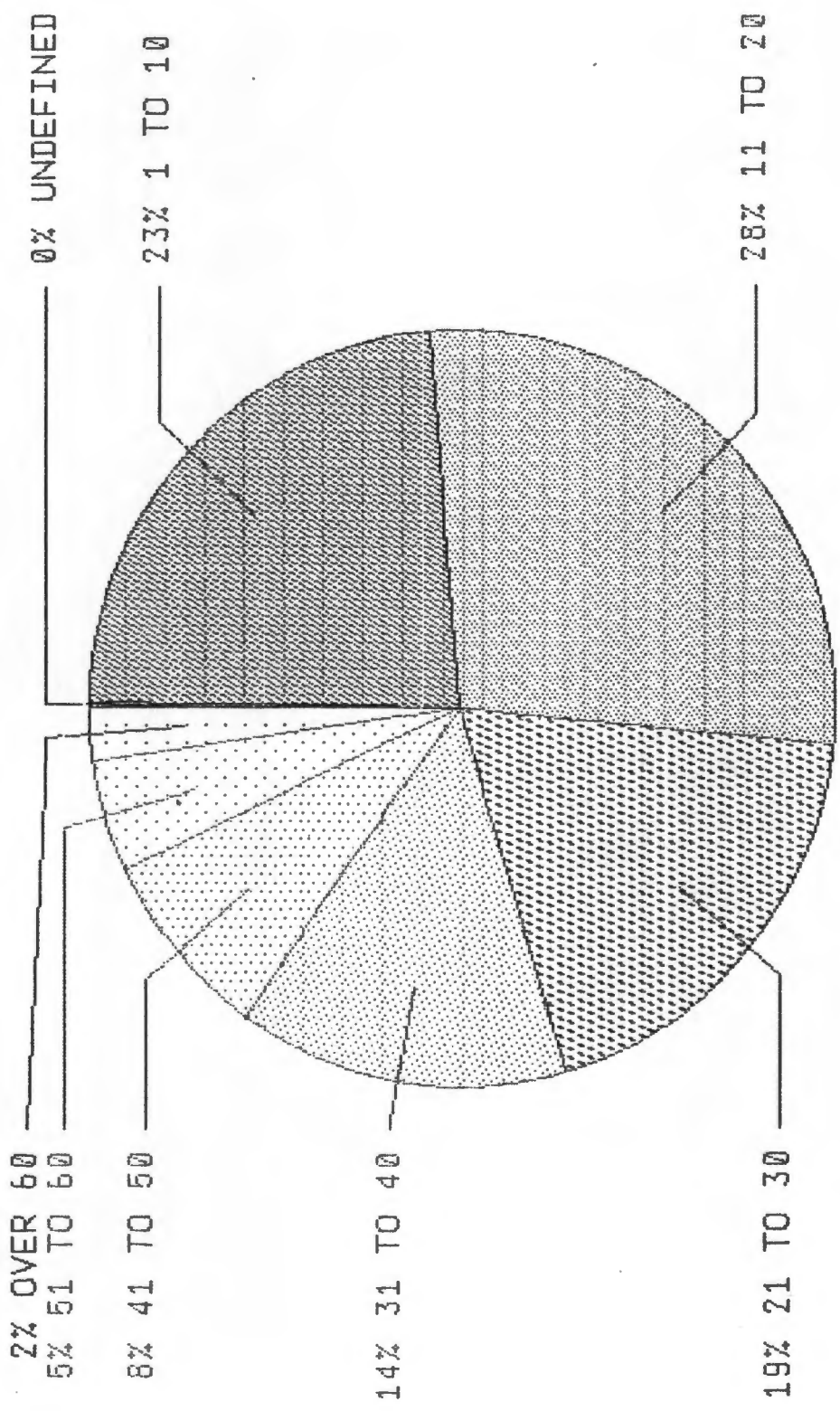
POISONING=IGNORANCE WHAT ABILITY TO READ ENGLISH



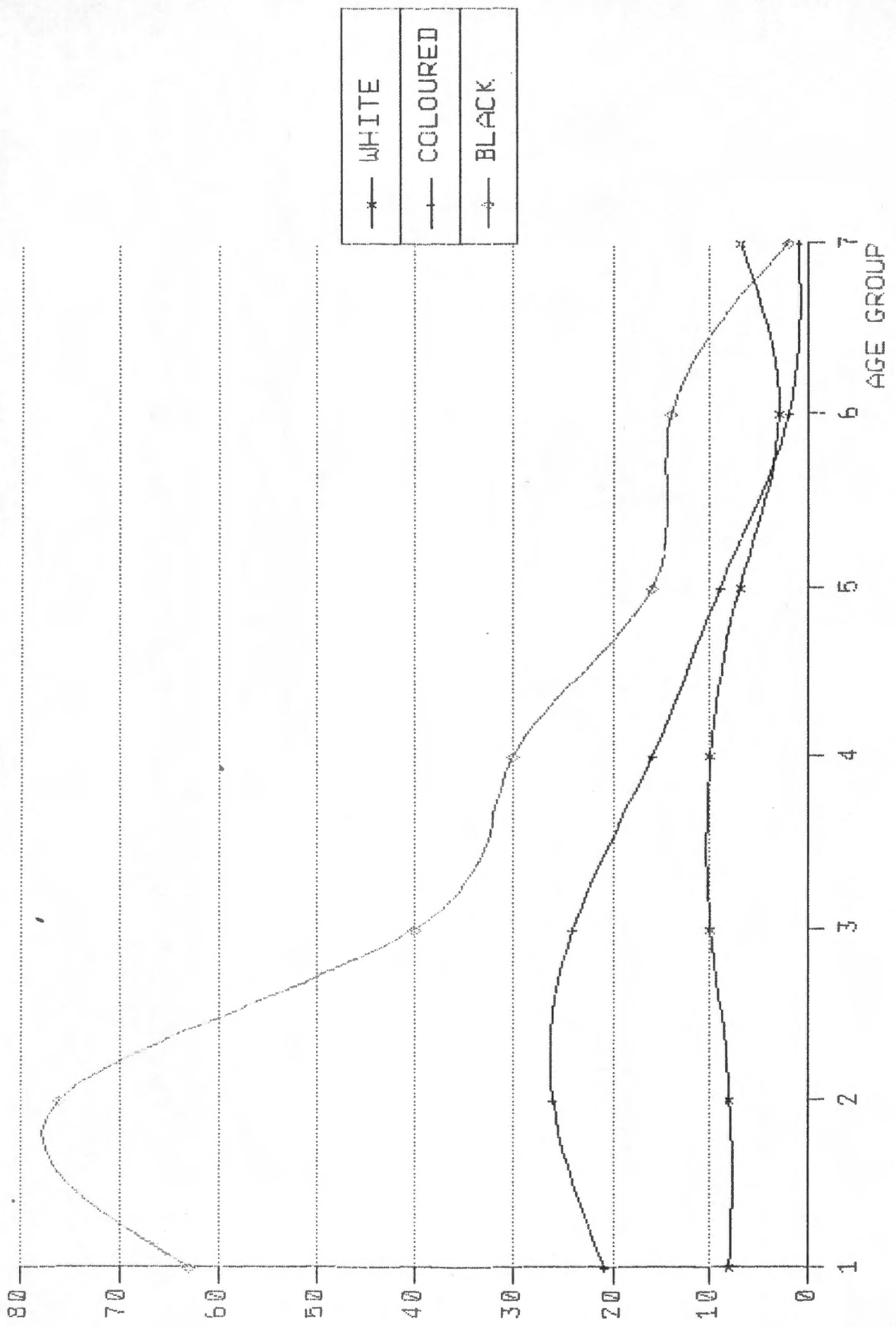
POISONING=ACCIDENT WHAT ABILITY TO READ ENGLISH



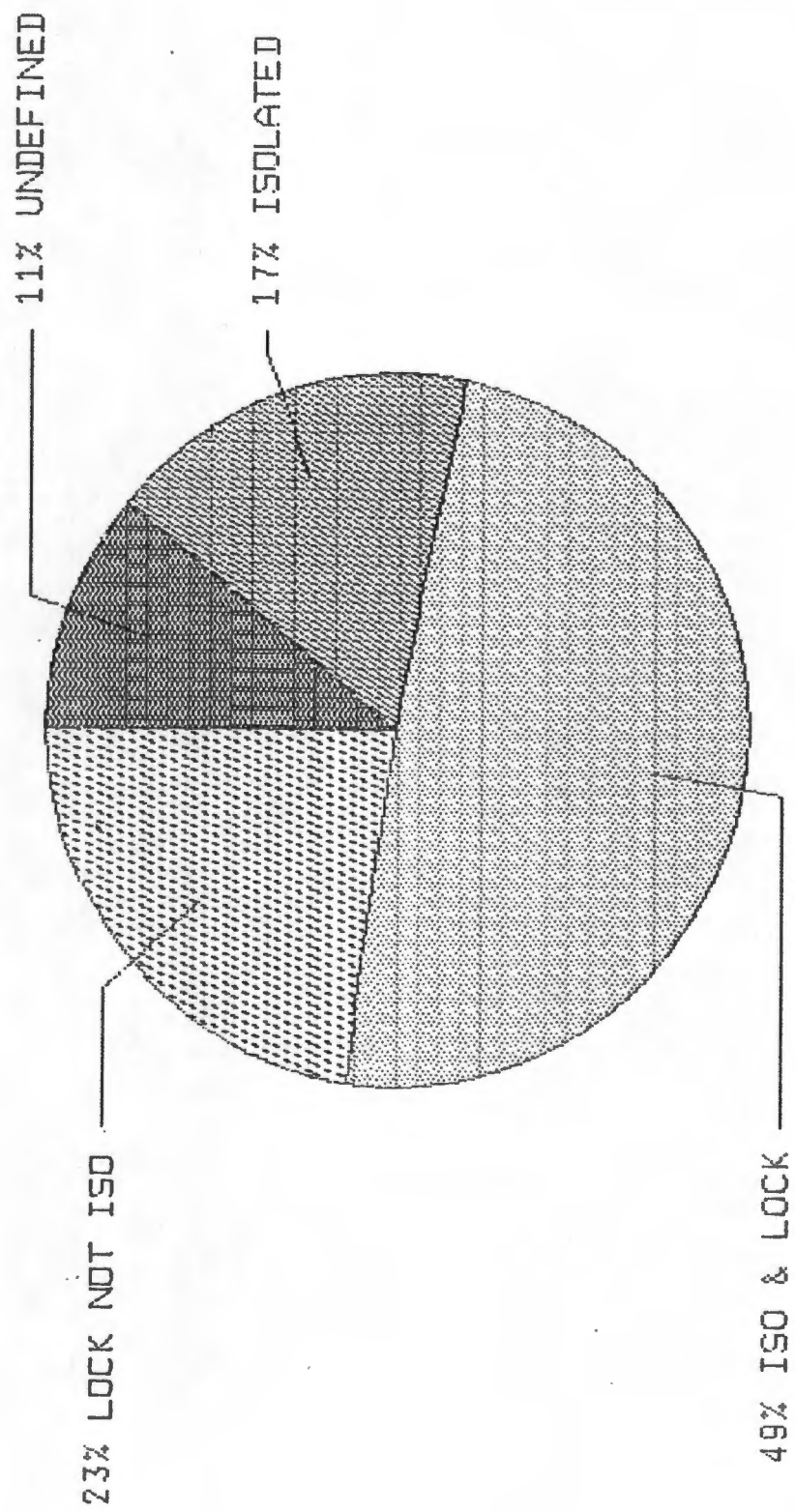
# POISONING BY AGE GROUPS



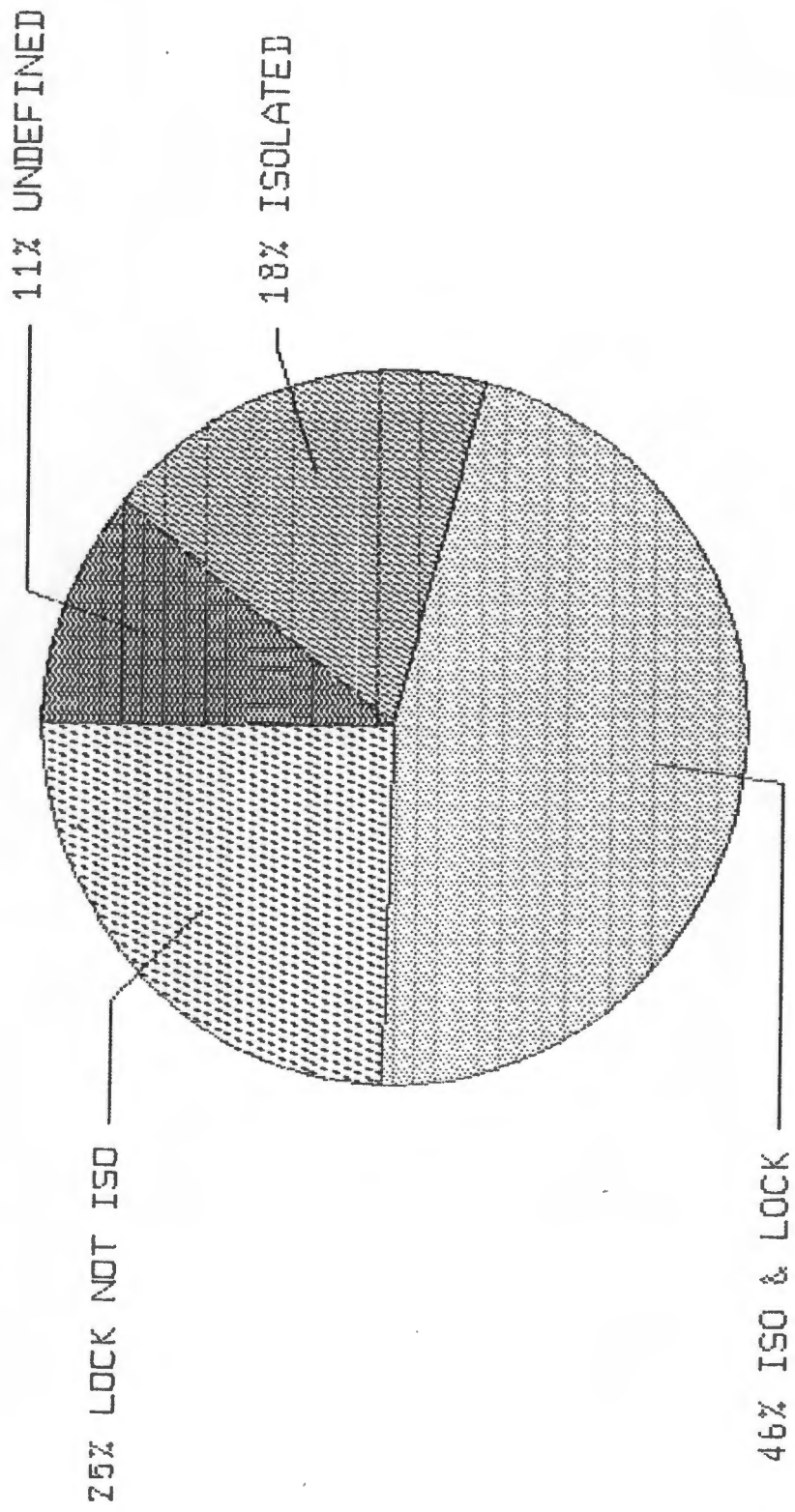
# POISONING OF DIFFERENT RACES BY AGE GROUP



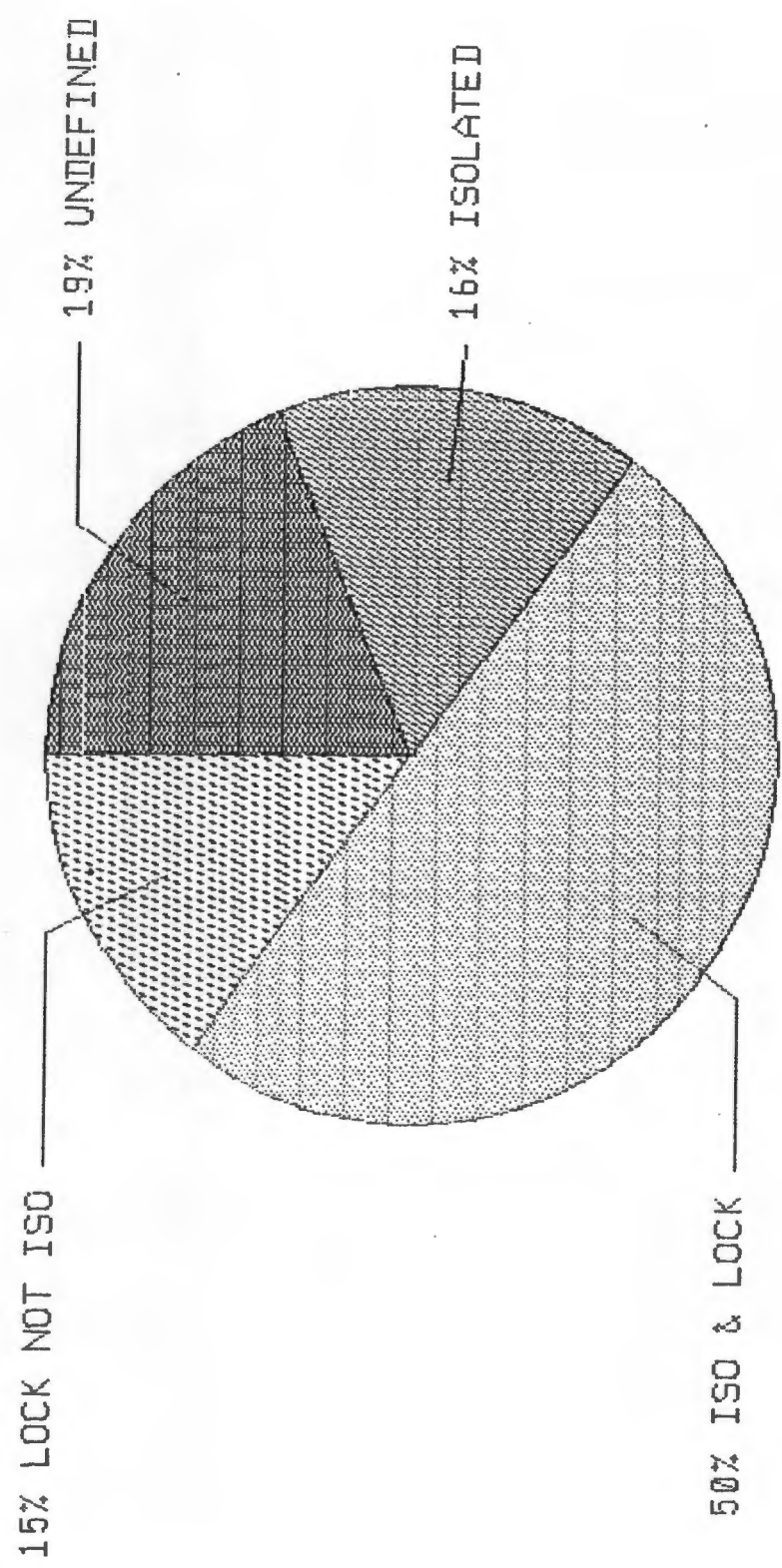
RELATION BETWEEN AGE GROUP=0:10 AND STORAGE OF POISONS



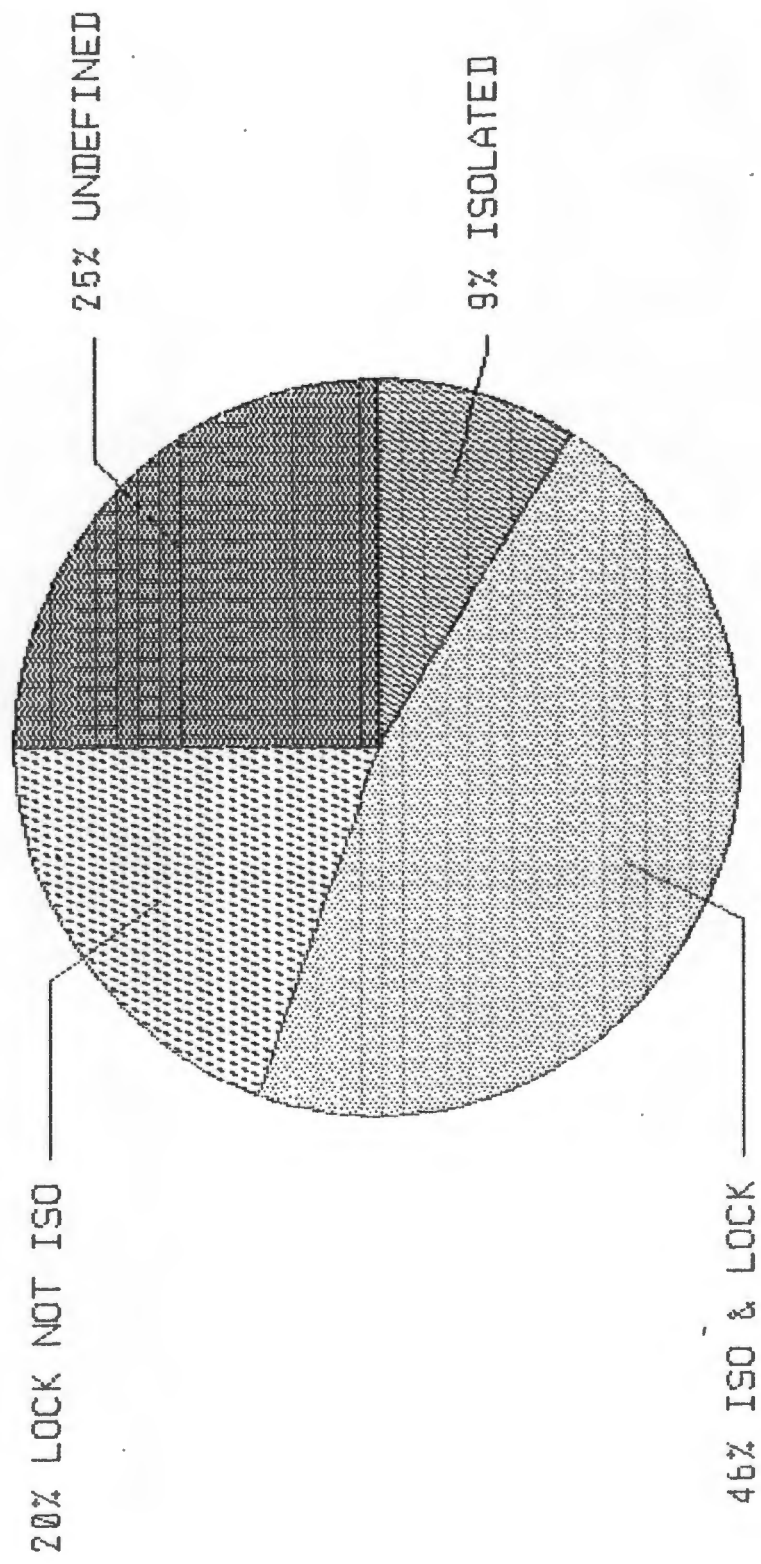
RELATION BETWEEN AGE GROUP=11:20 AND STORAGE OF POISONS



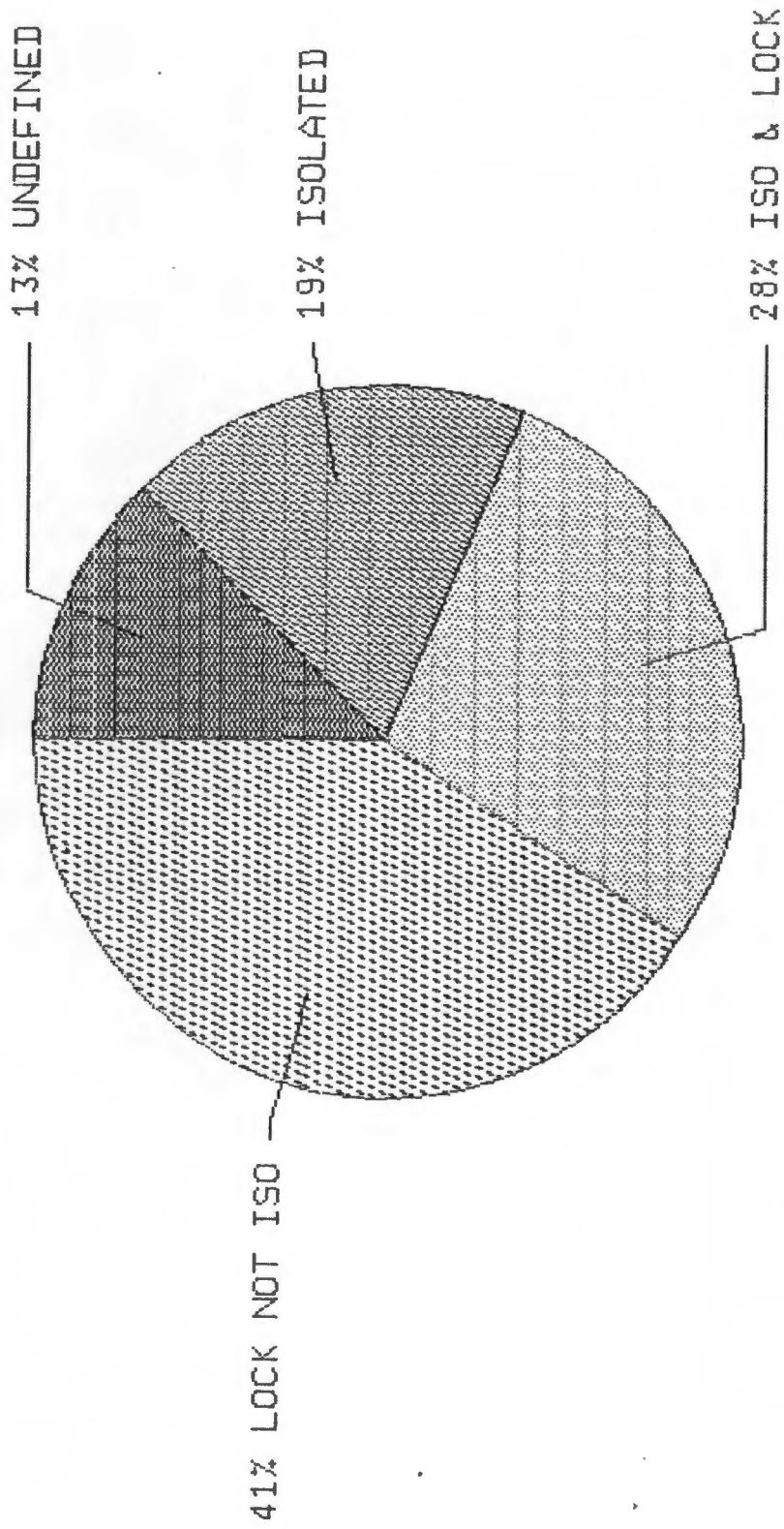
# RELATION BETWEEN AGE GROUP=21:30 AND STORAGE OF POISONS



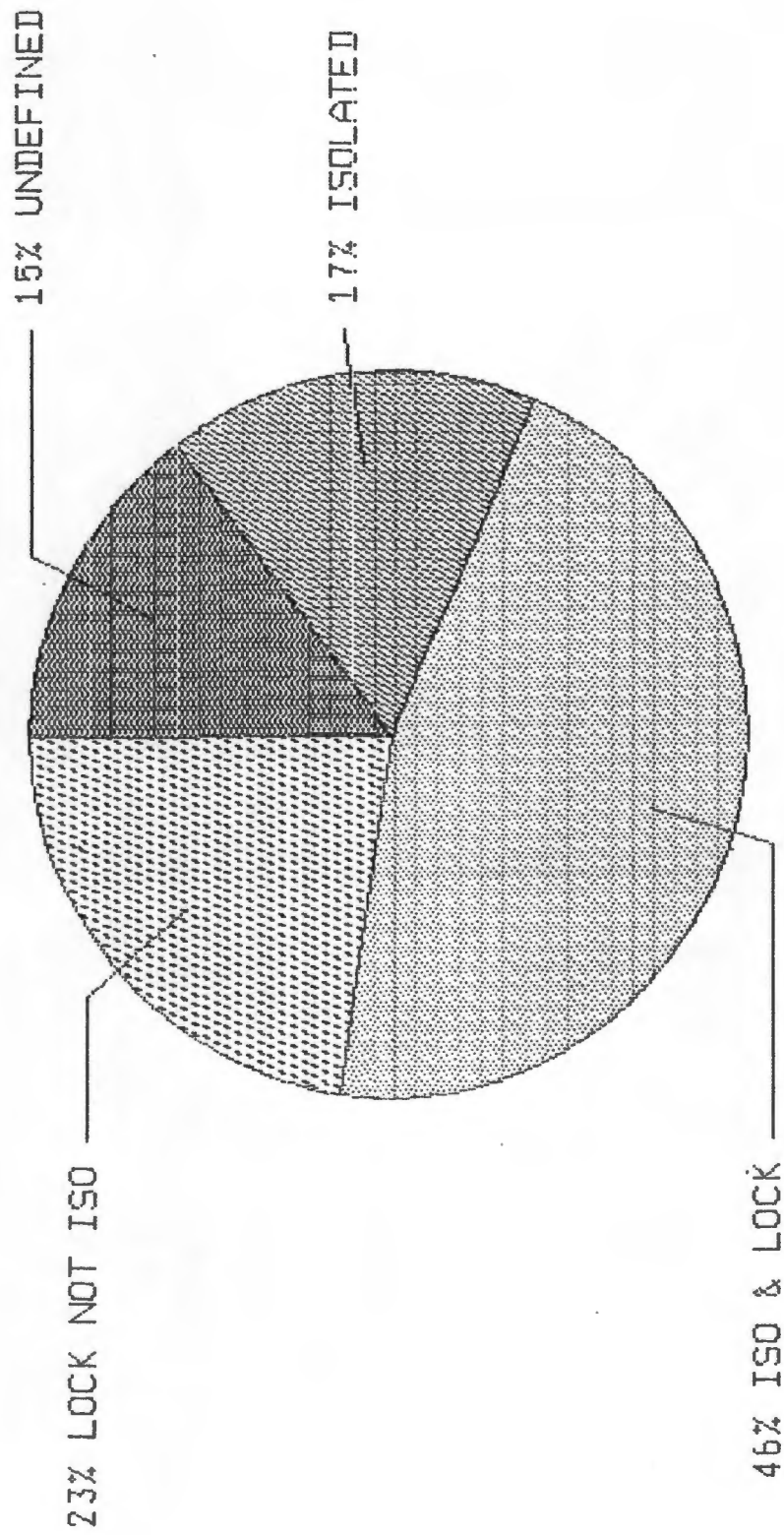
RELATION BETWEEN AGE GROUP=31: 40 AND STORAGE OF POISONS



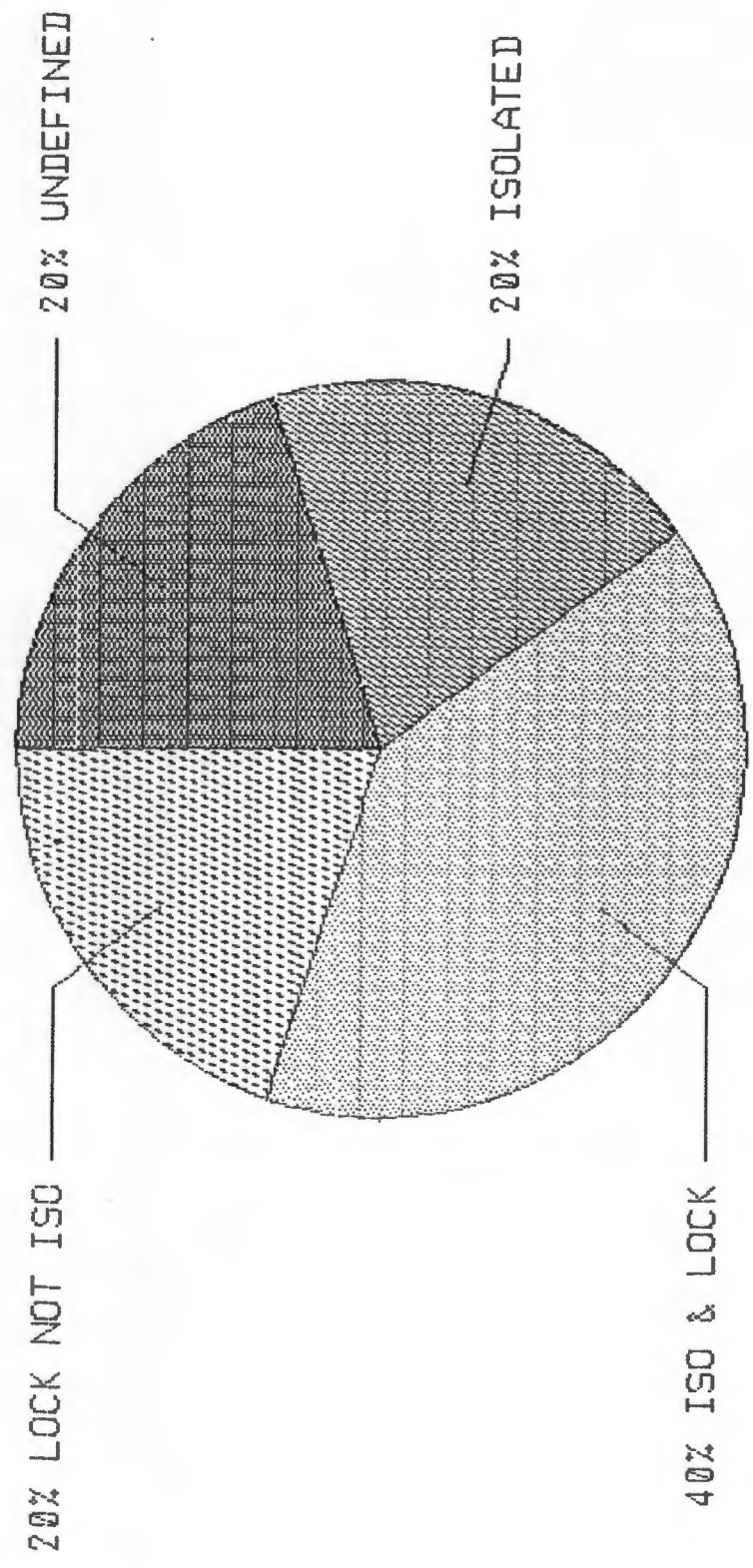
RELATION BETWEEN AGE GROUP=41: 50 AND STORAGE OF POISONS



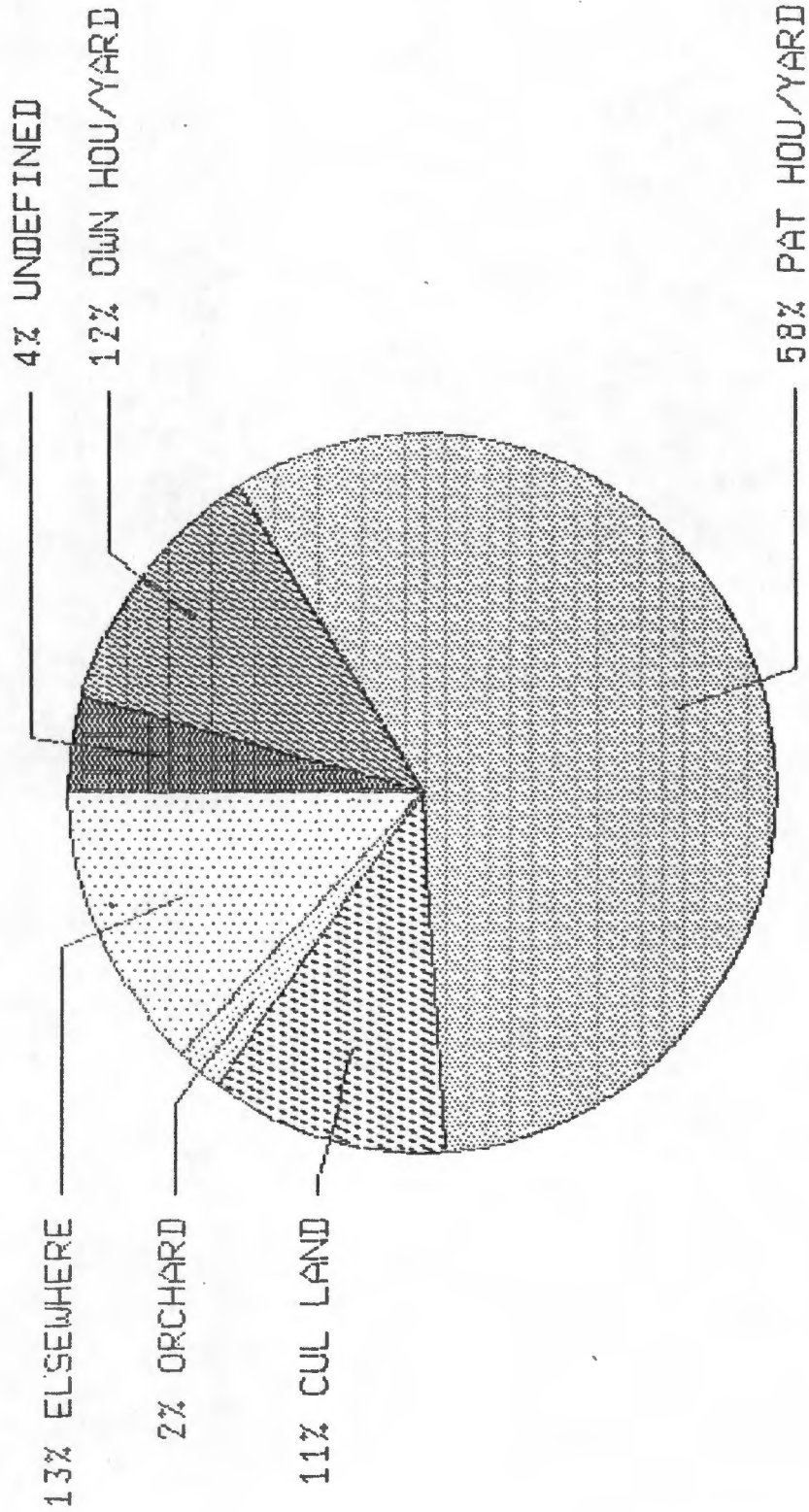
# RELATION BETWEEN AGE GROUP=51: 60 AND STORAGE OF POISONS



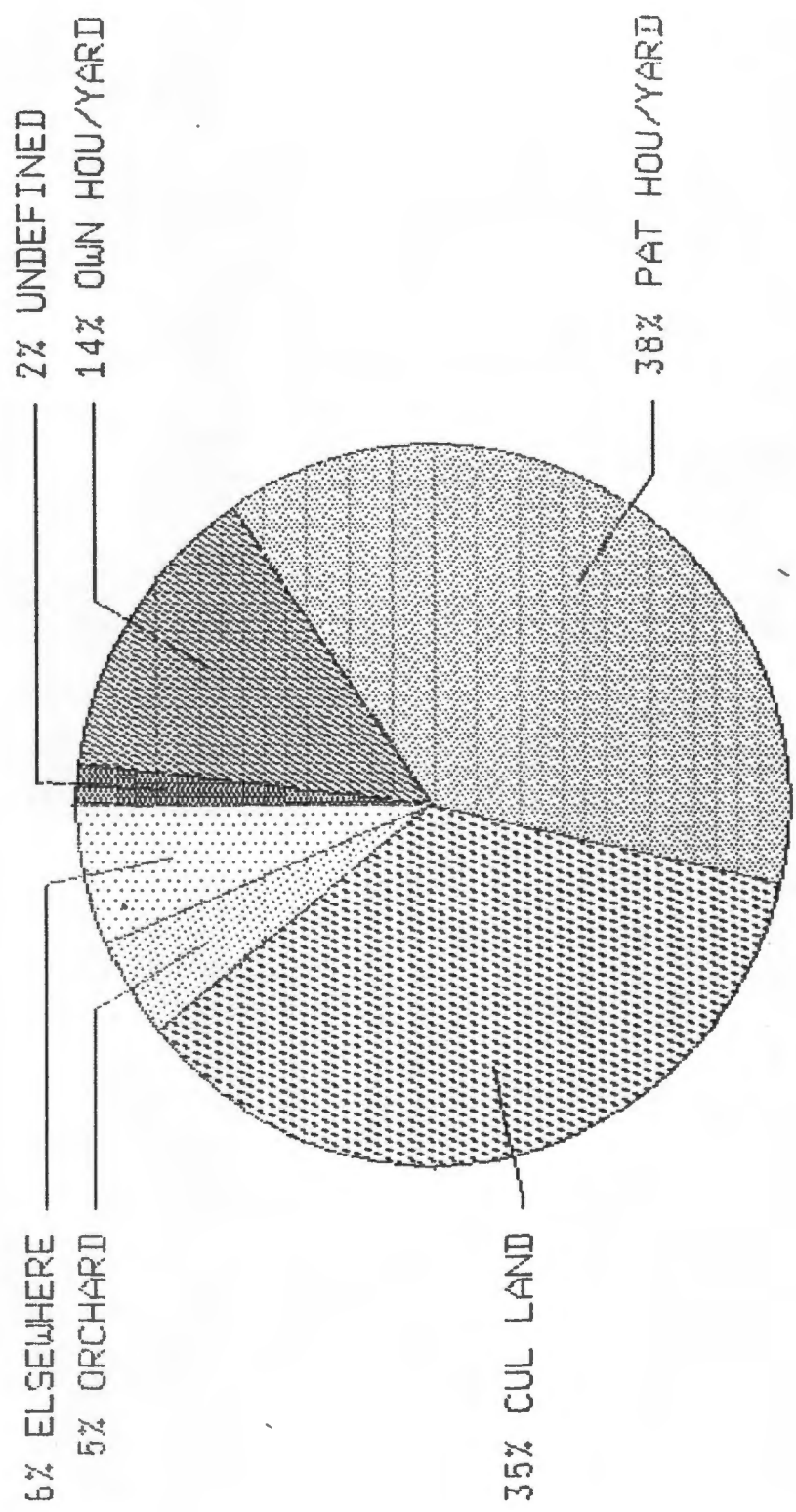
# RELATION BETWEEN AGE GROUP=61:99 AND STORAGE OF POISONS



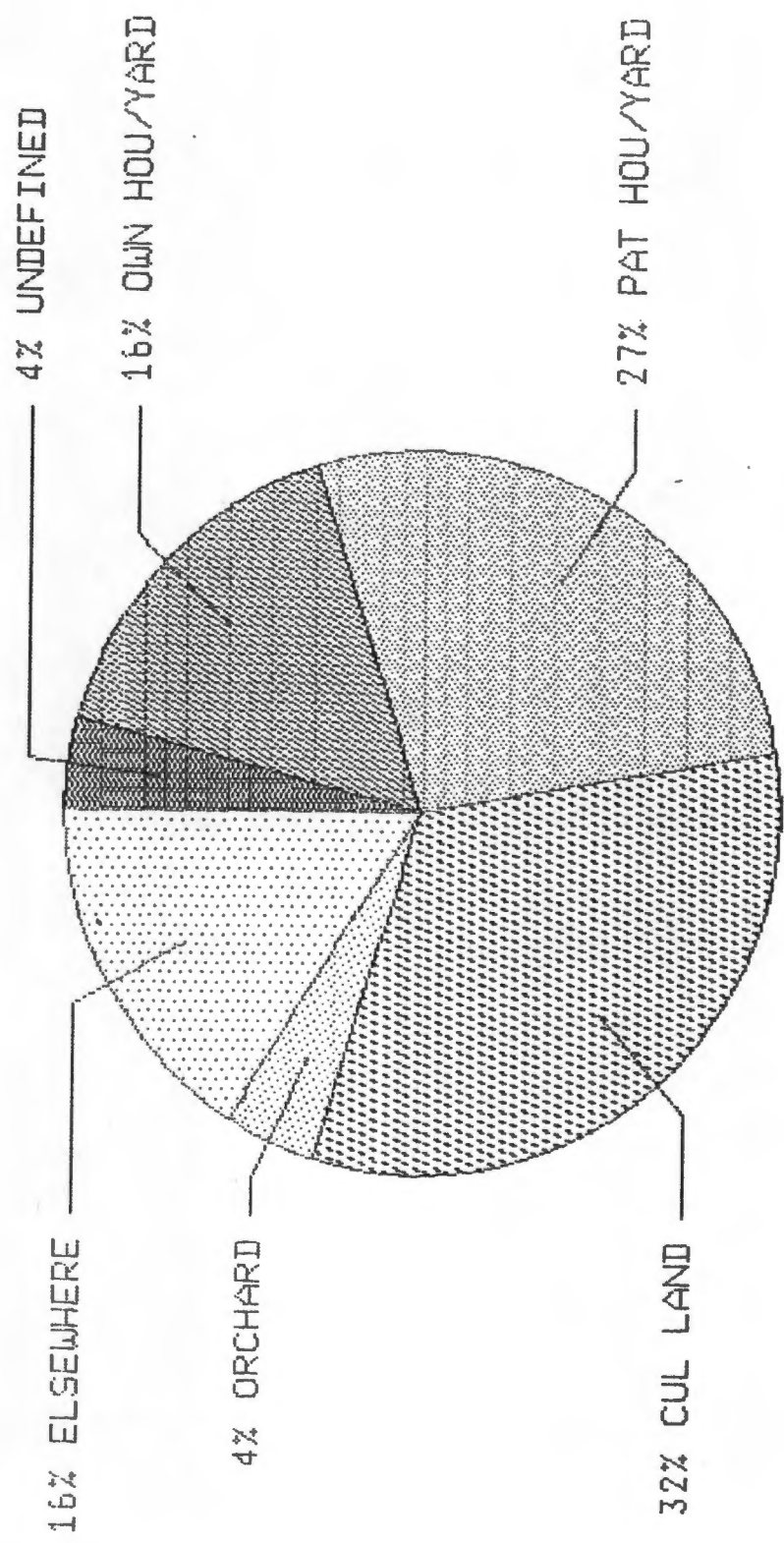
# WHERE DID POISONING OF AGE GROUP=0:10 TAKE PLACE



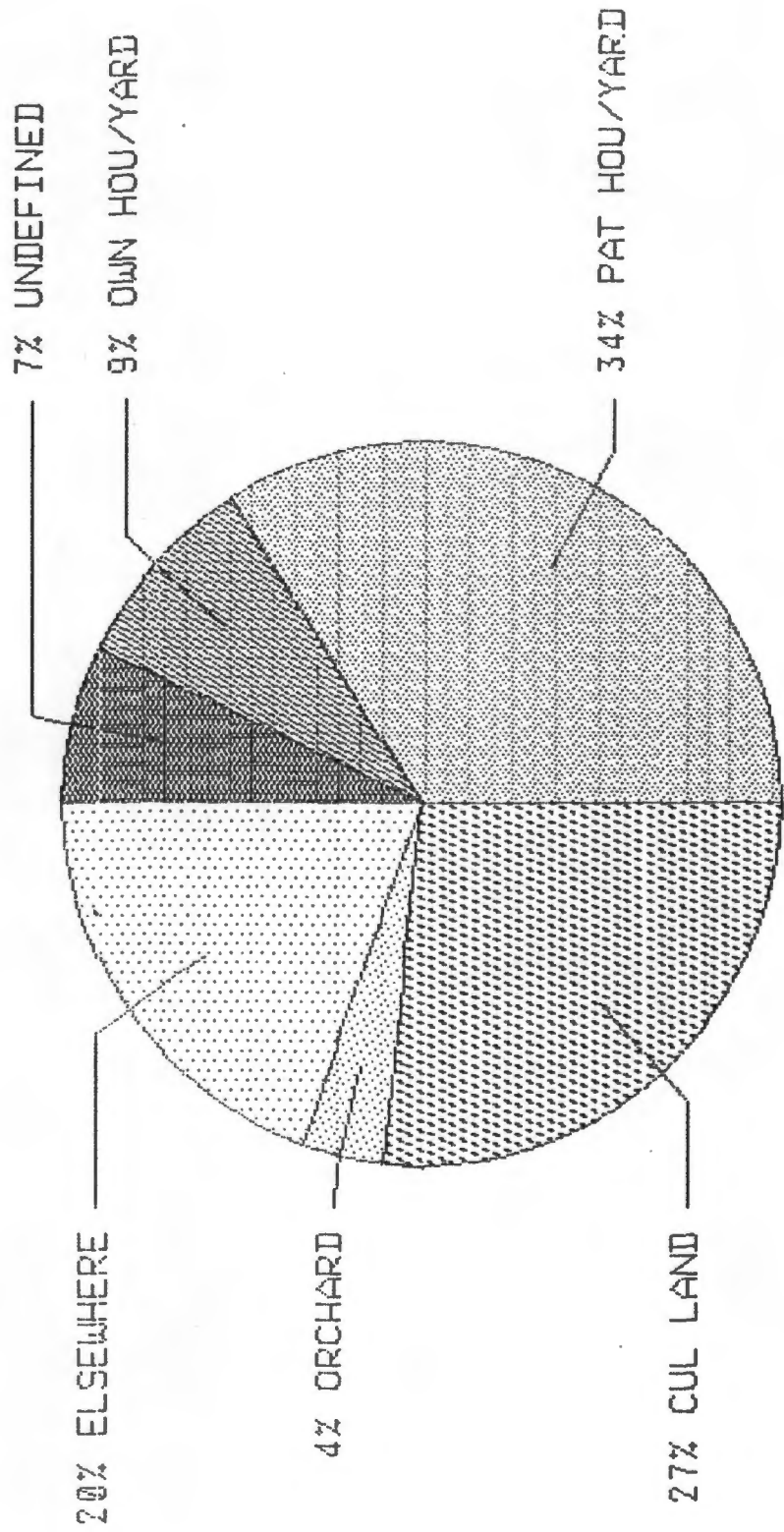
# WHERE DID POISONING OF AGE GROUP=11:20 TAKE PLACE



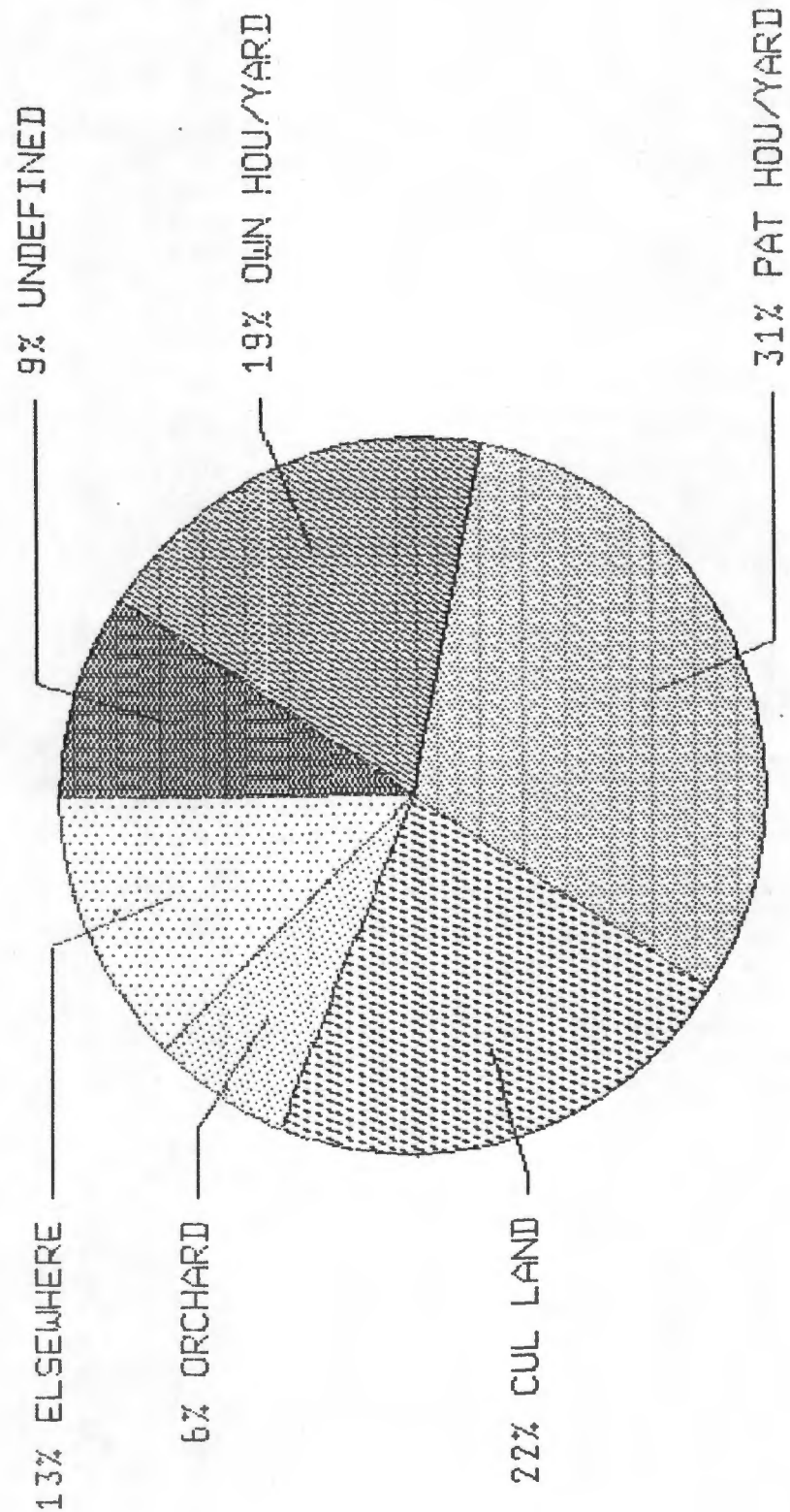
# WHERE DID POISONING OF AGE GROUP=21:30 TAKE PLACE



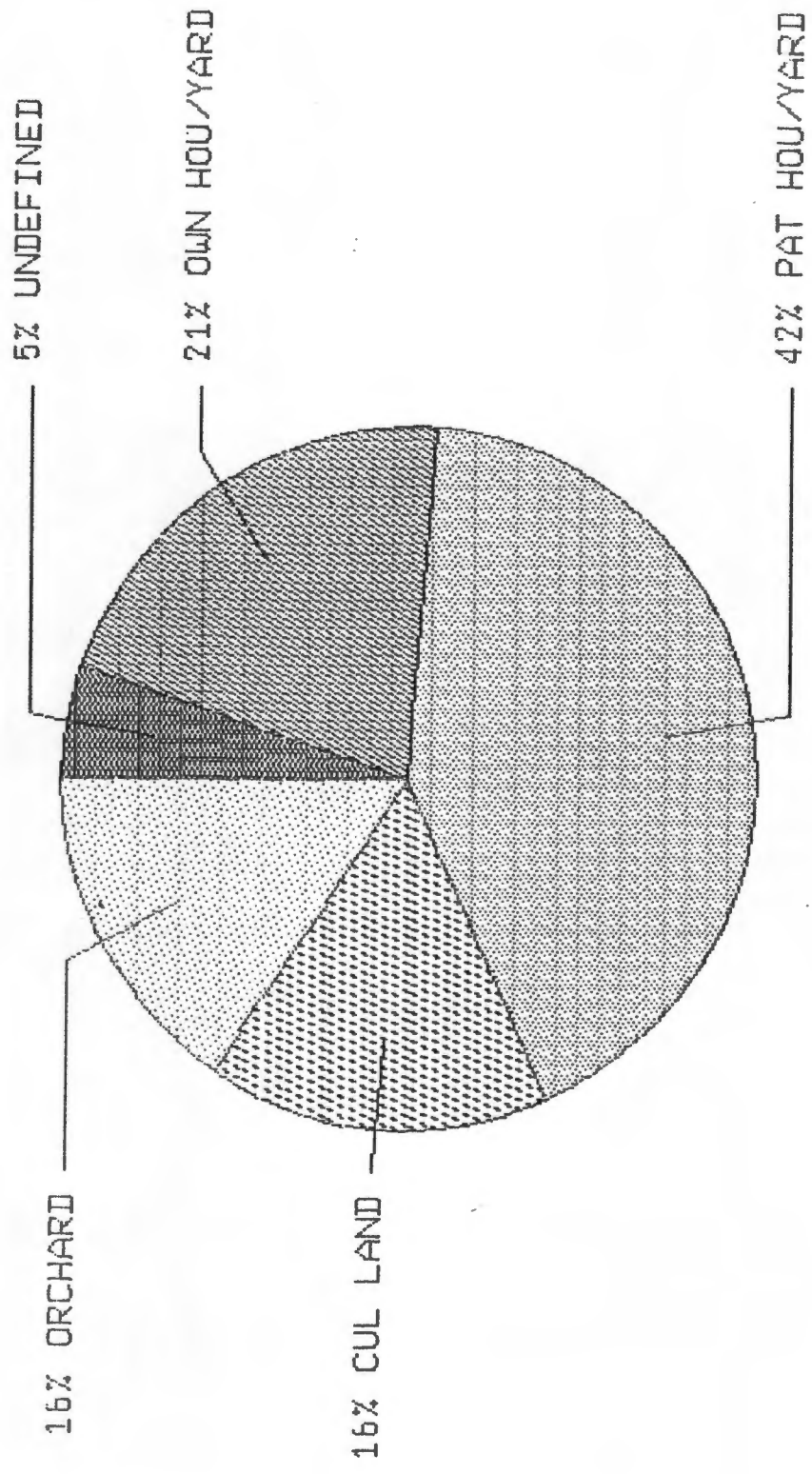
WHERE DID POISONING OF AGE GROUP=31:40 TAKE PLACE



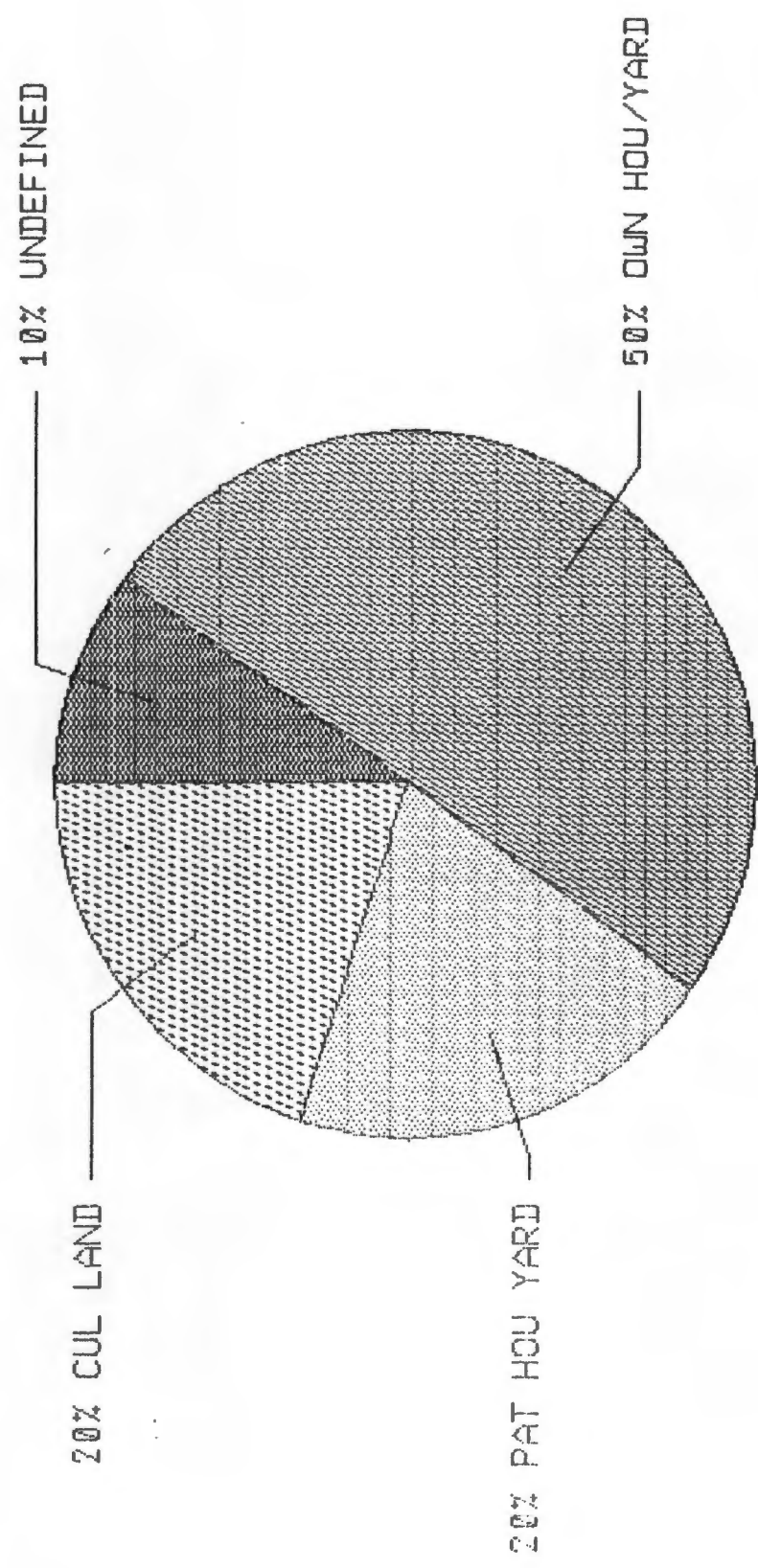
WHERE DID POISONING OF AGE GROUP=41:50 TAKE PLACE



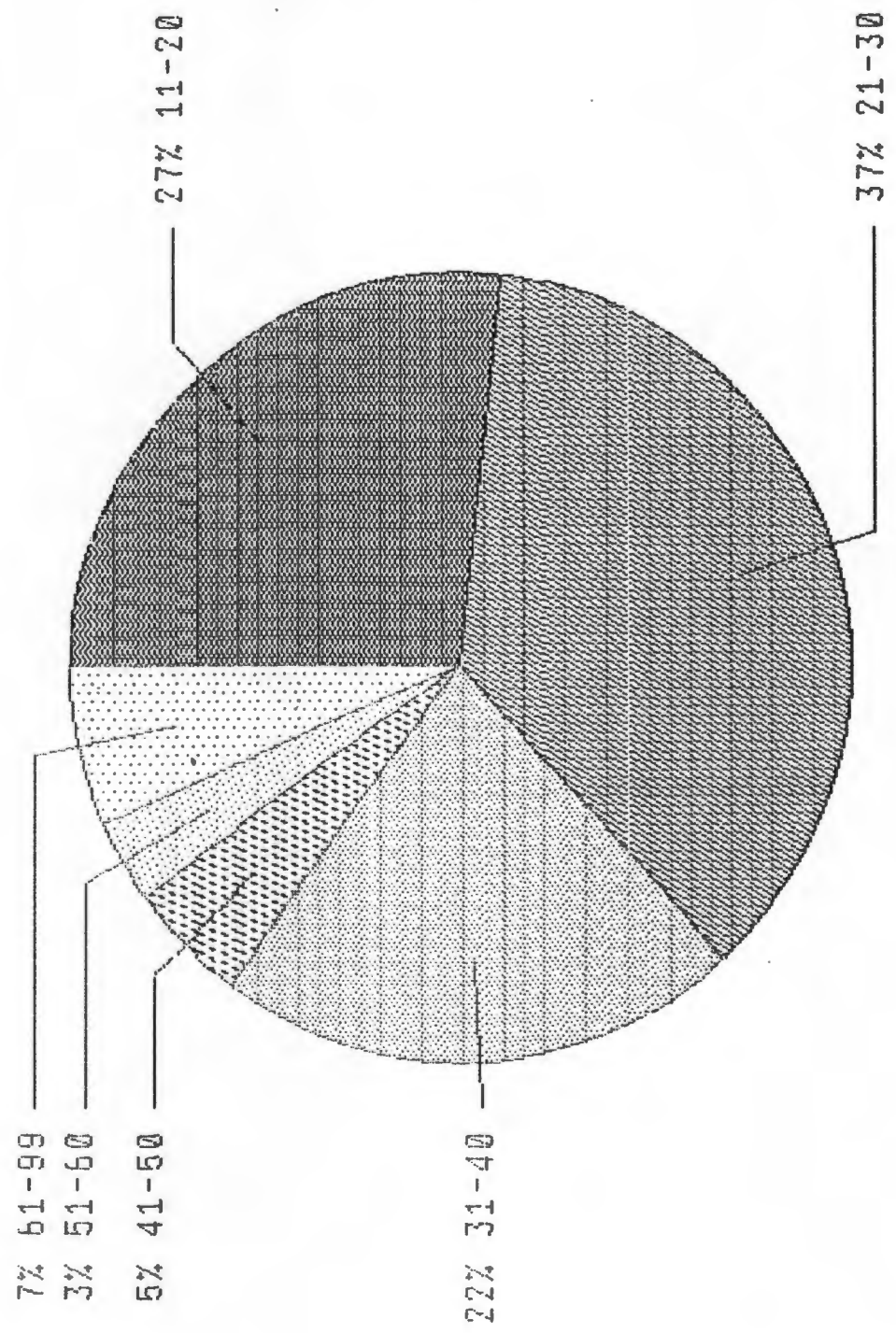
# WHERE DID POISONING OF AGE GROUP=51:60 TAKE PLACE



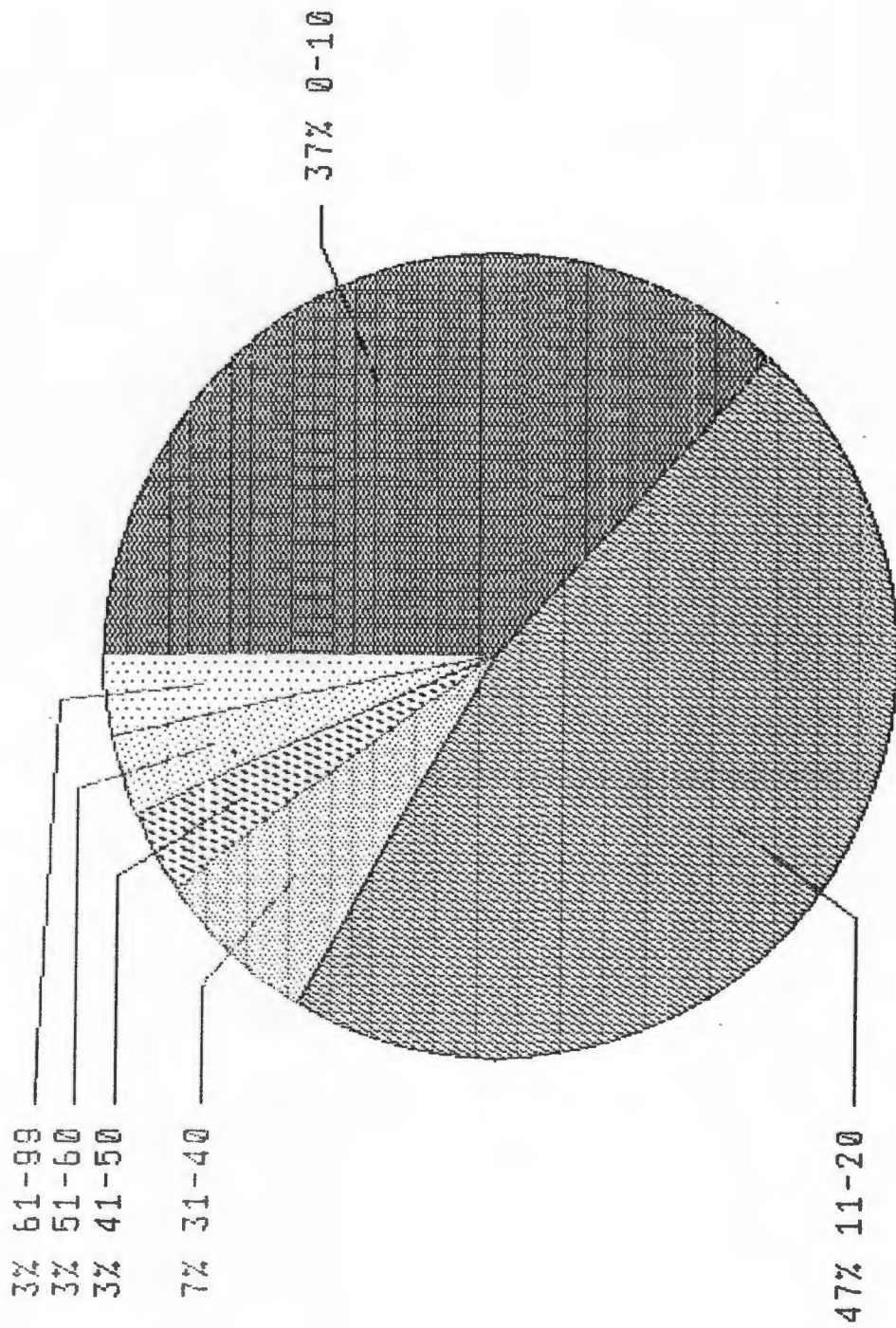
WHERE DID POISONING OF AGE GROUP=61: 99 TAKE PLACE



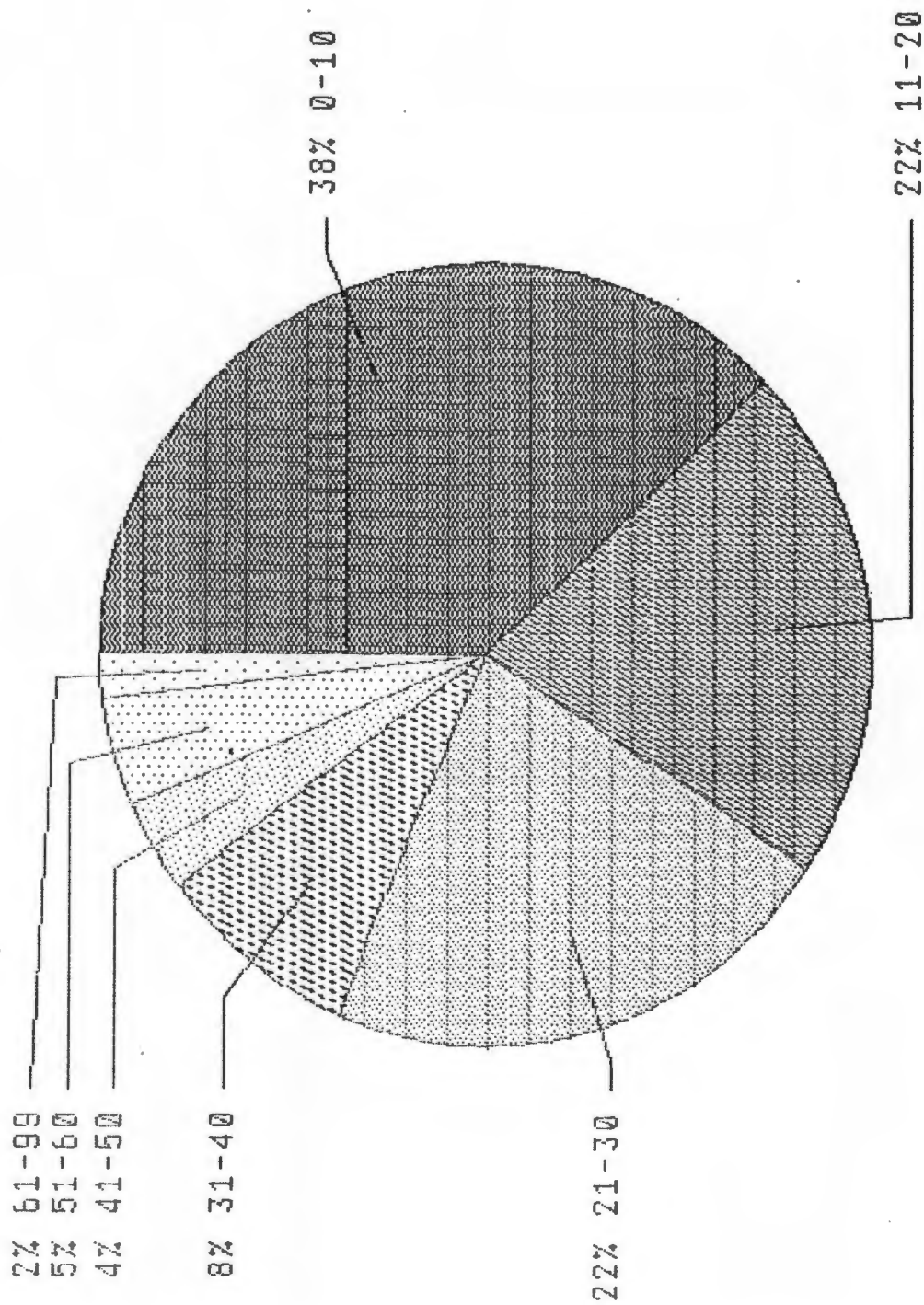
REASON FOR POISONING=SUICIDE PER AGE GROUP



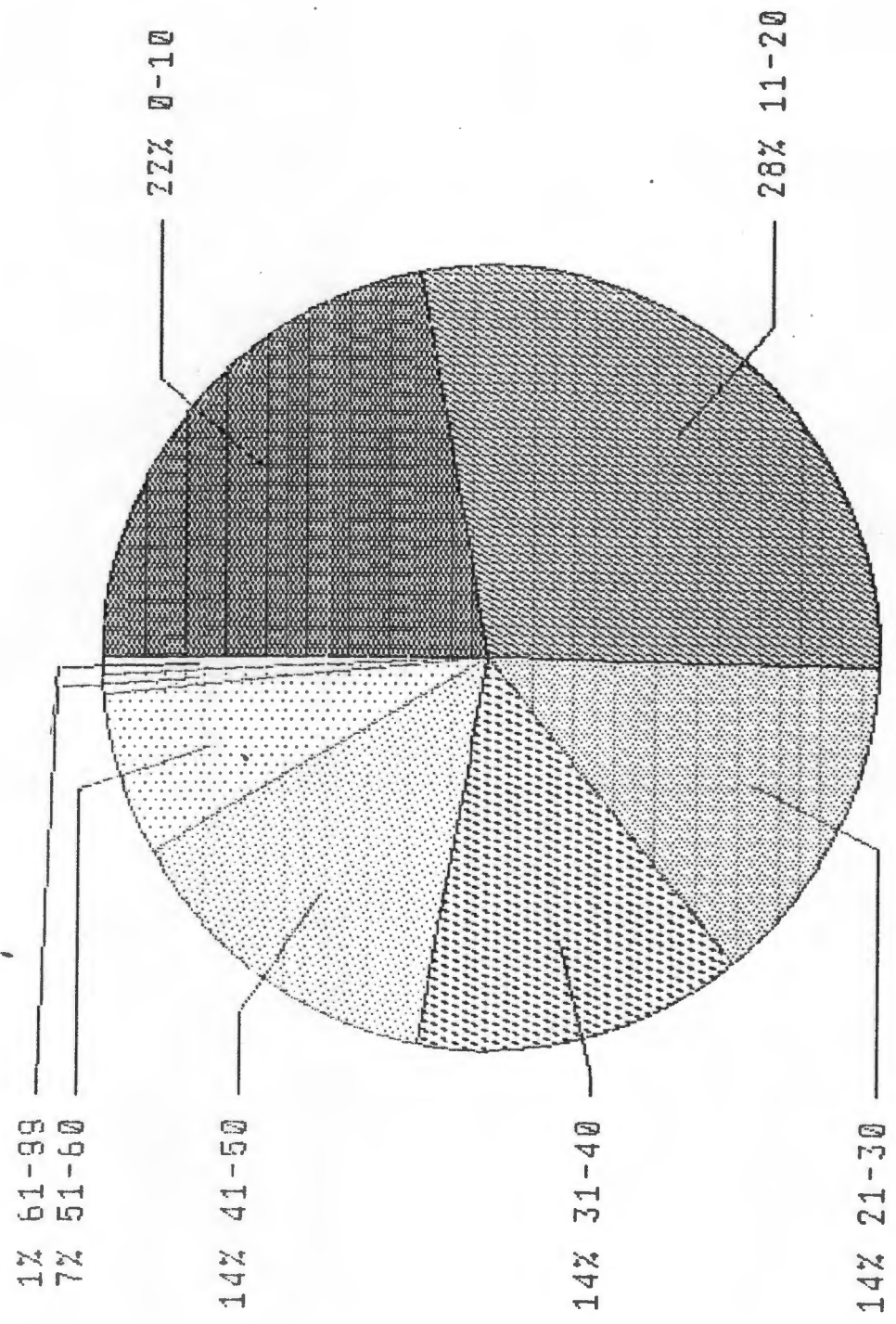
REASON FOR POISONING=MURDER PER AGE GROUP



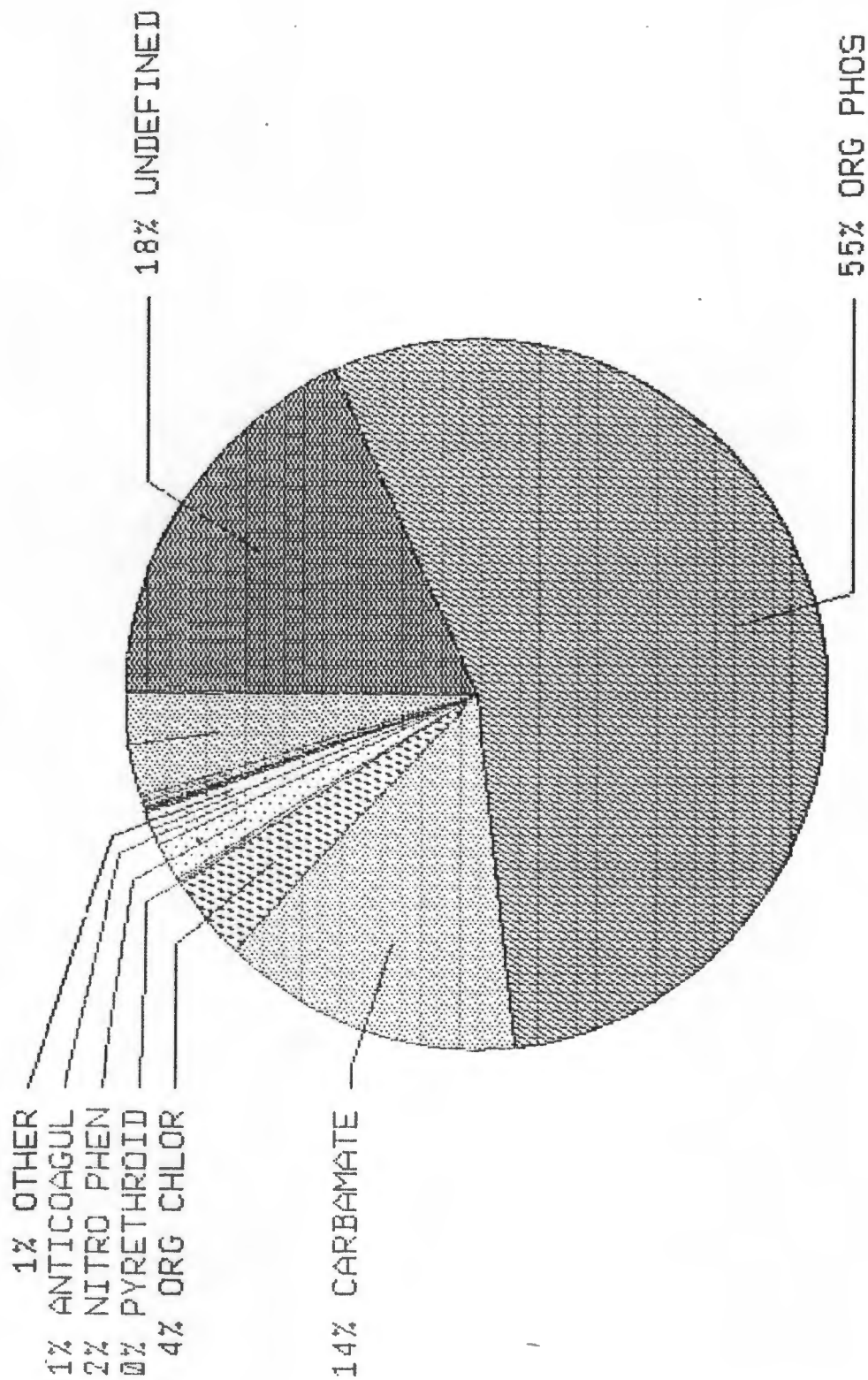
REASON FOR POISONING=IGNORANCE PER AGE GROUP



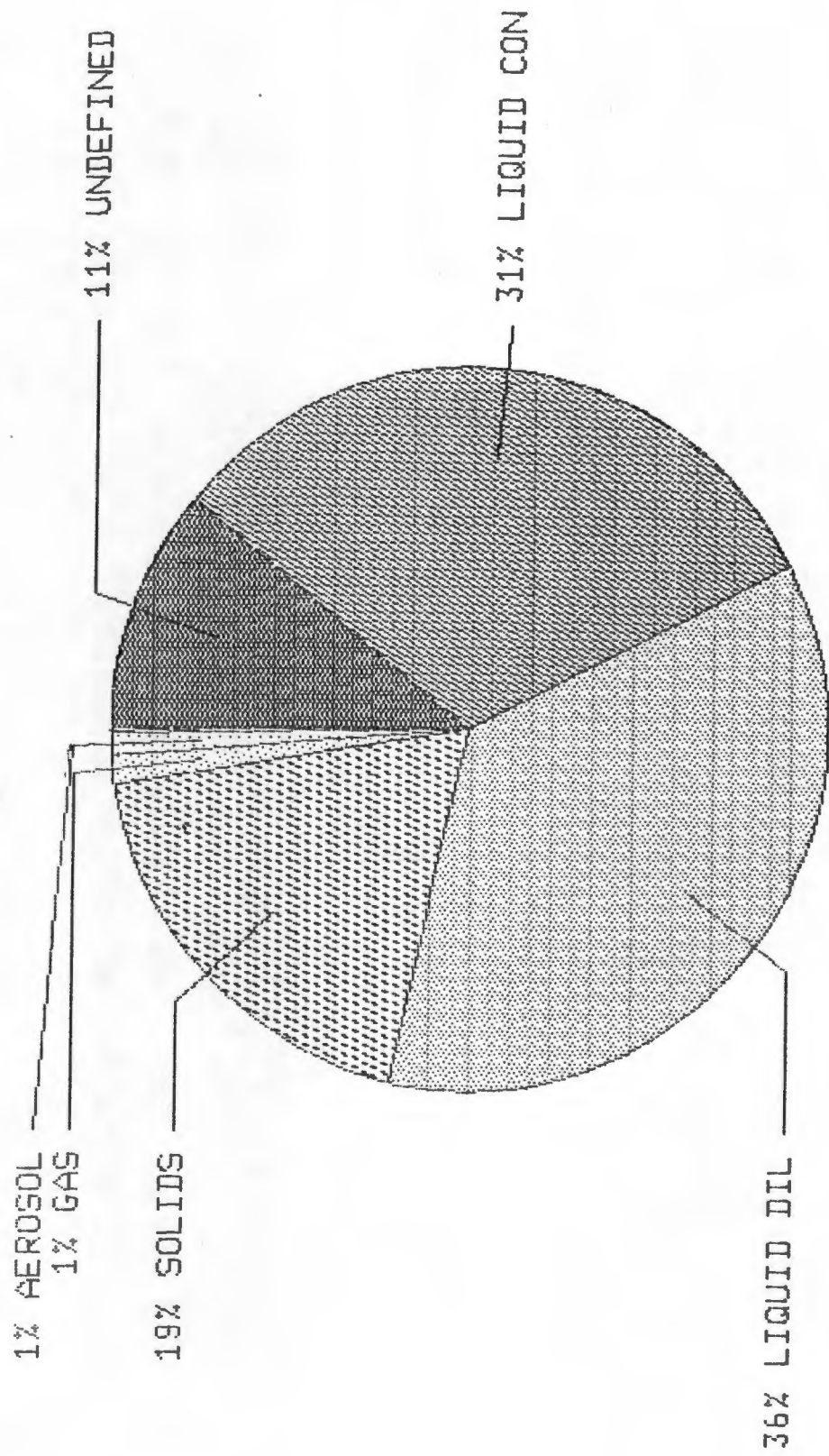
REASON FOR POISONING=ACCIDENT PER AGE GROUP



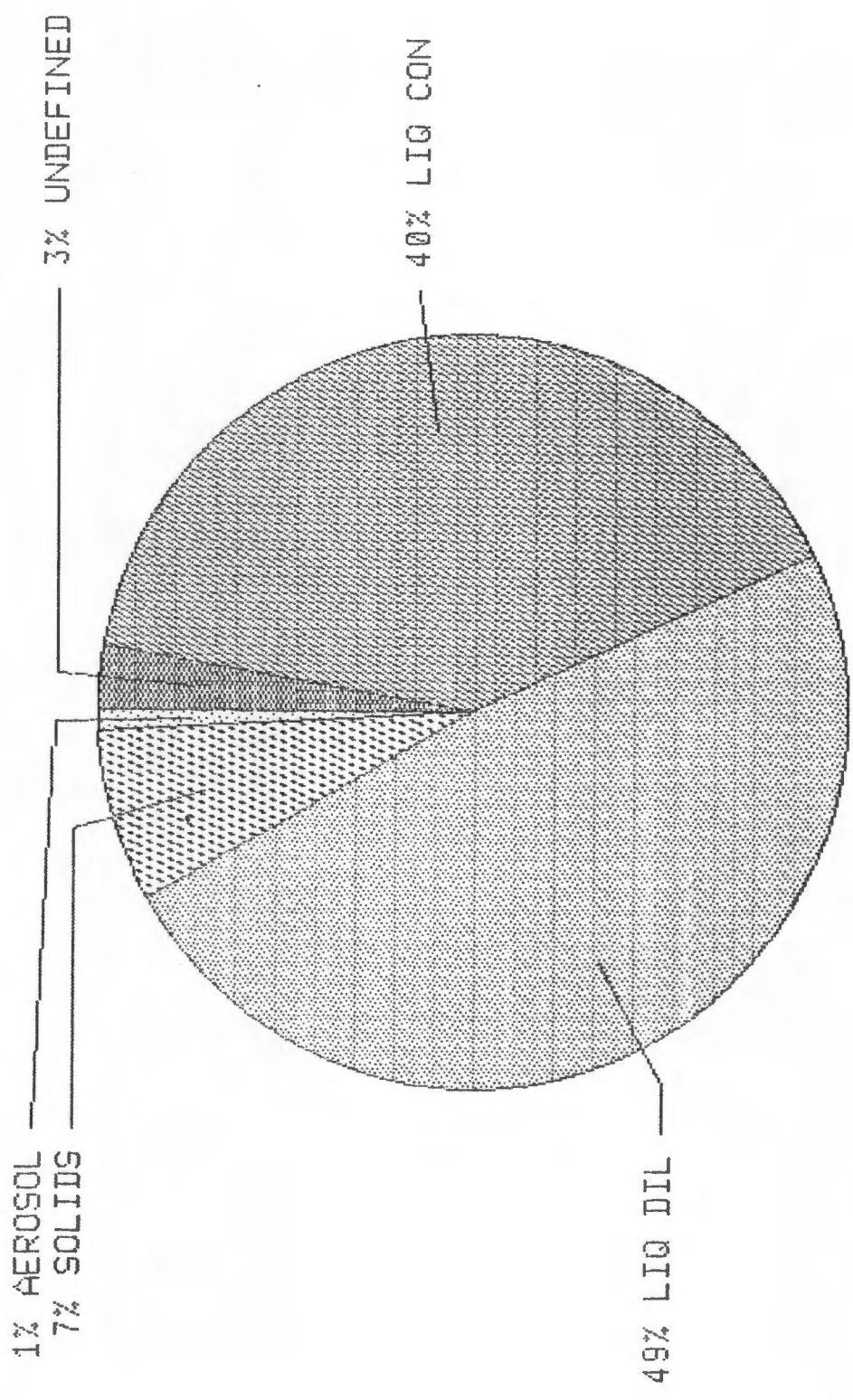
# CLASSIFICATION OF POISONS WHICH CAUSED POISONING



# FORMULATION DESCRIPTION OF POISONS THAT CAUSED POISONING

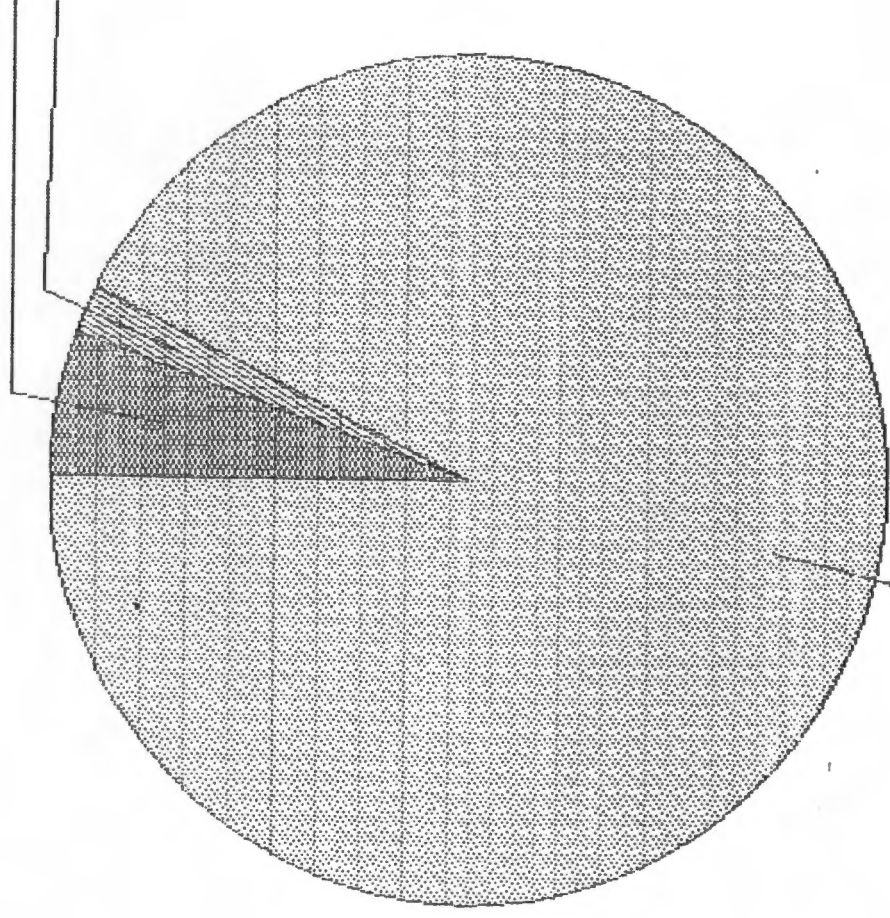


DESCRIPTION OF ORGANOPHOSPHATE FORMULATION THAT CAUSED POISONING



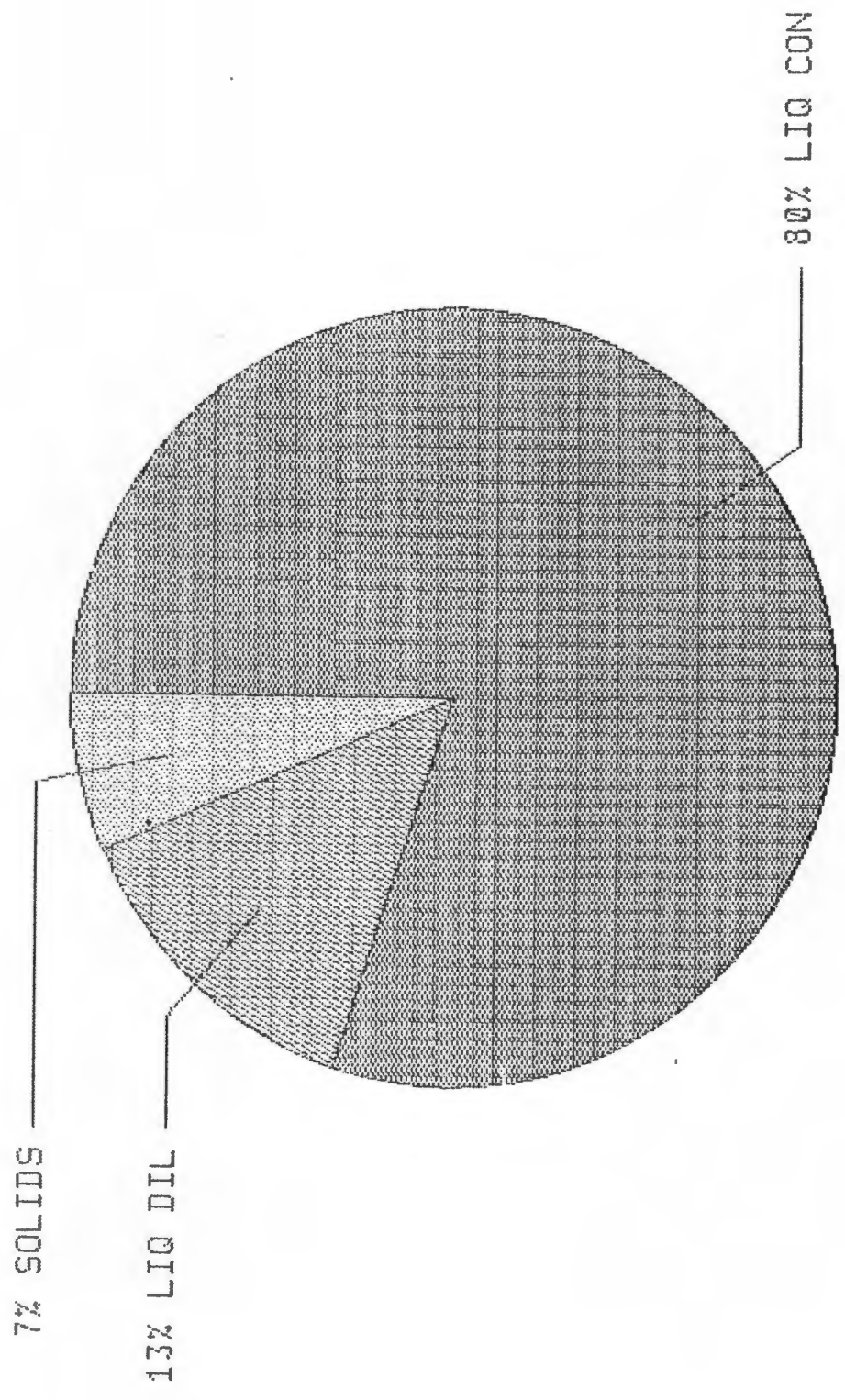
DESCRIPTION OF CARBAMATE FORMULATION THAT CAUSED POISONING

6% LIQ CON  
2% LIQ DIL

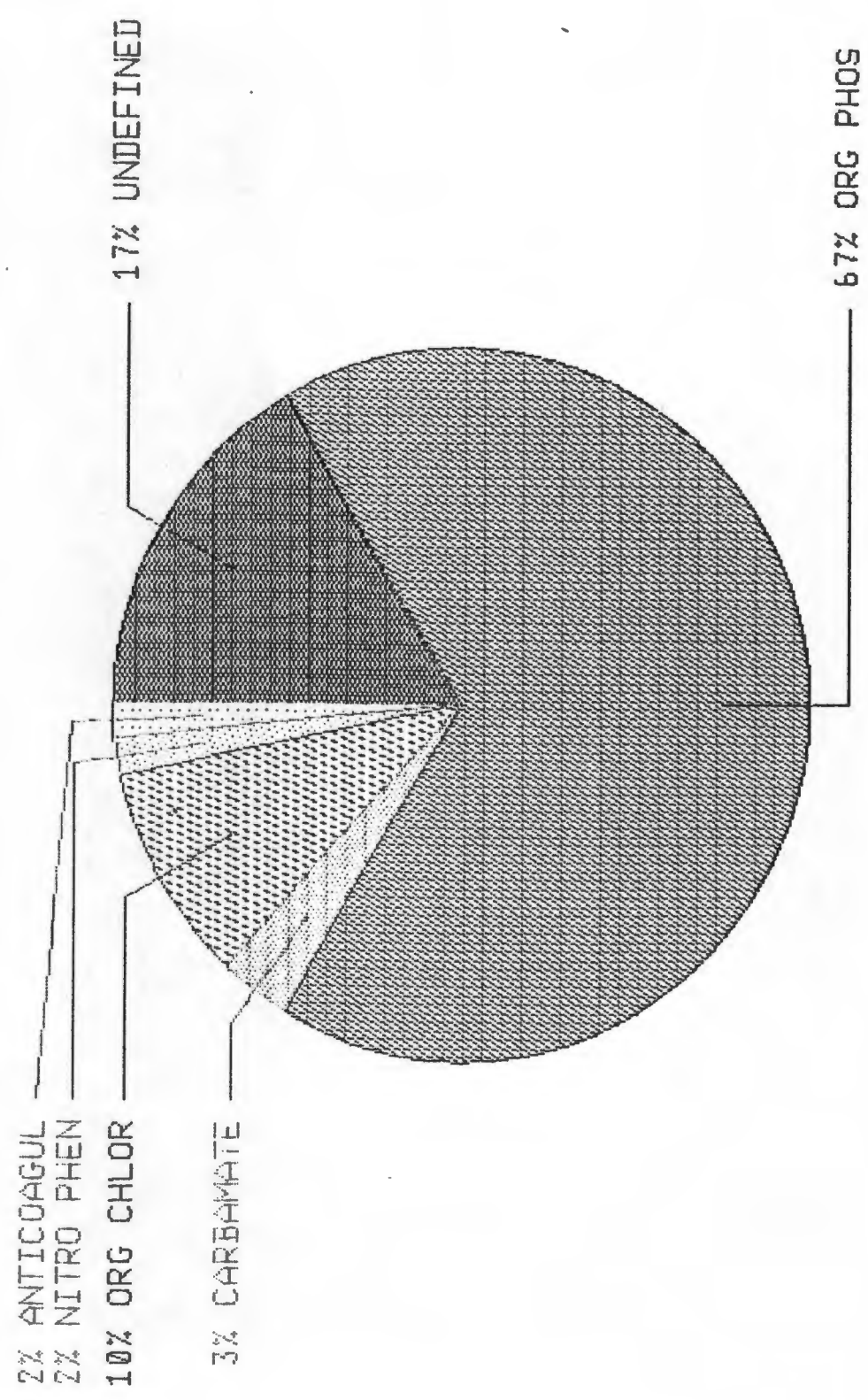


93% SOLIDS

DESCRIPTION OF ORGANOCHLORINE FORMULATION THAT CAUSED POISONING

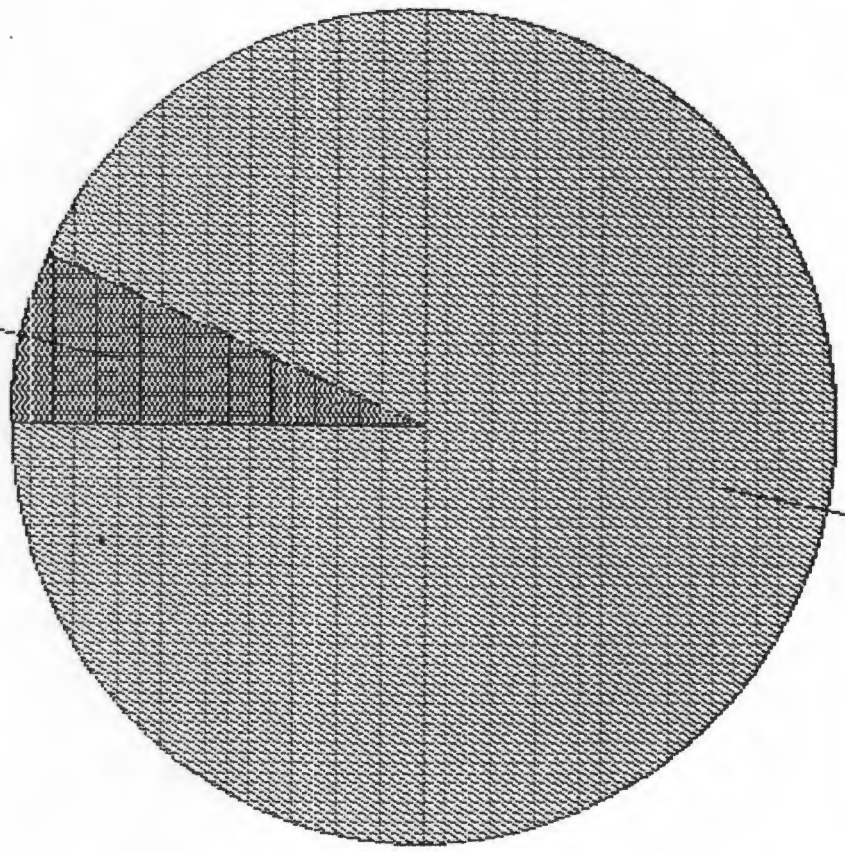


REASON FOR POISONING=SUICIDE BY WHICH POISONS RESPONSIBLE



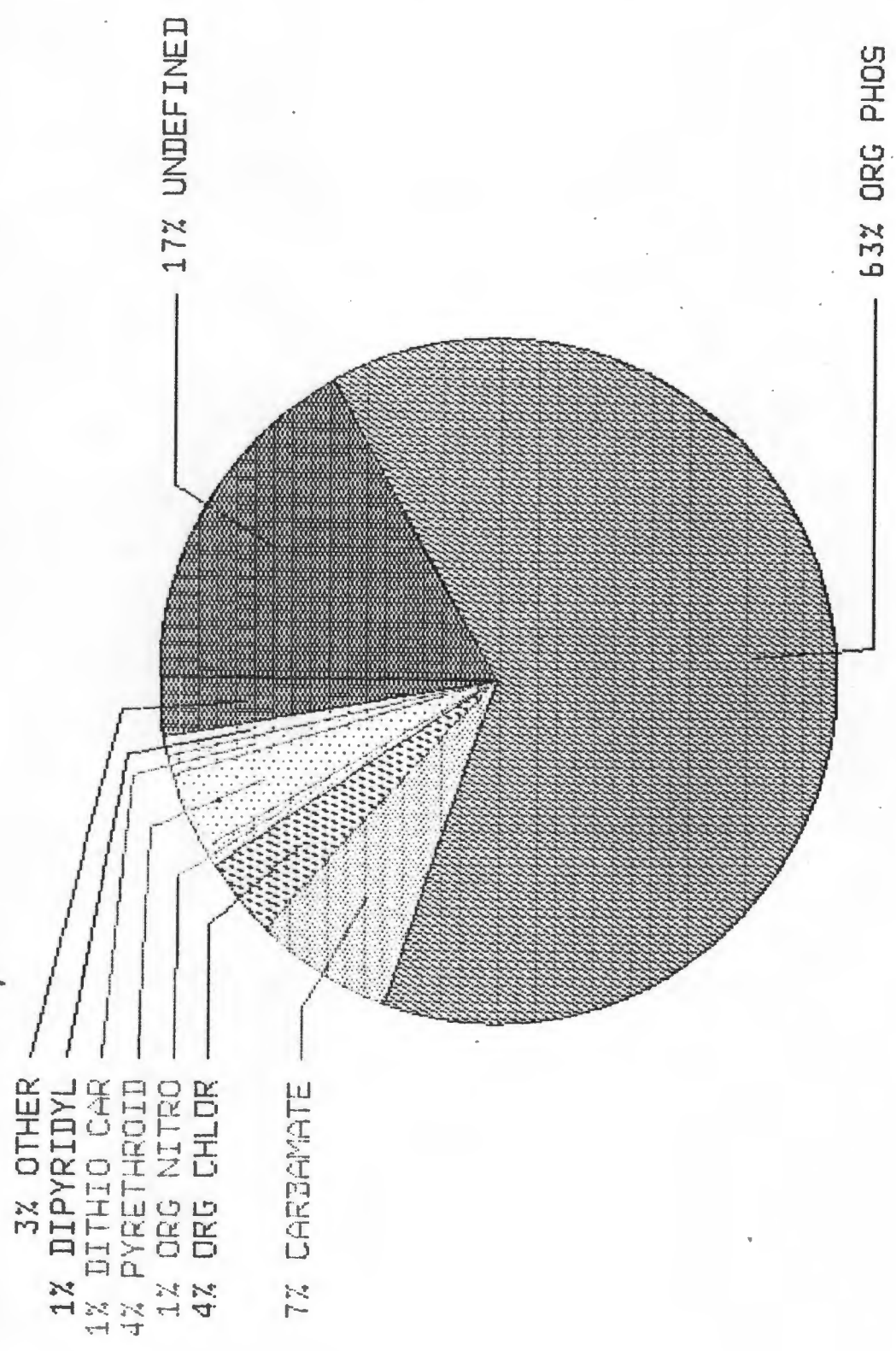
REASON FOR POISONING=MURDER BY WHICH POISONS RESPONSIBLE

7% UNDEFINED

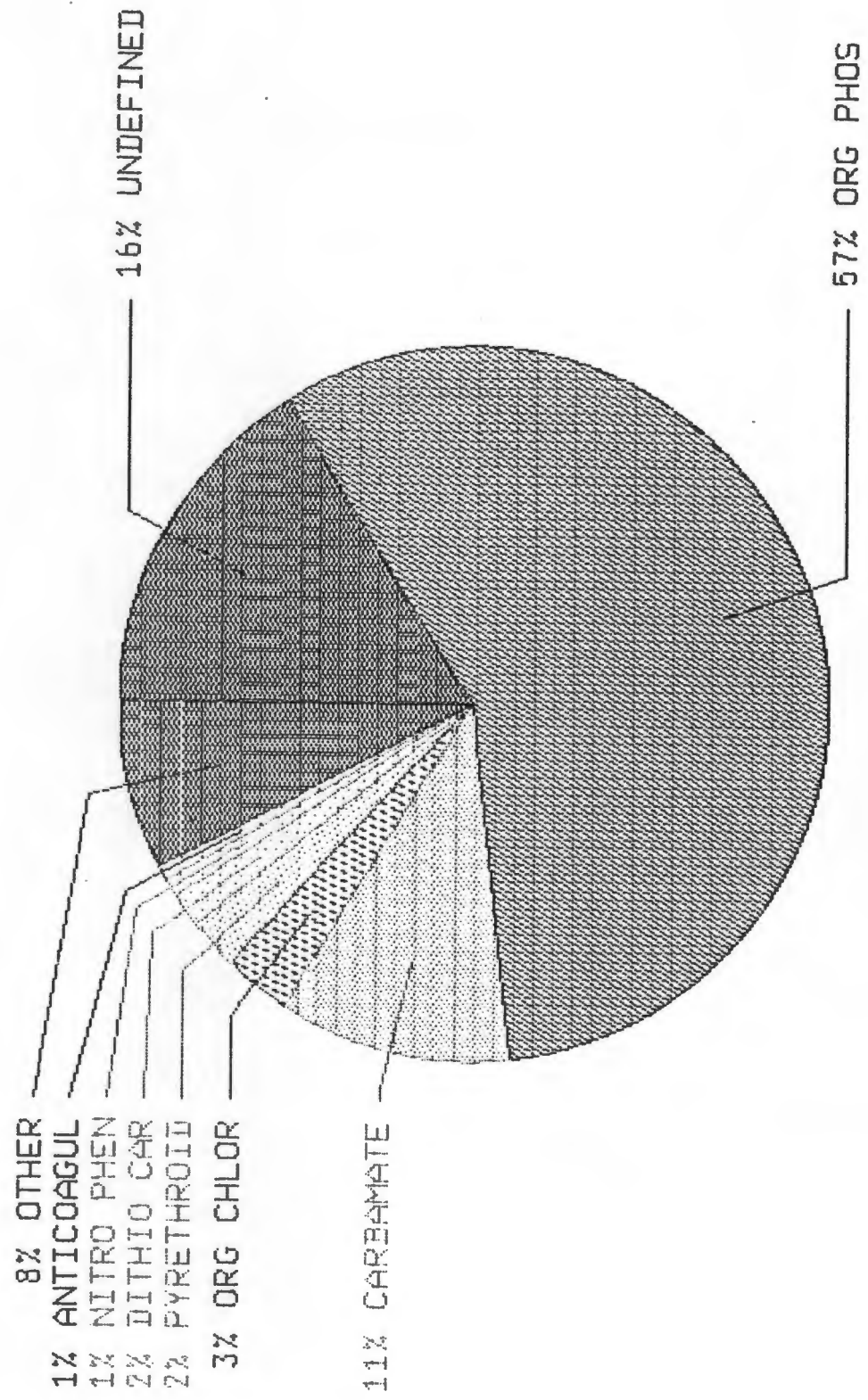


93% CARBAMATE

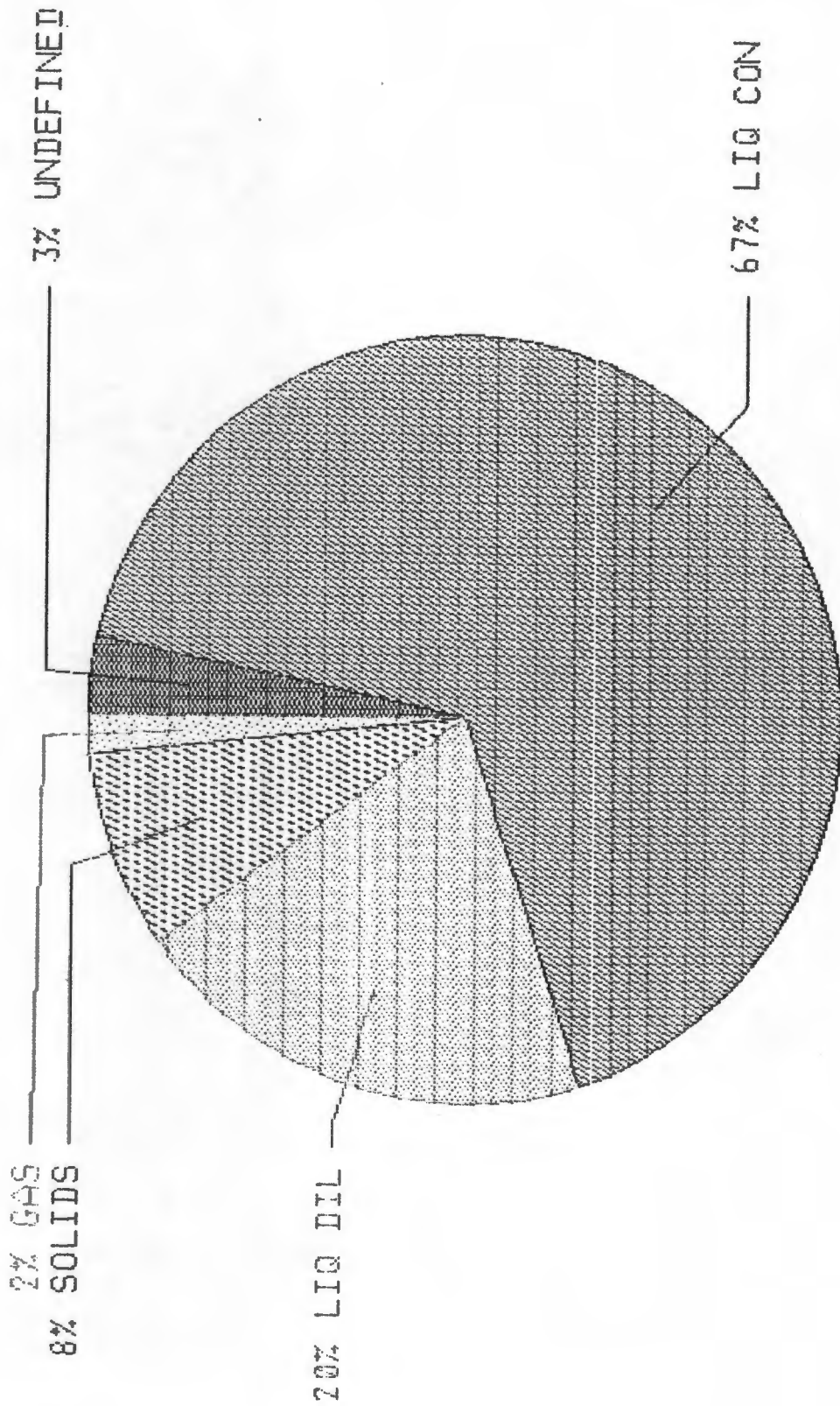
REASON FOR POISONING = IGNORANCE BY WHICH POISONS RESPONSIBLE



REASON FOR POISONING=ACCIDENT BY WHICH POISONS RESPONSIBLE

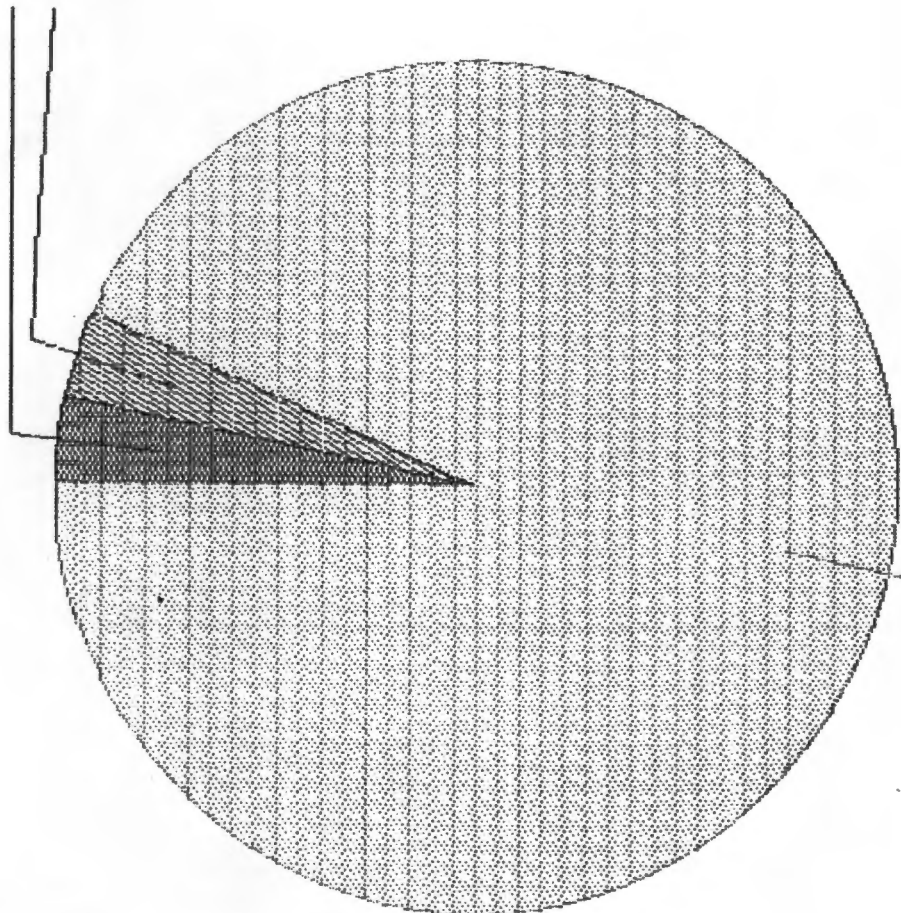


POISON FORMULATION RESPONSIBLE FOR POISONING=SUICIDE



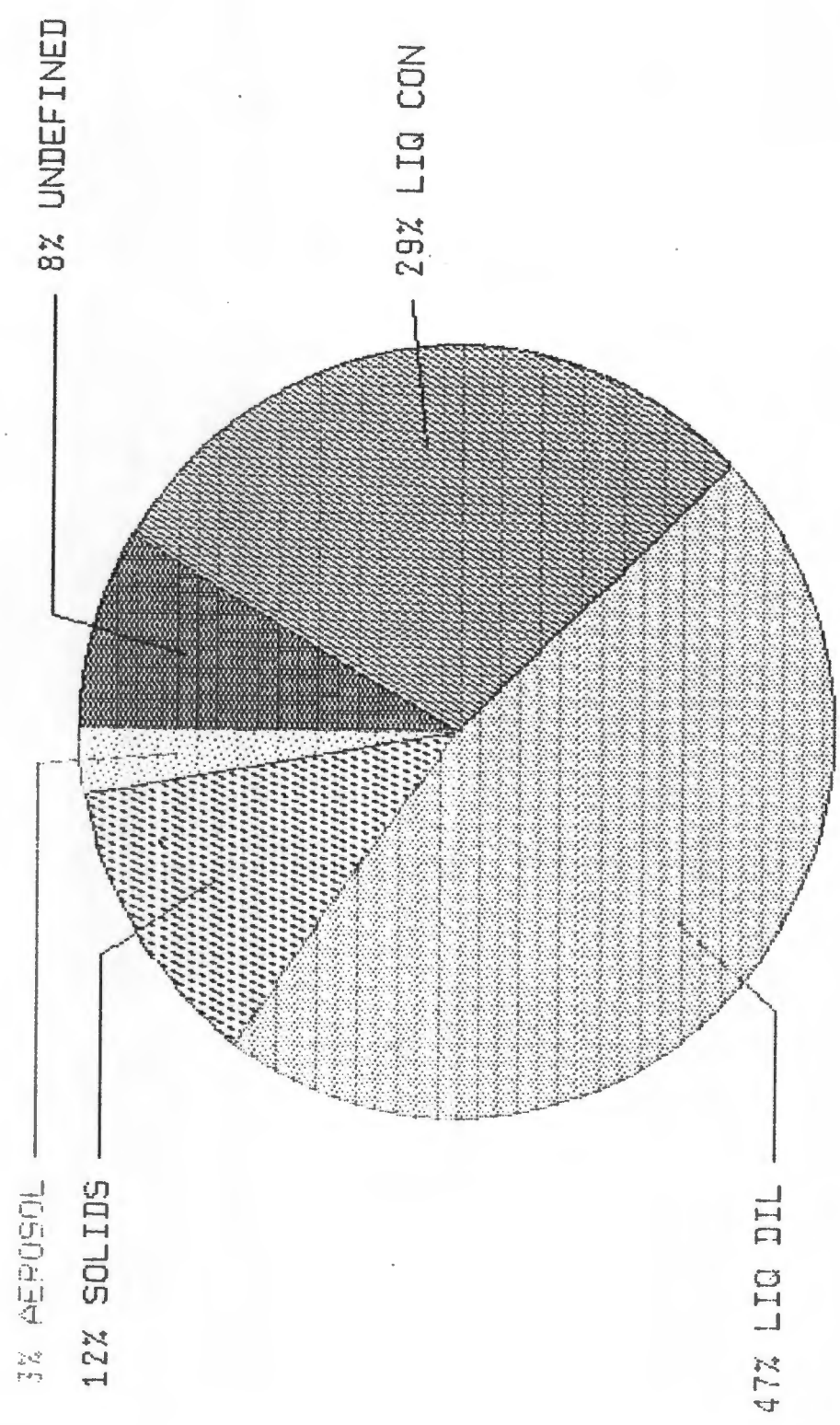
POISON FORMULATION RESPONSIBLE FOR POISONING=MURDER

3% LIQ CON  
3% LIQ DIL

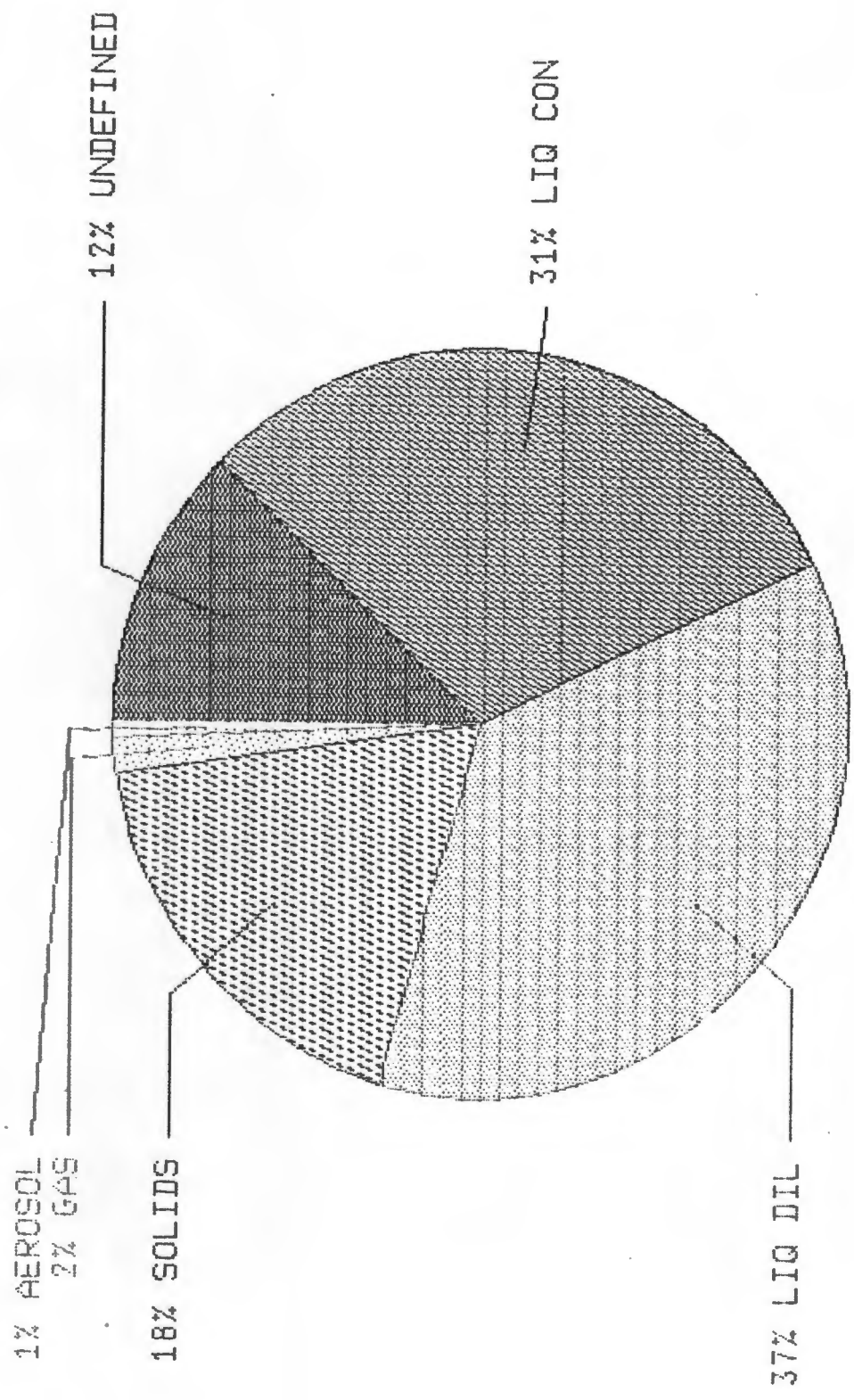


93% SOLIDS

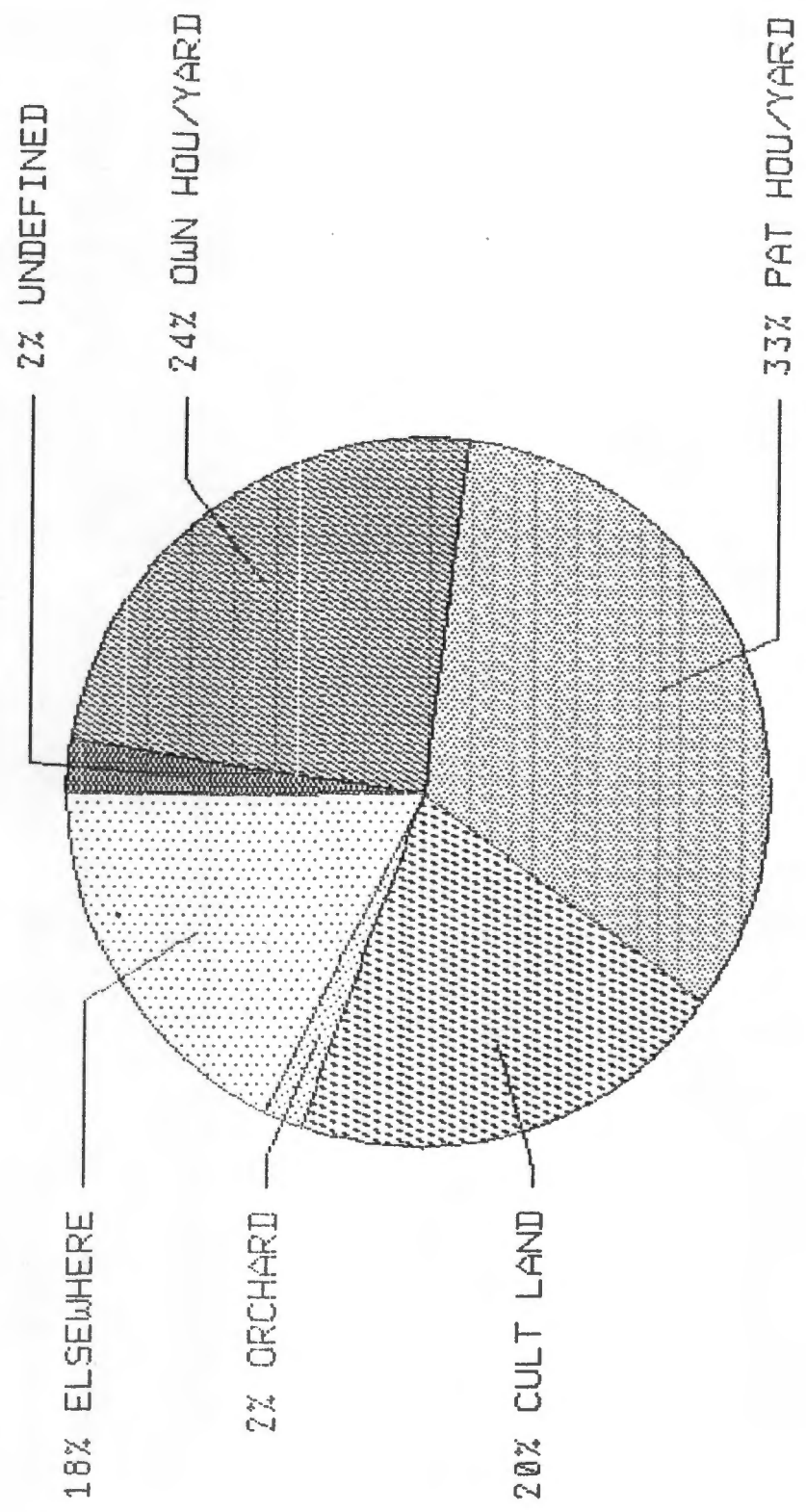
# POISON FORMULATION RESPONSIBLE FOR POISONING=IGNORANCE



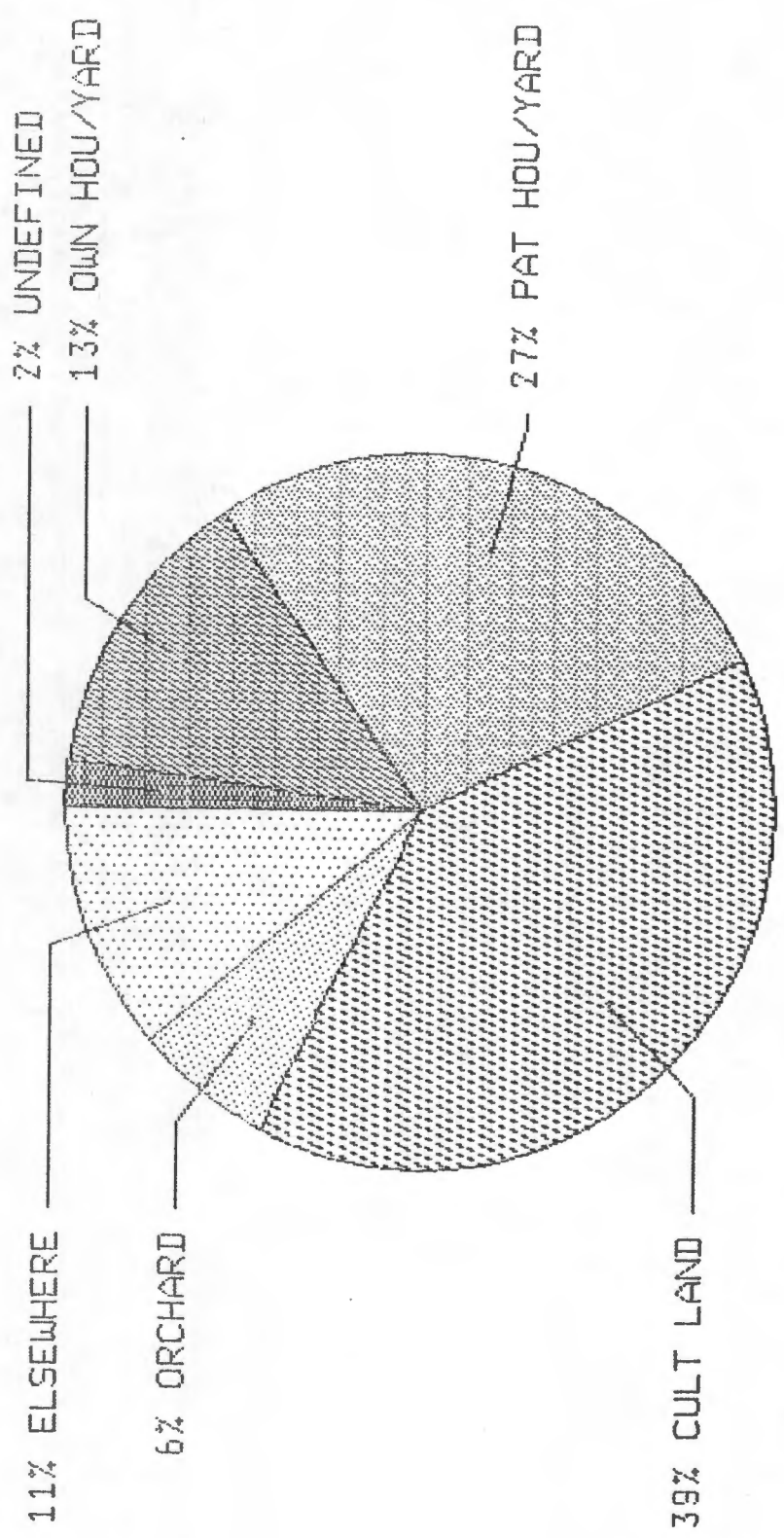
POISON FORMULATION RESPONSIBLE FOR POISONING=ACCIDENT



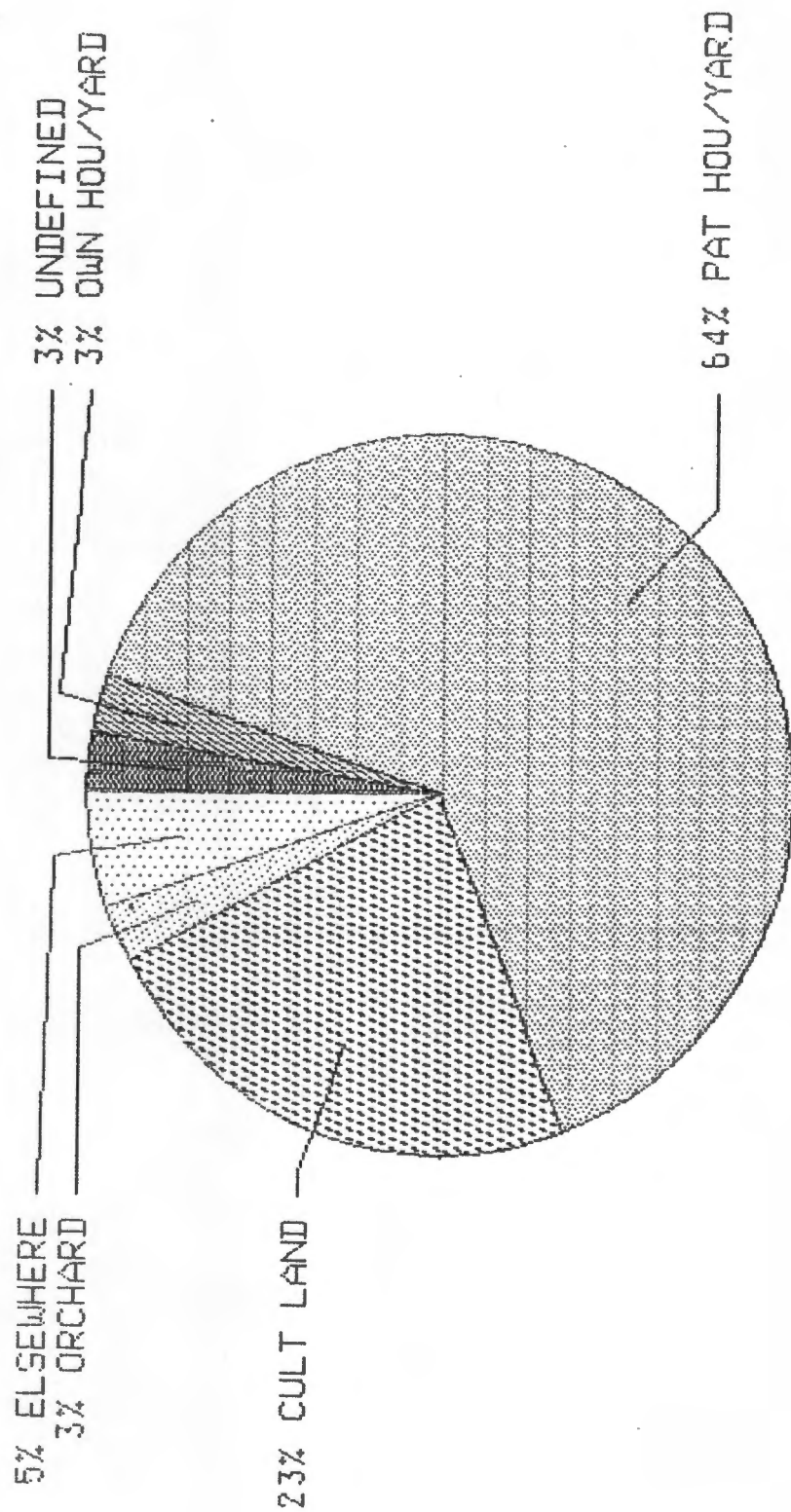
FORMULATION=LIQUID CONC WHERE POISONING TOOK PLACE



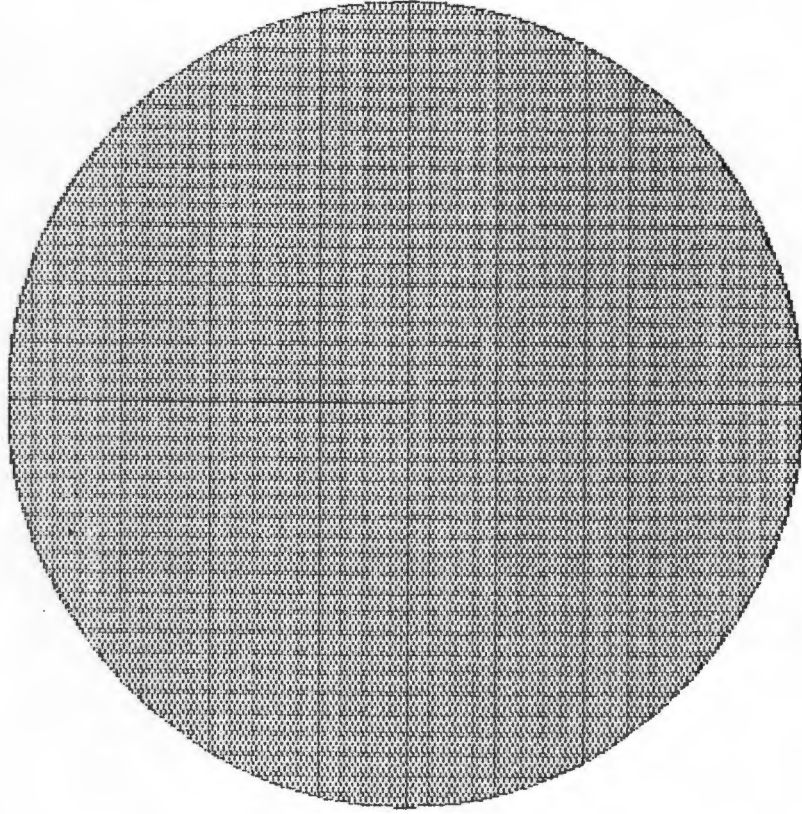
FORMULATION=L I Q U I D D I L U T E D W H E R E P O I S O N I N G T A K E P L A C E



# FORMULATION=SOLIDS WHERE POISONING TOOK PLACE

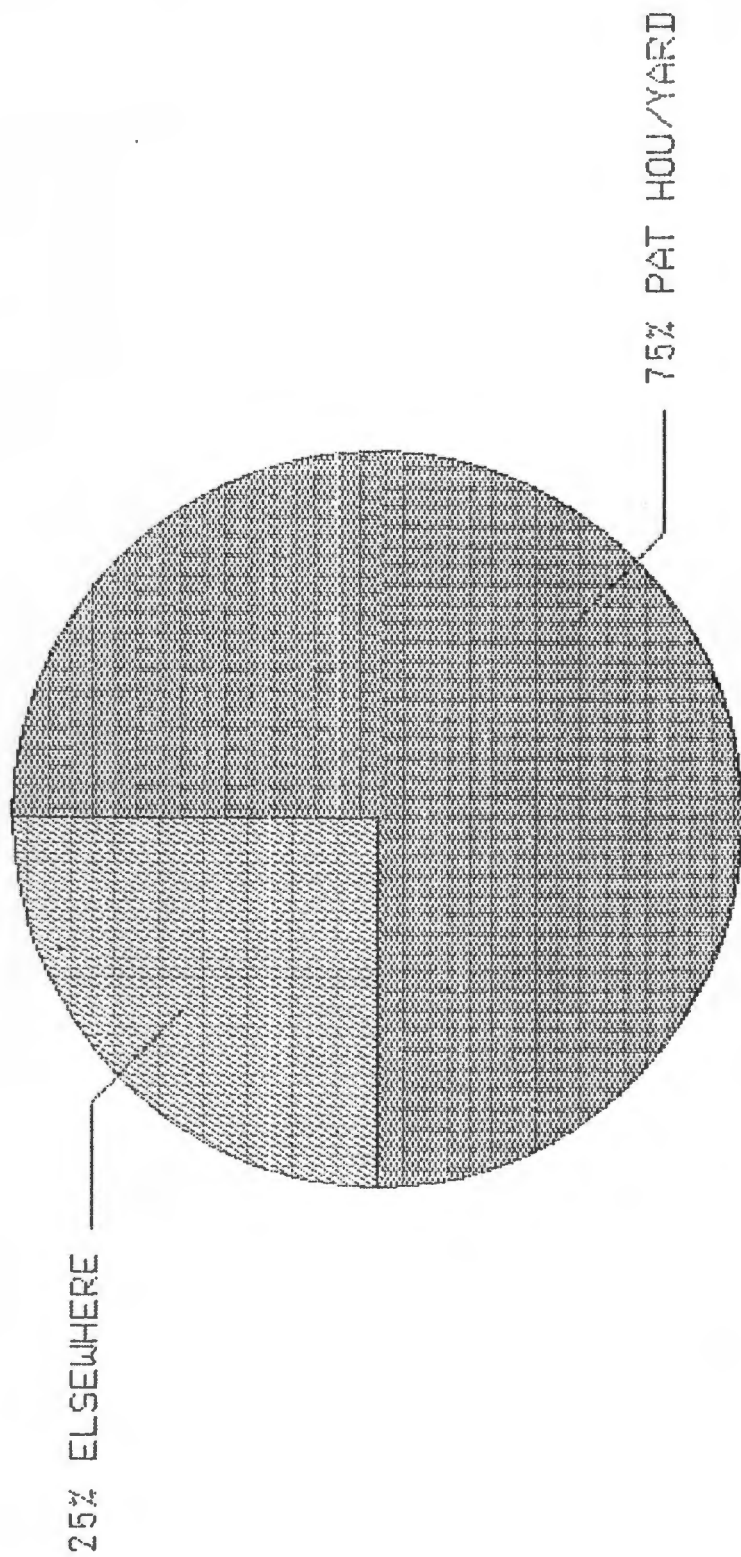


FORMULATION=GAS / WHERE POISONING TAKE PLACE

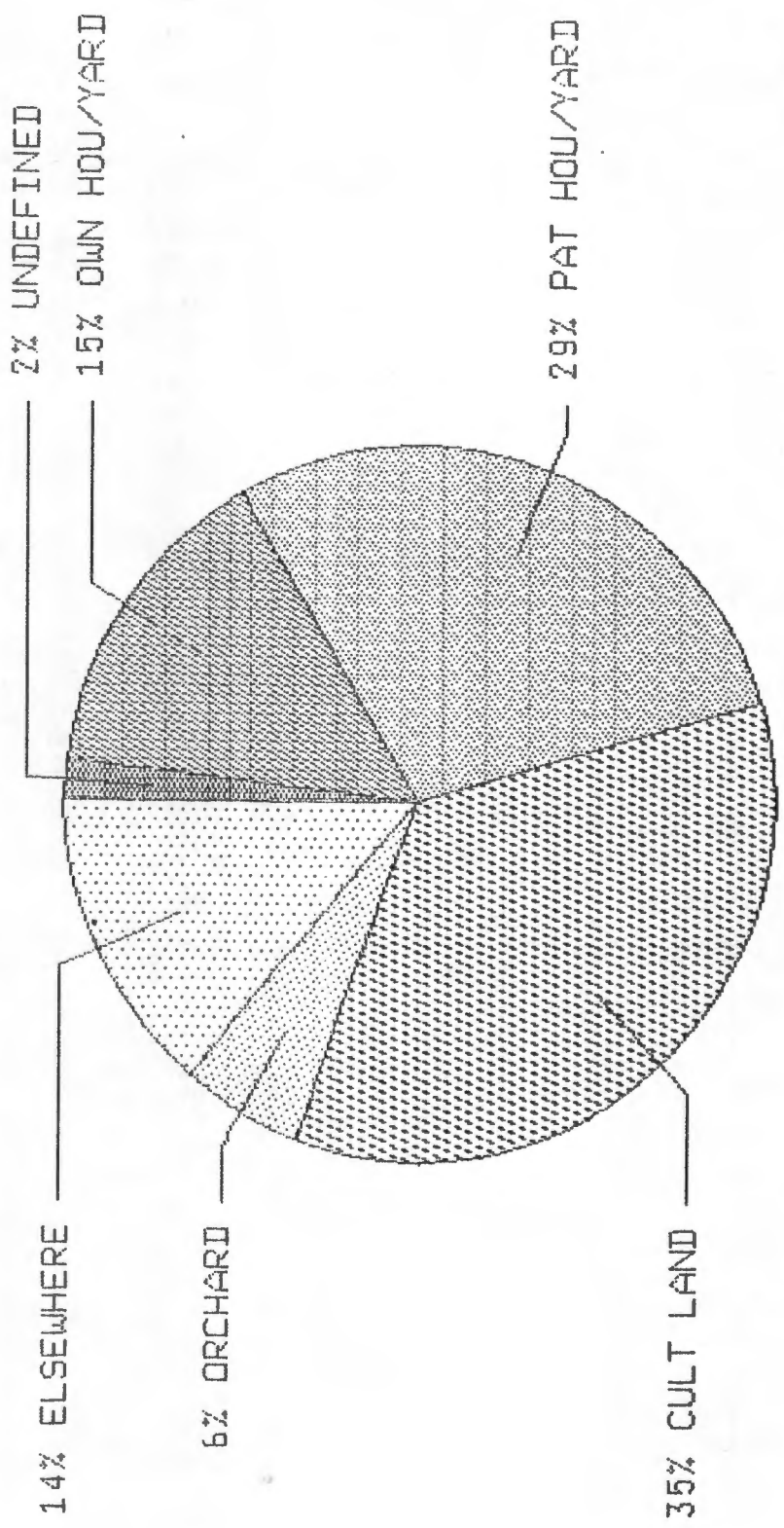


100% ELSEWHERE

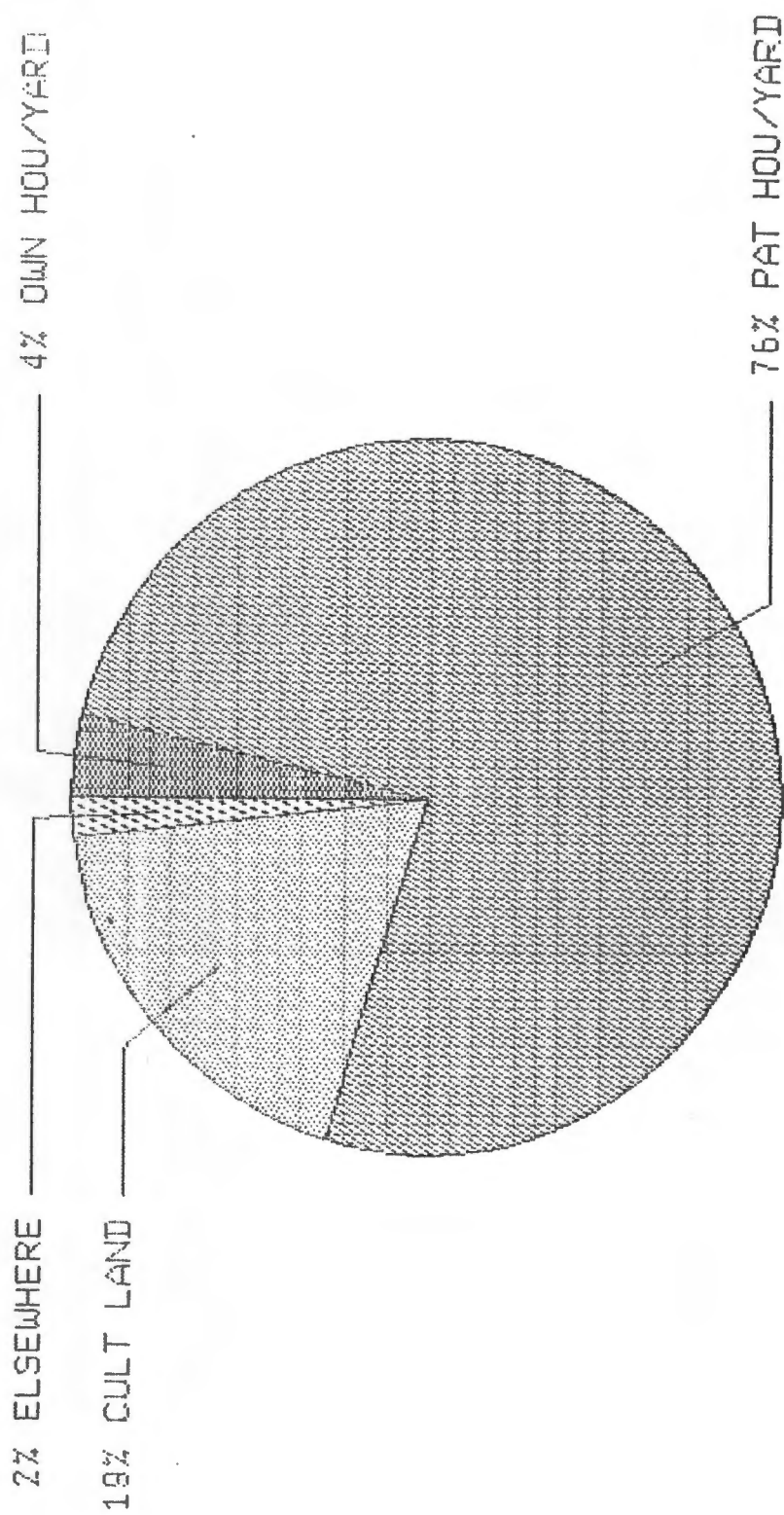
FORMULATION=AEROSOL / WHERE POISONING TAKE PLACE



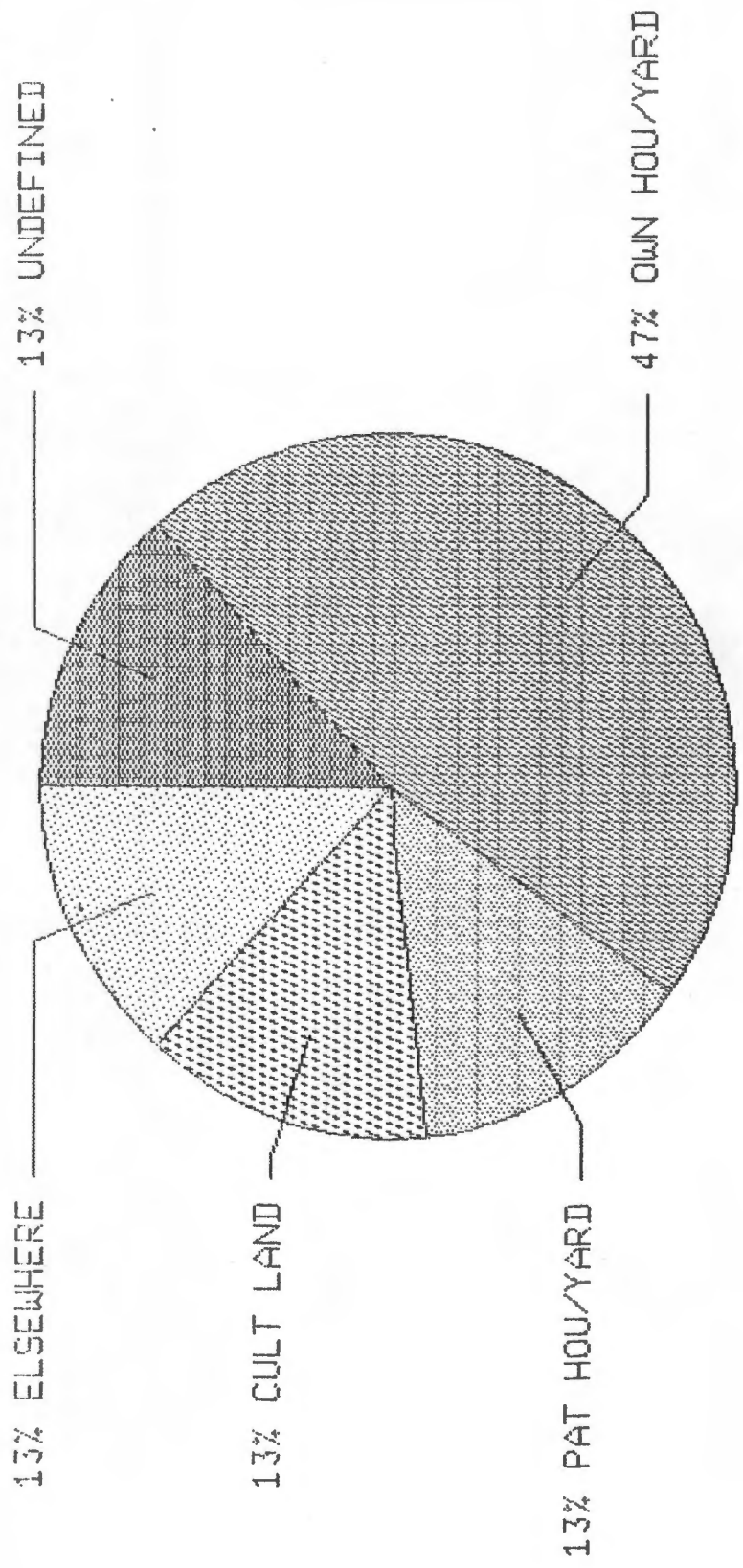
POISON=ORGANOPHOSPHATE / WHERE POISONING TAKE PLACE



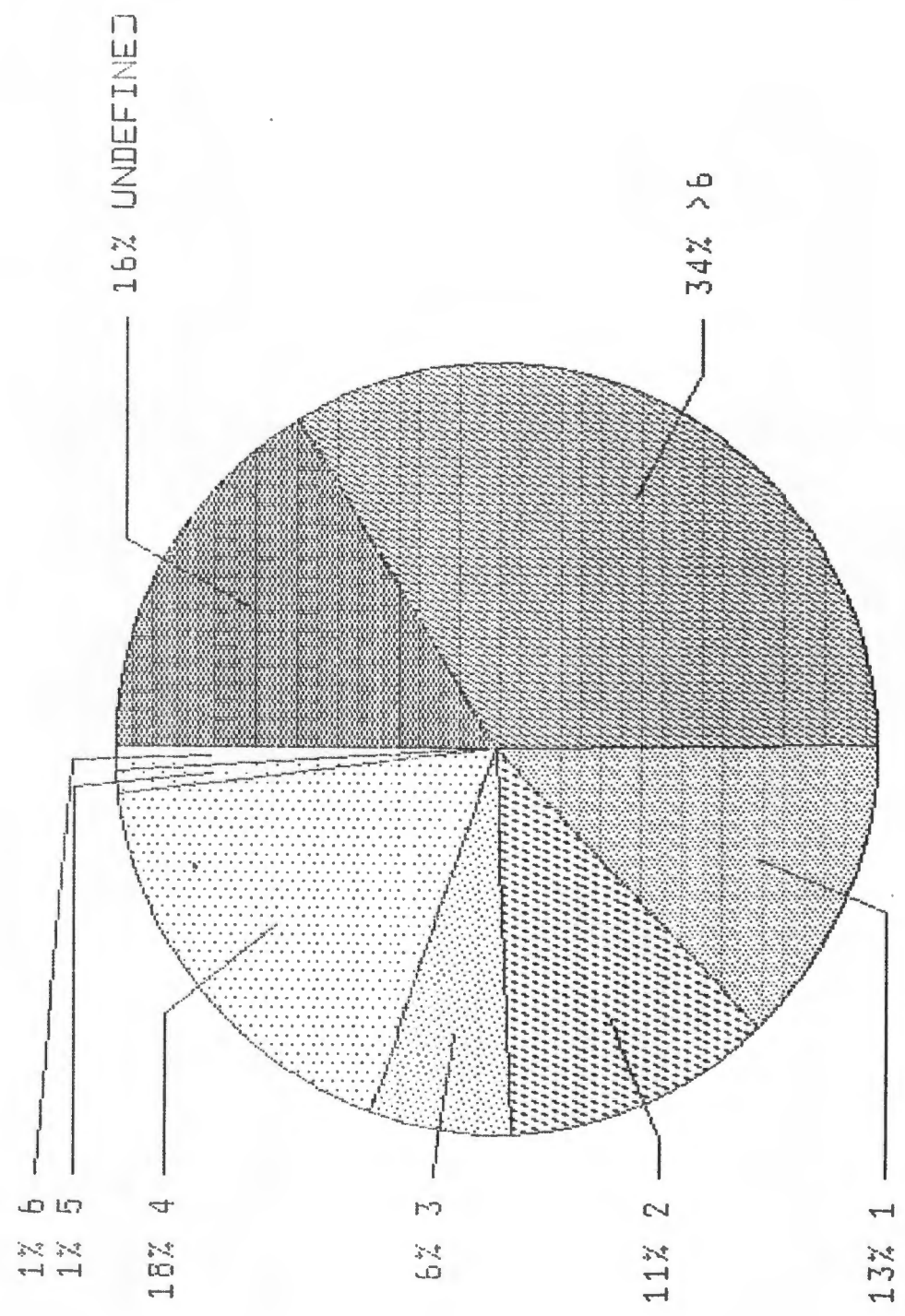
# POISON=CARBAMATES / WHERE POISONING TAKE PLACE



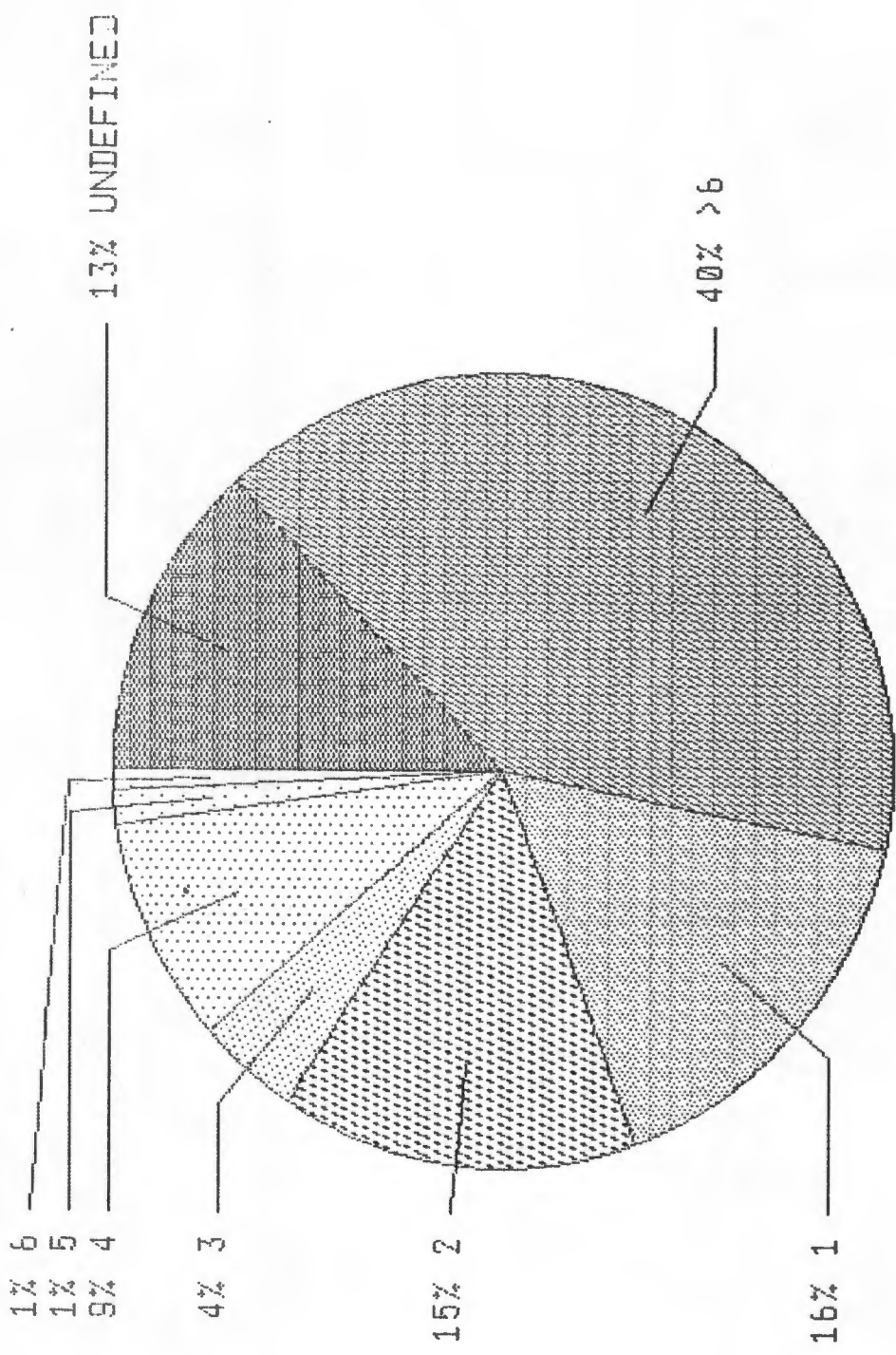
POISON=ORGANOCHLORINES / WHERE POISONING TAKE PLACE



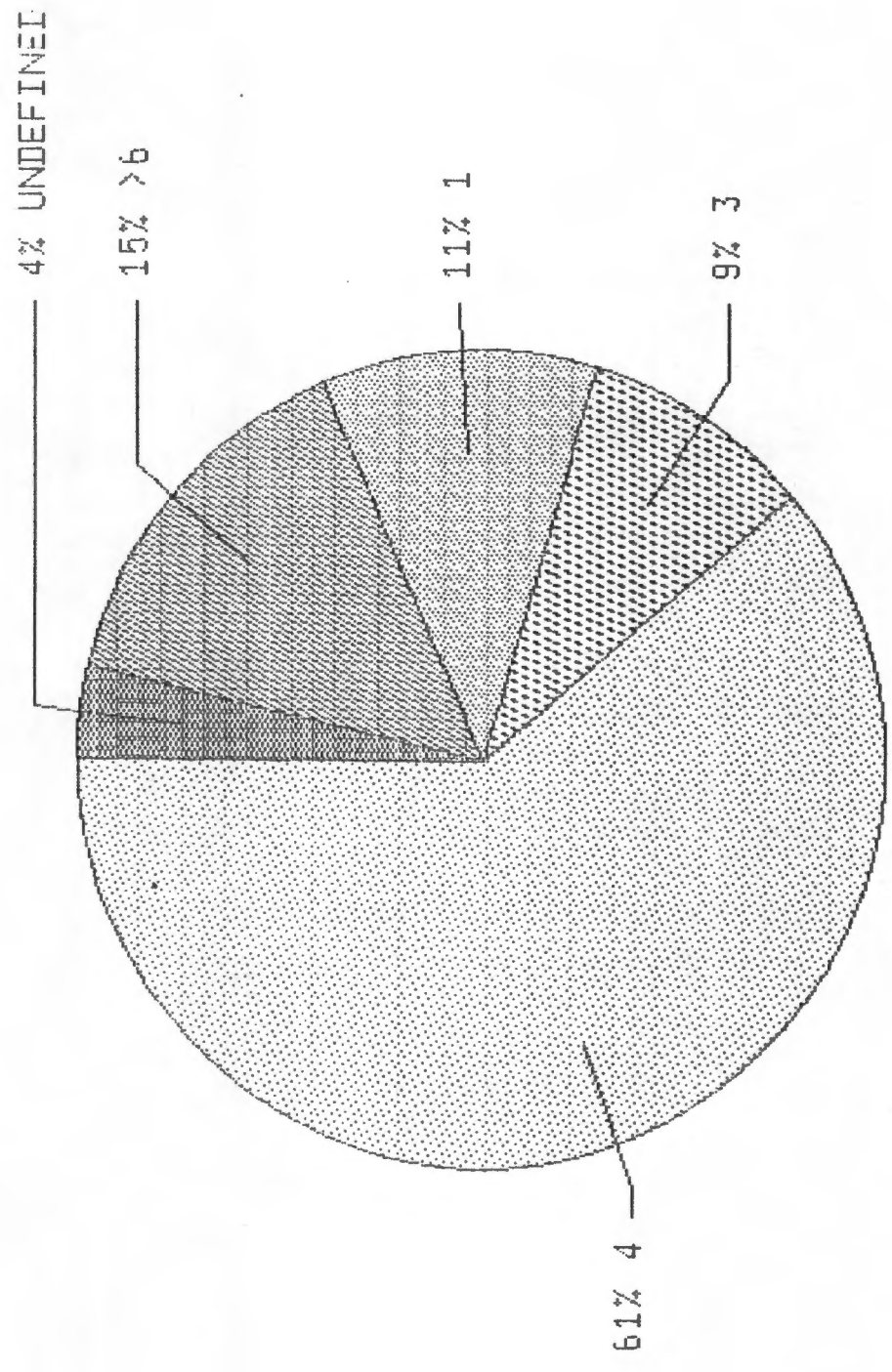
# ANNUAL FREQUENCY OF POISON USE



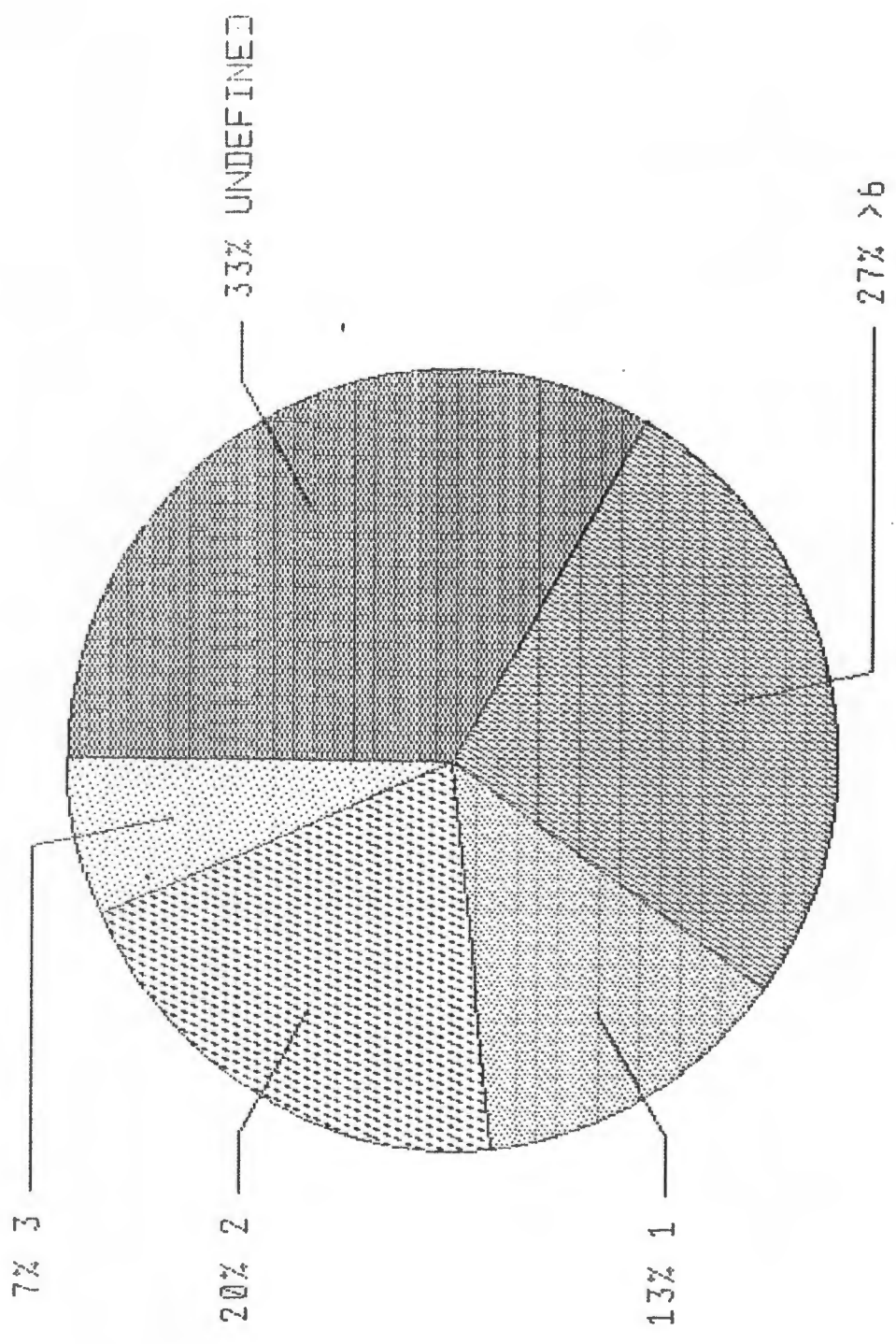
# ANNUAL FREQUENCY OF ORGANOPHOSPHATES USED



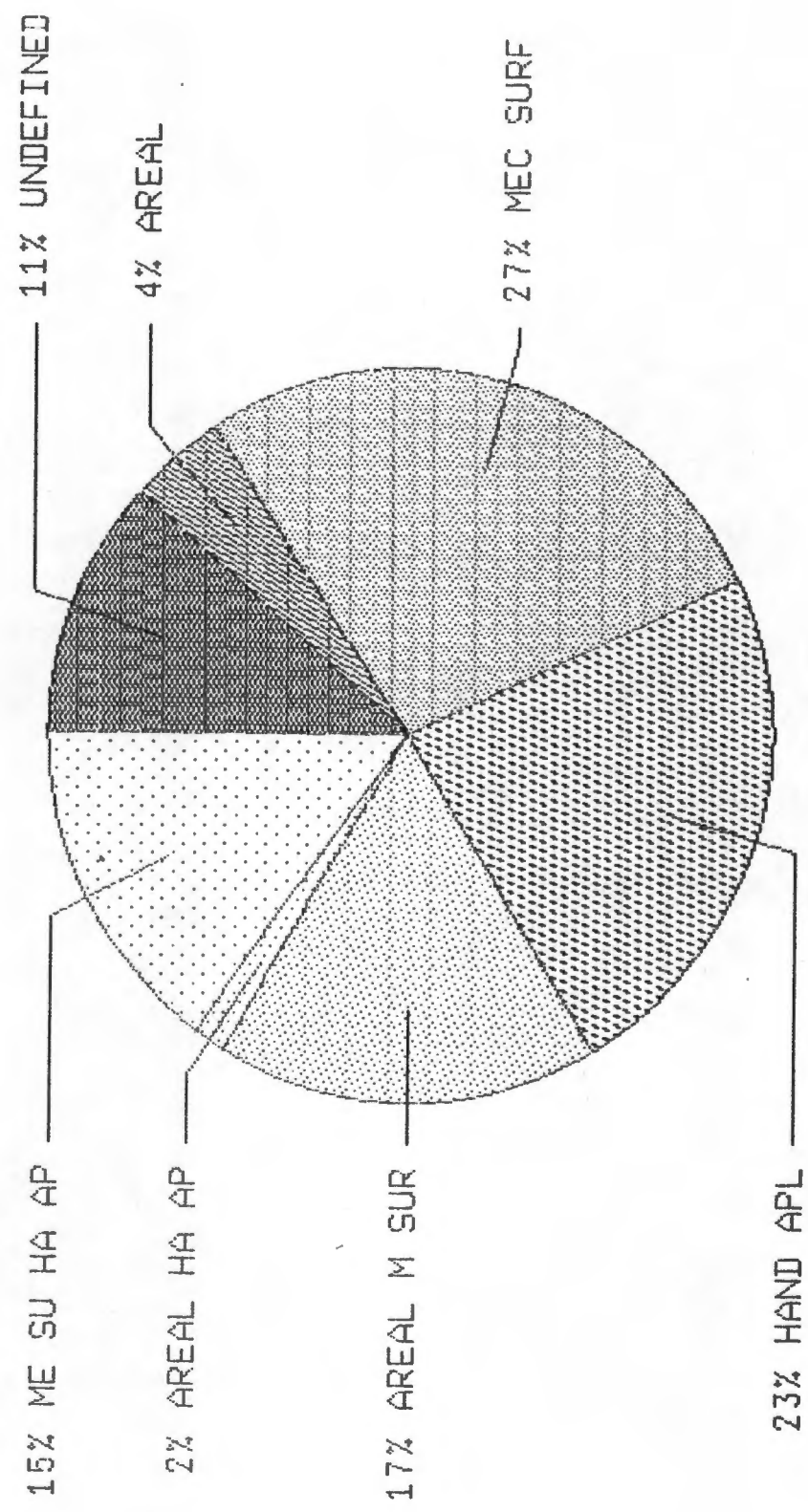
# ANNUAL FREQUENCY OF CARBAMATES USED



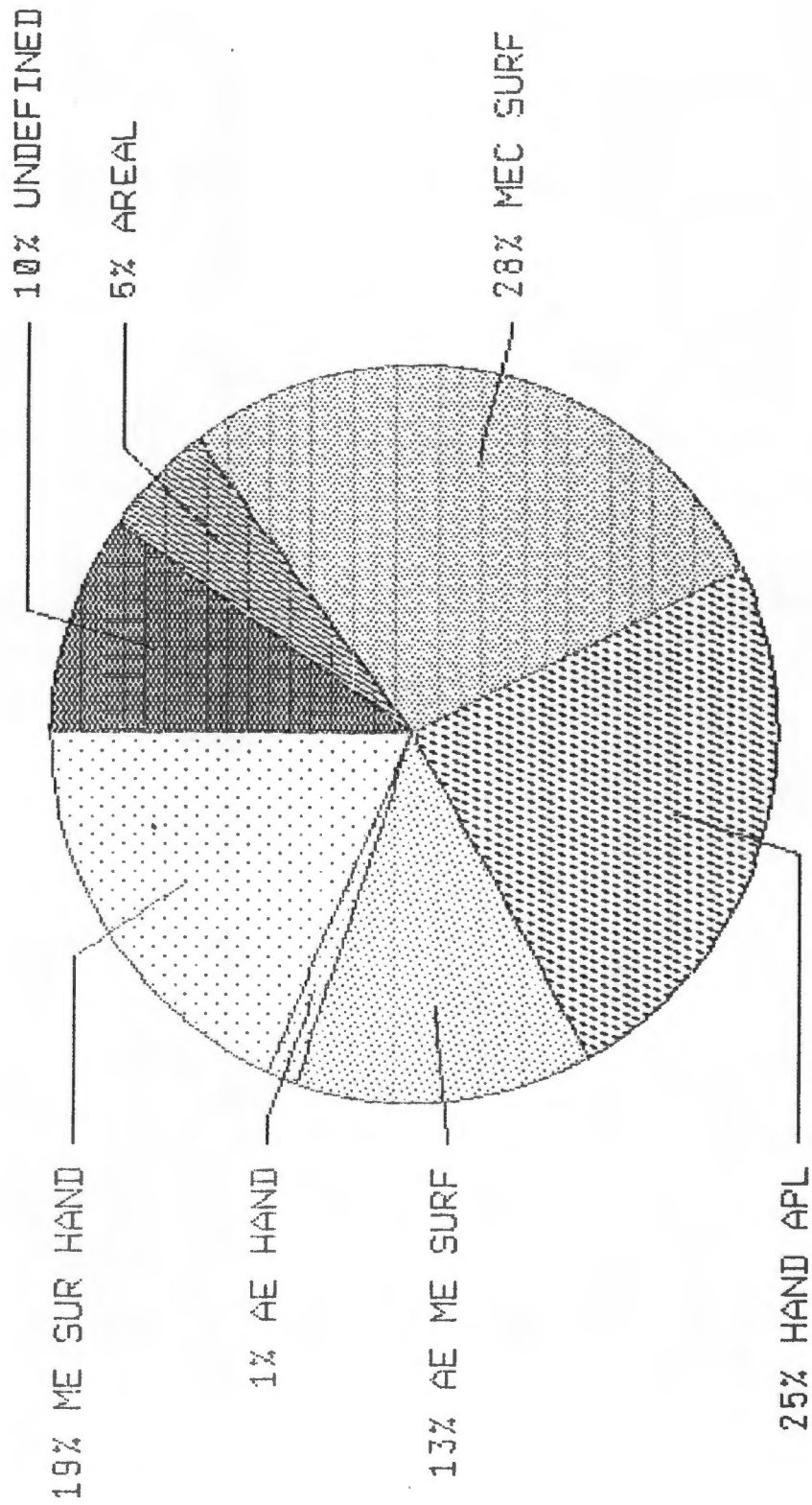
# ANNUAL FREQUENCY OF ORGANOCHLORINES USED



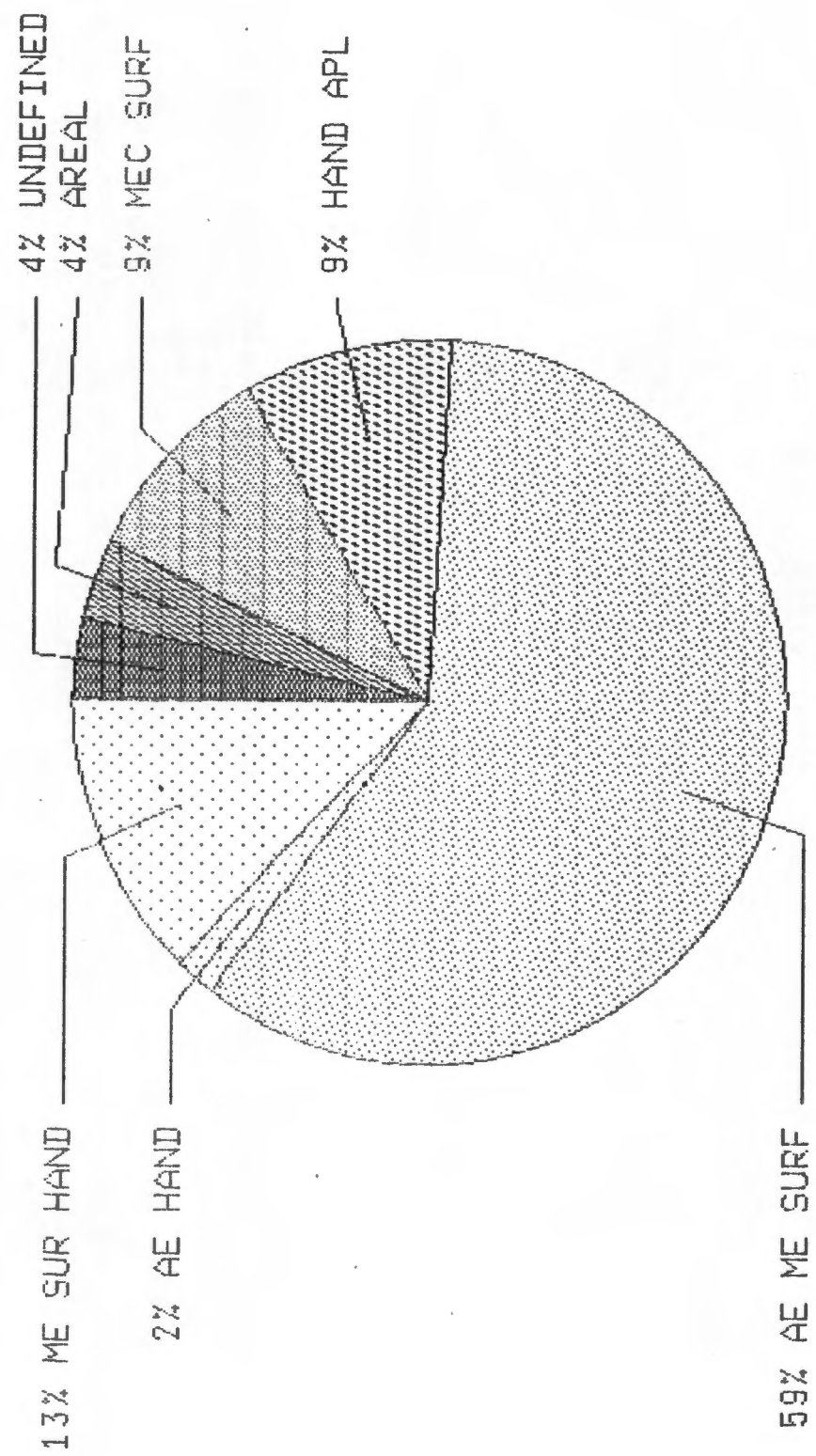
# METHODS OF PESTICIDE APPLICATION



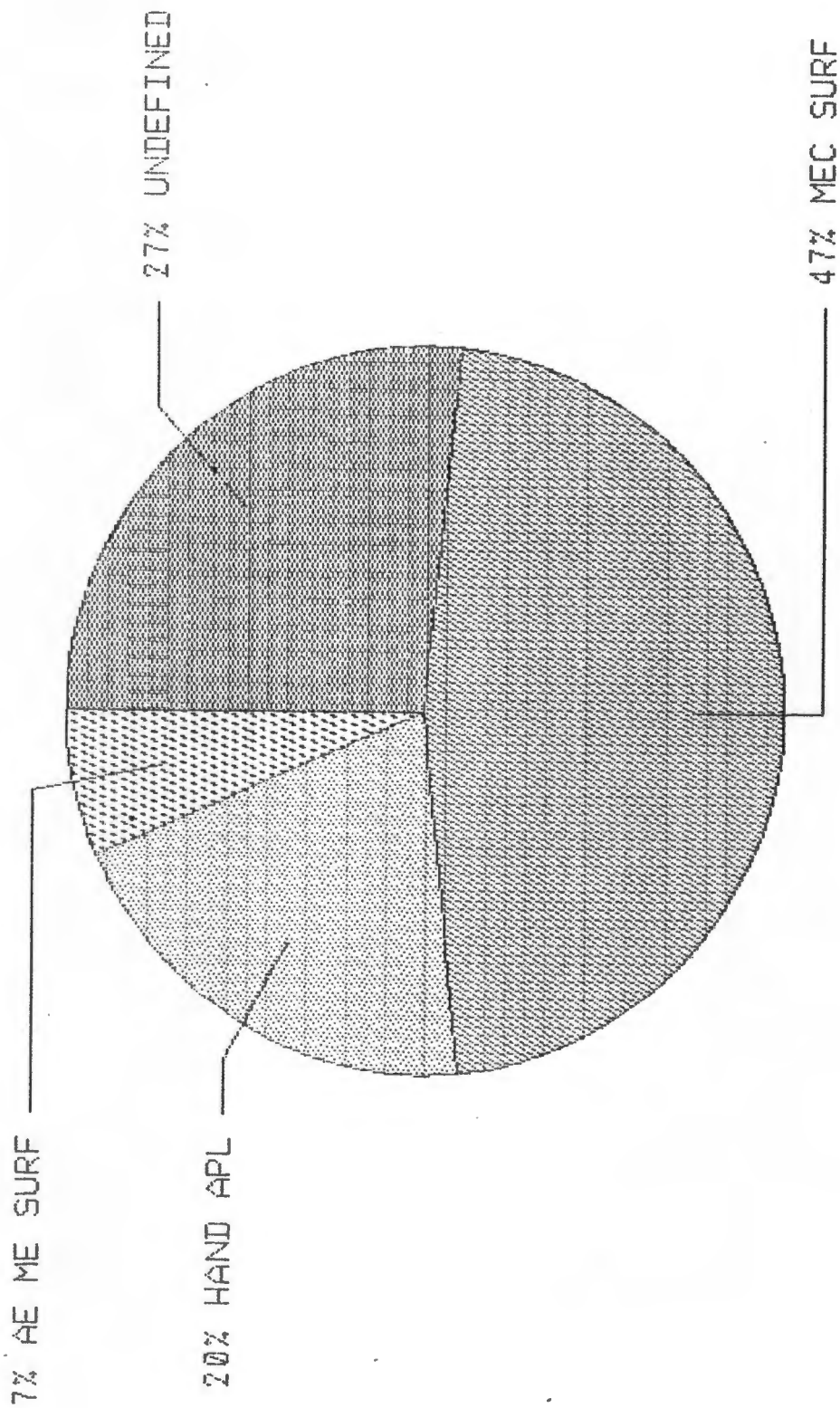
METHOD BY WHICH ORGANOPHOSPHATES WERE APPLIED



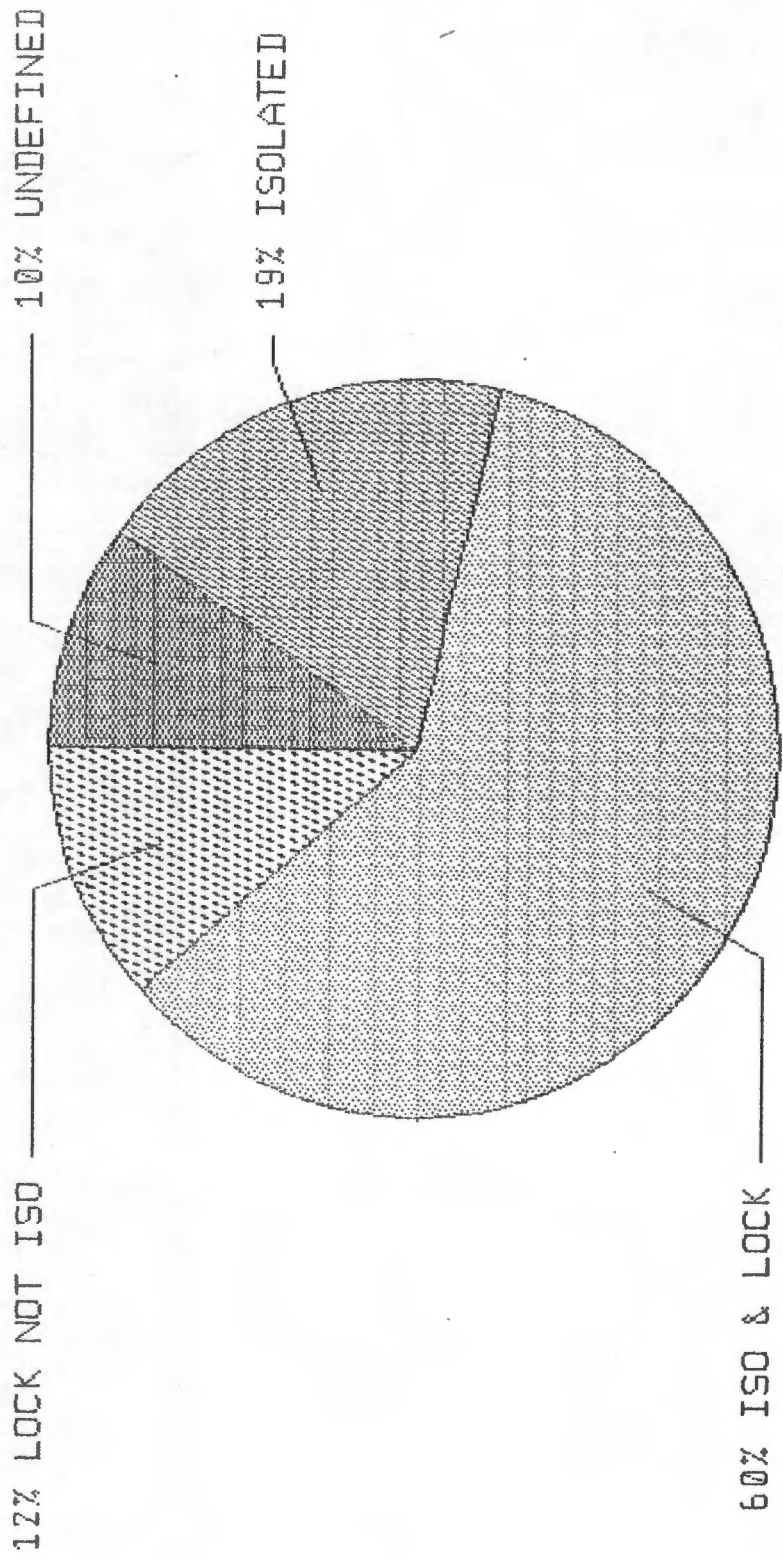
# METHOD BY WHICH CARBAMATES WERE APPLIED



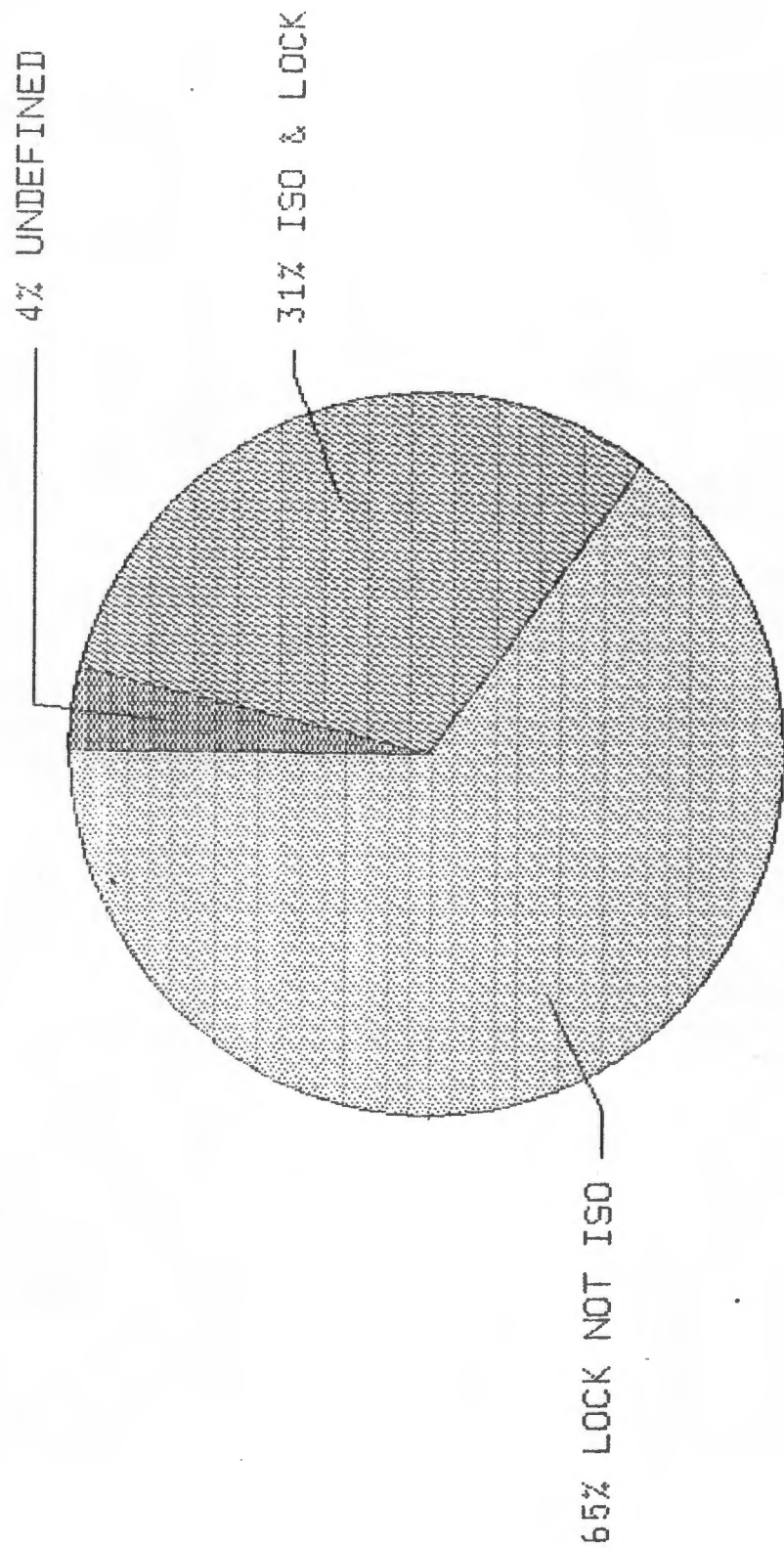
METHOD BY WHICH ORGANOCHLORINES WERE APPLIED



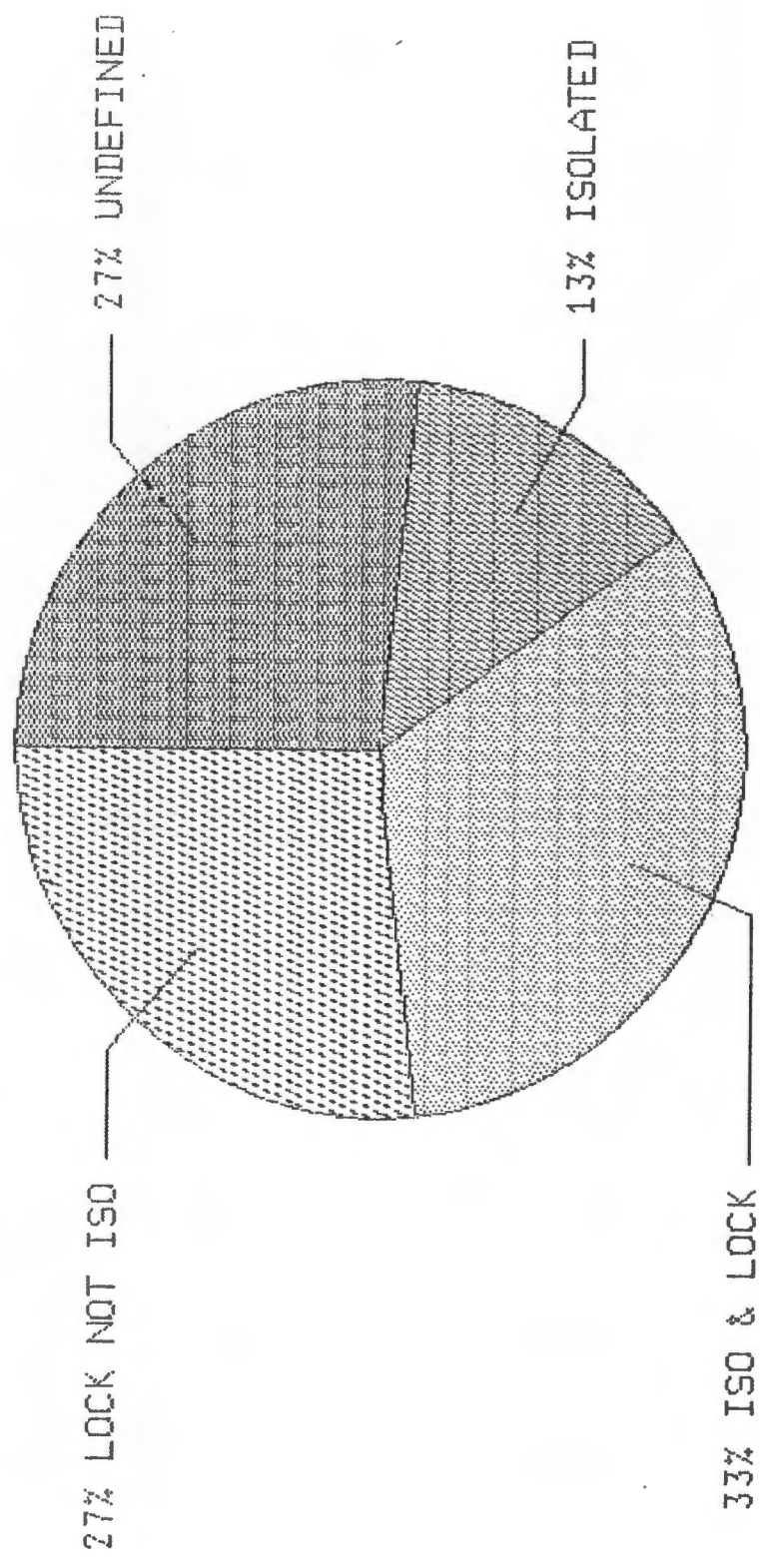
# HOW WAS POISONS=ORGANOPHOSPHATES STORED



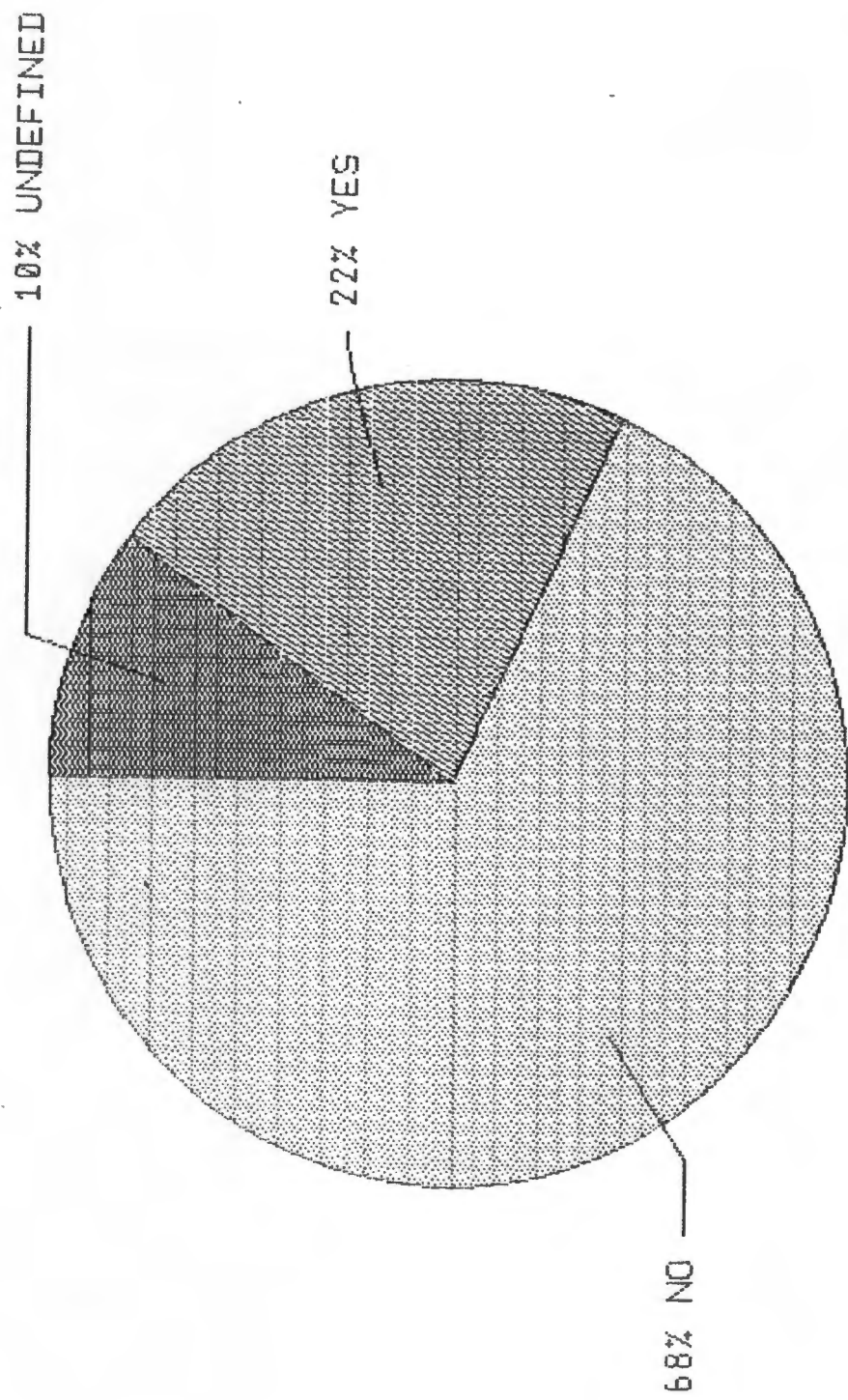
# HOW WAS POISONS=CARBAMATES STORED



# HOW WAS POISONS=ORGANOCHLORINES STORED

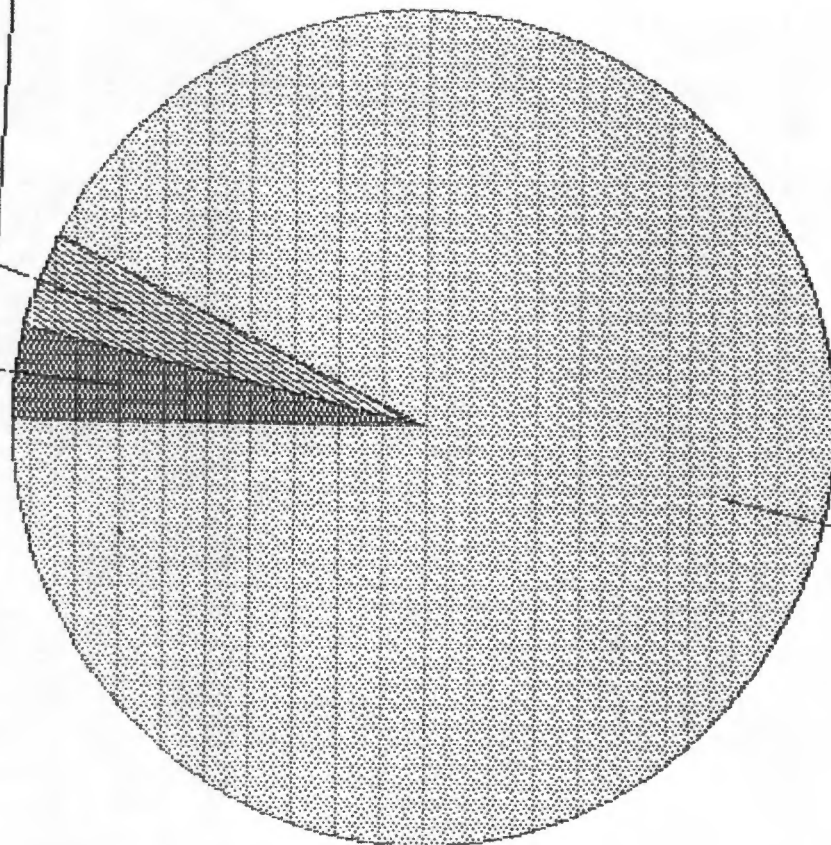


WAS THERE UNAUTHORISED ACCESSABILITY TO POISONS=ORGANOPHOSPHATES



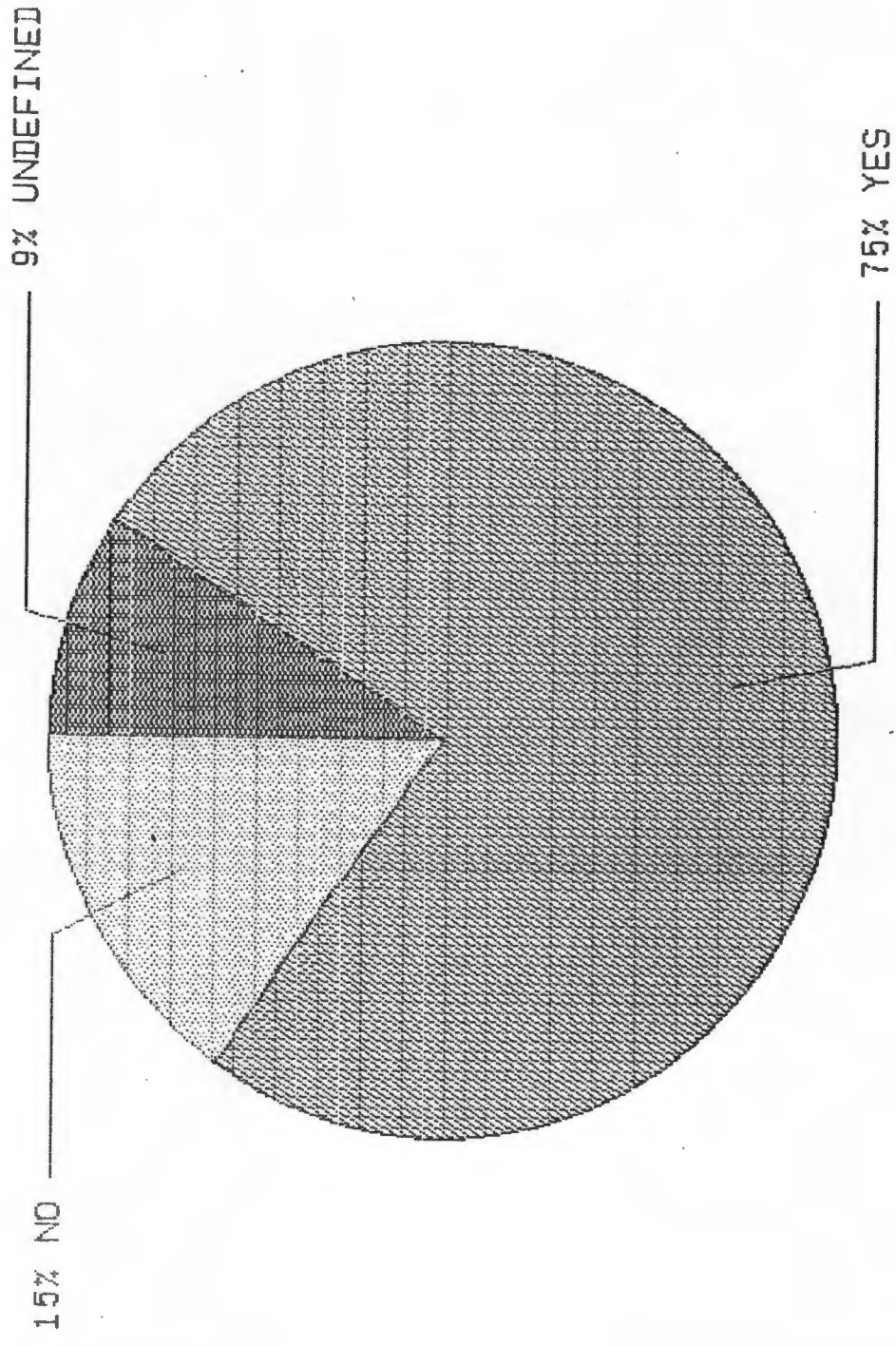
WAS THERE UNAUTHORISED ACCESSABILITY TO POISONS = CARBAMATES

4% UNDEFINED  
4% YES

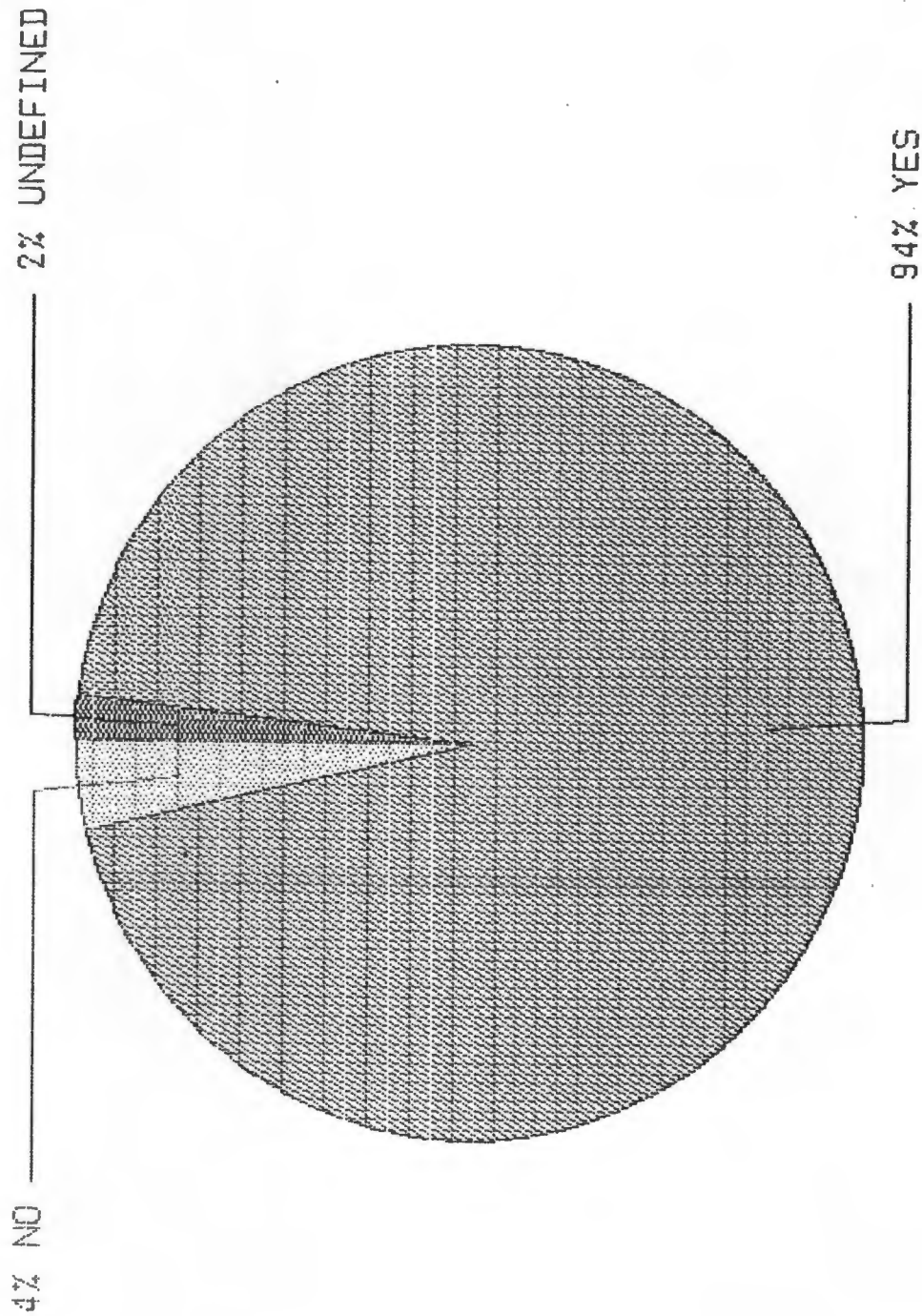


93% NO

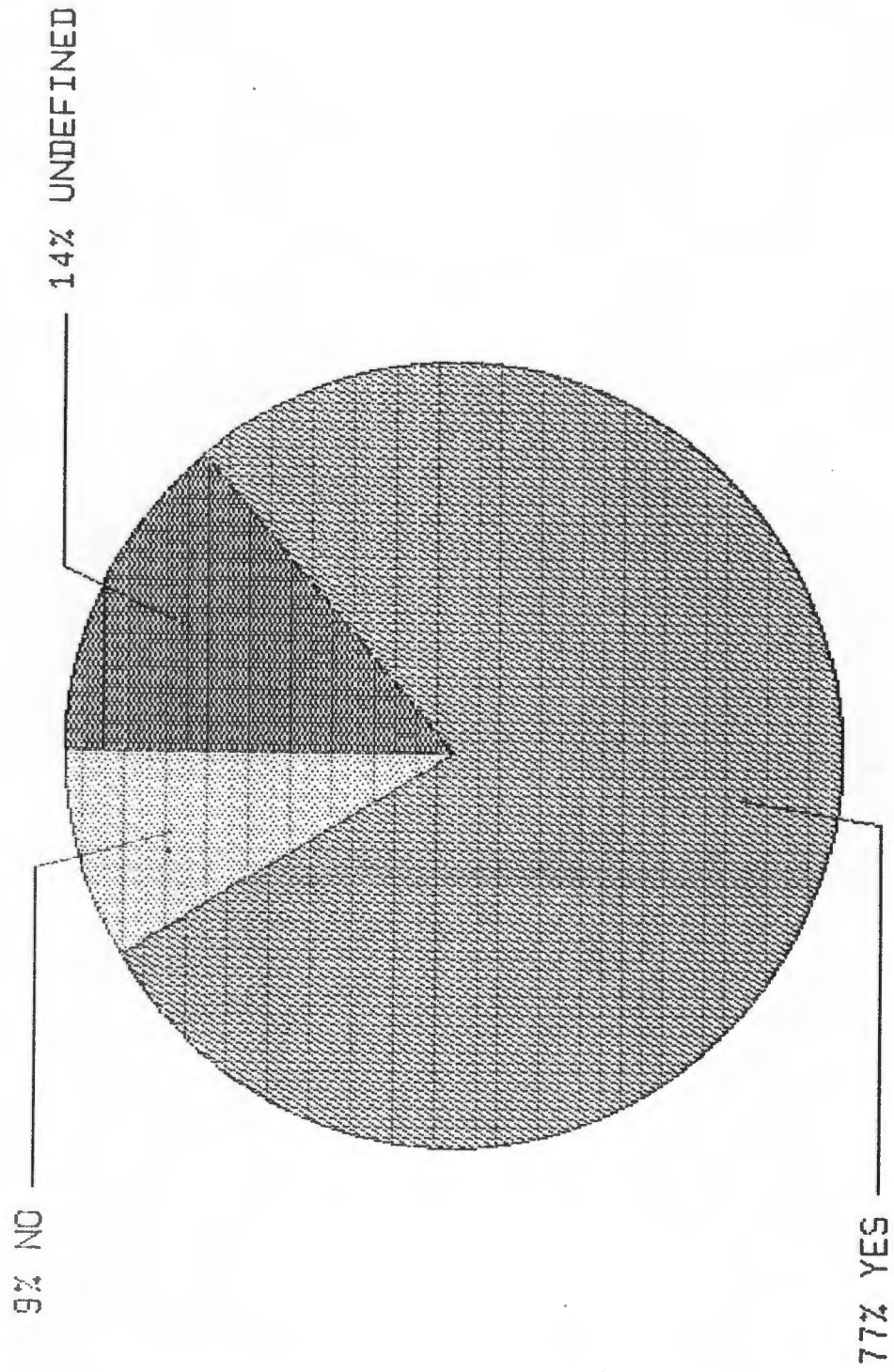
DID OWNERS RECEIVE GUIDANCE WORKING WITH ORGANOPHOSPHATES



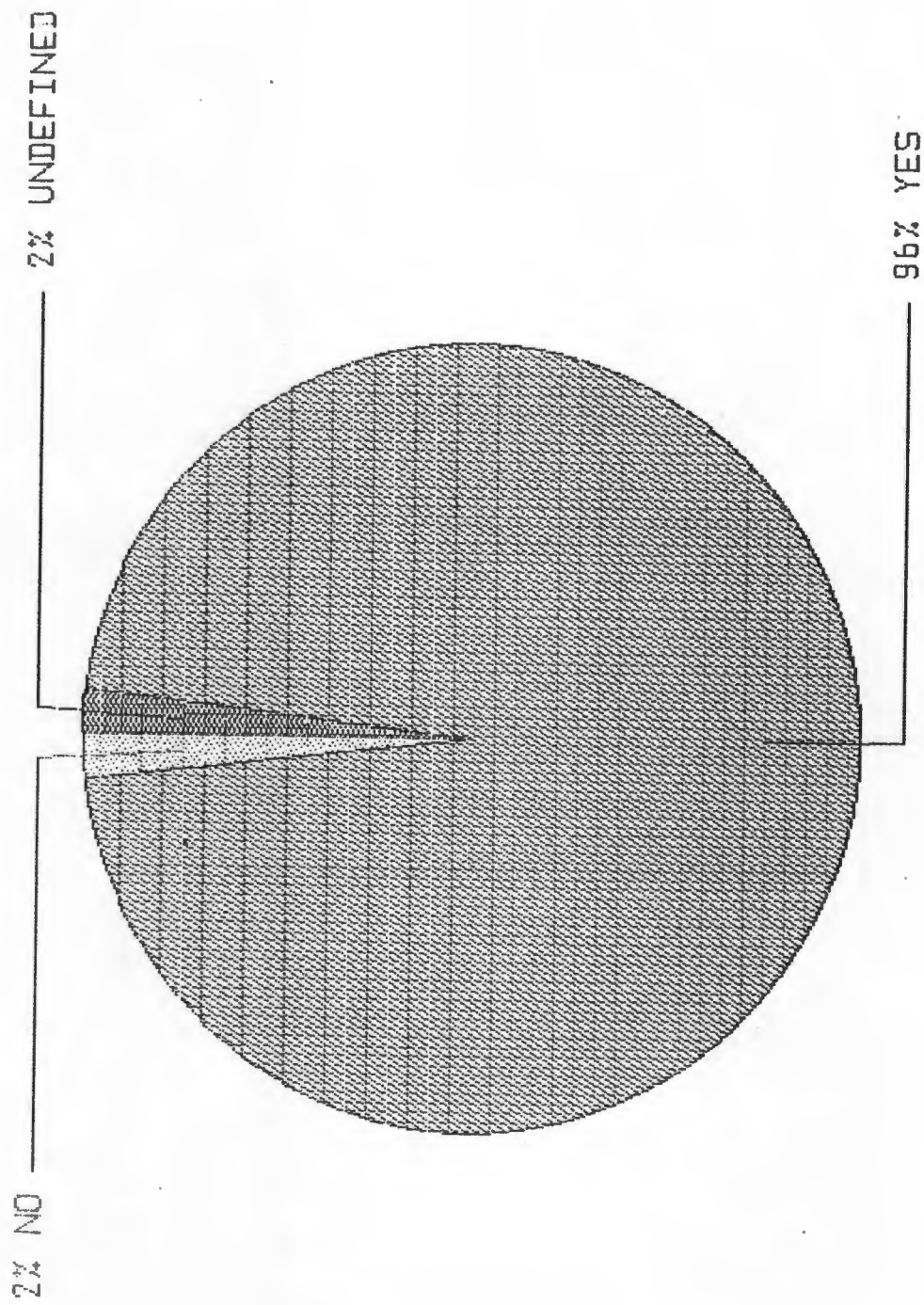
DID OWNERS RECEIVE GUIDANCE WORKING WITH CARBAMATES



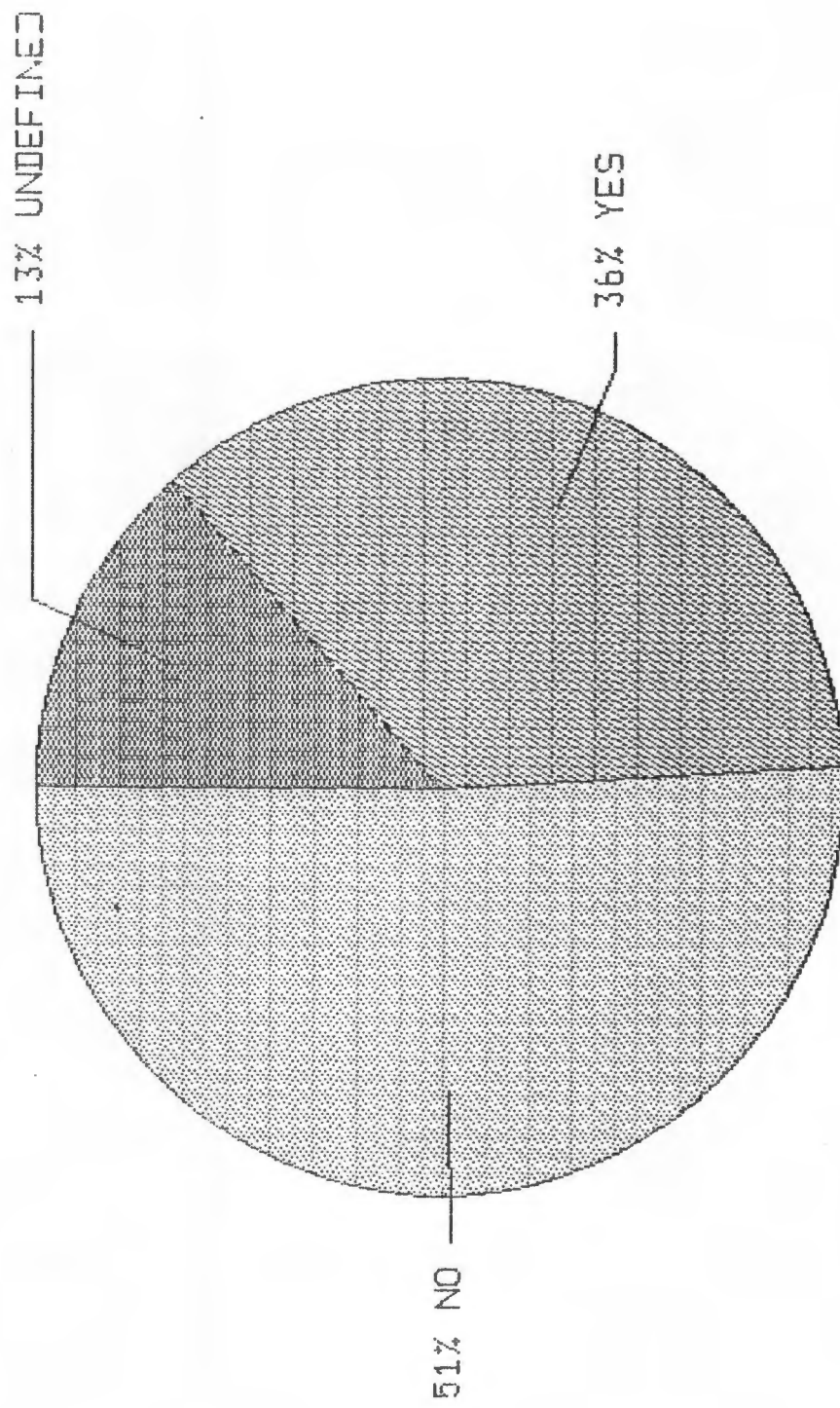
DID WORKERS WORKING WITH ORGANOPHOSPHATES RECEIVE GUIDANCE



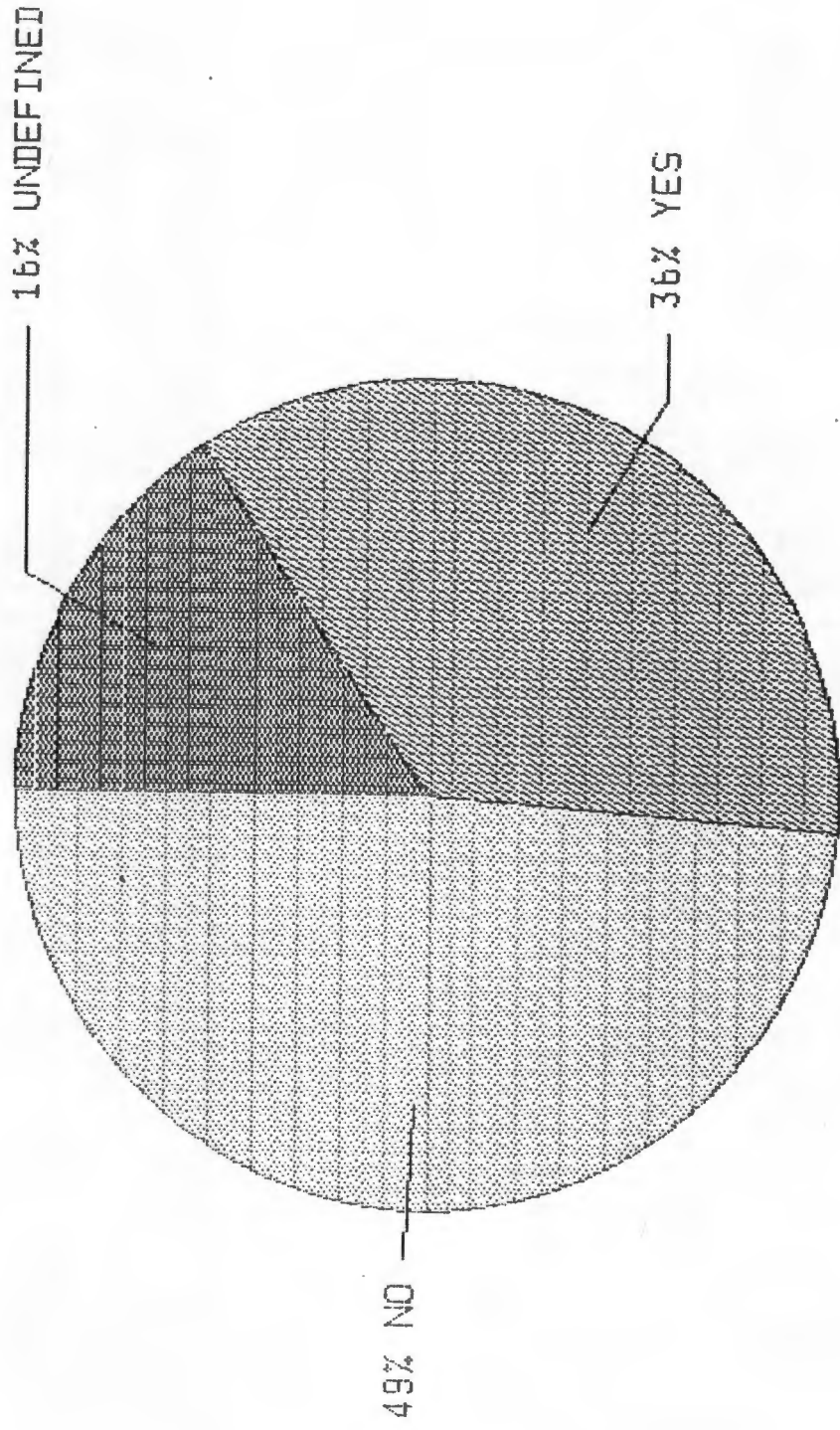
DID WORKERS WORKING WITH CARBAMATES RECEIVE GUIDANCE



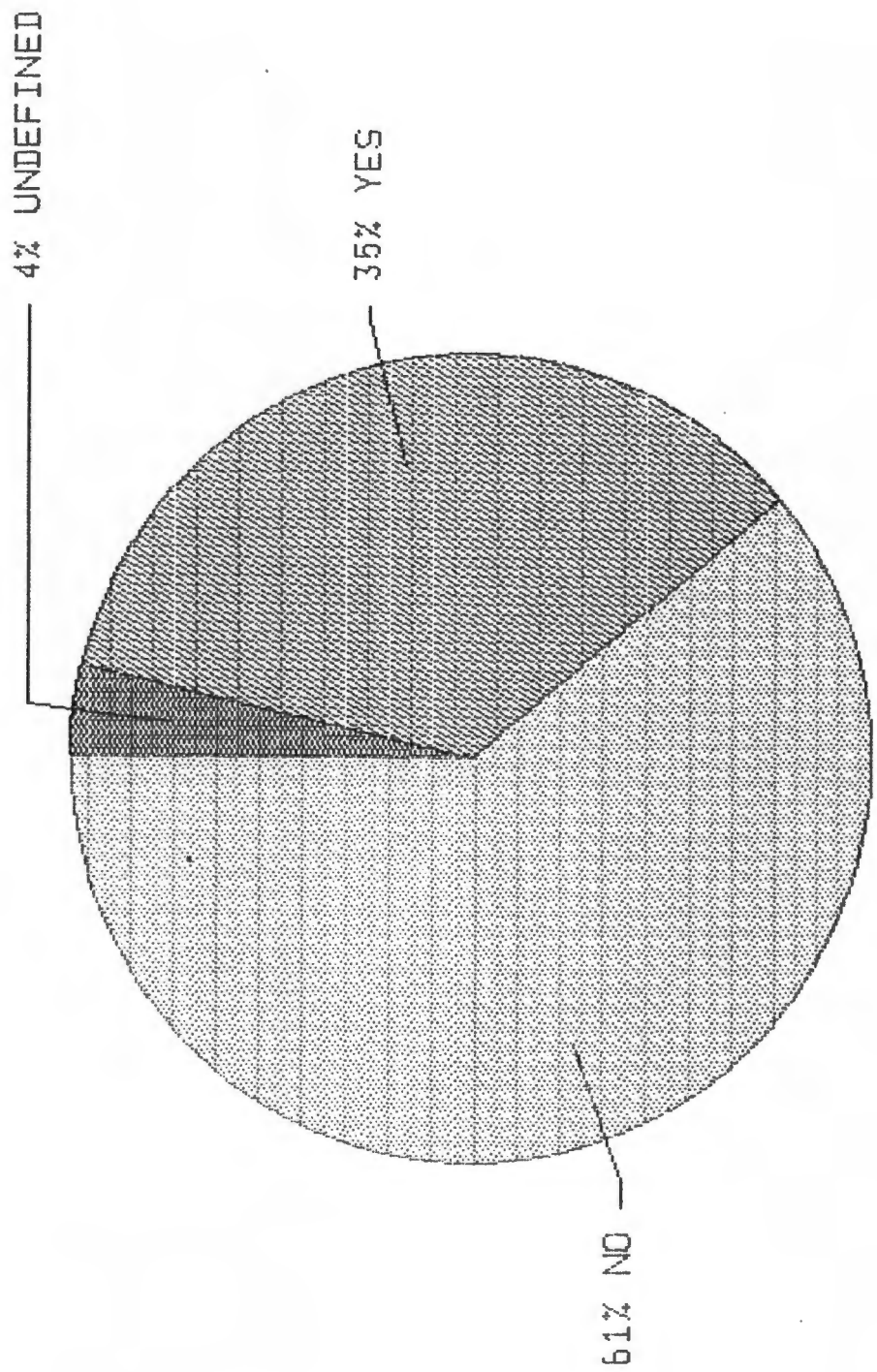
WERE WASHING FACILITIES GENERALLY AVAILABLE TO WORKERS



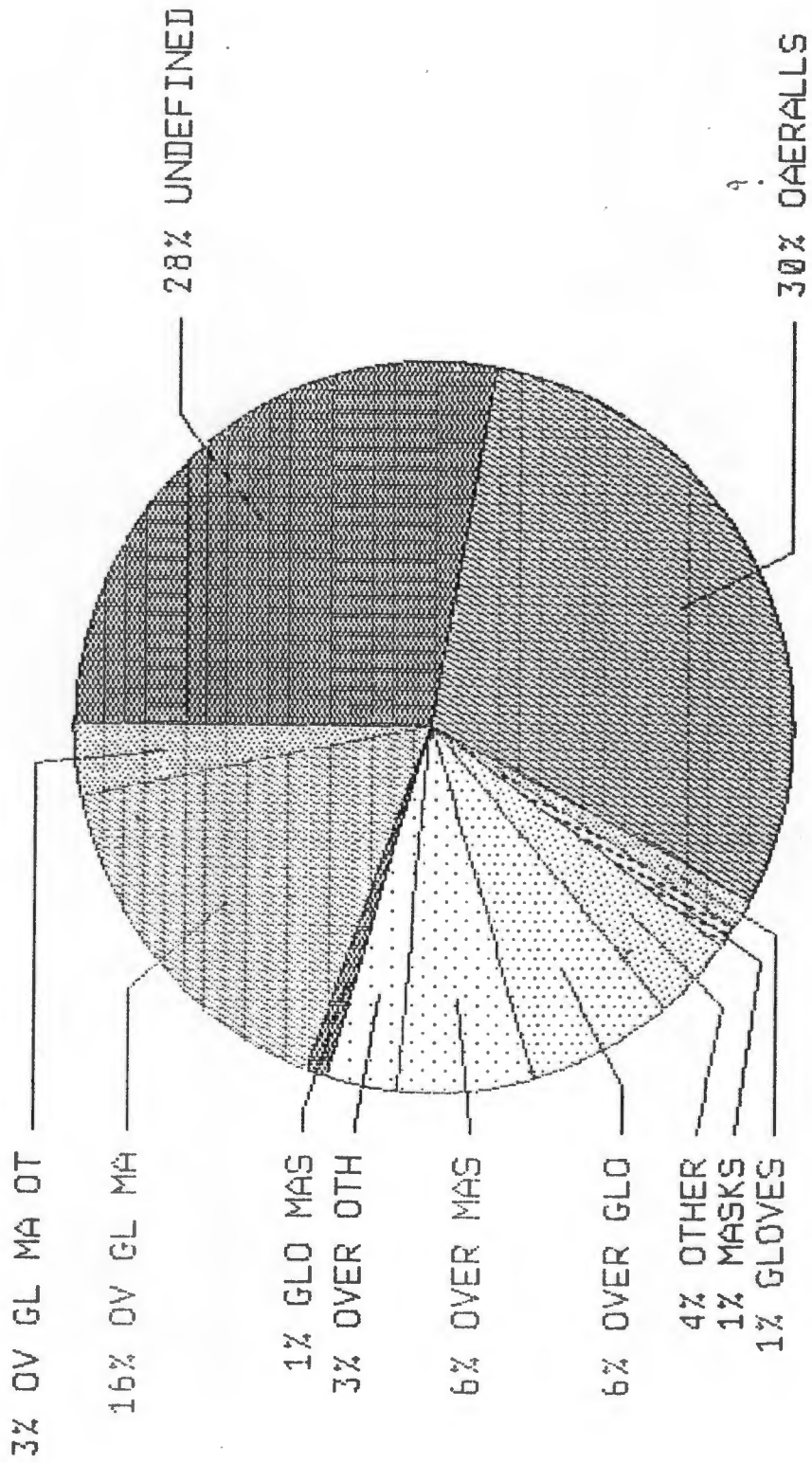
WERE WASHING FACILITIES AVAILABLE TO WORKERS; ORGANOPHOSPHATES



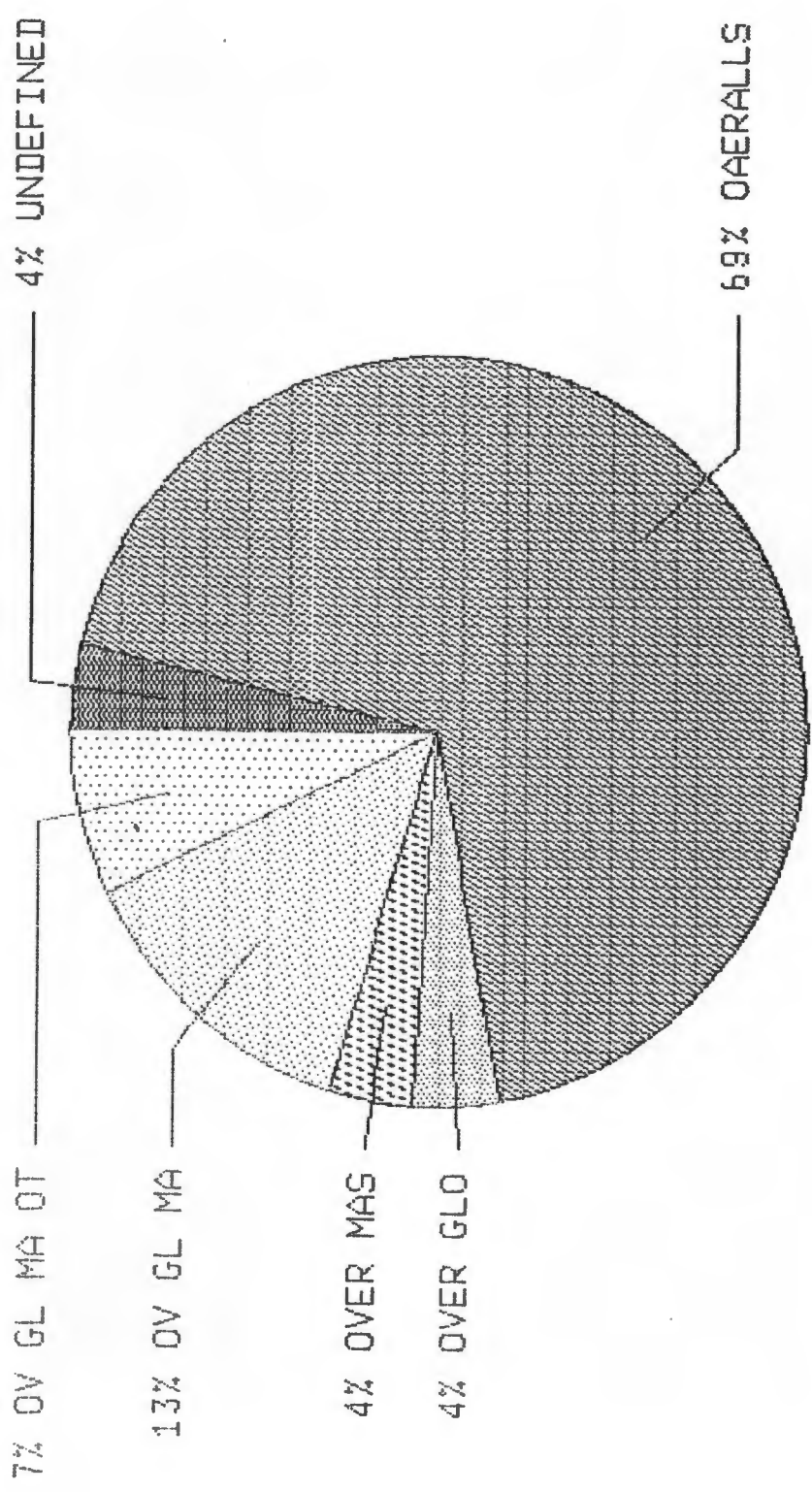
WERE WASHING FACILITIES AVAILABLE TO WORKERS: CARBAMATES



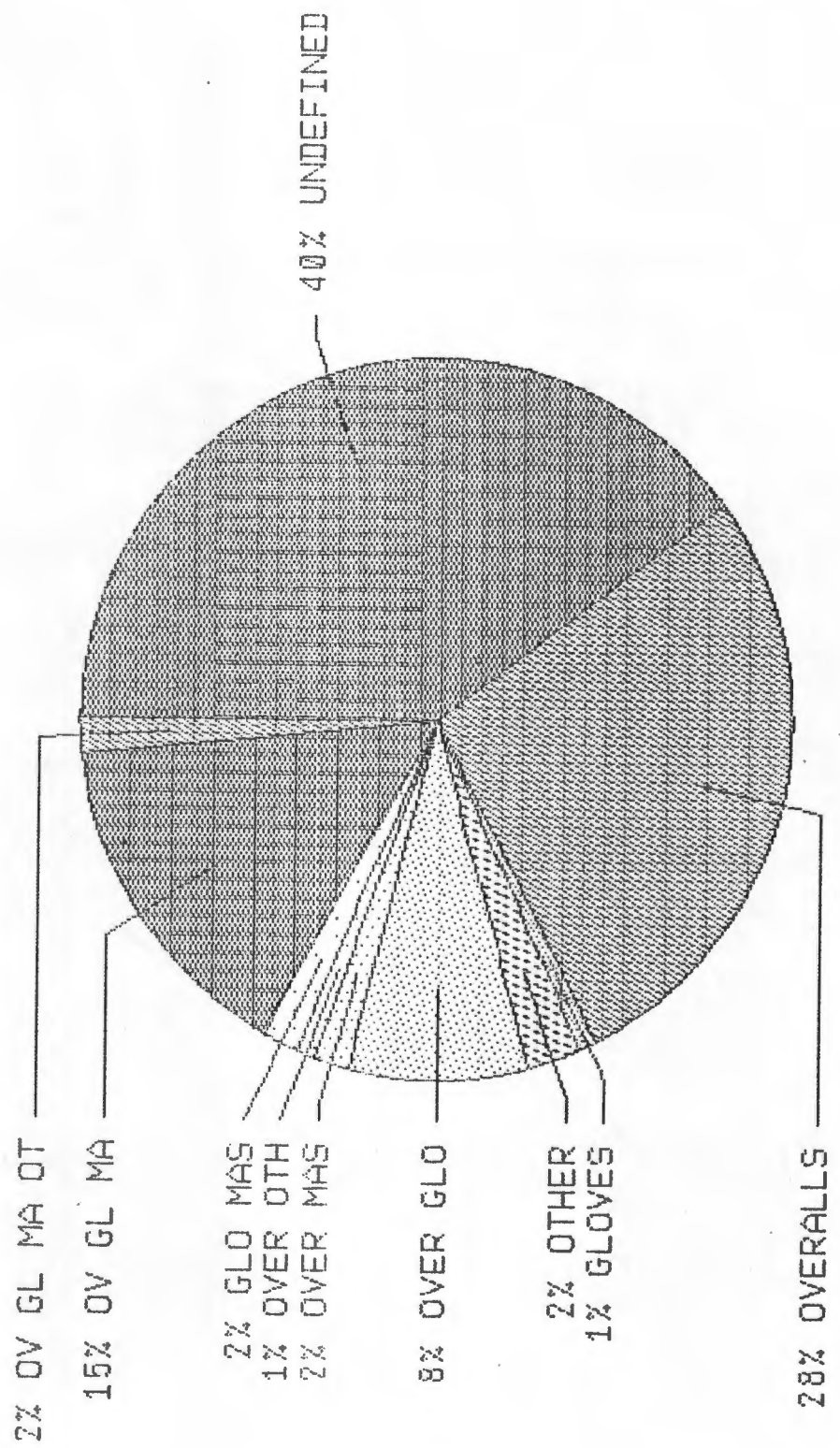
WHAT PROTECTIVE CLOTHING WERE USED WORKING WITH ORGANOPHOSPHATES



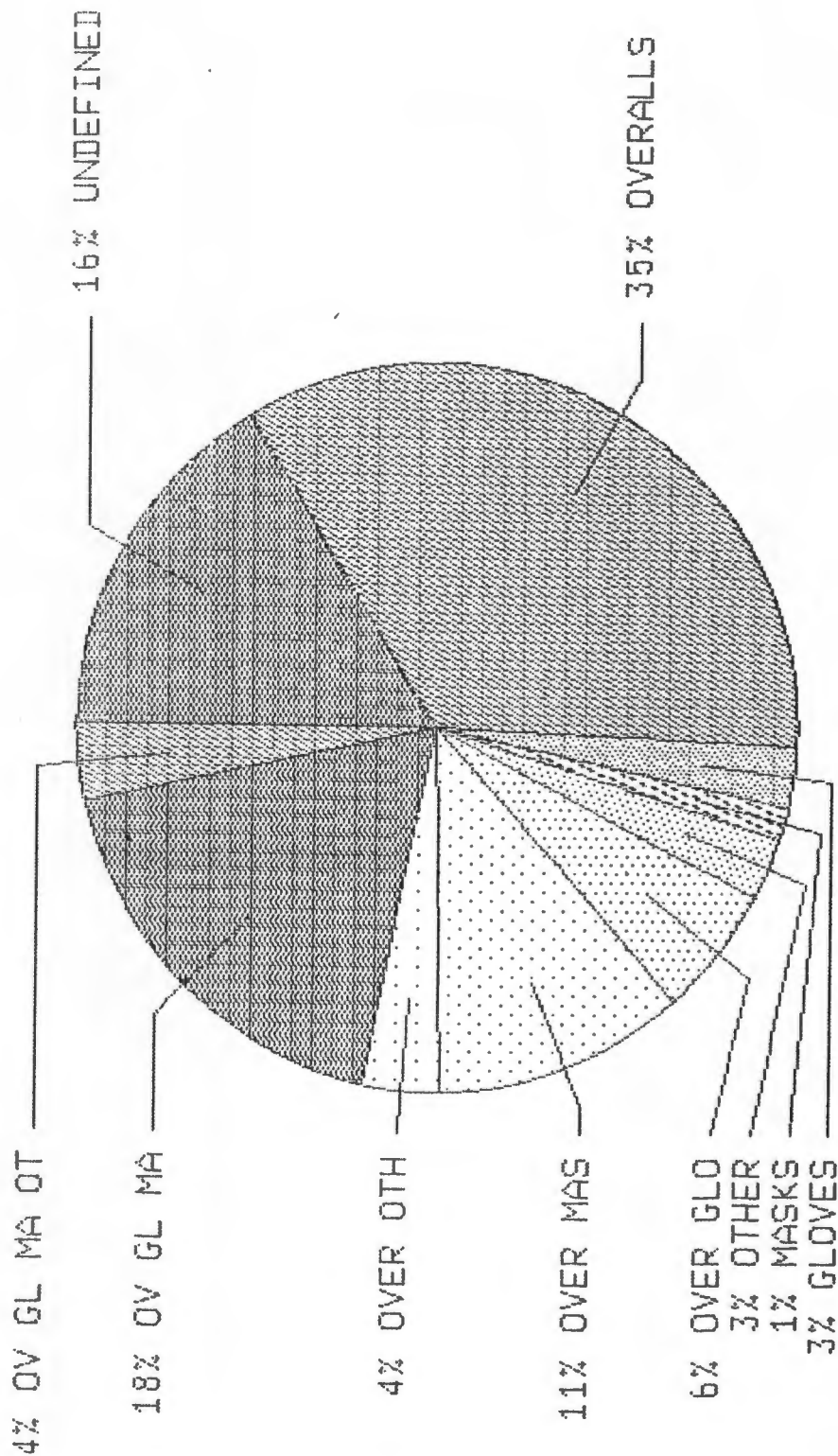
# WHAT PROTECTIVE CLOTHING WERE USED WORKING WITH CARBAMATES



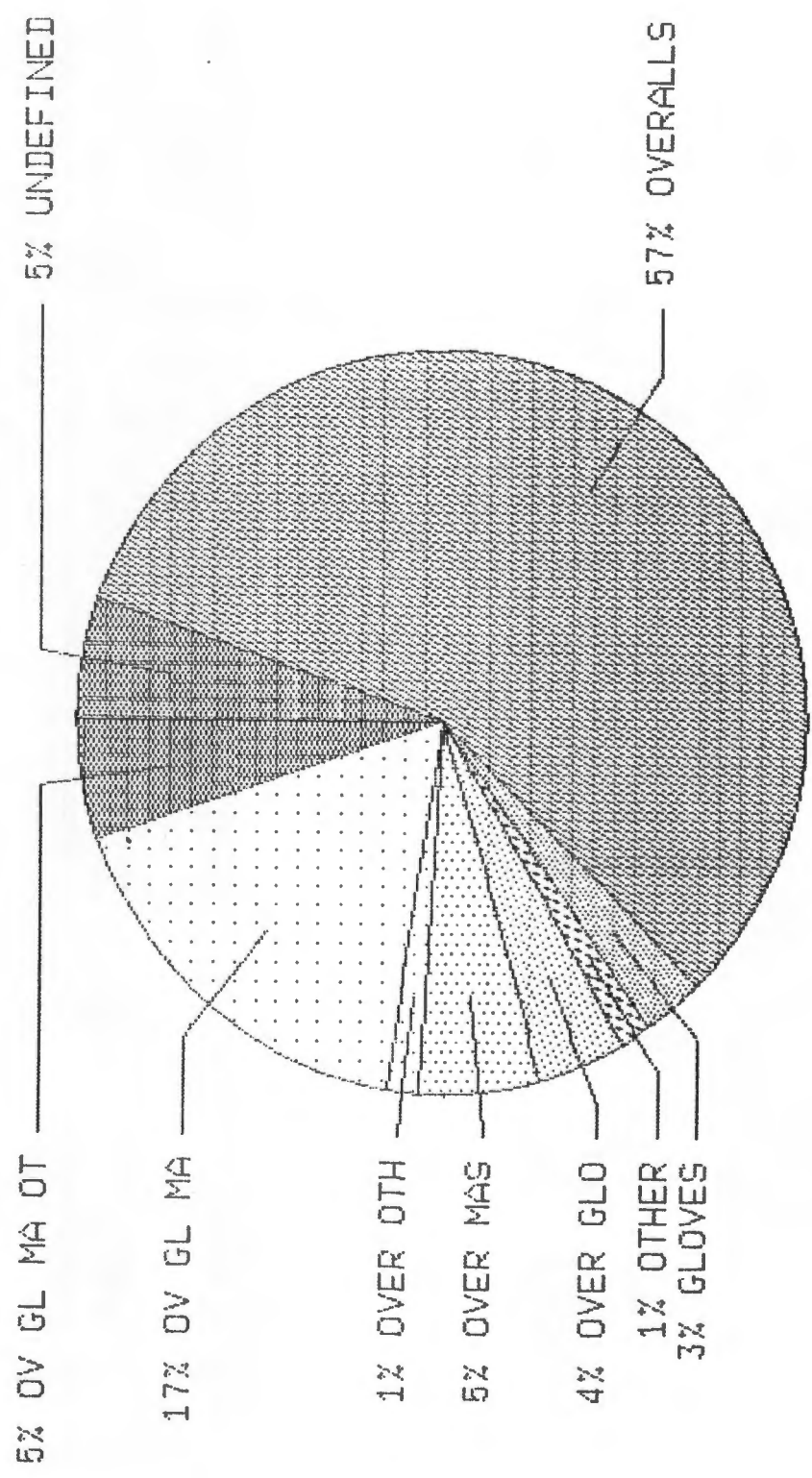
PROTECTIVE CLOTHING USED WORKING WITH CONCENTRATED LIQUIDS



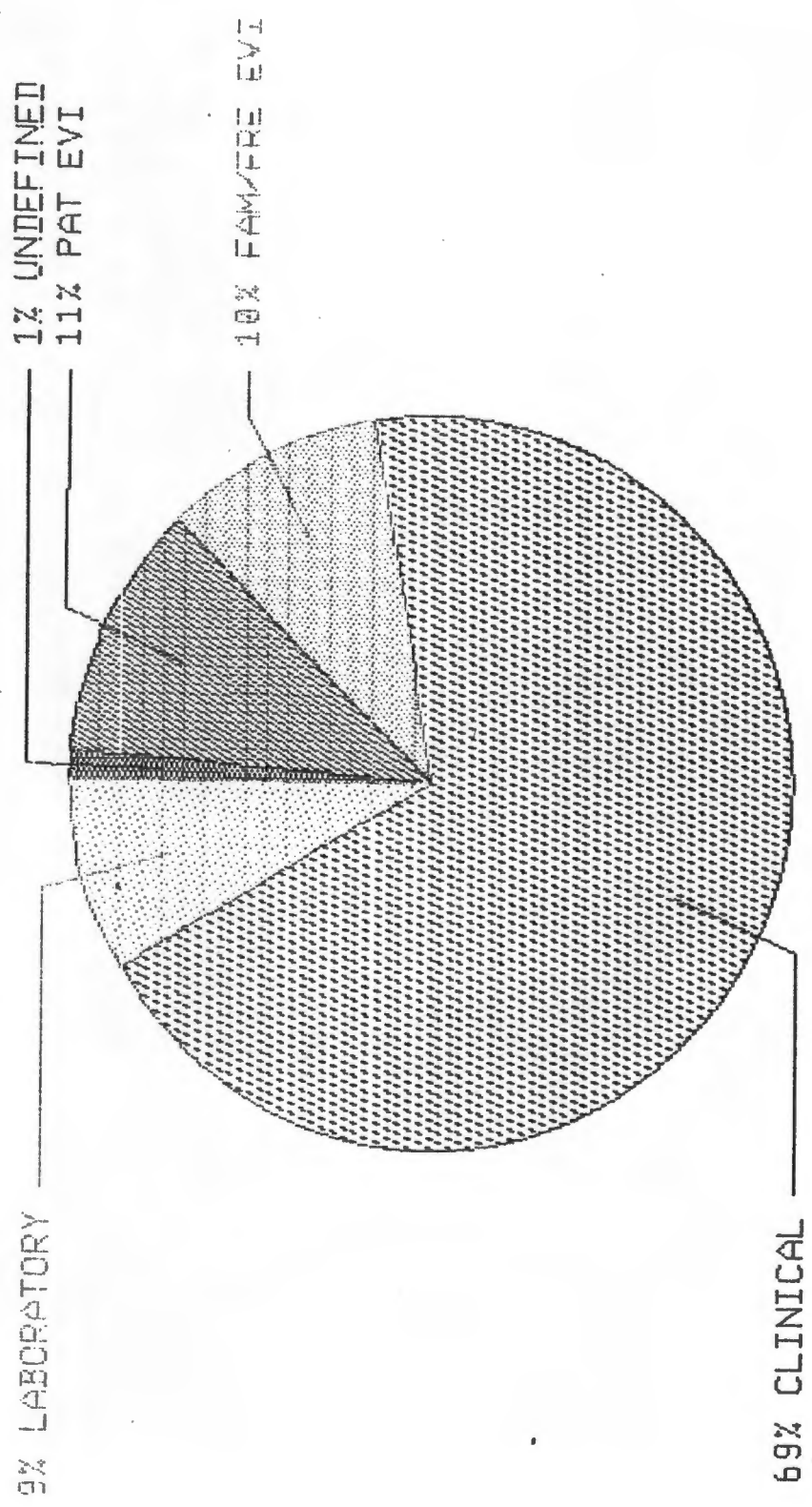
PROTECTIVE CLOTHING USED WORKING WITH DILUTED LIQUIDS



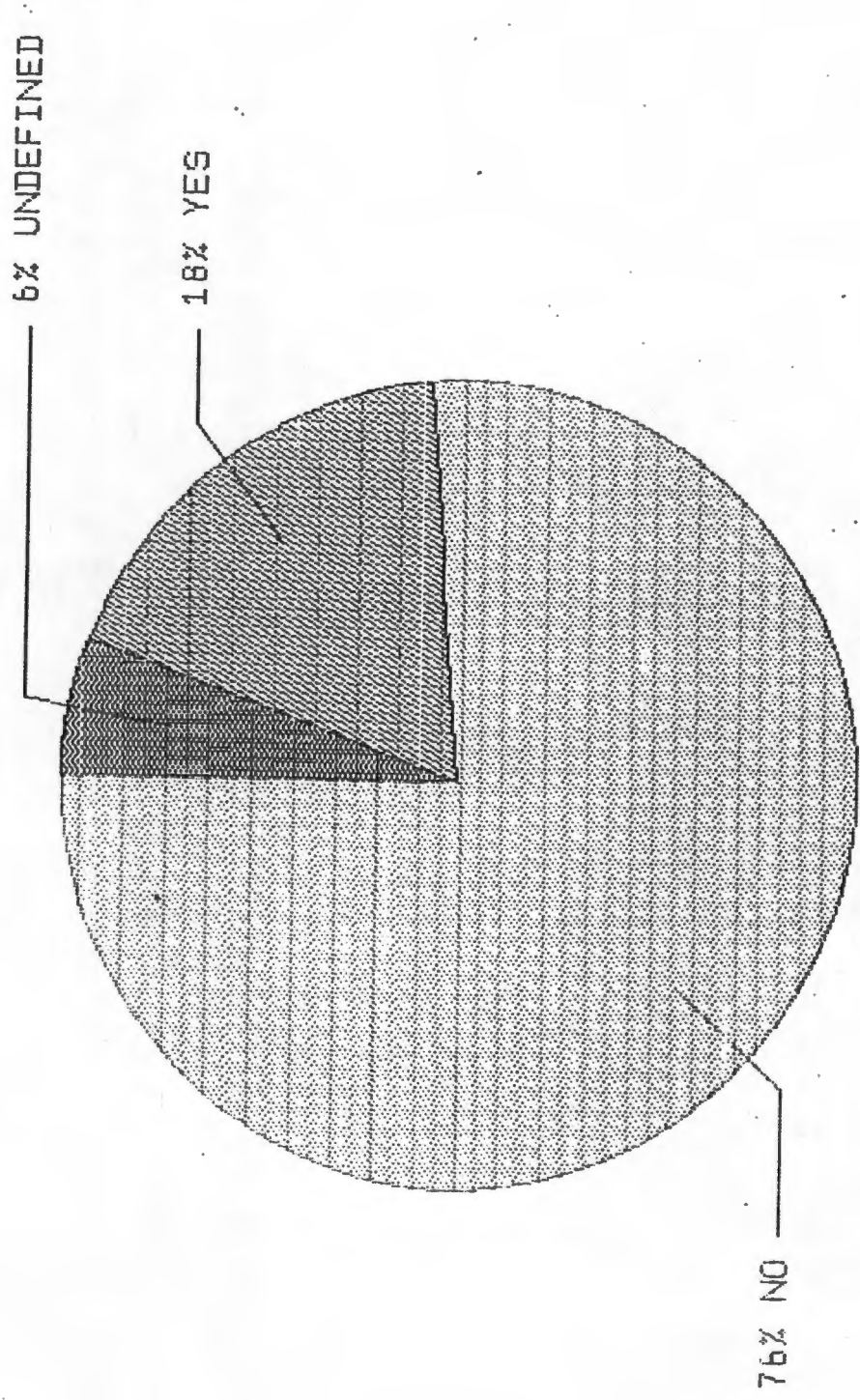
PROTECTIVE CLOTHING USED WORKING WITH SOLIDS



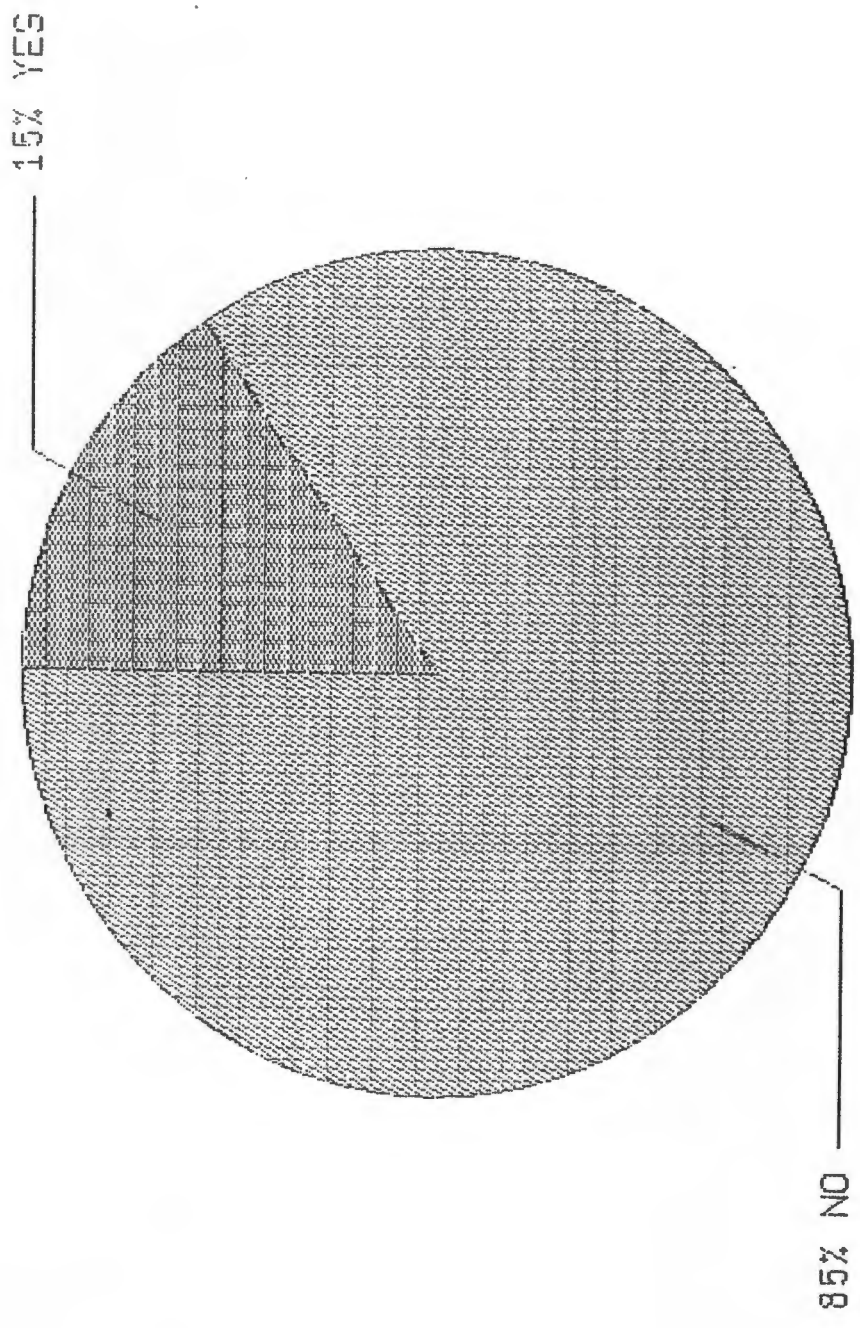
# HOW WAS POISONING CASES CONFIRMED



WAS FIRST AID APPLIED

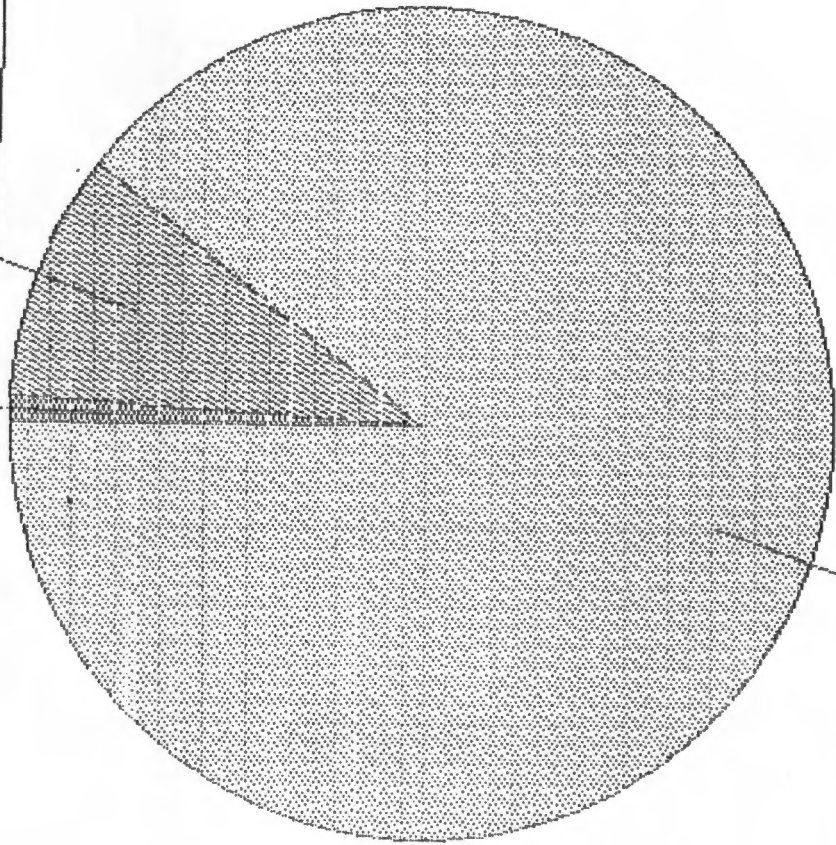


FATALITIES WHEN FIRST AID WAS APPLIED



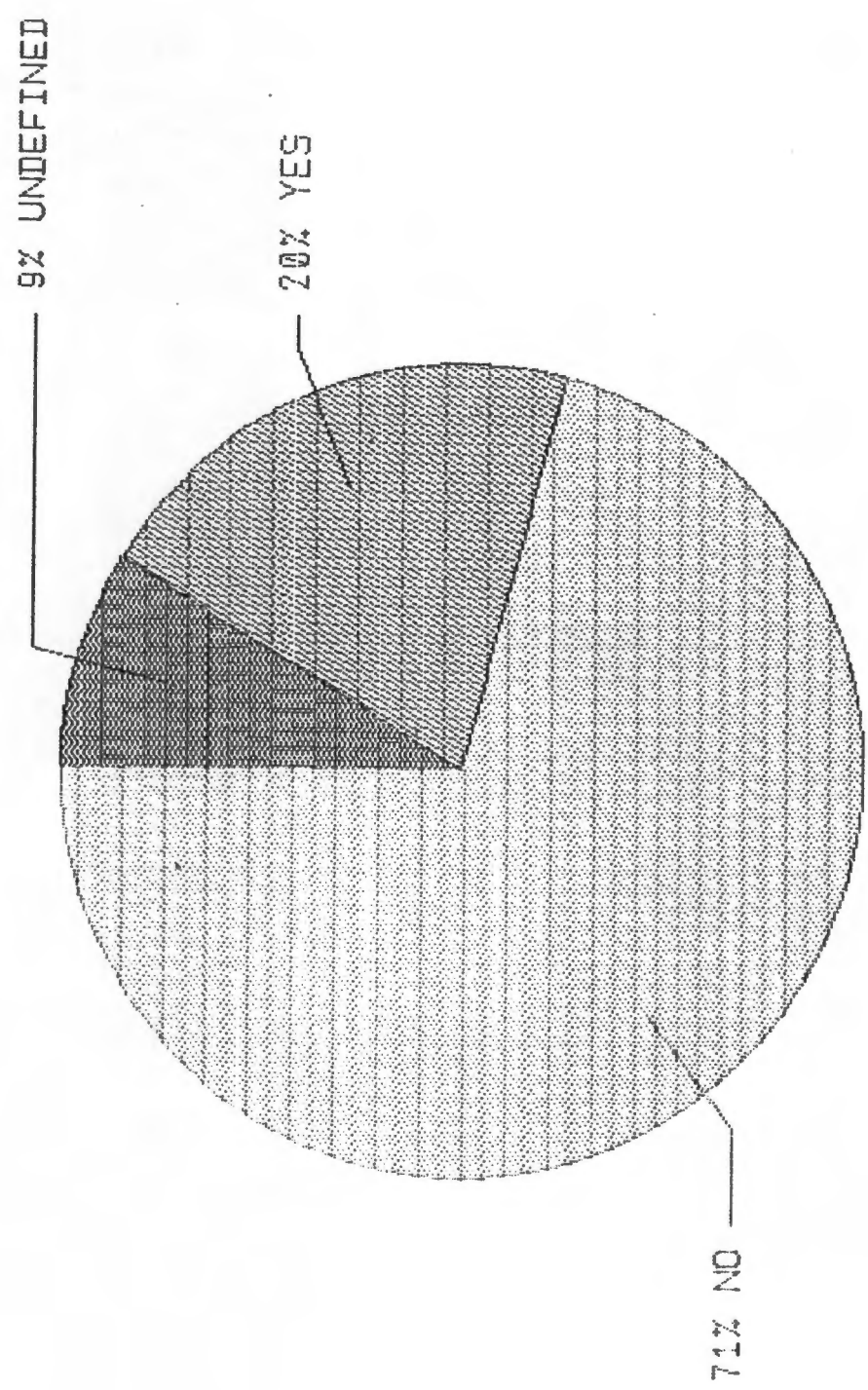
# FATALITIES WHEN FIRST AID WAS NOT APPLIED

1% UNDEFINED  
10% YES

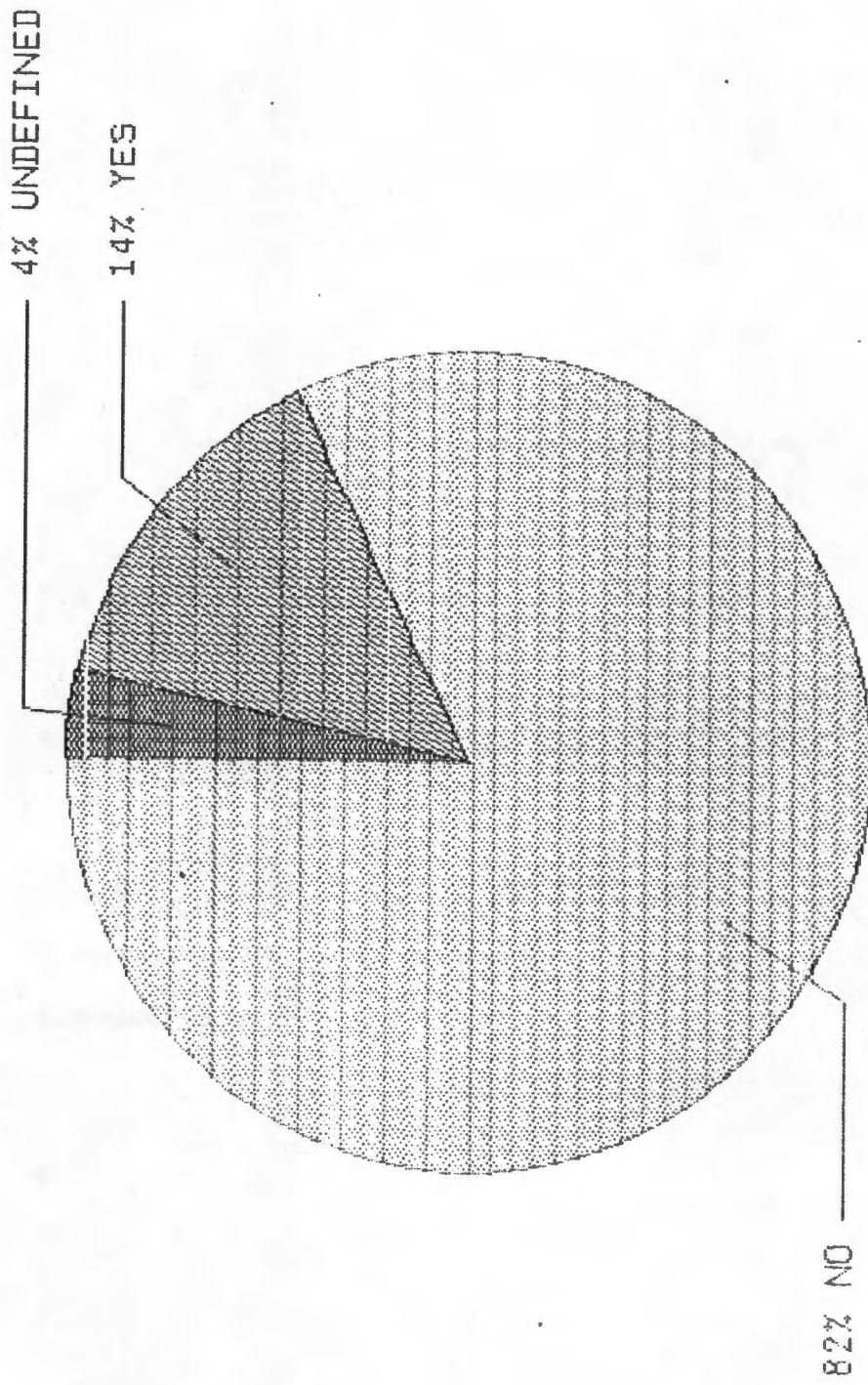


89% NO

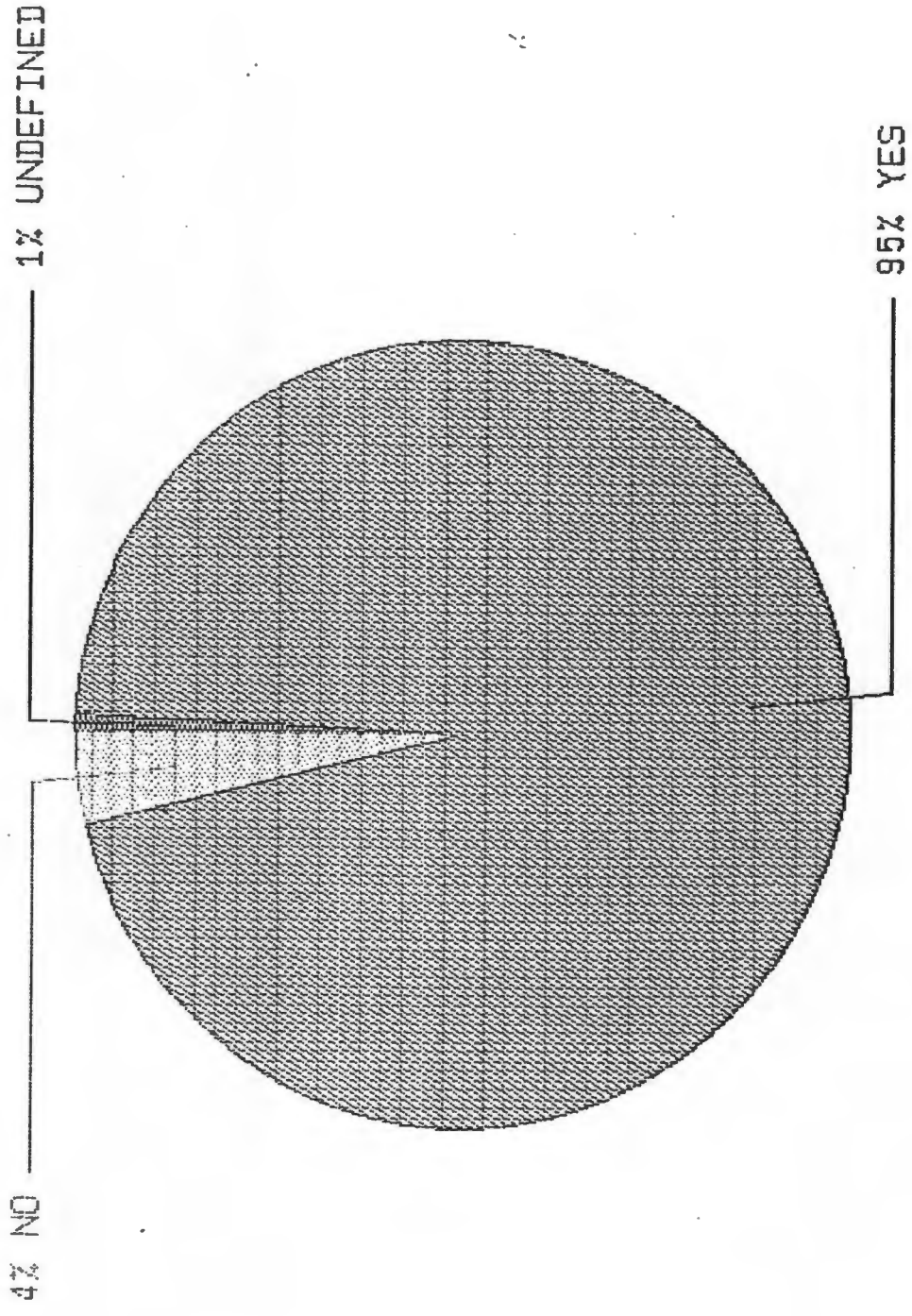
WAS FIRST AID APPLIED WHEN GEN POISON KNOWLEDGE=GOOD



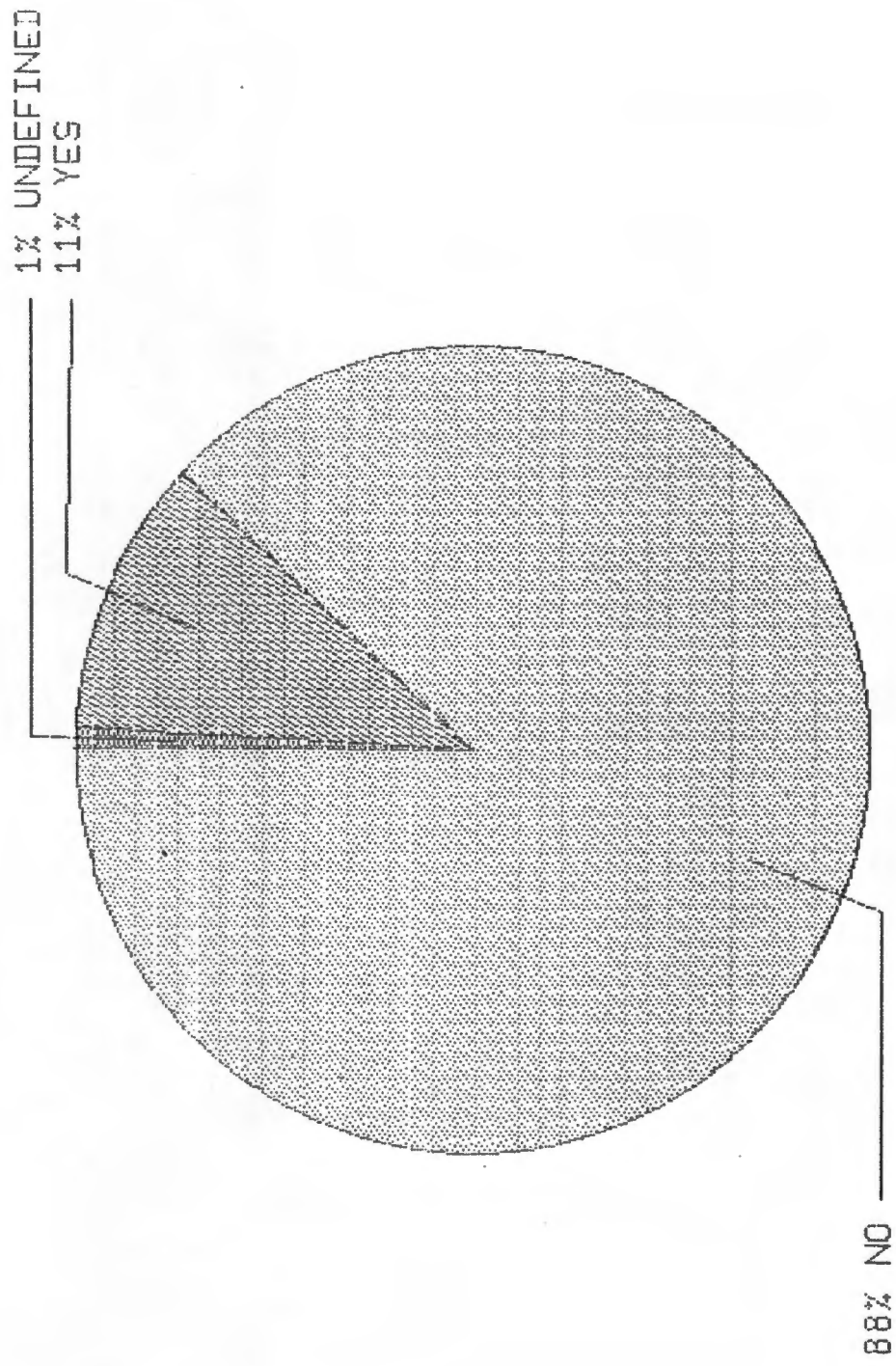
WAS FIRST AID APPLIED WHEN GEN POISON KNOWLEDGE=POOR



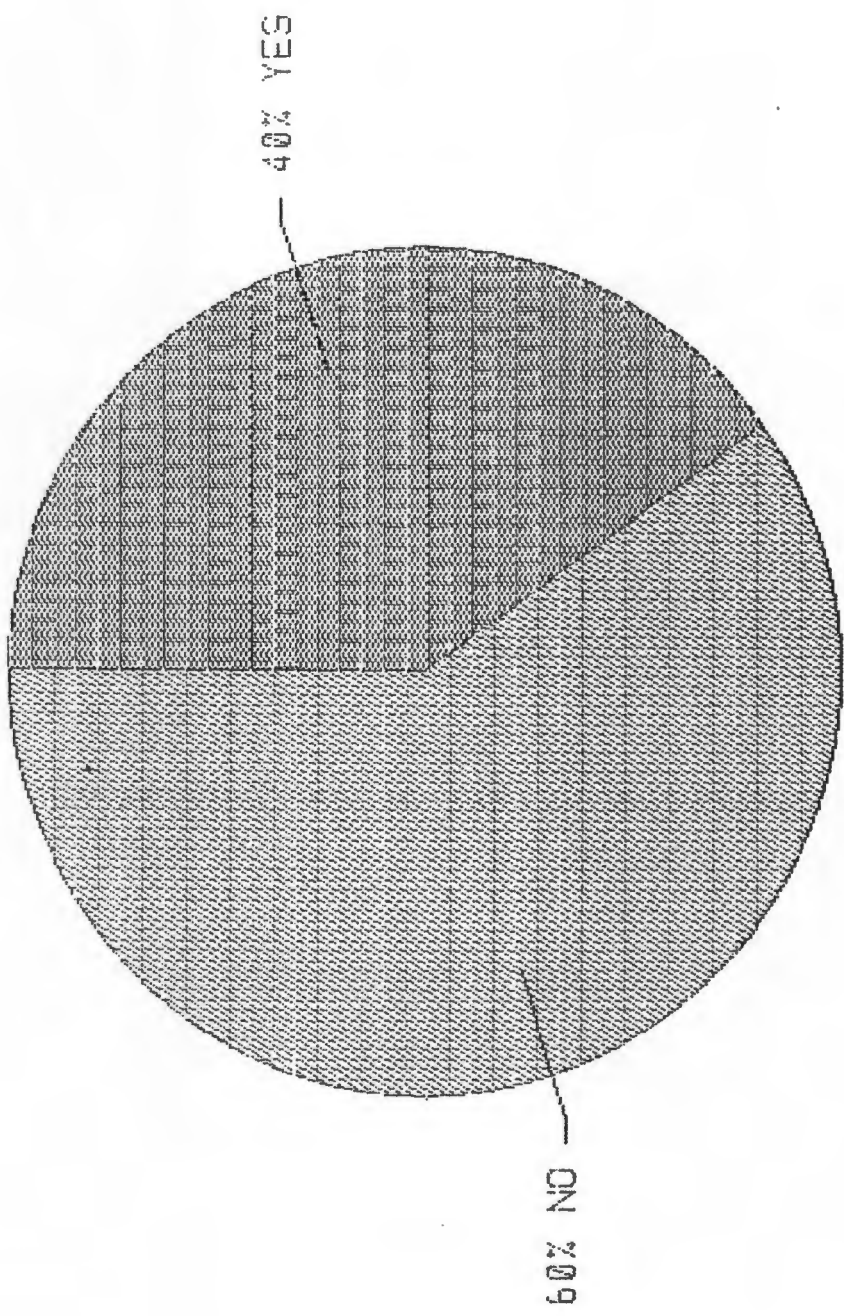
WAS PATIENT REFERRED TO A DOCTOR



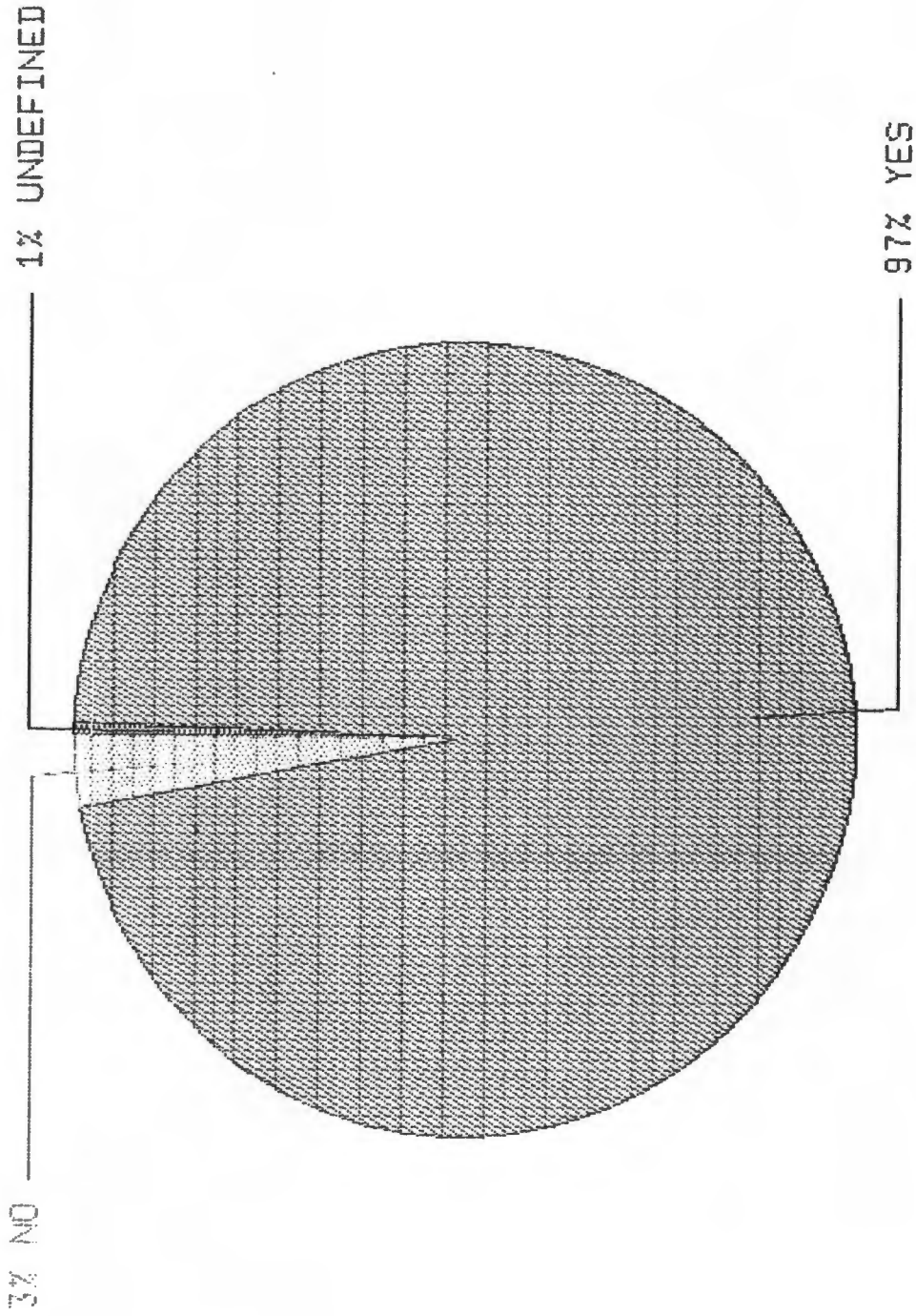
# FATALITIES WHEN PATIENT REFERRED TO DOCTOR



FATALITIES WHEN PATIENT WAS NOT REFERRED TO DOCTOR

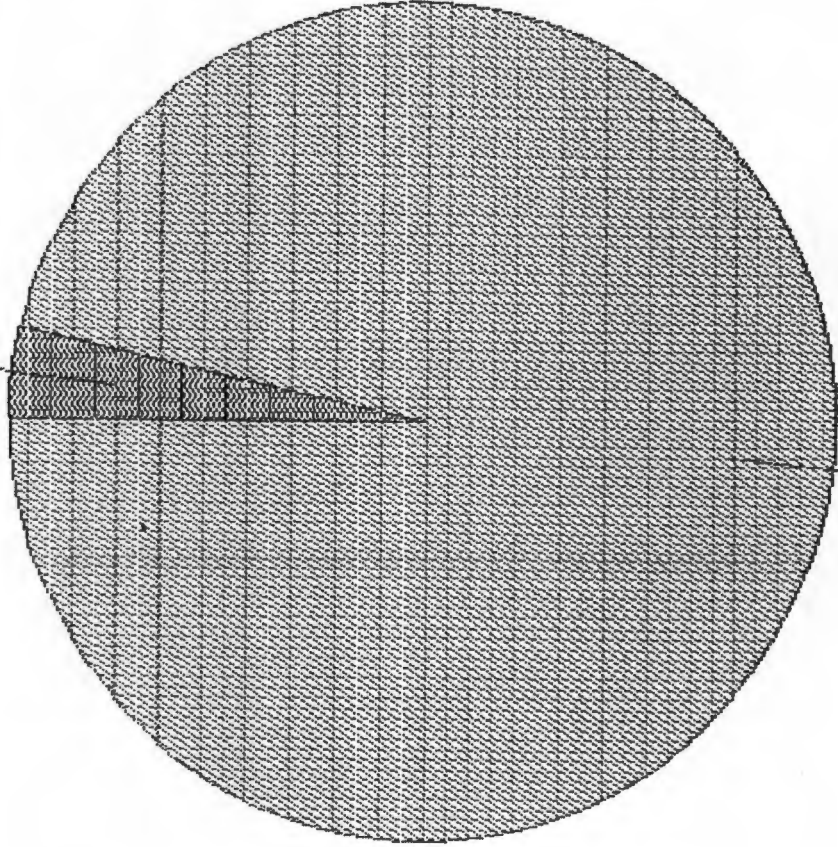


WERE PATIENTS REFERRED TO A DOCTOR WHEN GEN POISON KNOW=GOOD



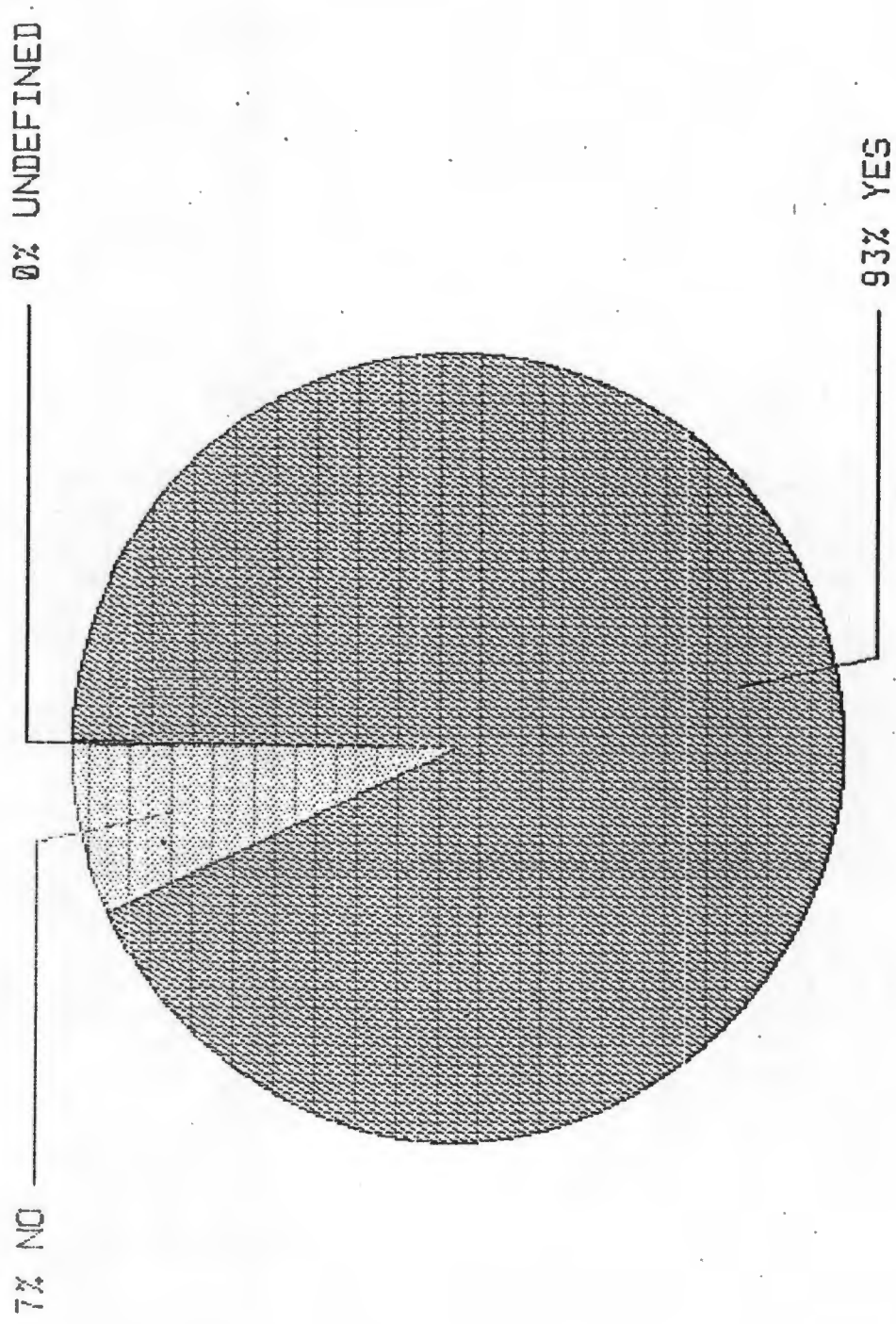
WERE PATIENTS REFERRED TO A DOCTOR WHEN GEN POISON KNOW=POOR

4% UNDEFINED

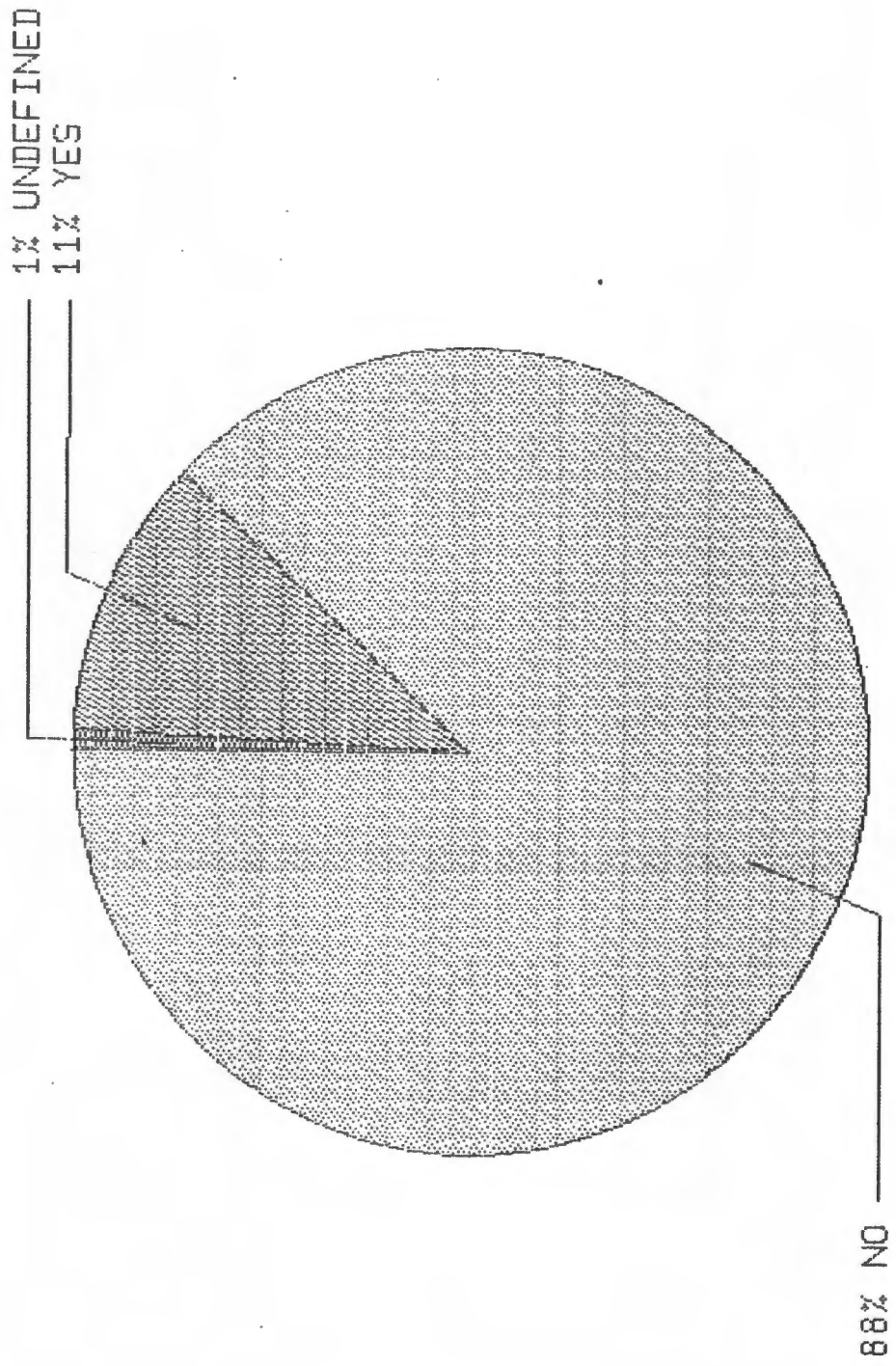


96% YES

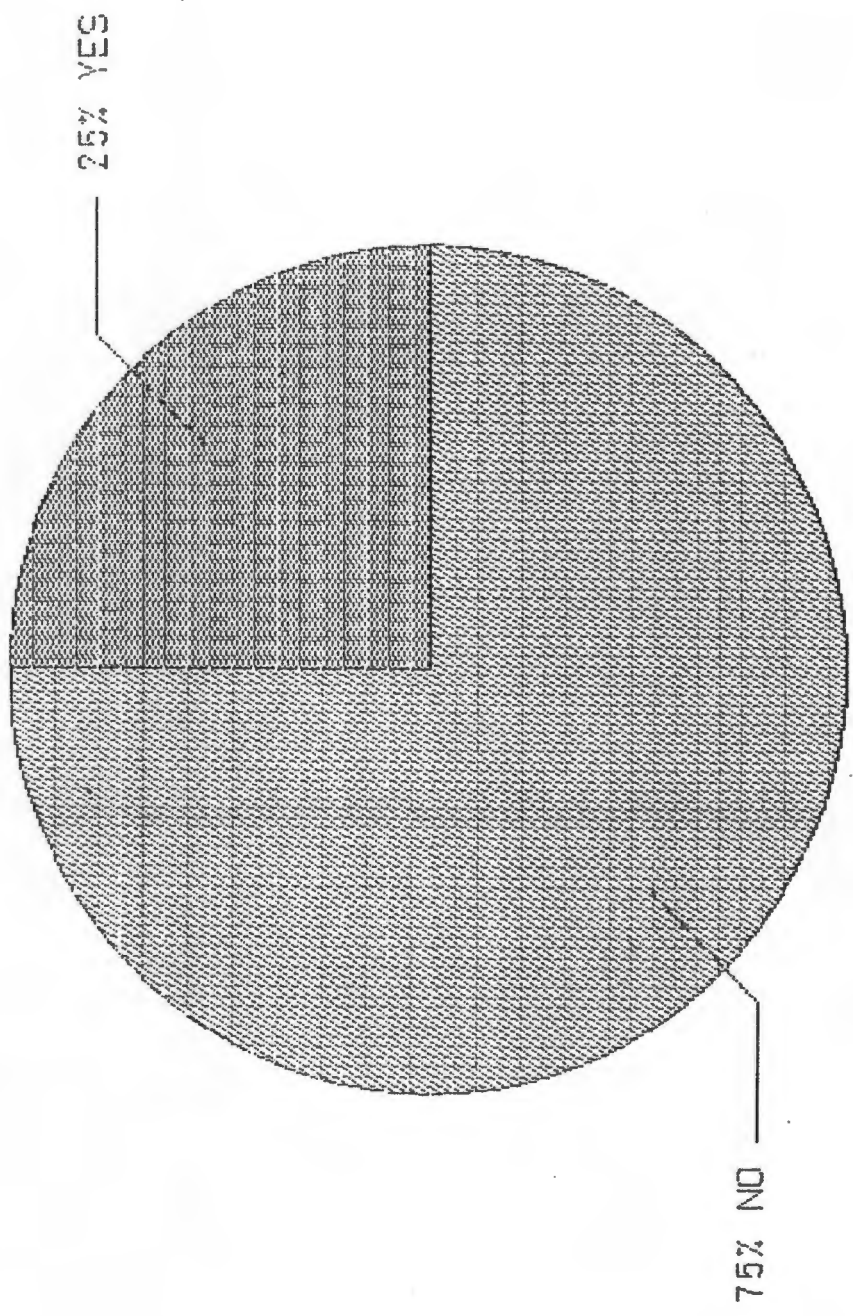
# WAS PATIENT HOSPITALISED



FATALITIES WHEN PATIENT WAS HOSPITALISED

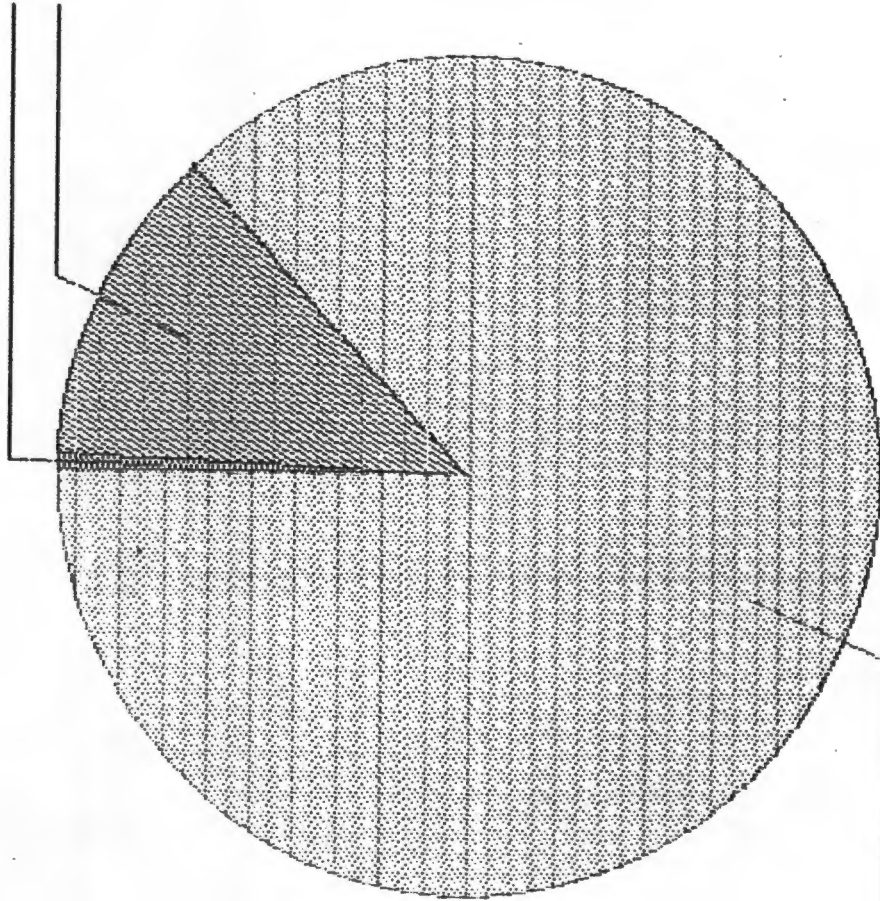


FATALITIES WHEN PATIENT WAS NOT HOSPITALISED



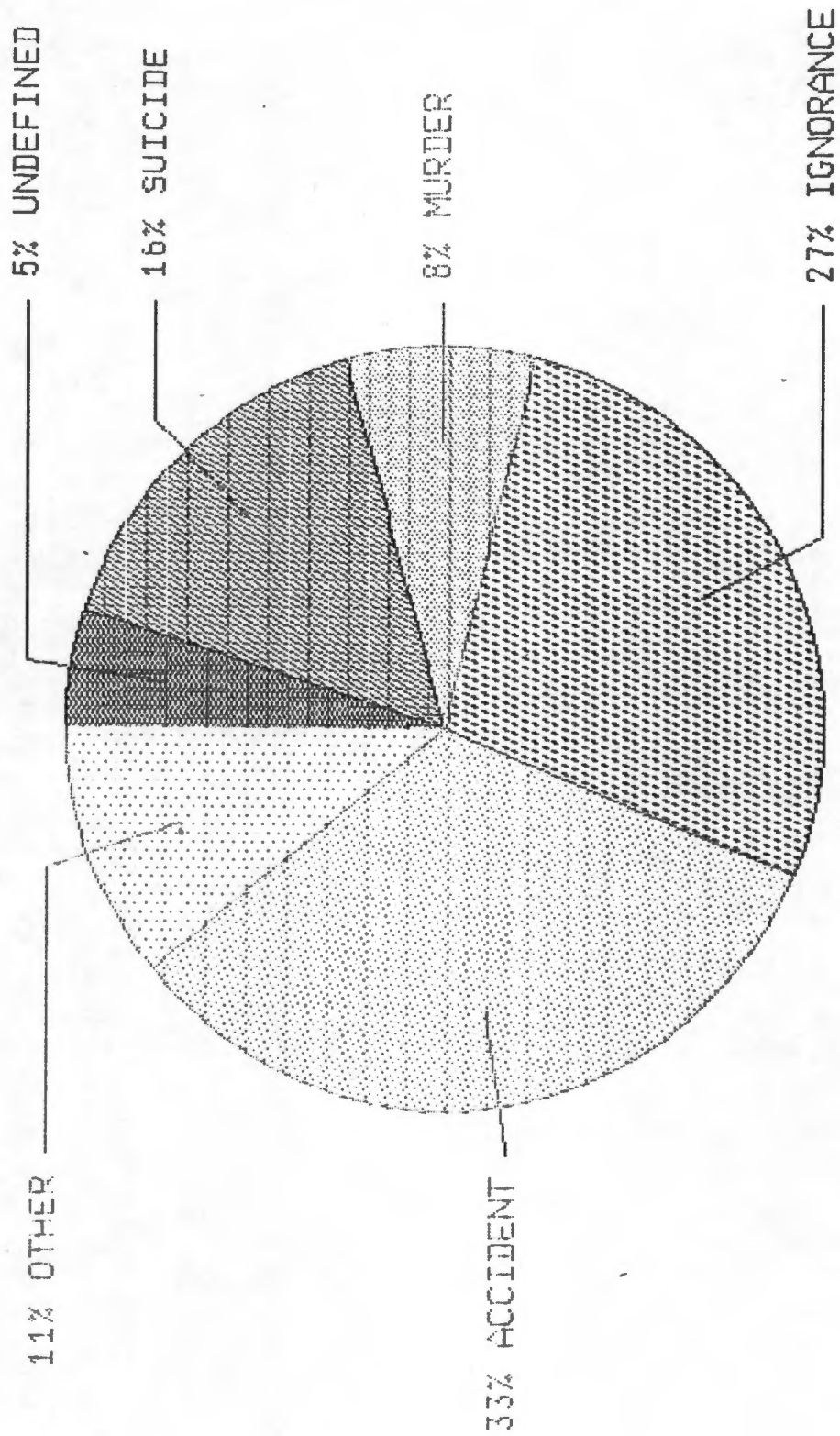
WAS POISONING CASE FATAL

1% UNDEFINED  
12% YES

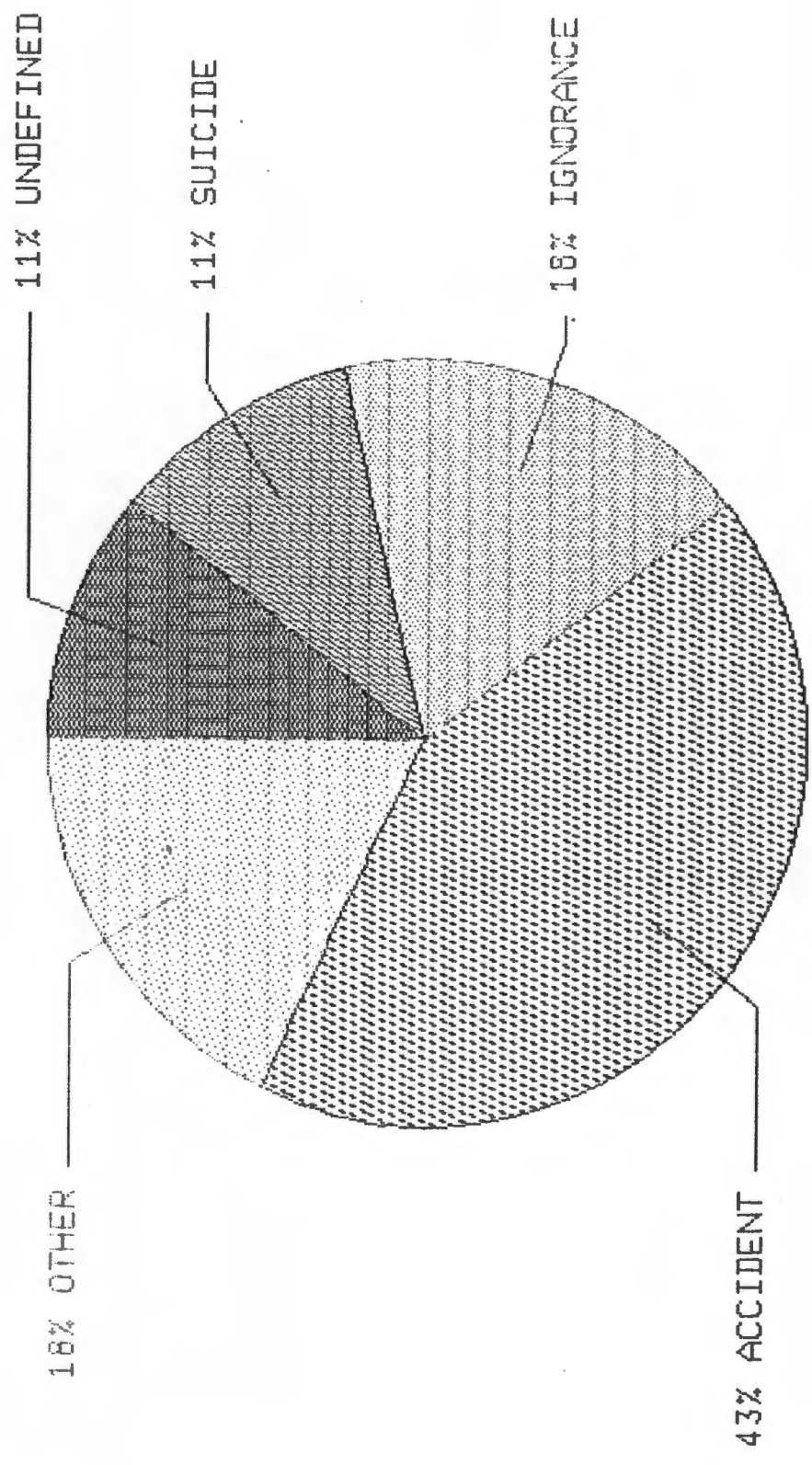


87% NO

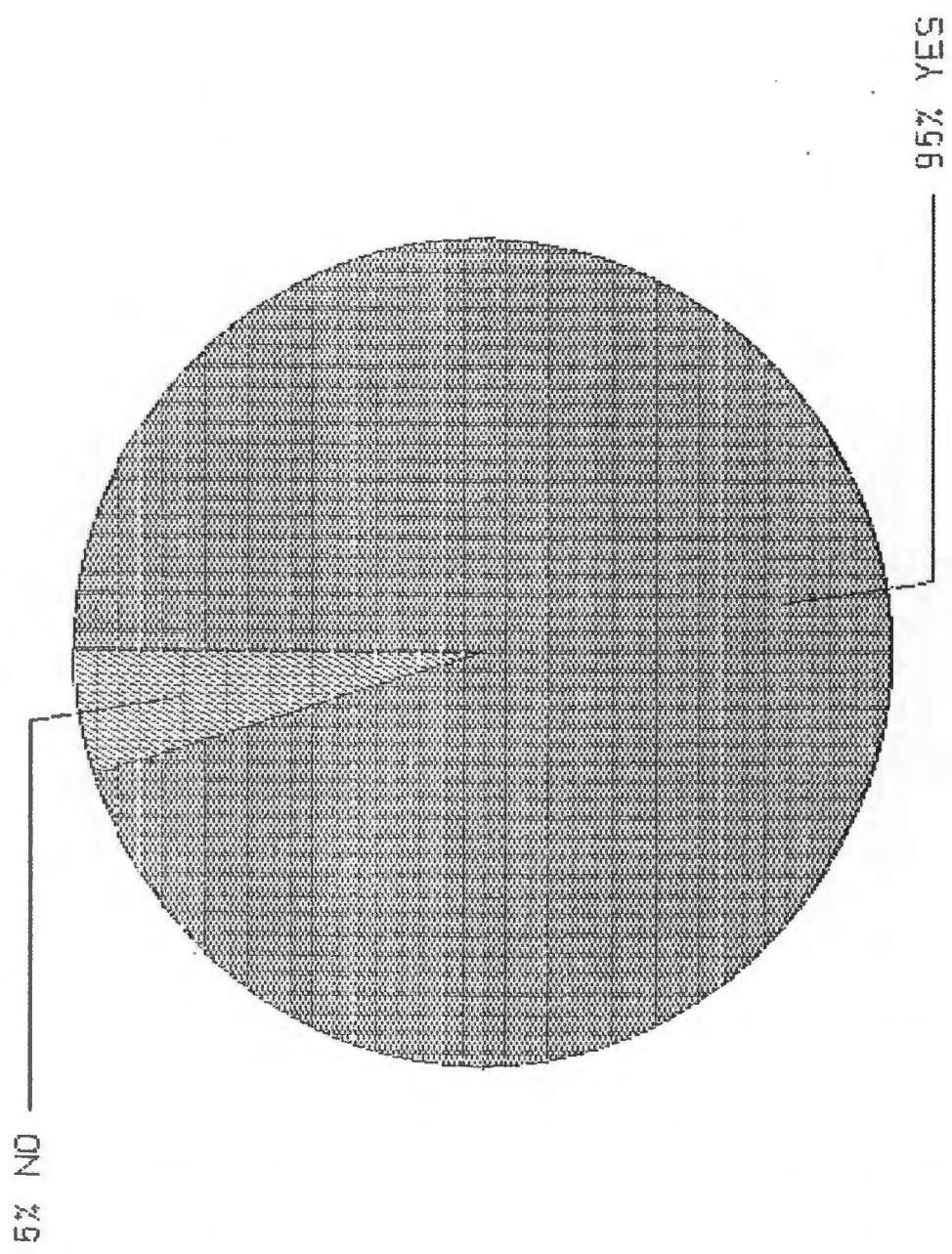
HOSPITALISED=YES PER REASON FOR POISONING



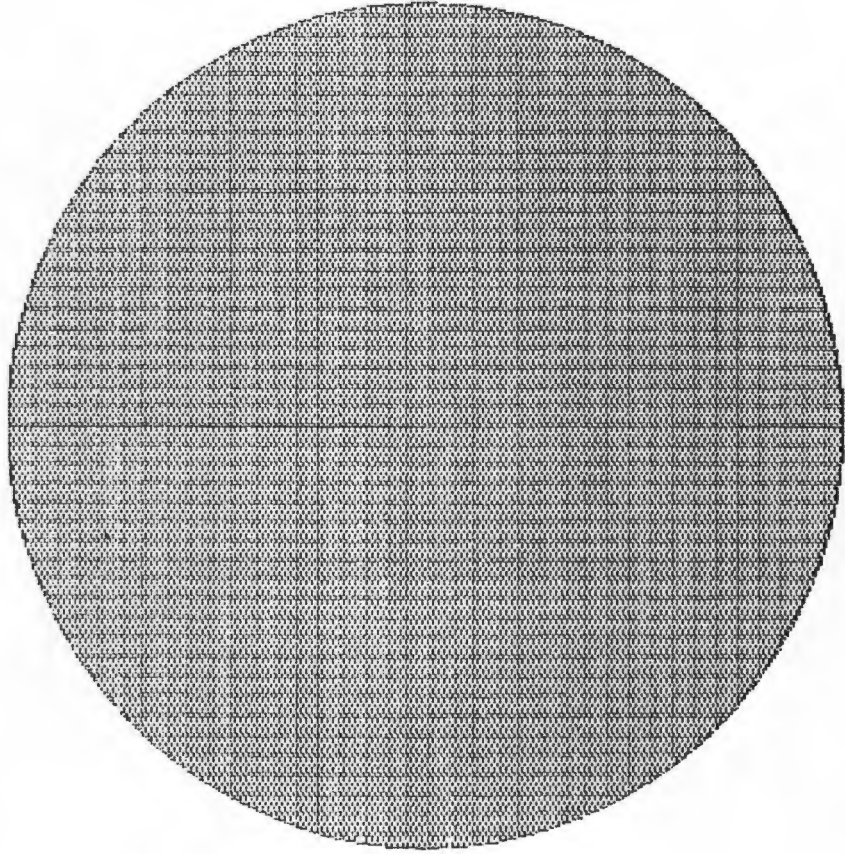
HOSPITALISED=NO PER REASON FOR POISONING



REASON FOR POISONING=SUICIDE WAS PATIENT HOSPITALISED

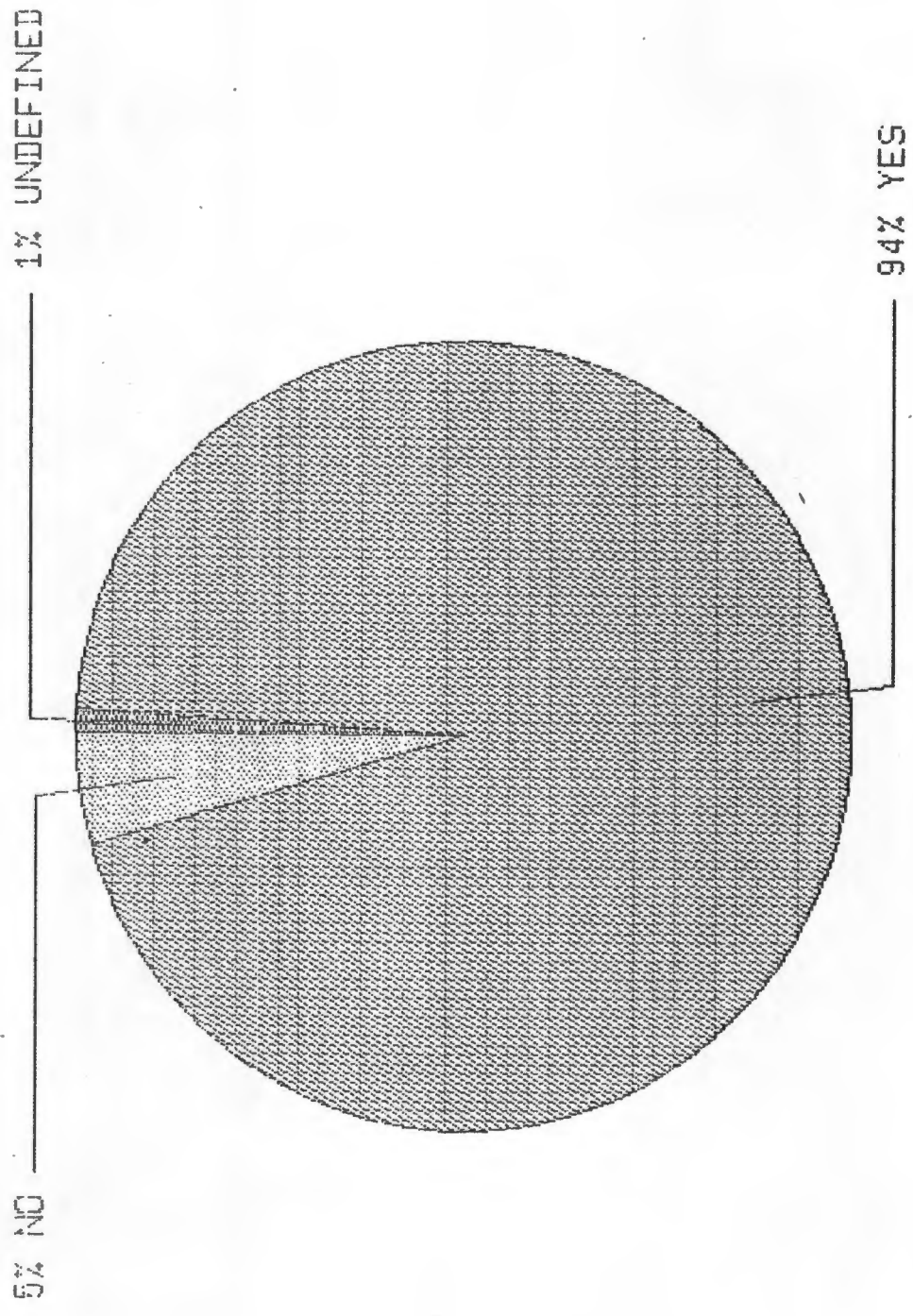


REASON FOR POISONING=MURDER WAS PATIENT HOSPITALISED

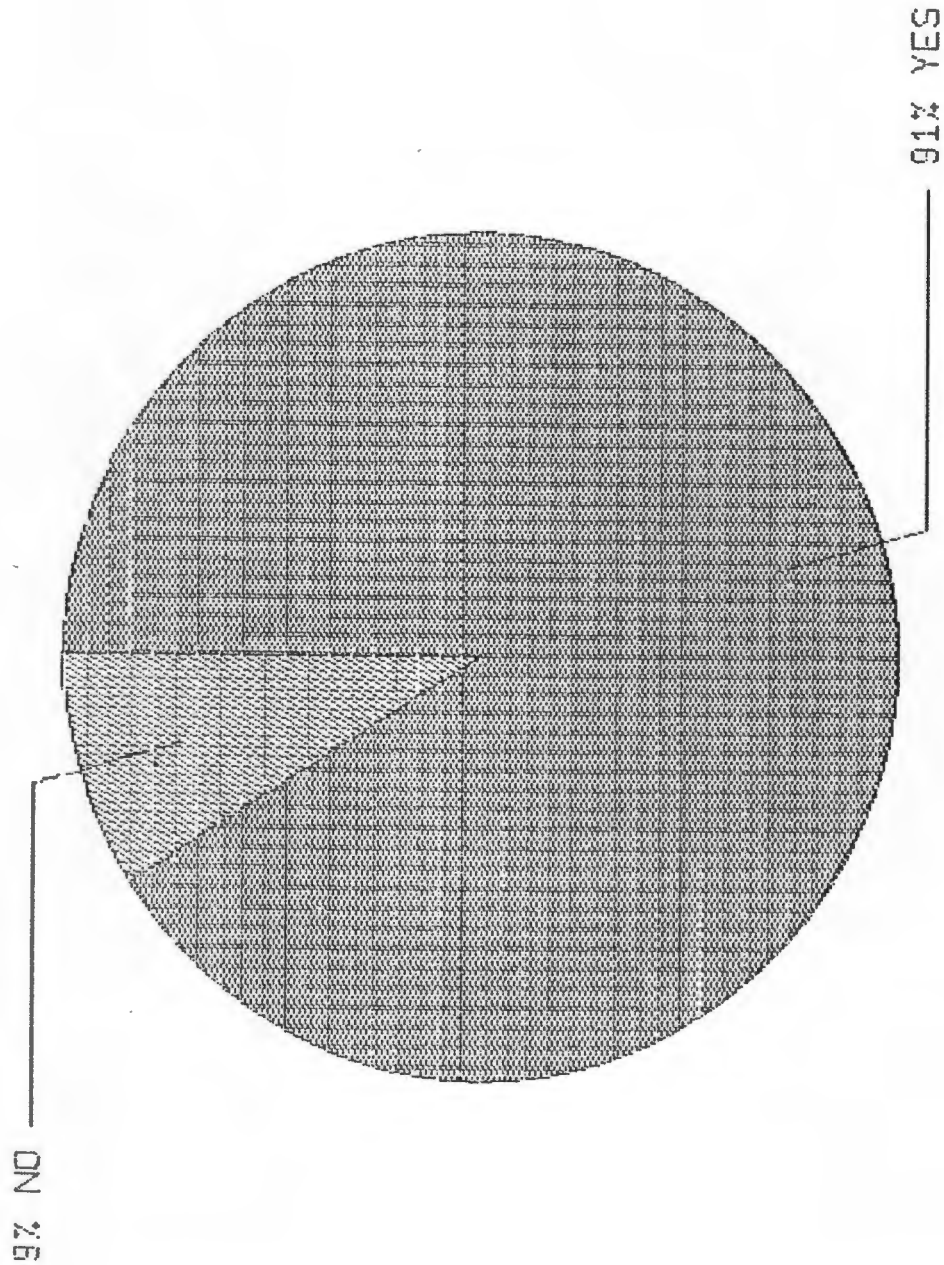


100% YES

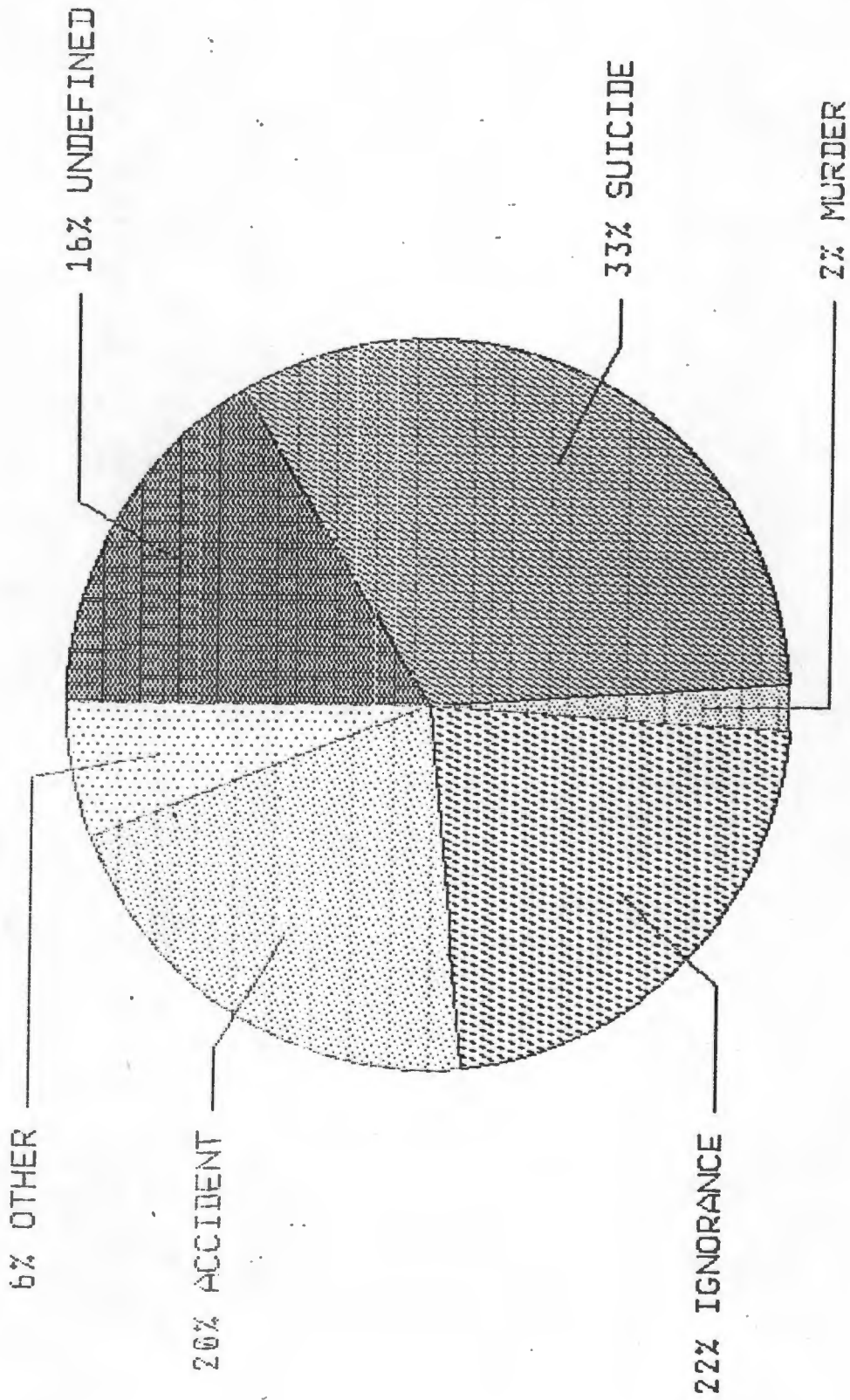
REASON FOR POISONING= IGNORANCE WAS PATIENT HOSPITALISED



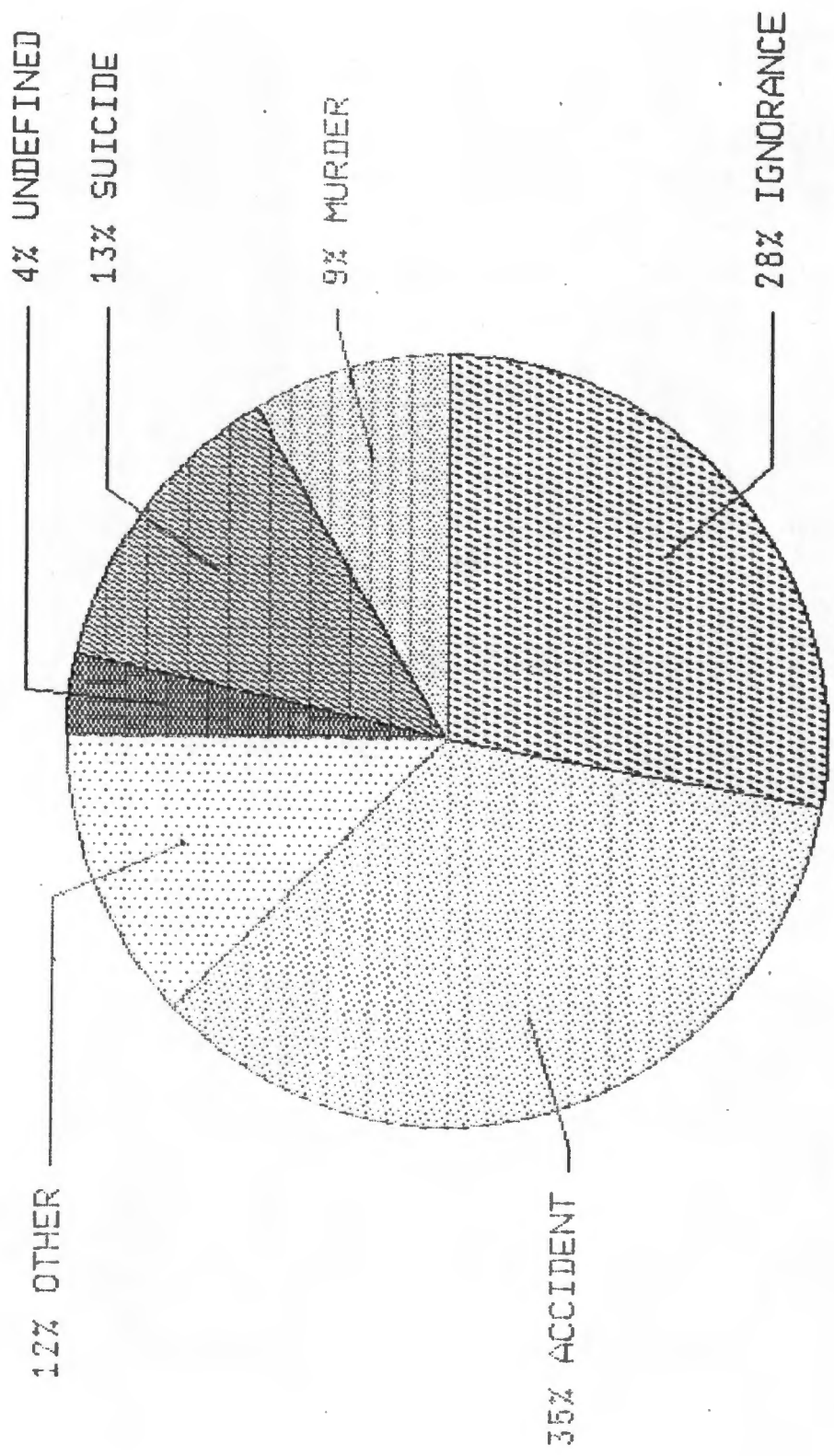
REASON FOR POISONING=ACCIDENT WAS PATIENT HOSPITALISED



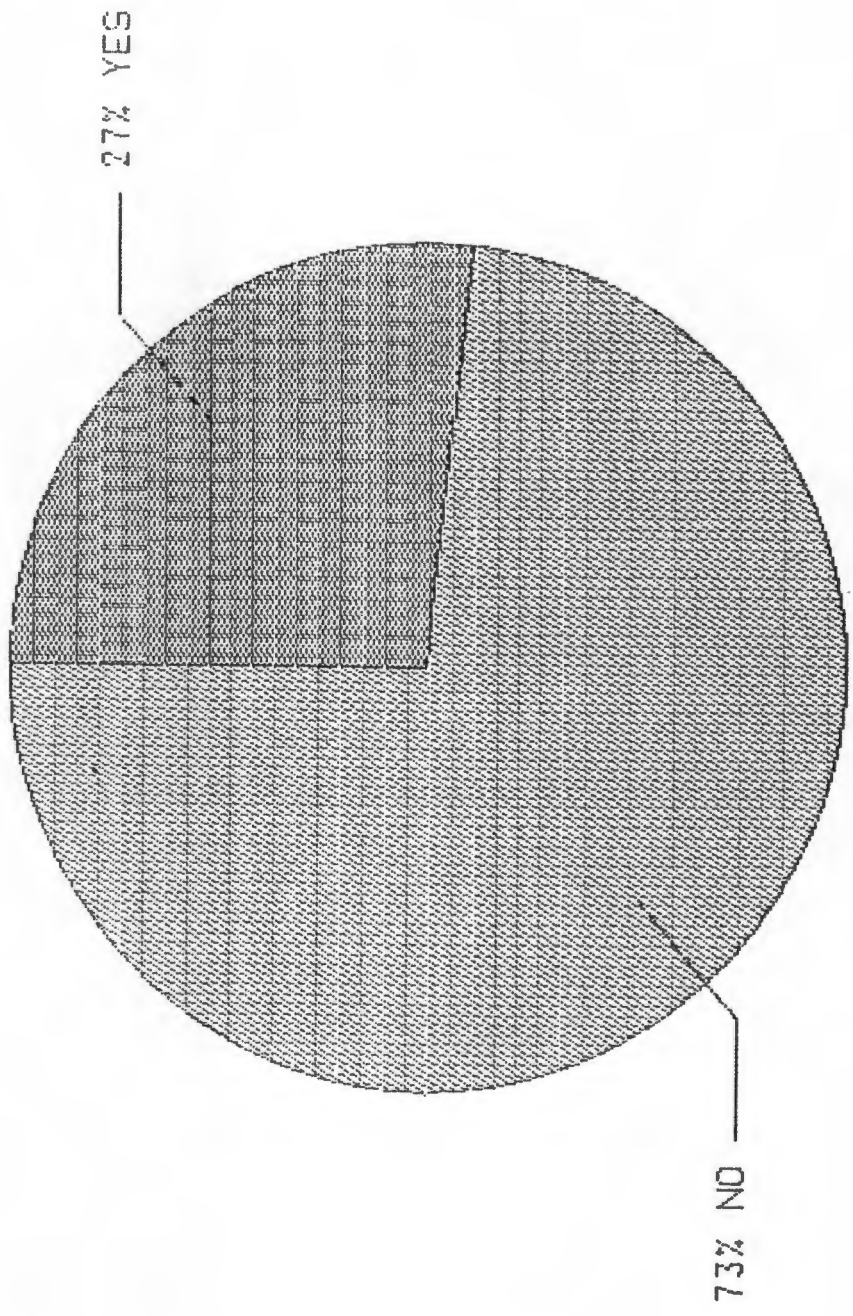
FATAL=YES PER REASON FOR POISONING



FATAL=NO PER REASON FOR POISONING

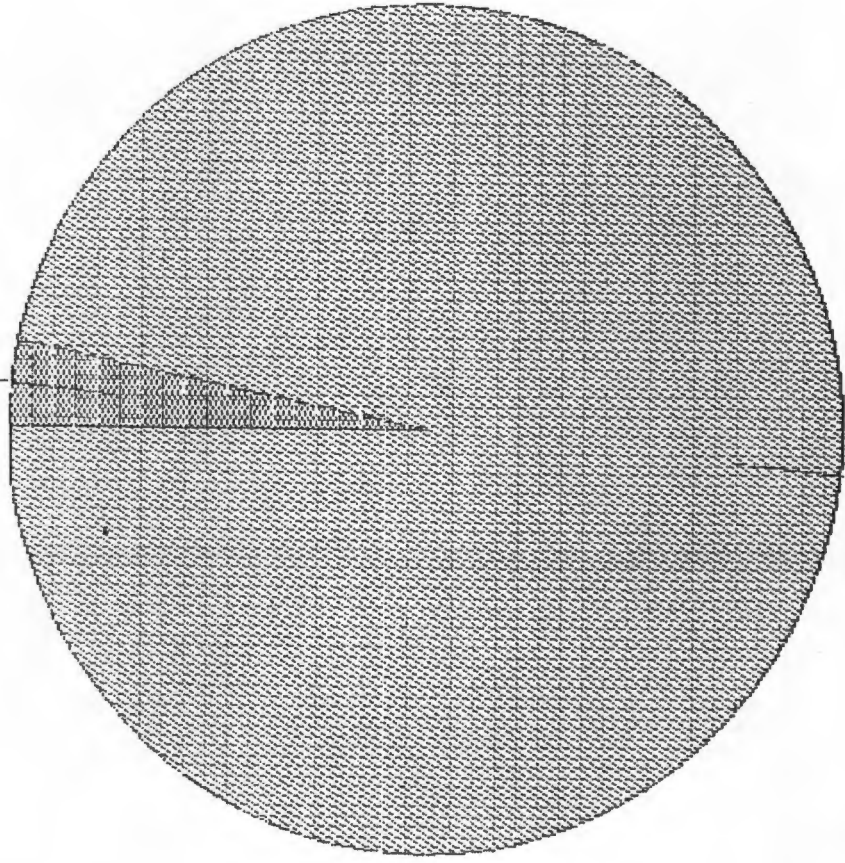


REASON FOR POISONING=SUICIDE WAS PATIENT FATAL



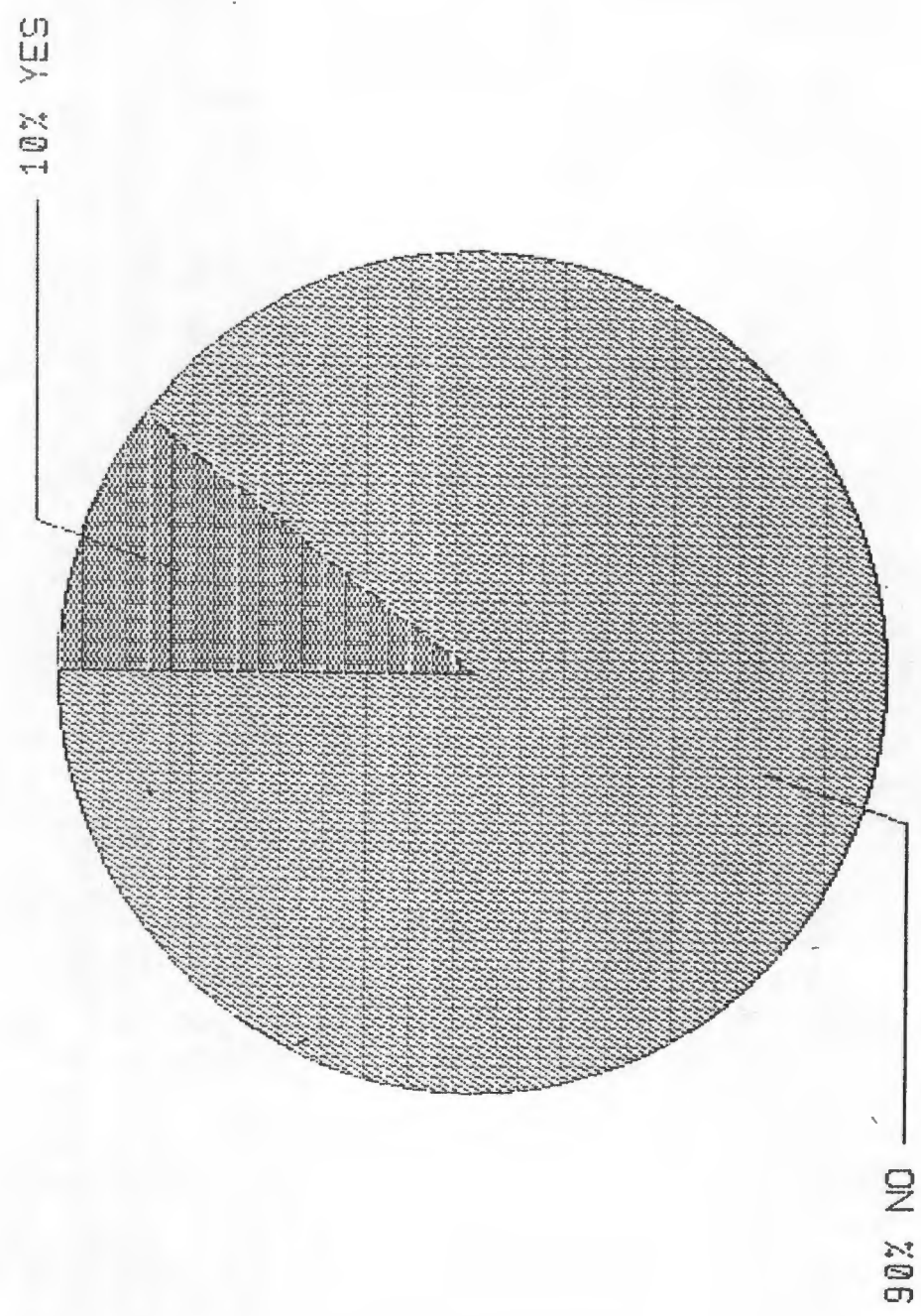
REASON FOR POISONING=MURDER WAS PATIENT FATAL

3% YES



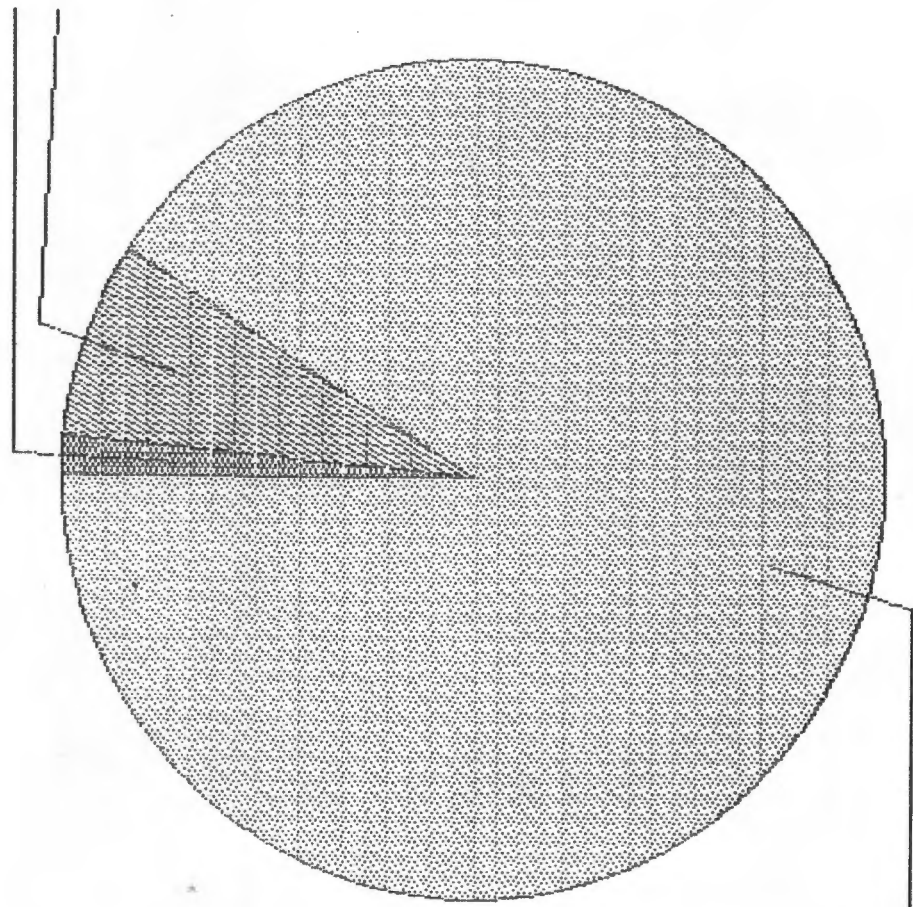
97% NO

REASON FOR POISONING=IGNORANCE WAS PATIENT FATAL



REASON FOR POISONING=ACCIDENT WAS PATIENT FATAL

2% UNDEFINED  
8% YES



91% NO

HOSPITALISED=YES PER POISON GROUP

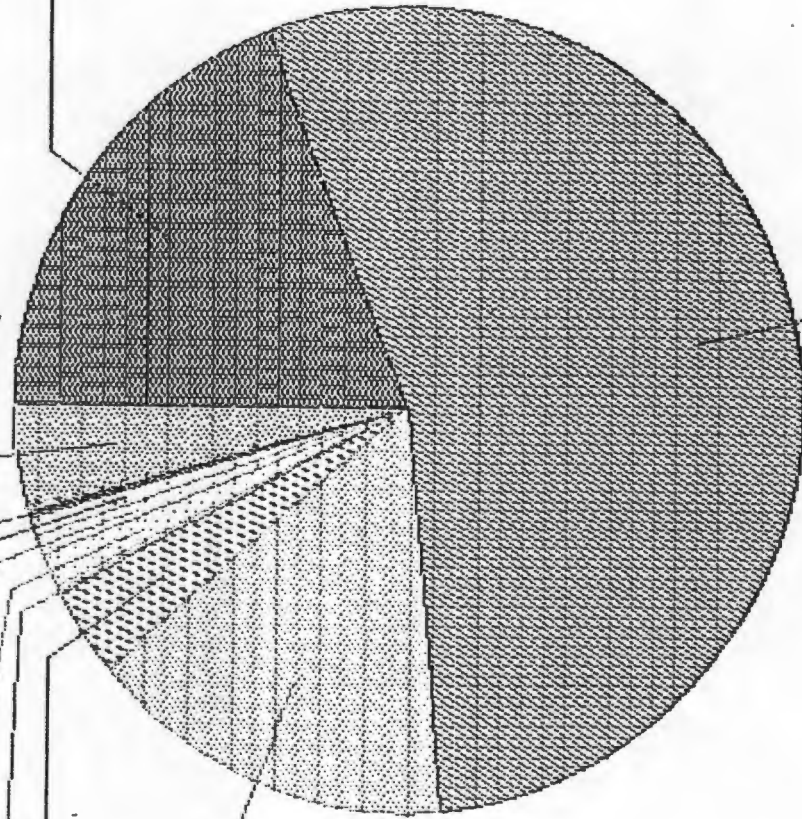
0% DIPYRIDYL  
1% NITRO PHEN  
1% DITHIO CAR  
1% PYRETHROID  
0% ORG NITRO  
4% ORG CHLOR

15% CARBAMATE

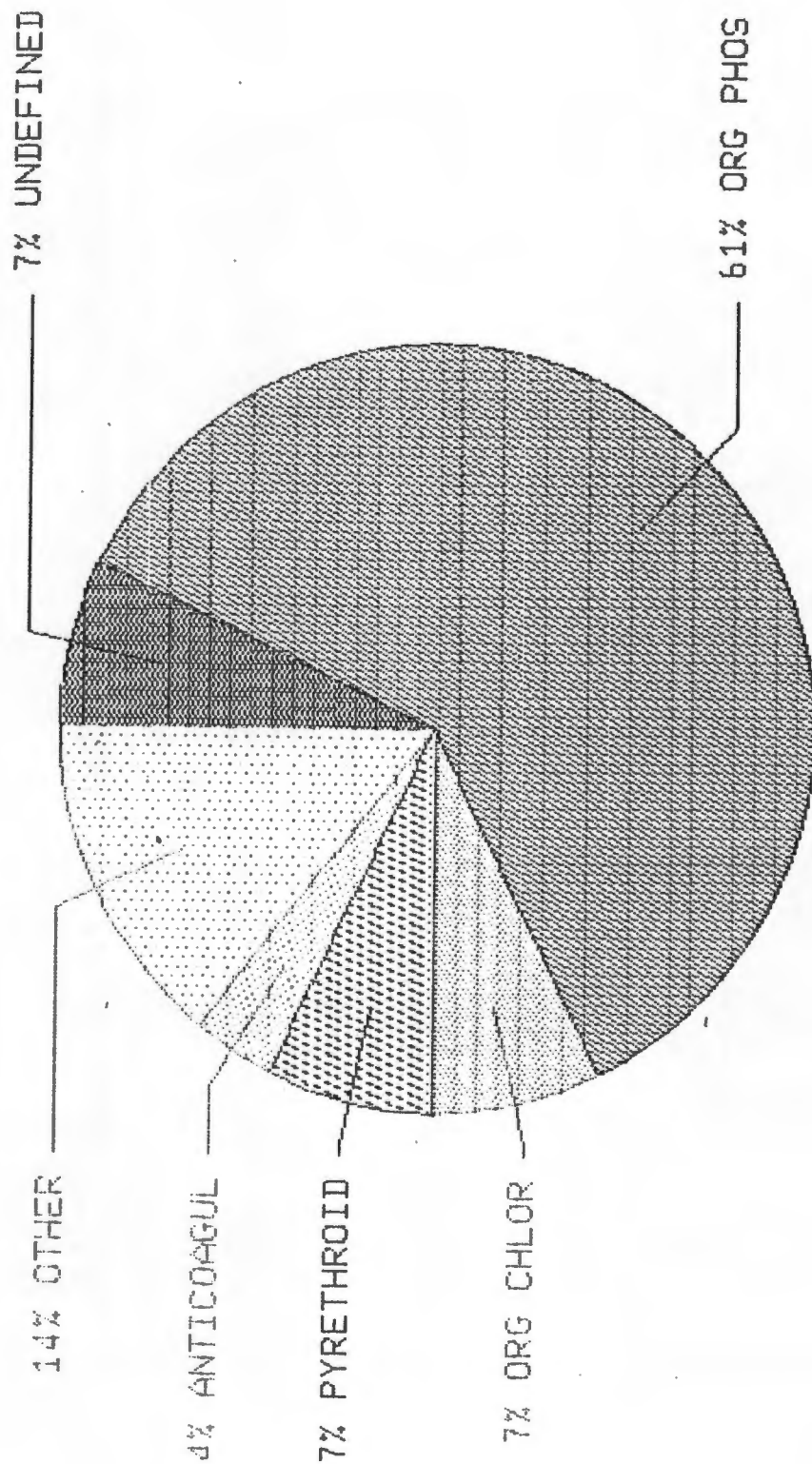
4% OTHER

19% UNDEFINED

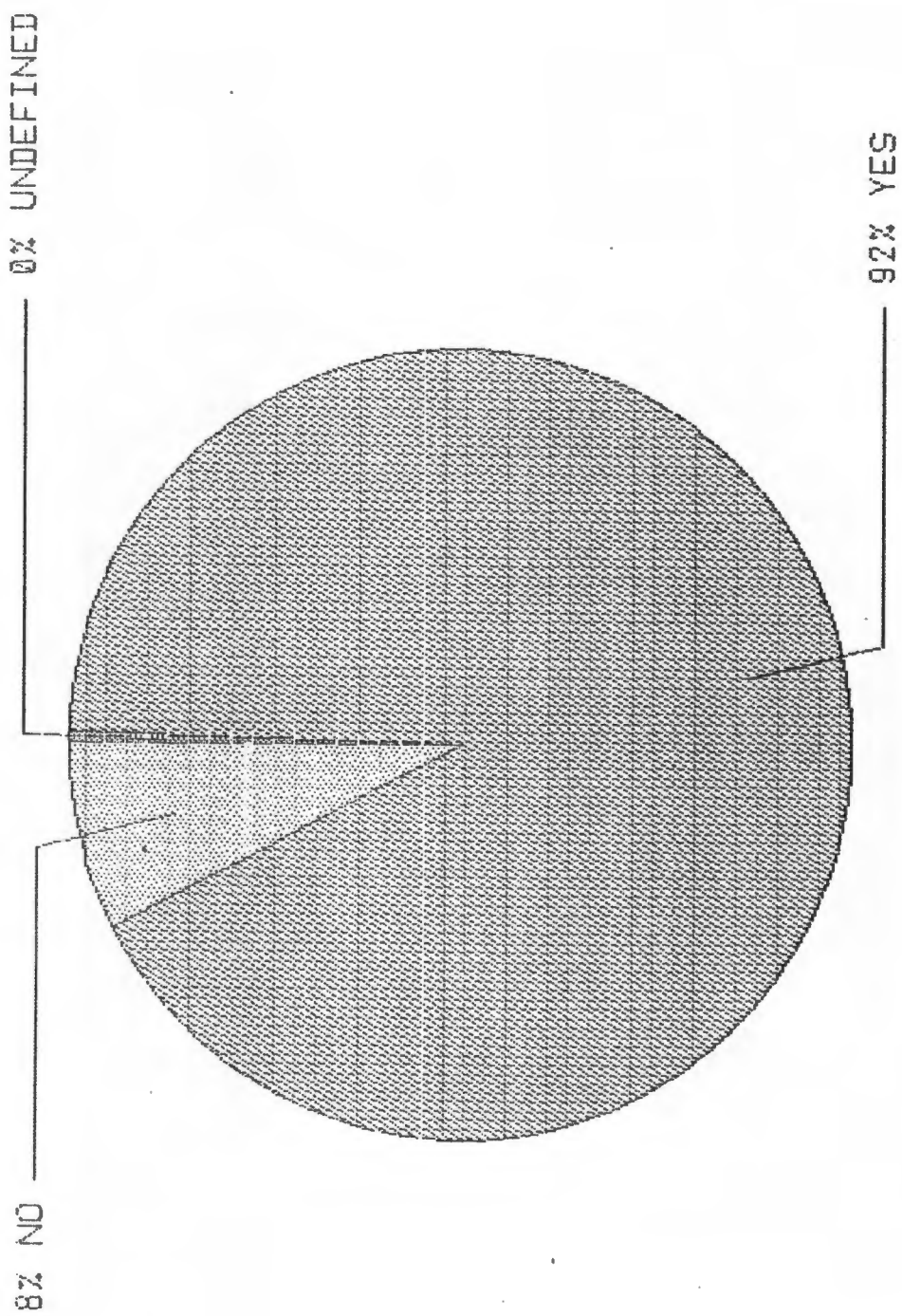
54% ORG PHOS



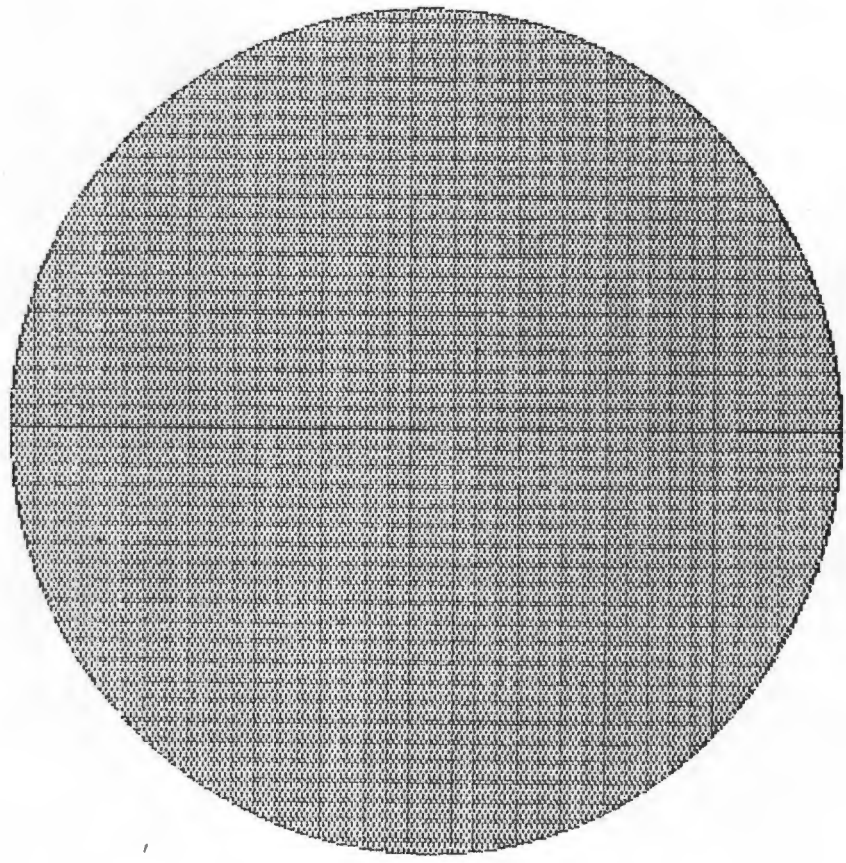
HOSPITALISED=NC PER POISON GROUP



POISONING=ORGANOPHOSPHATE/WAS PATIENT HOSPITALISED

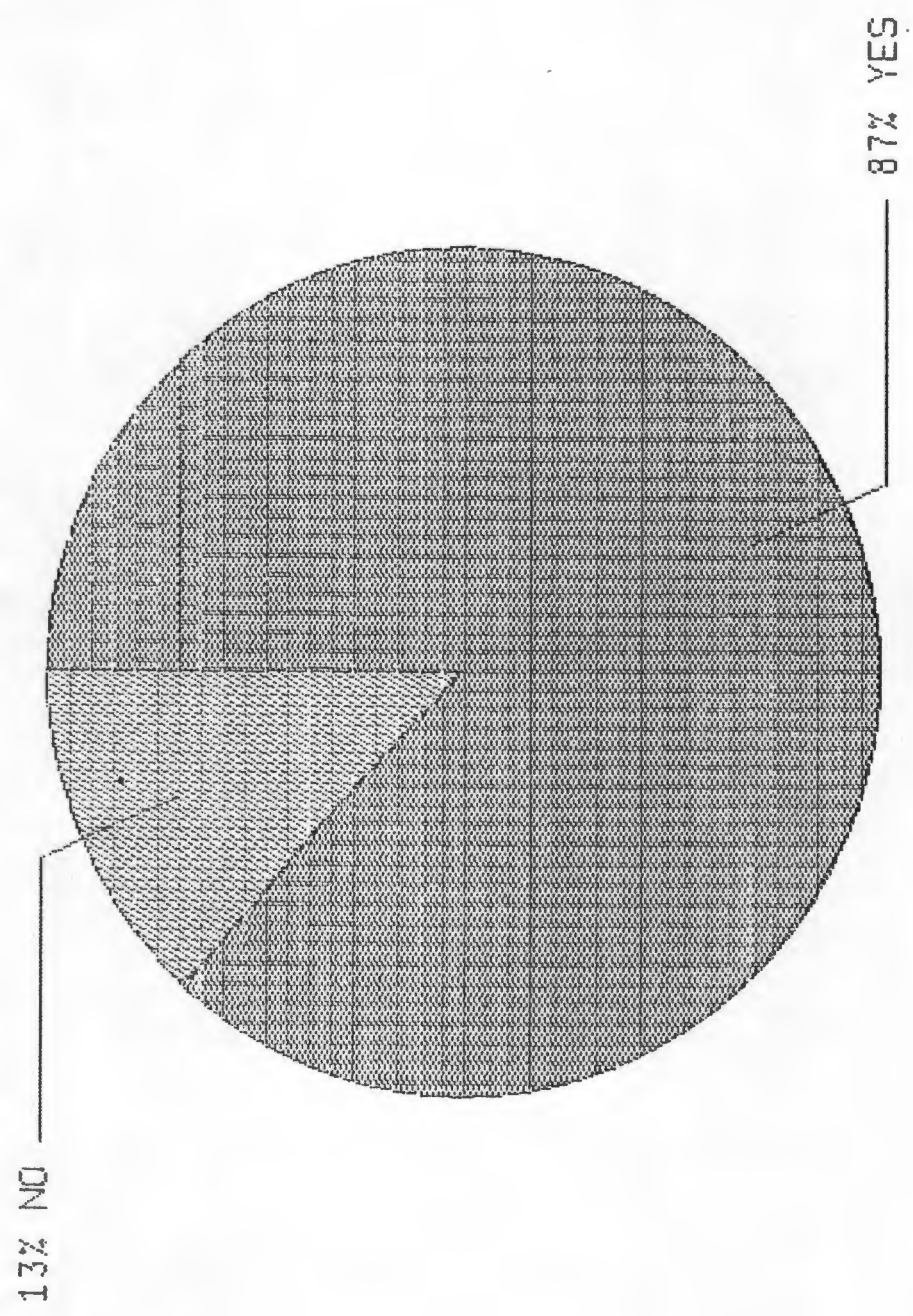


POISONING = CARBAMATE / WAS PATIENT HOSPITALISED

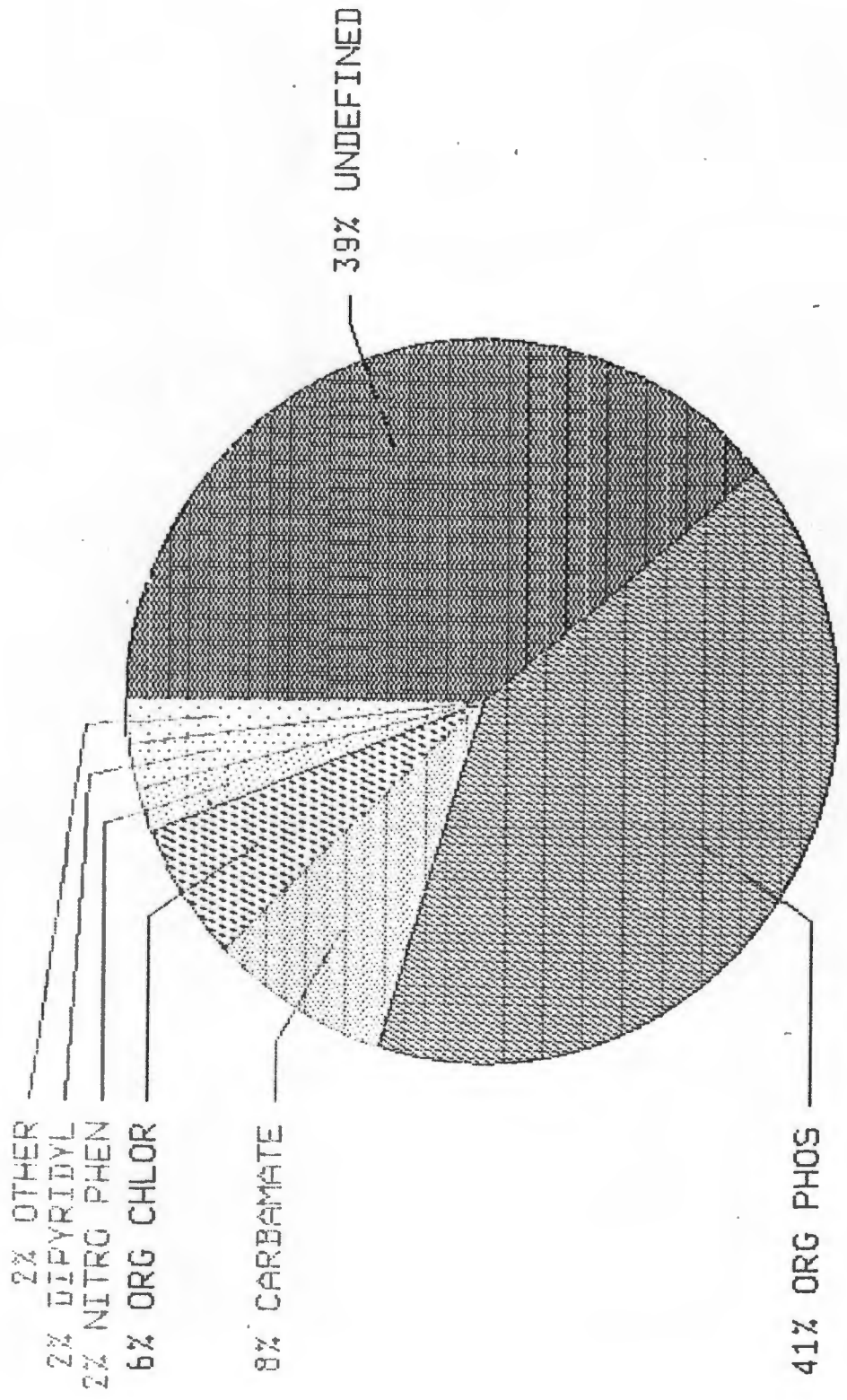


100% YES

POISONING=ORGANOCHLORINE /WAS PATIENT HOSPITALISED

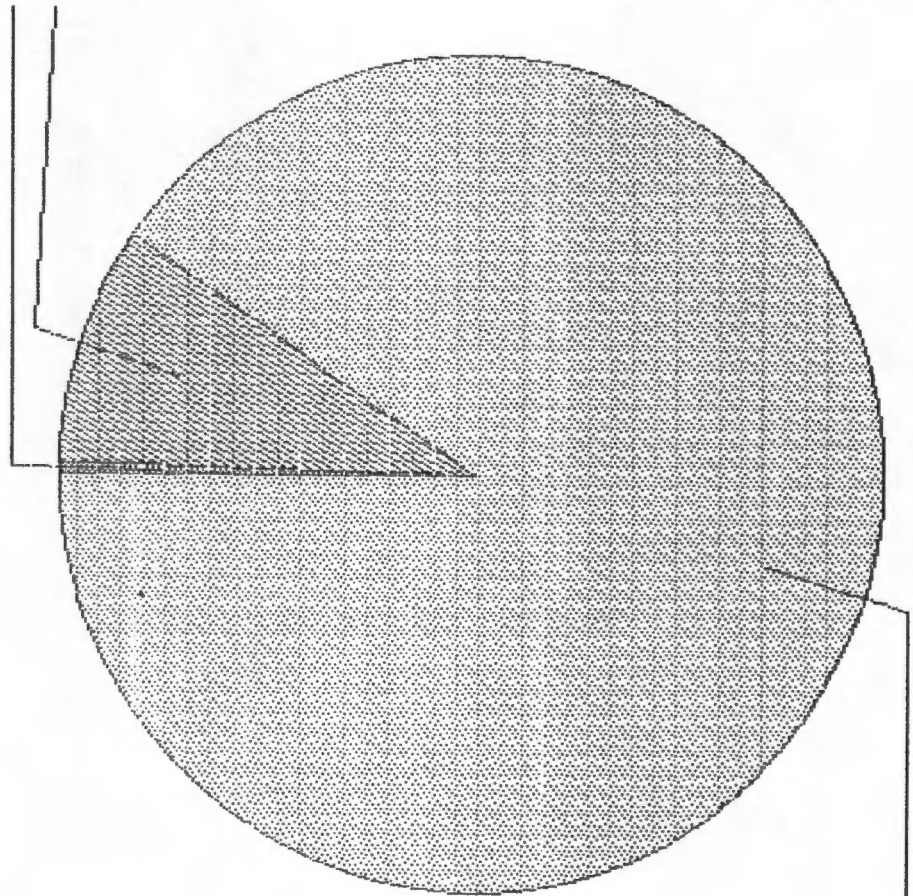


FATAL=YES PER POISON GROUP



POISONING = ORGANOPHOSPHATE / WAS PATIENT FATAL

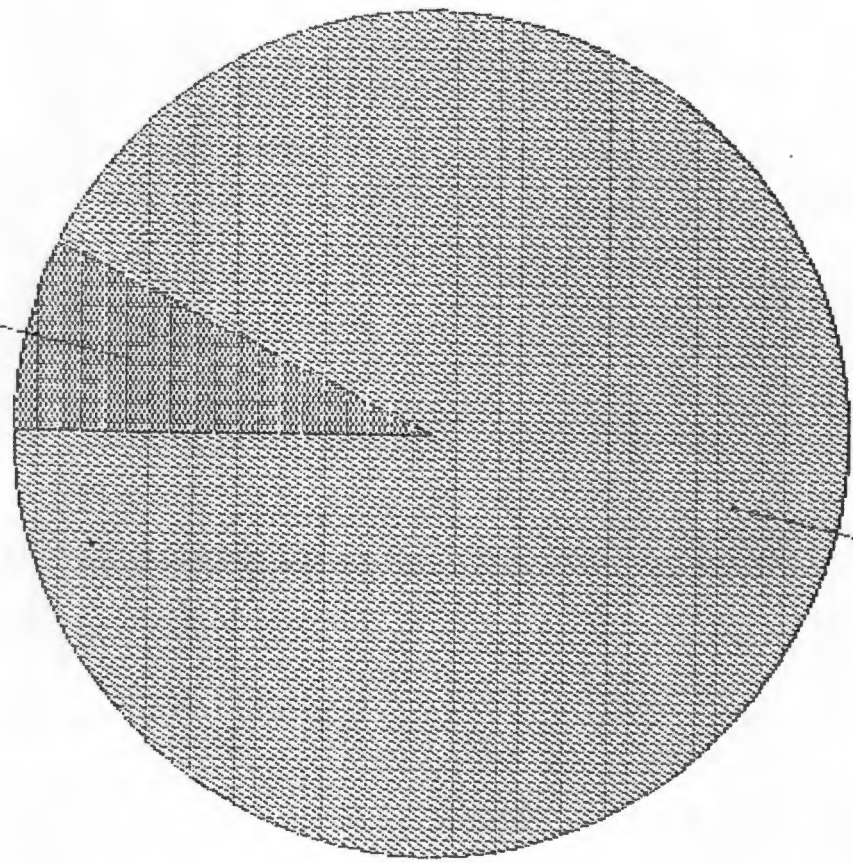
0% UNDEFINED  
9% YES



90% NO

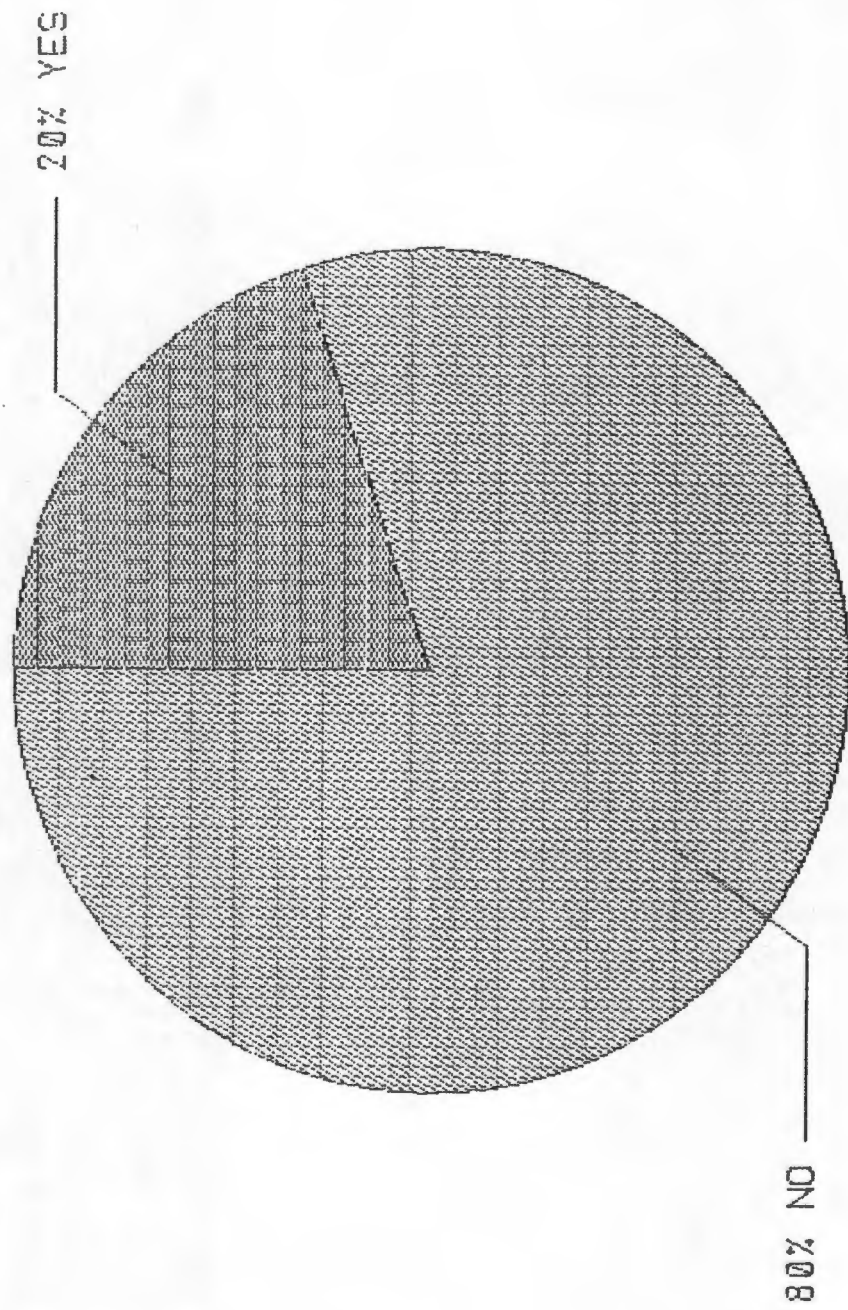
POISONING = CARBAMATE / WAS PATIENT FATAL

7% YES

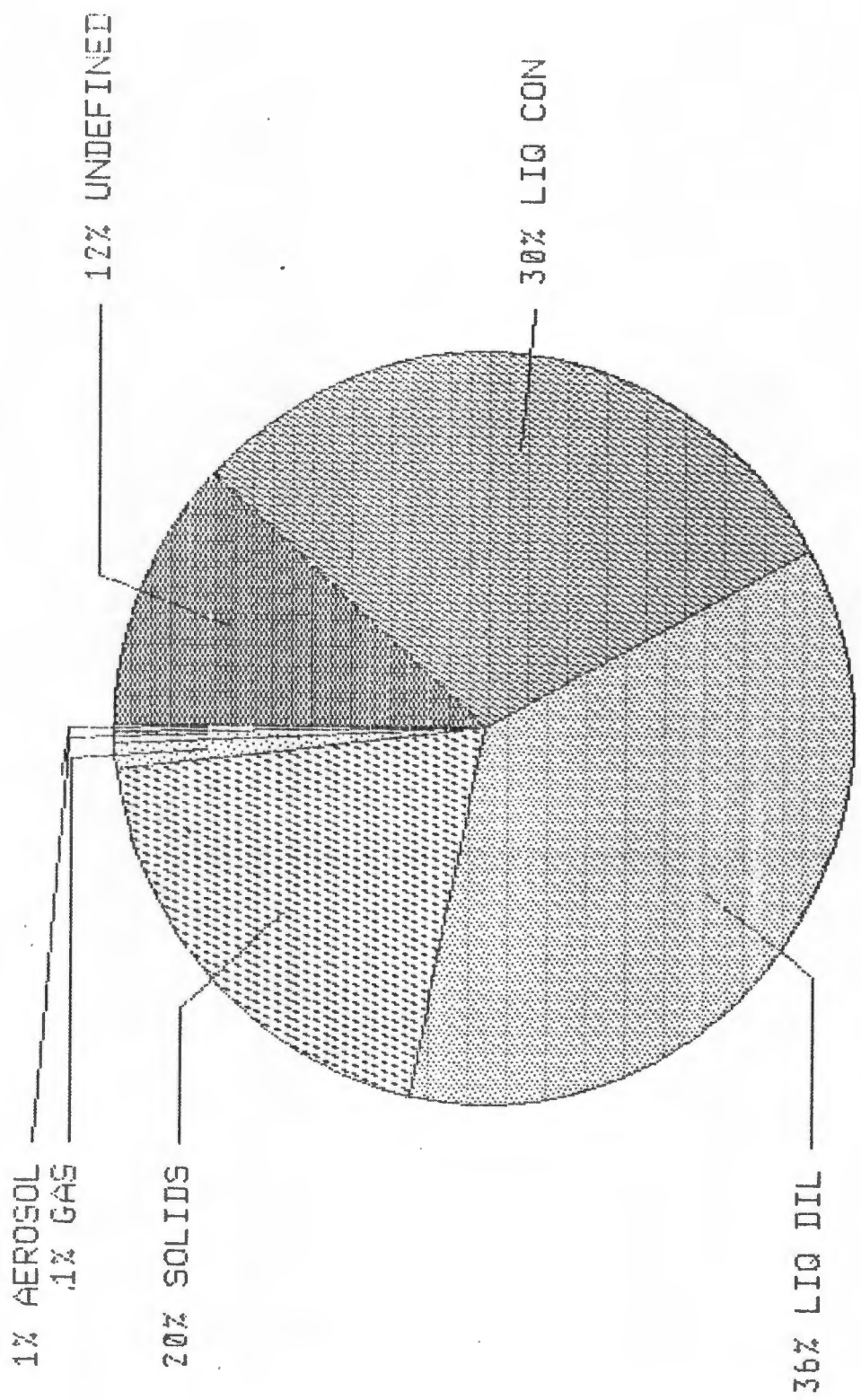


93% NO

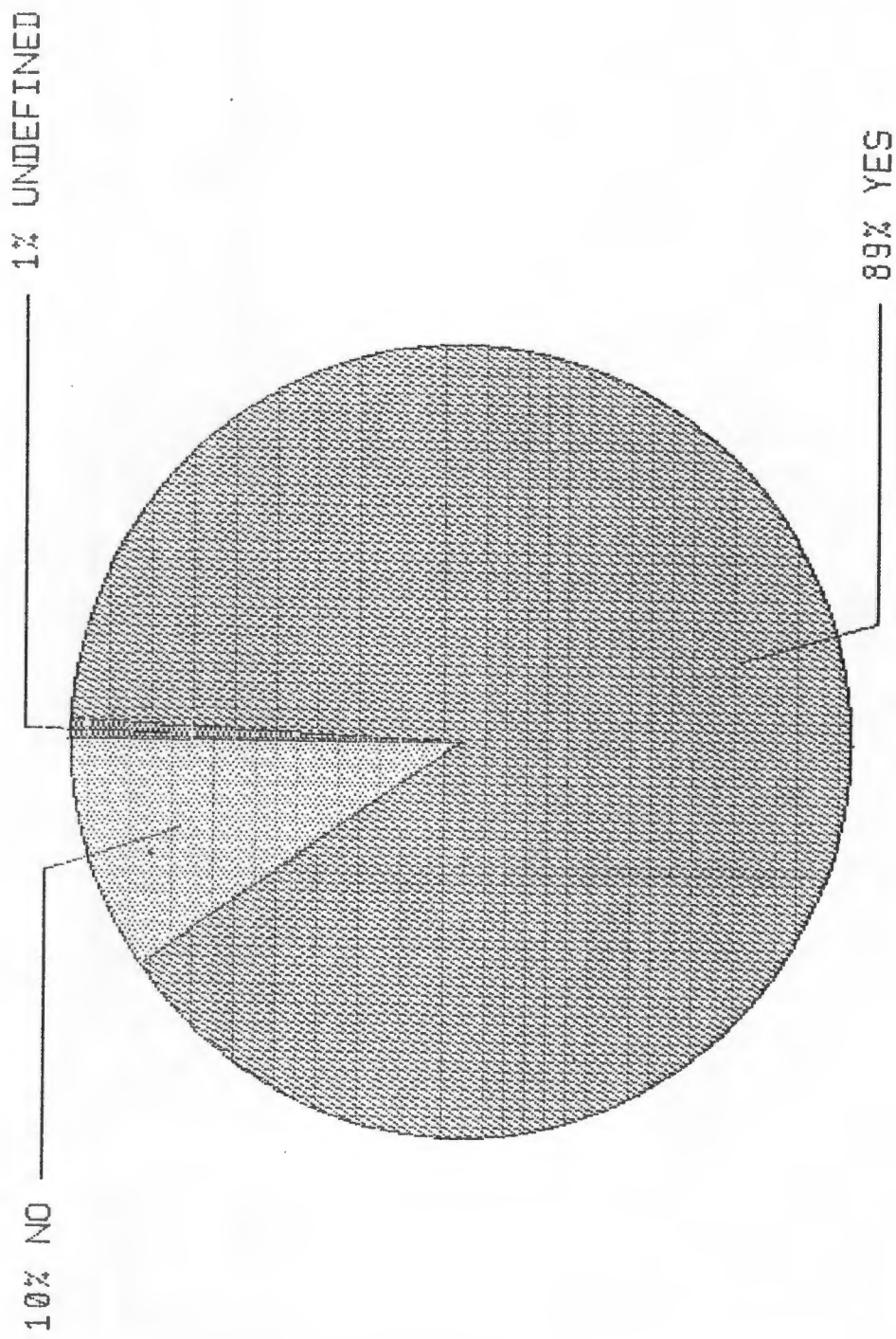
POISONING=ORGANOCHLORINE /WAS PATIENT FATAL



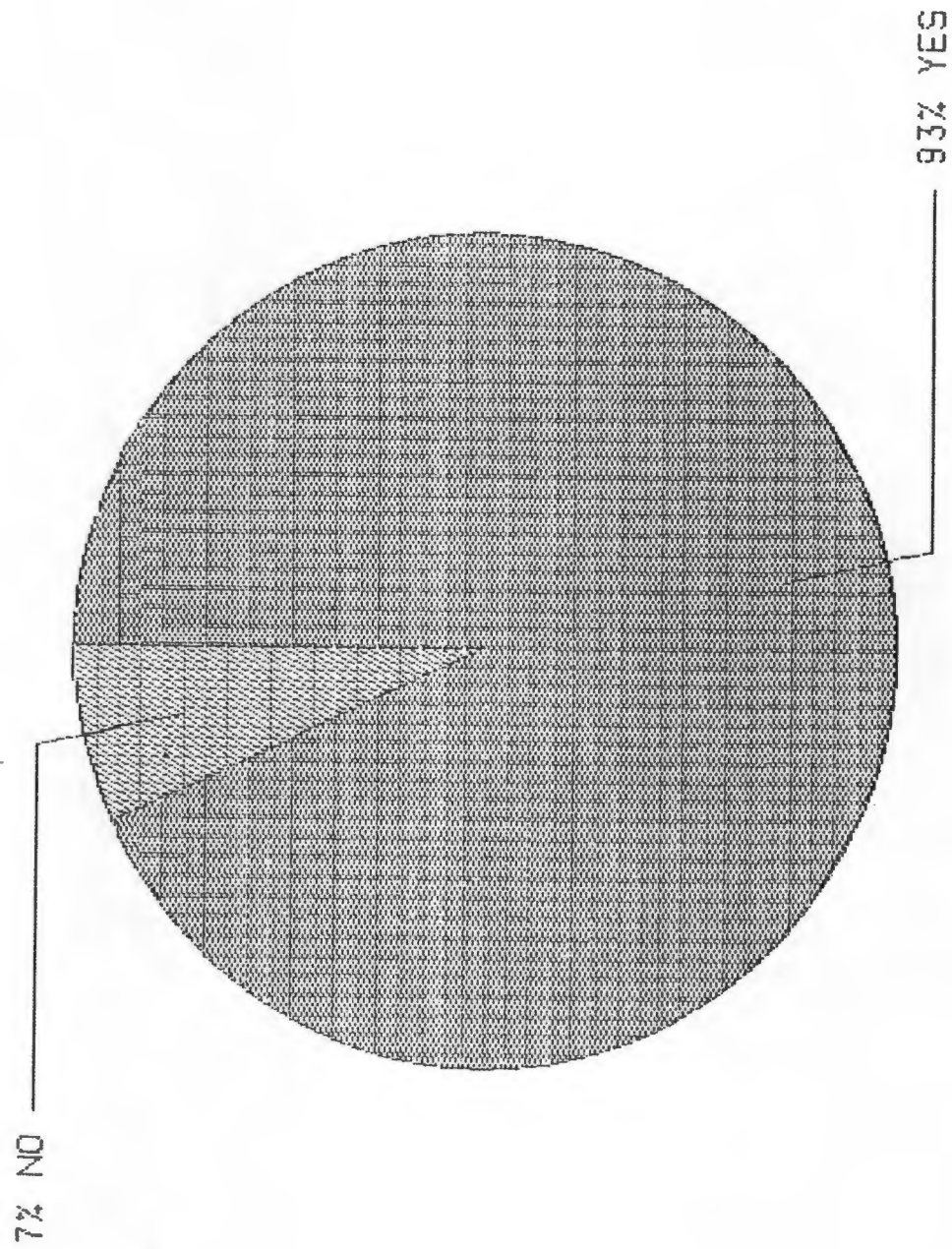
# HOSPITALISED=YES PER POISON DESCRIPTION



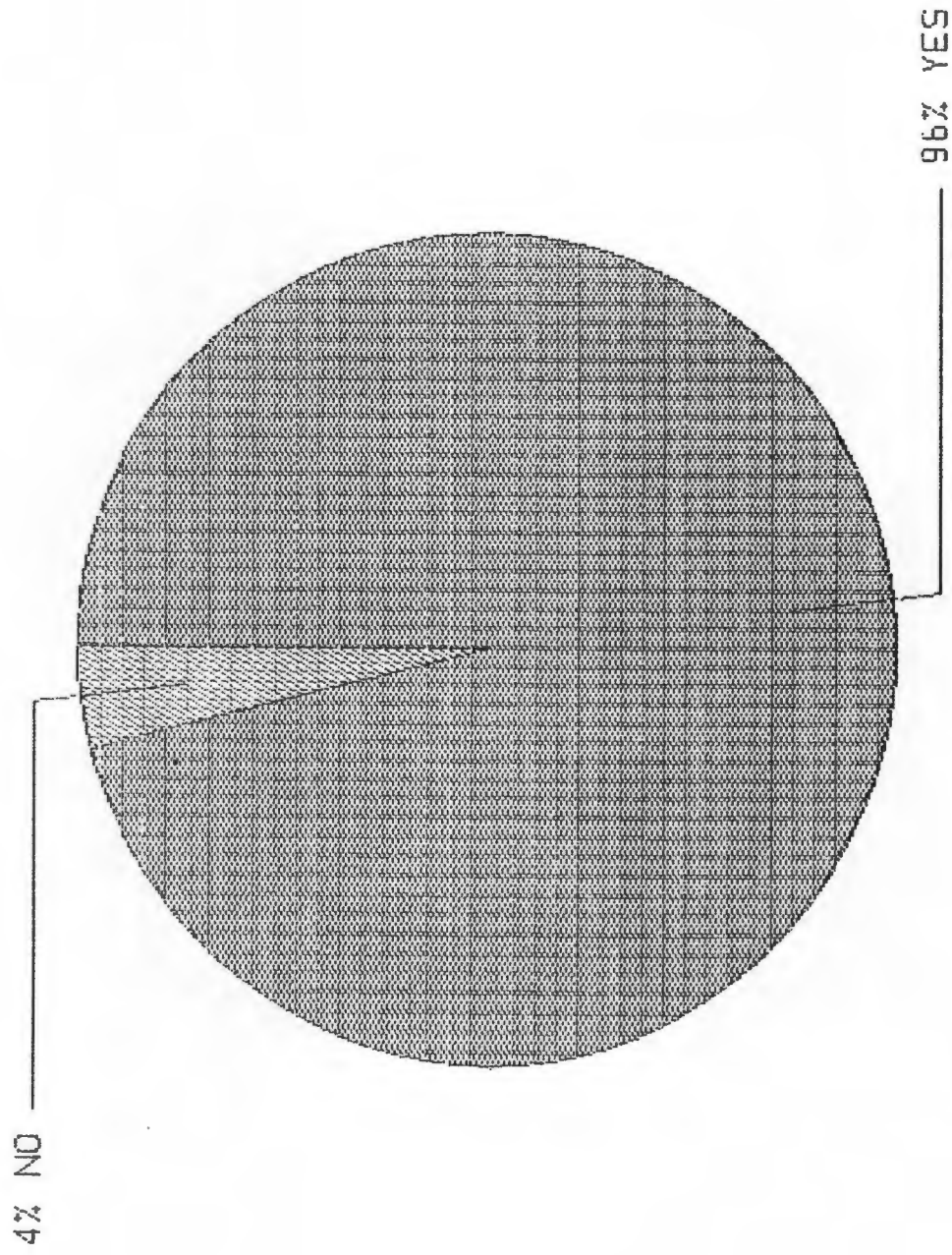
HOSPITALISED PER POISON DESCRIPTION = LIQUID CONCENTRATED



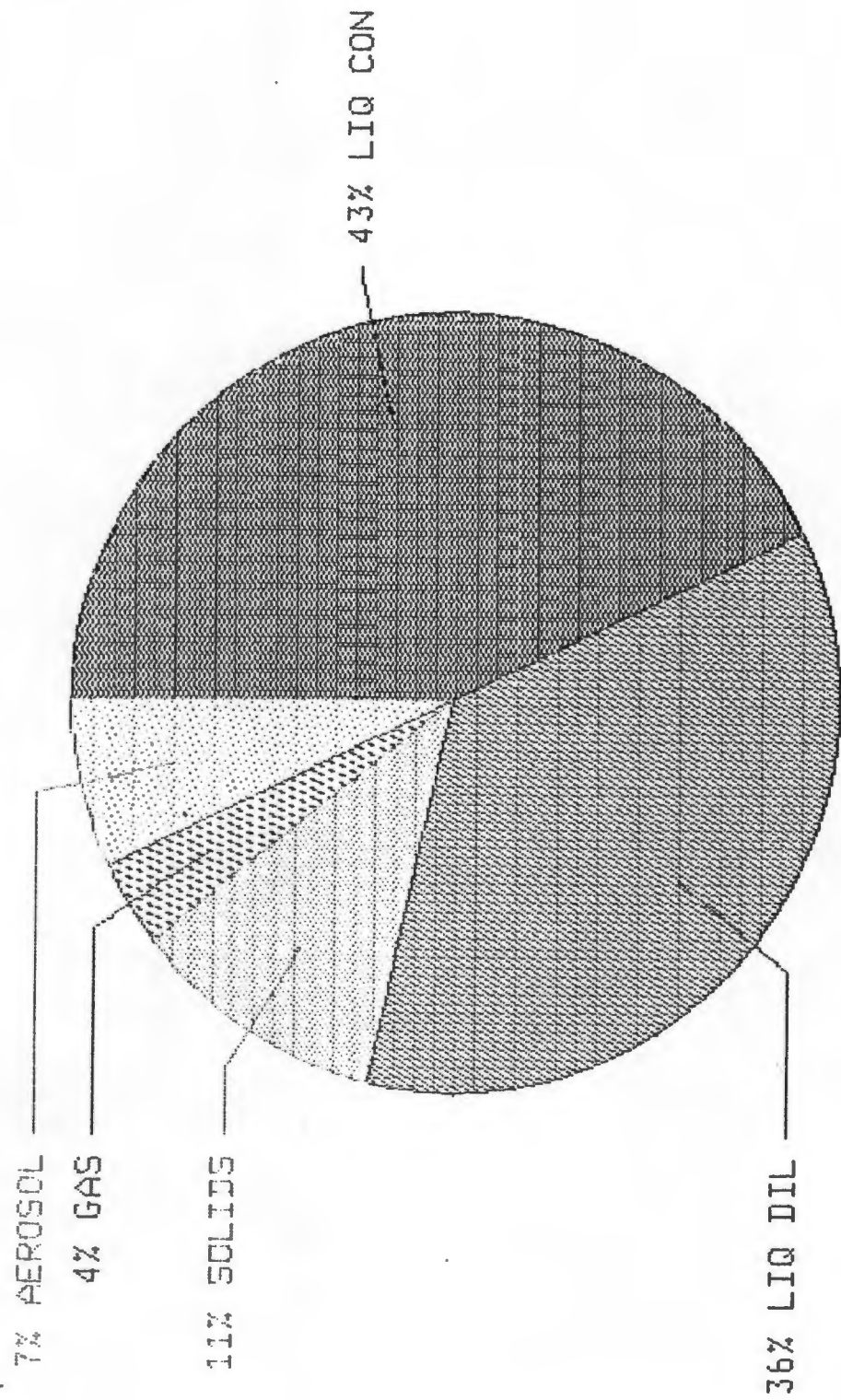
# HOSPITALISED PER POISON DESCRIPTION = LIQUID DILUTED



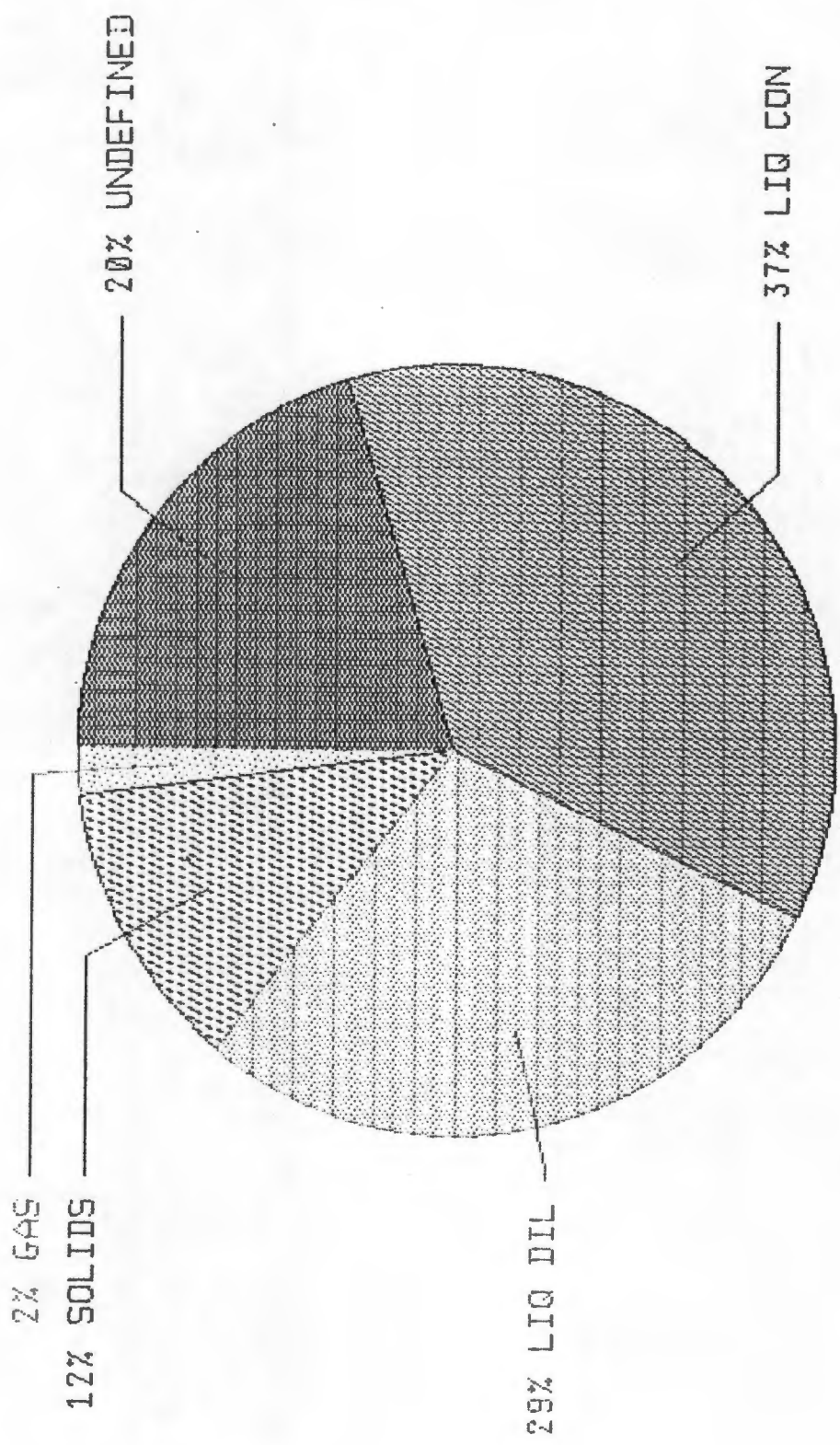
HOSPITALISED PER POISON DESCRIPTION = SOLID MATTER



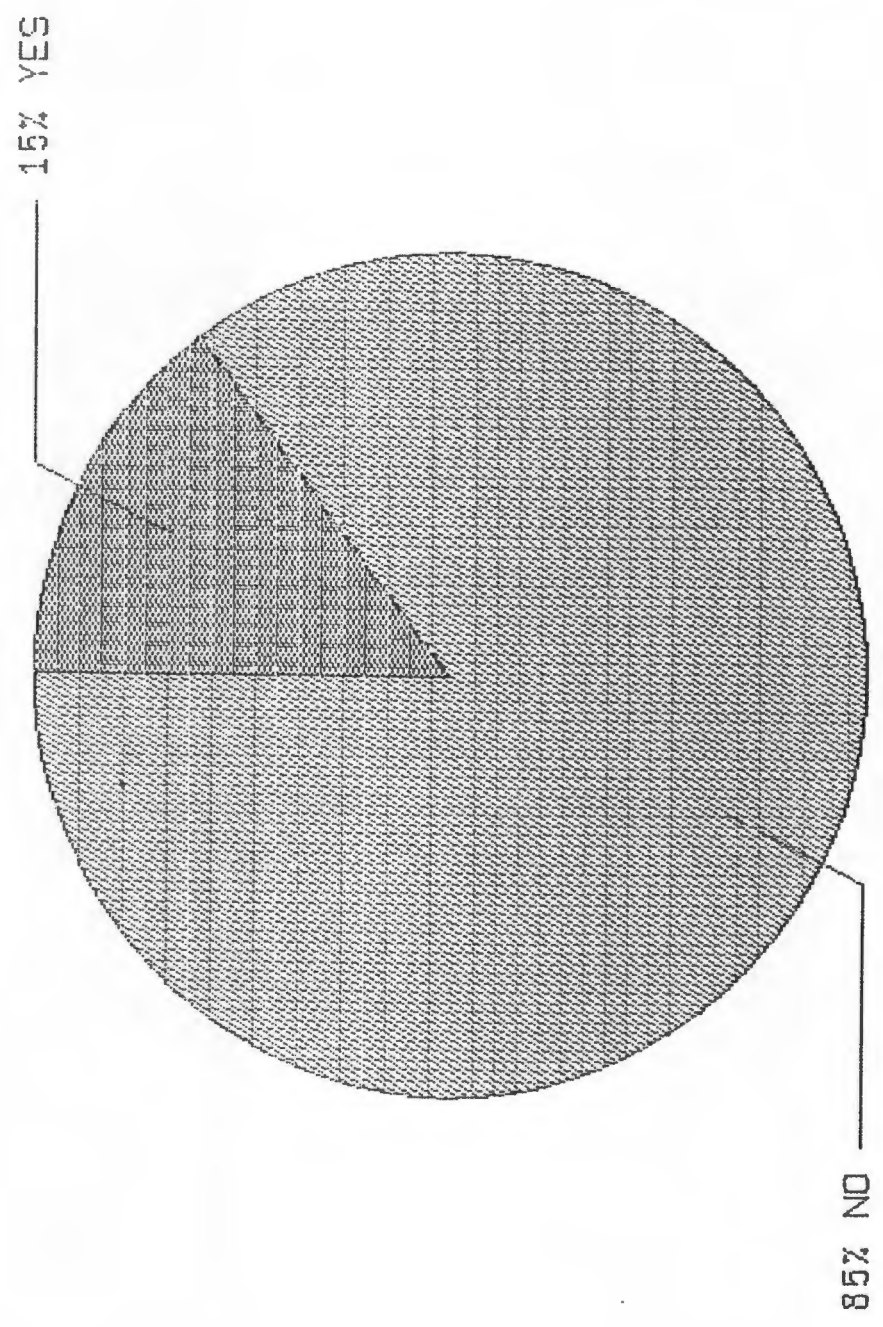
HOSPITALISED=NO PER POISON DESCRIPTION



FATAL=YES PER POISON DESCRIPTION

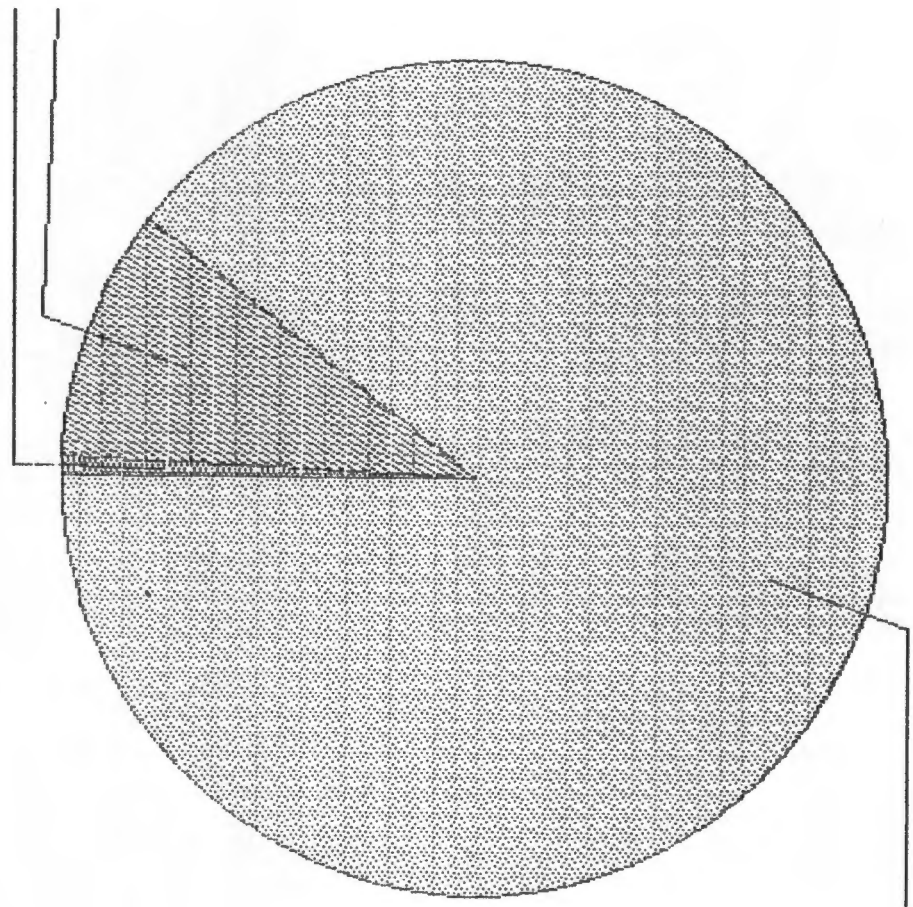


FATAL PER POISON DESCRIPTION = LIQUID CONCENTRATED



FATAL PER POISON DESCRIPTION = LIQUID DILUTED

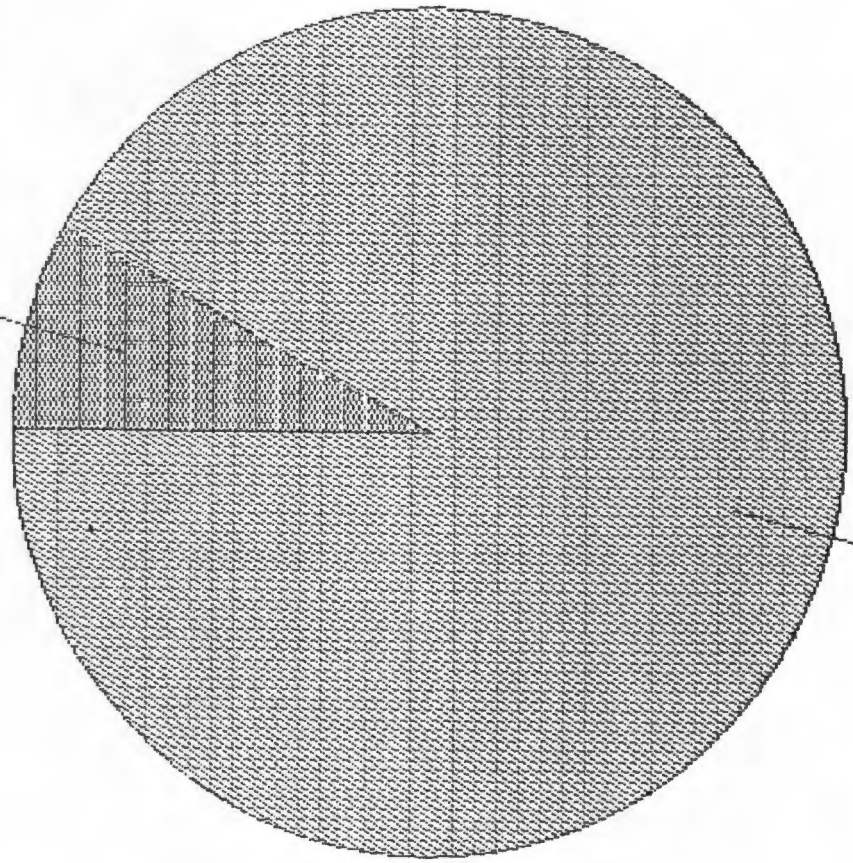
1% UNDEFINED  
10% YES



89% NO

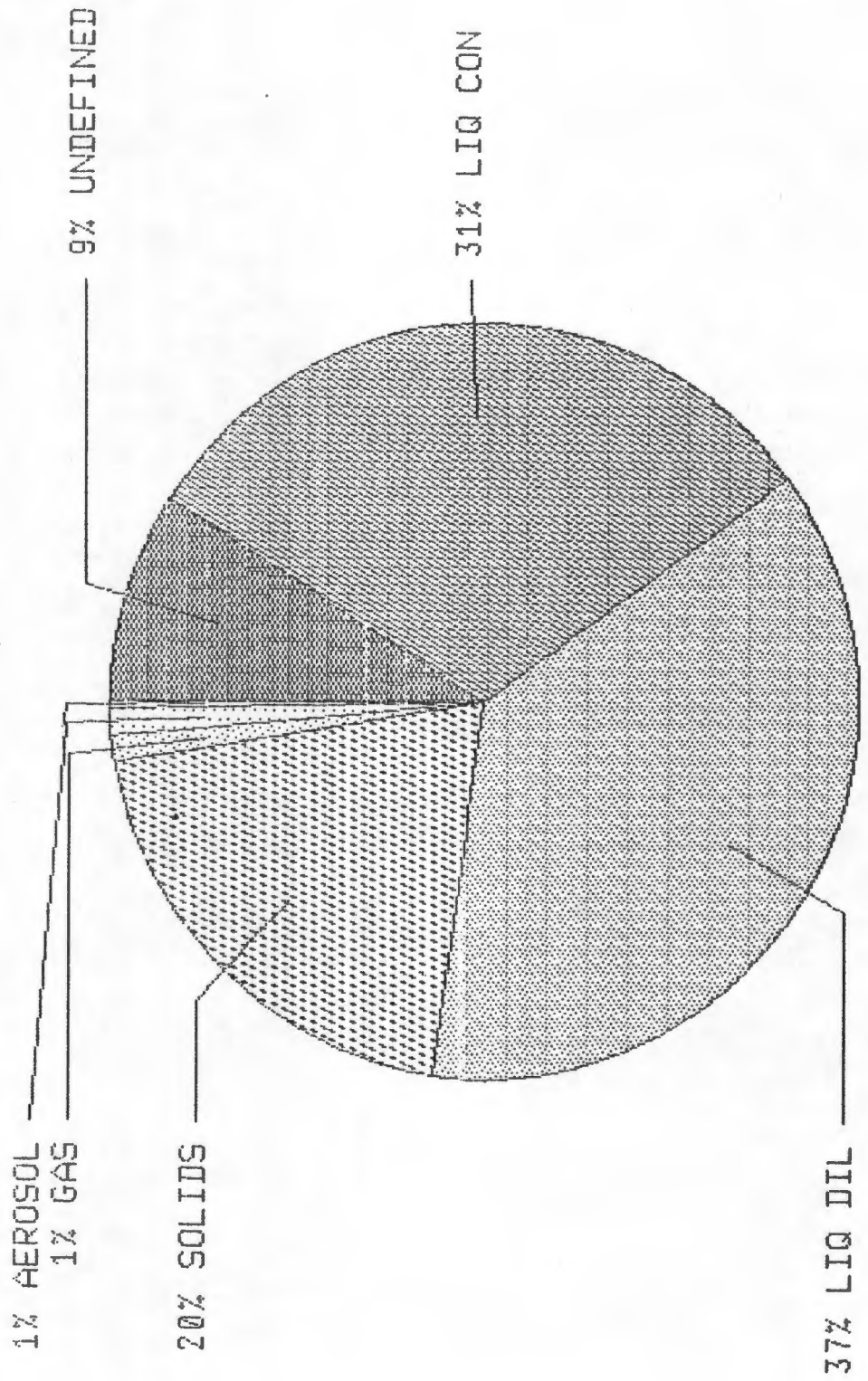
FATAL PER POISON DESCRIPTION = SOLID MATTER

8% YES

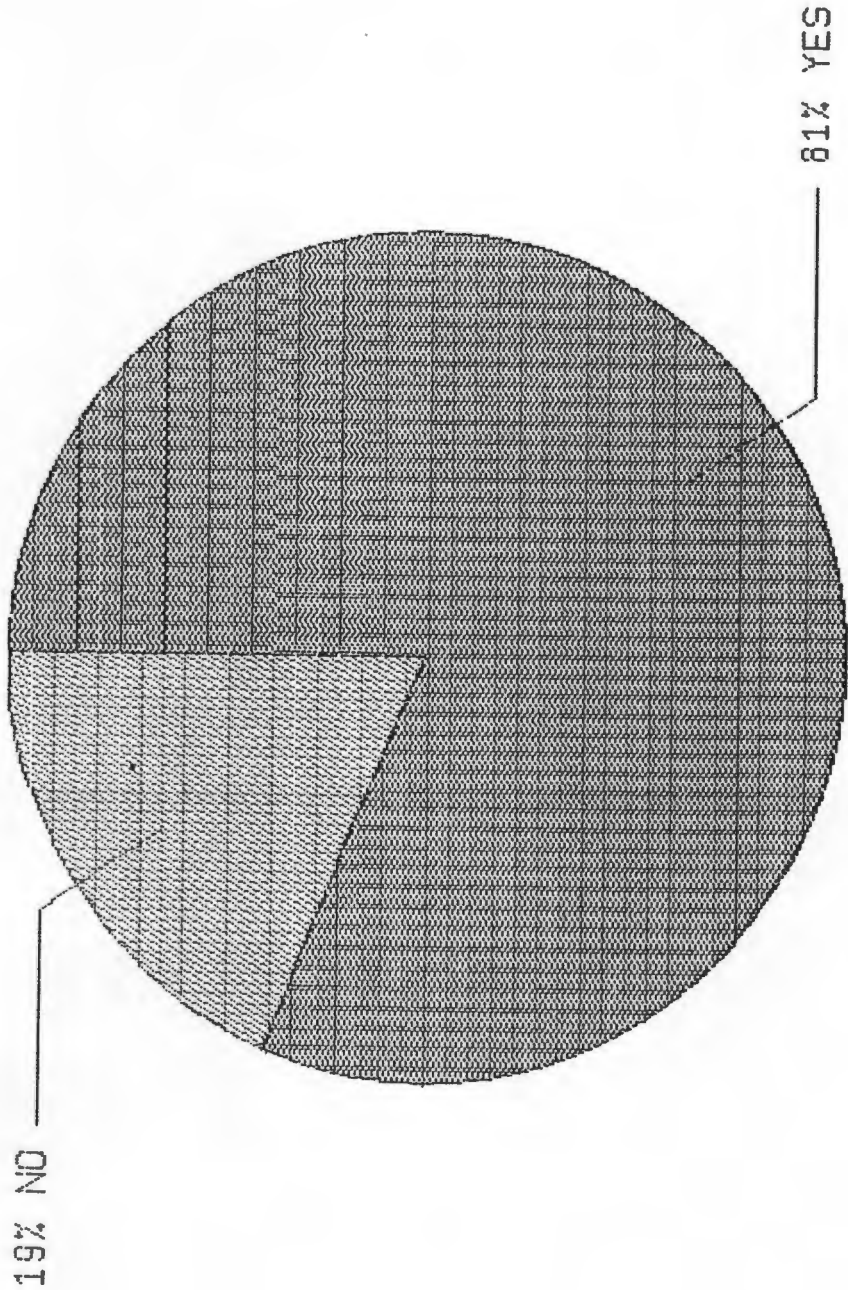


92% NO

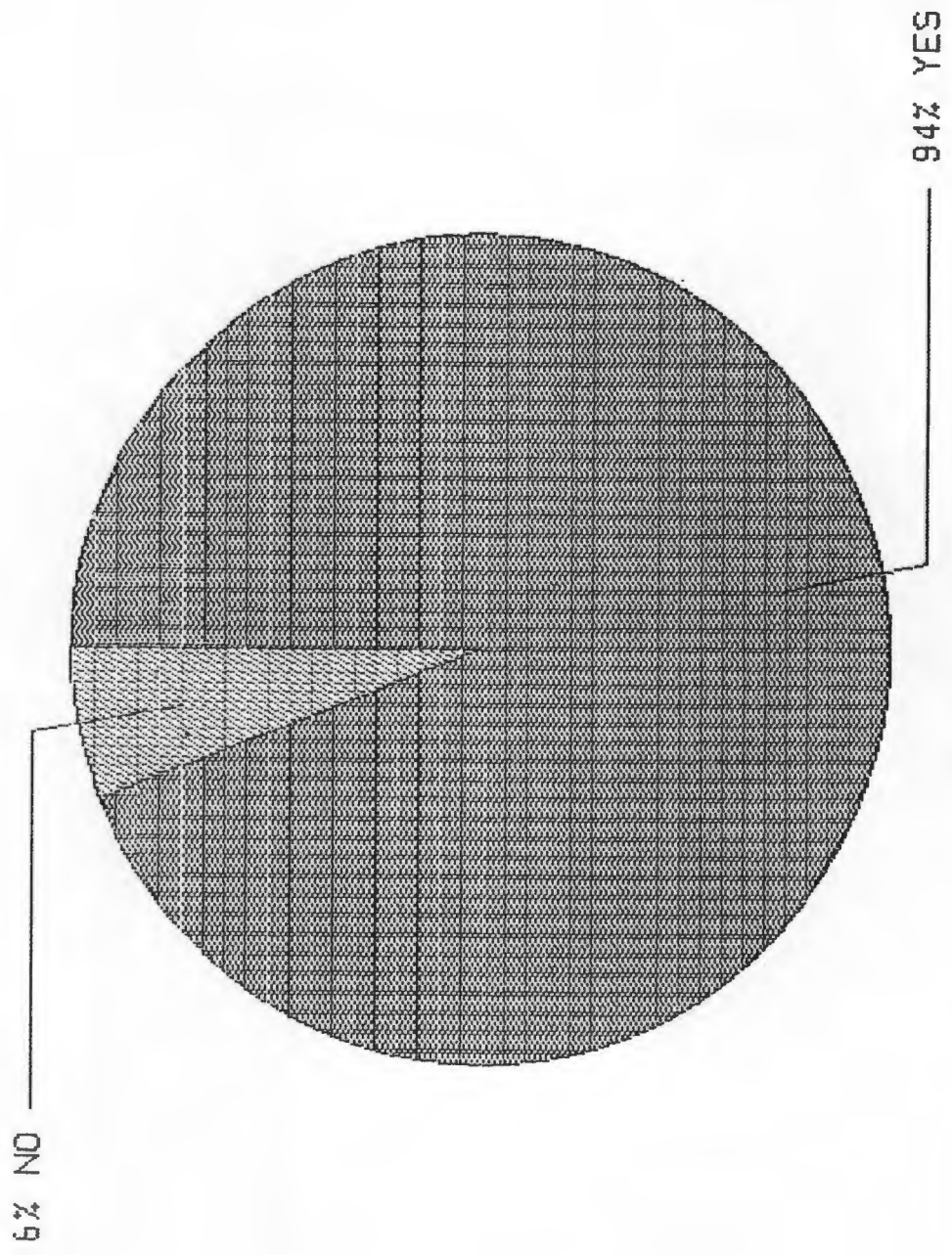
# FATAL=NO PER POISON DESCRIPTION



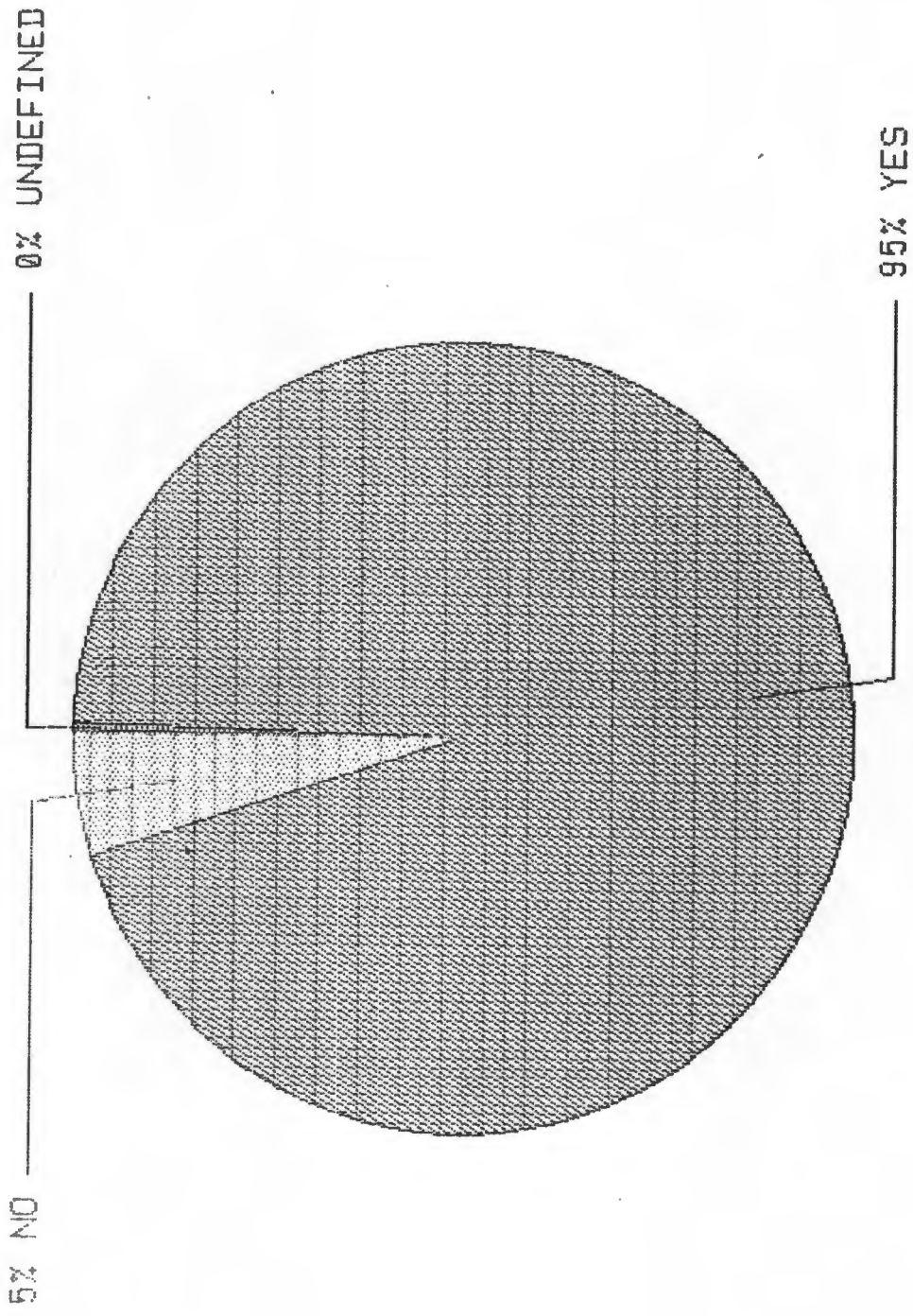
RELATION BETWEEN RACE=WHITE AND HOSPITALISATION



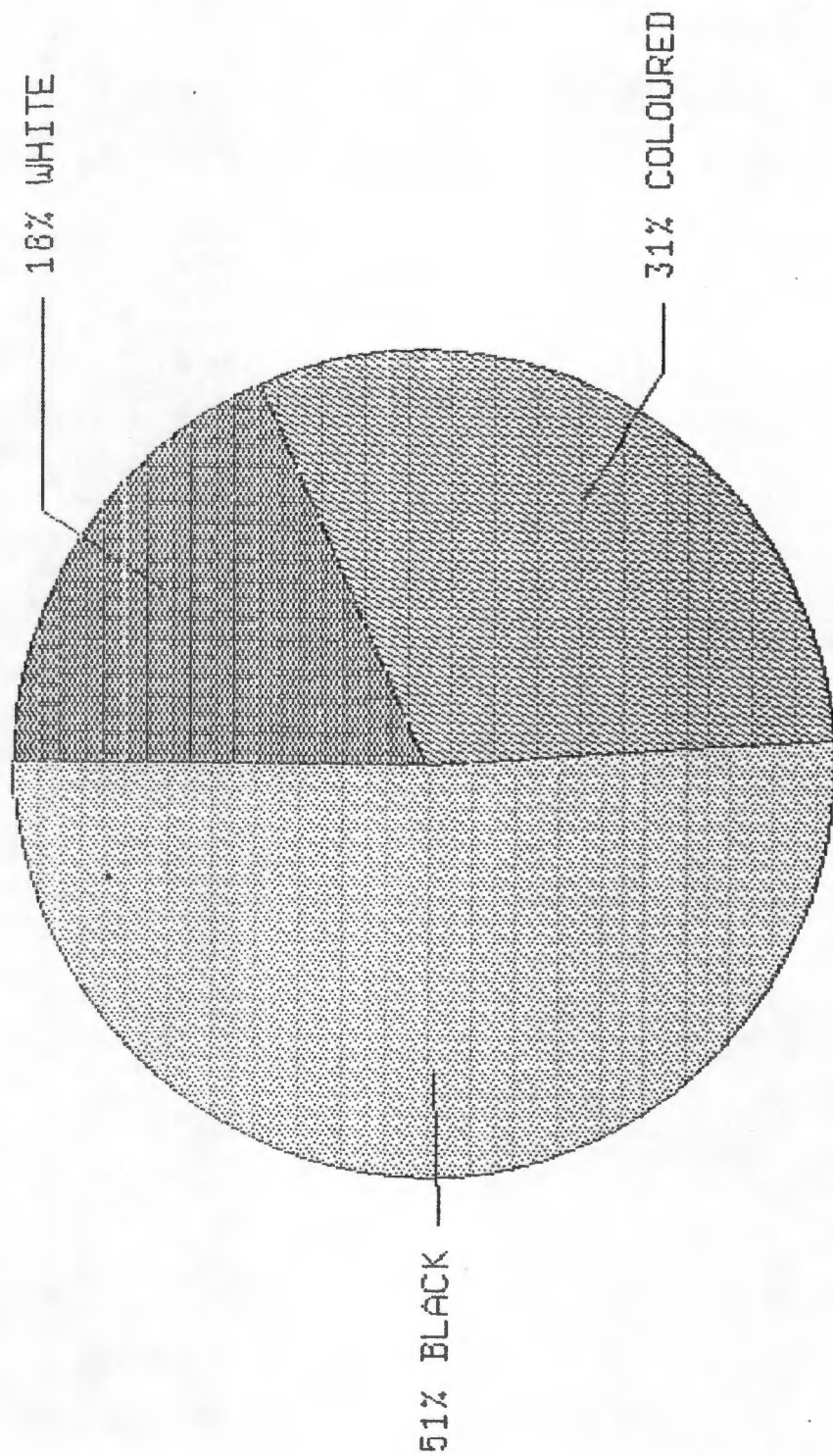
RELATION BETWEEN RACE=COLOURED AND HOSPITALISATION



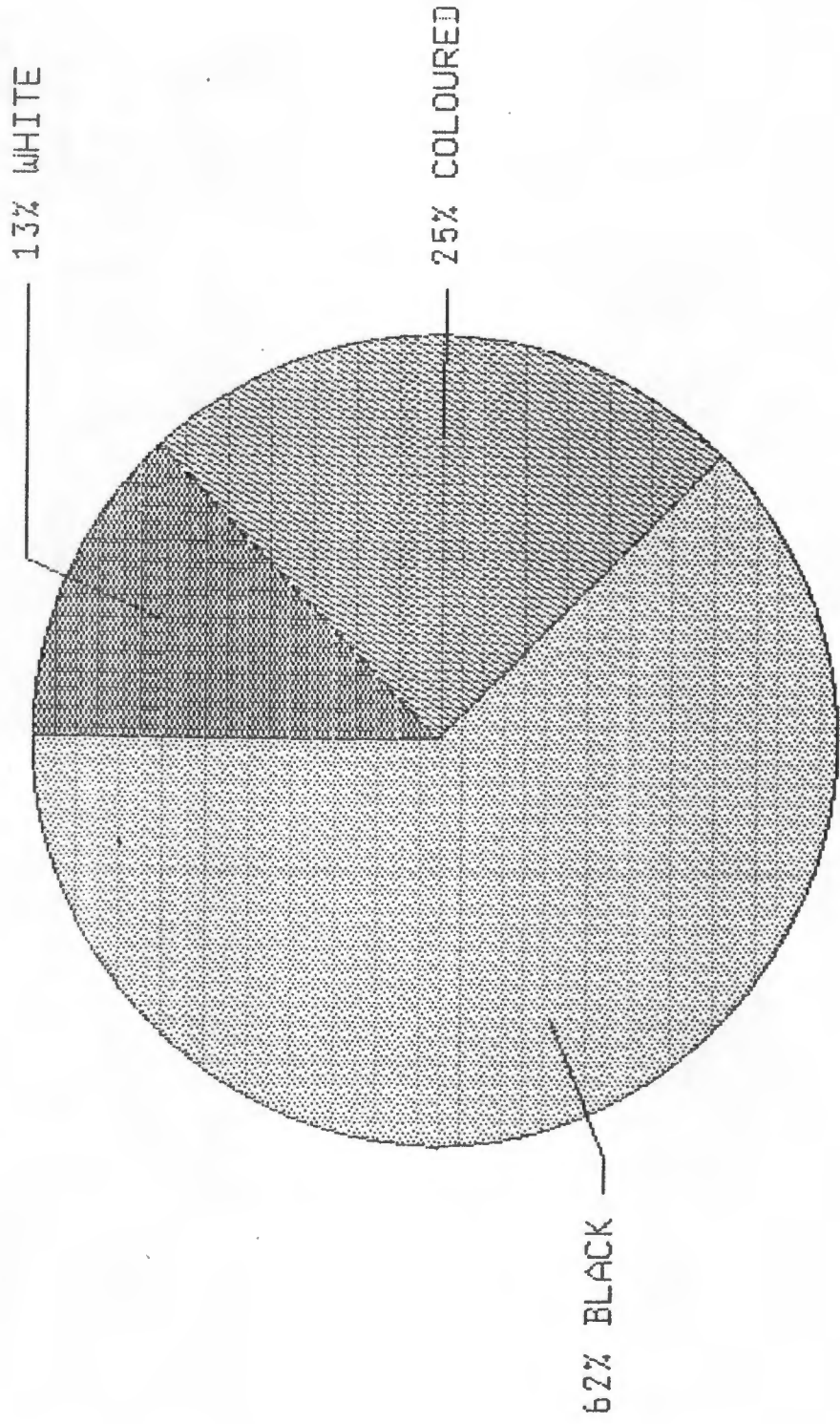
RELATION BETWEEN RACE=BLACK AND HOSPITALISATION



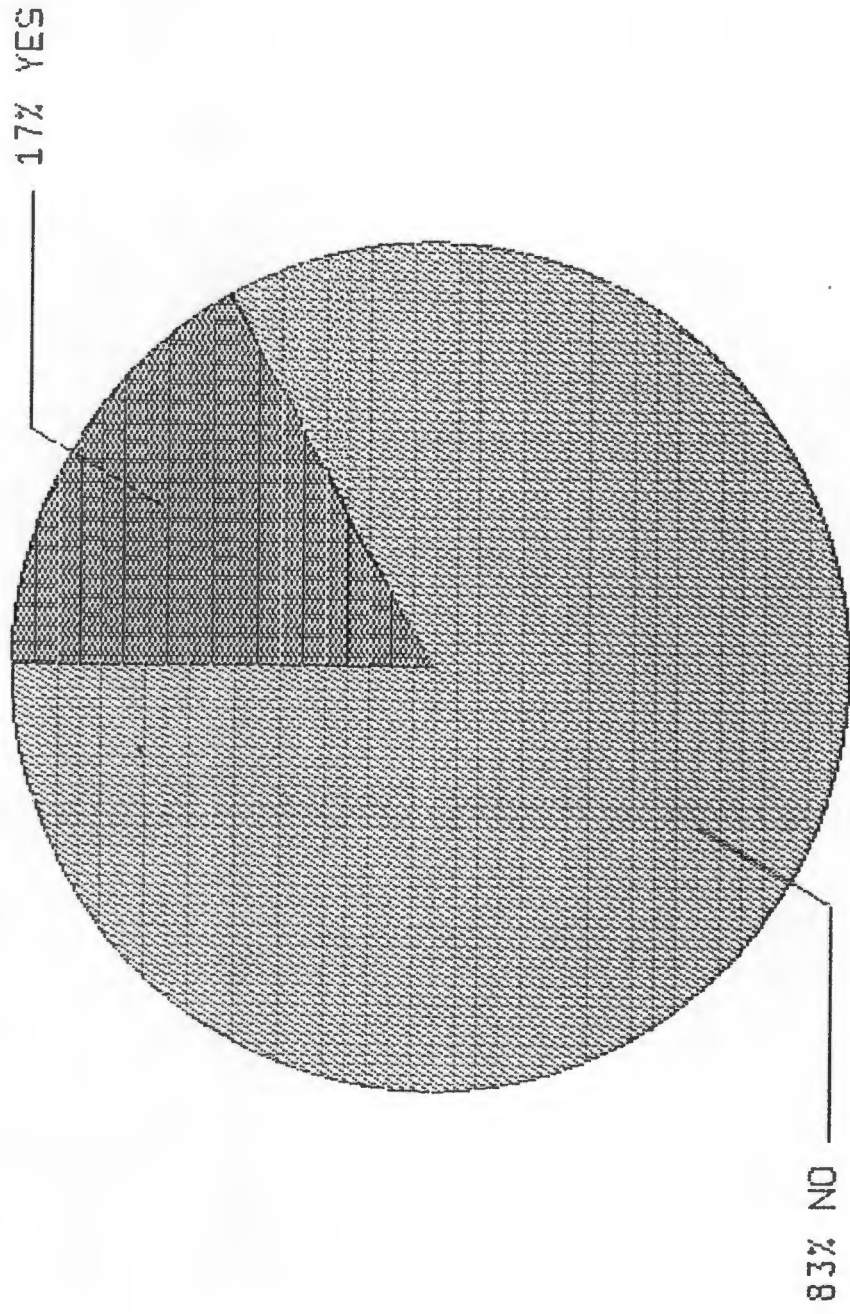
FATAL=YES PER RACE GROUP



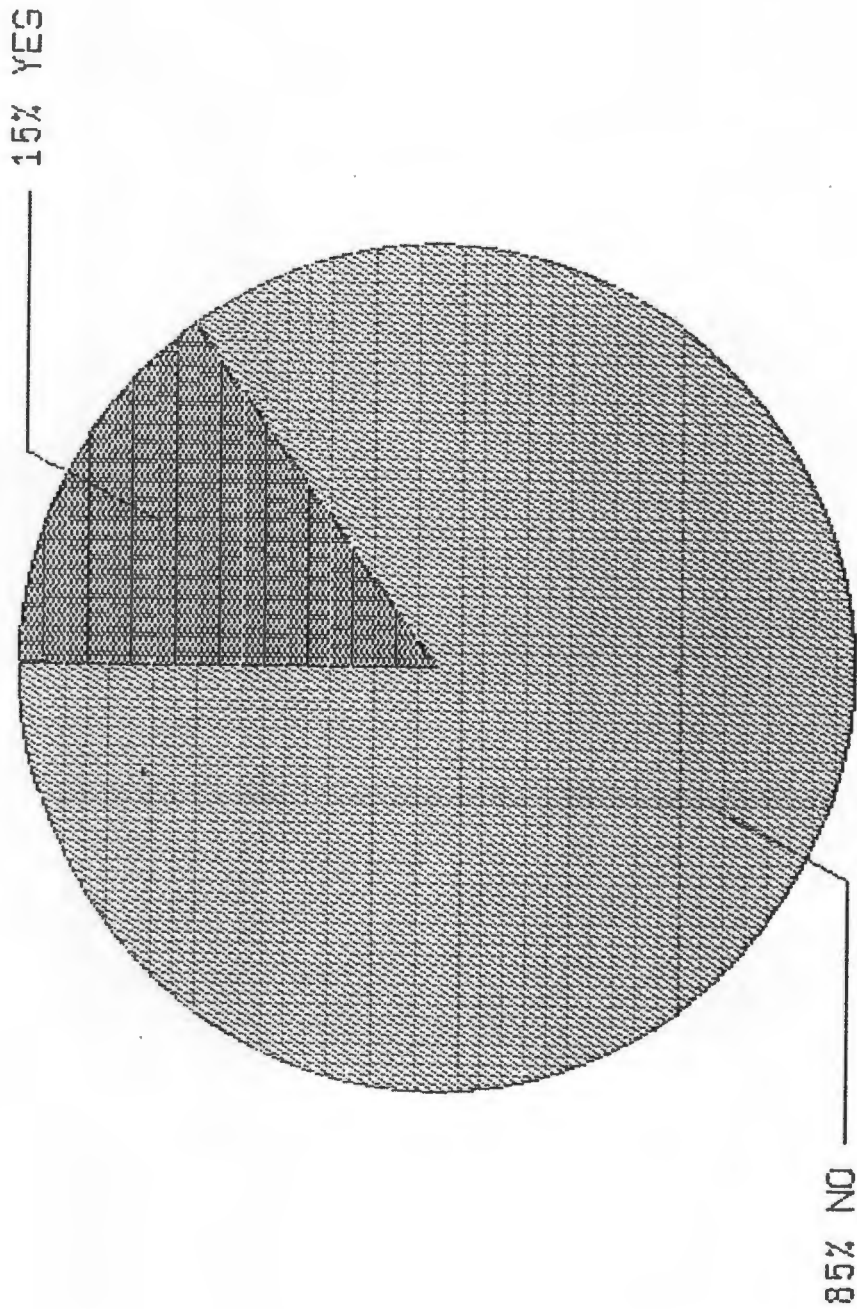
FATAL=NO PER RACE GROUP



FATALITIES PER RACE GROUP=WHITE

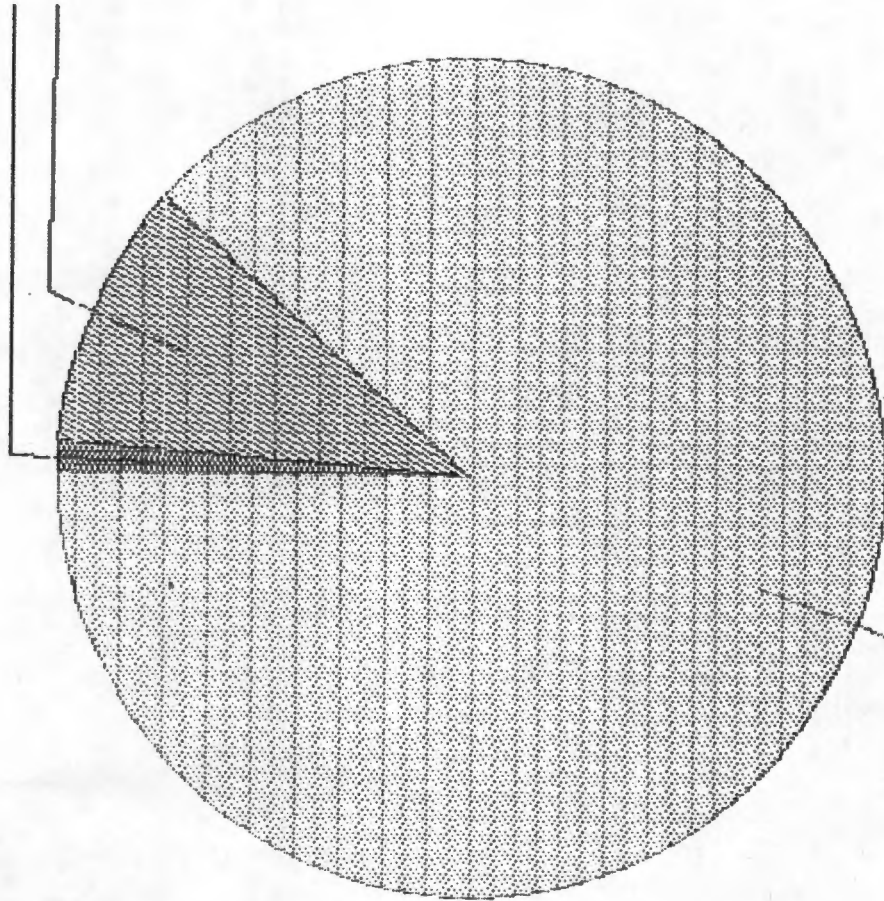


FATALITIES PER RACE GROUP=COLOURED



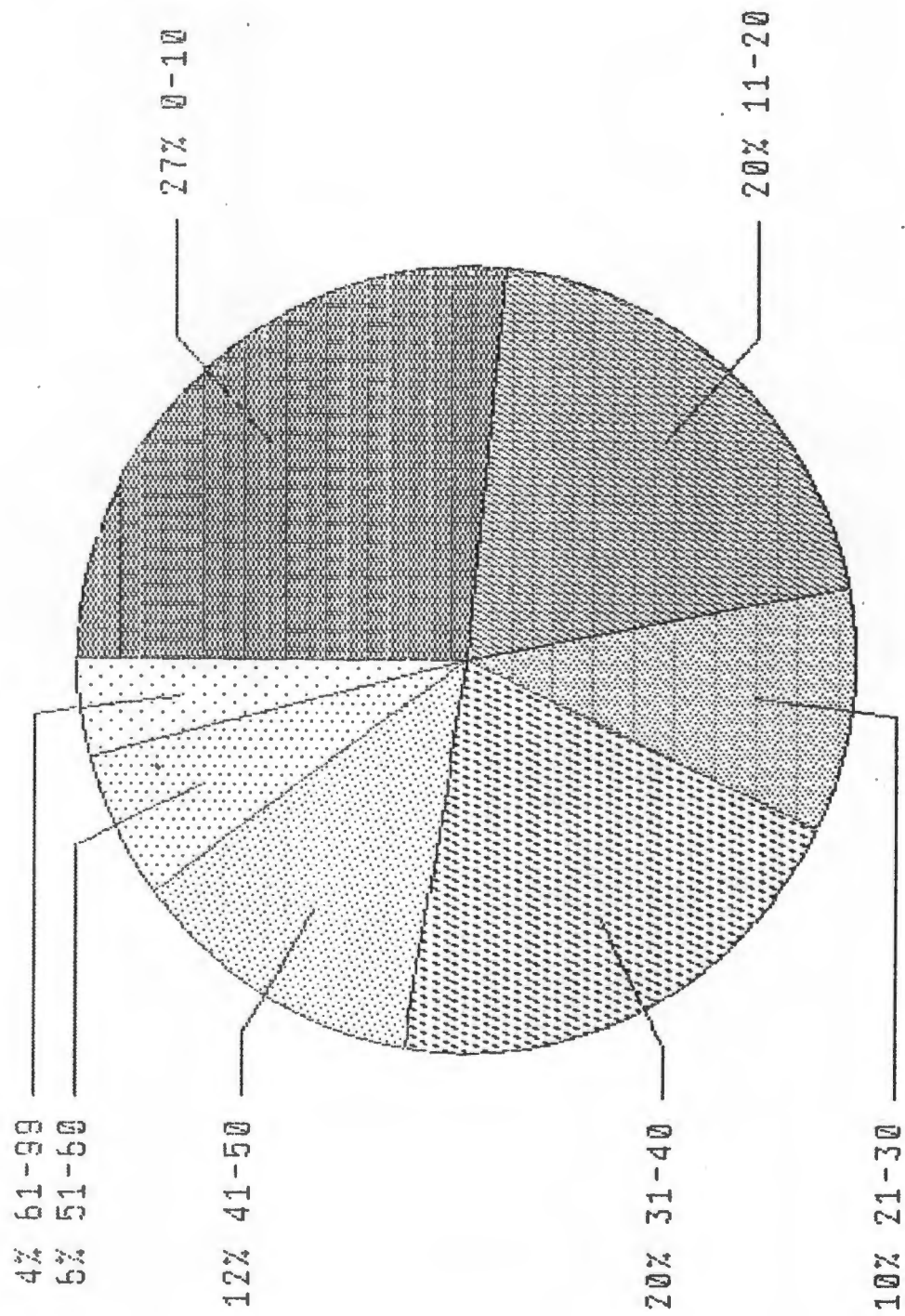
FATALITIES PER RACE GROUP=BLACK

1% UNDEFINED  
10% YES

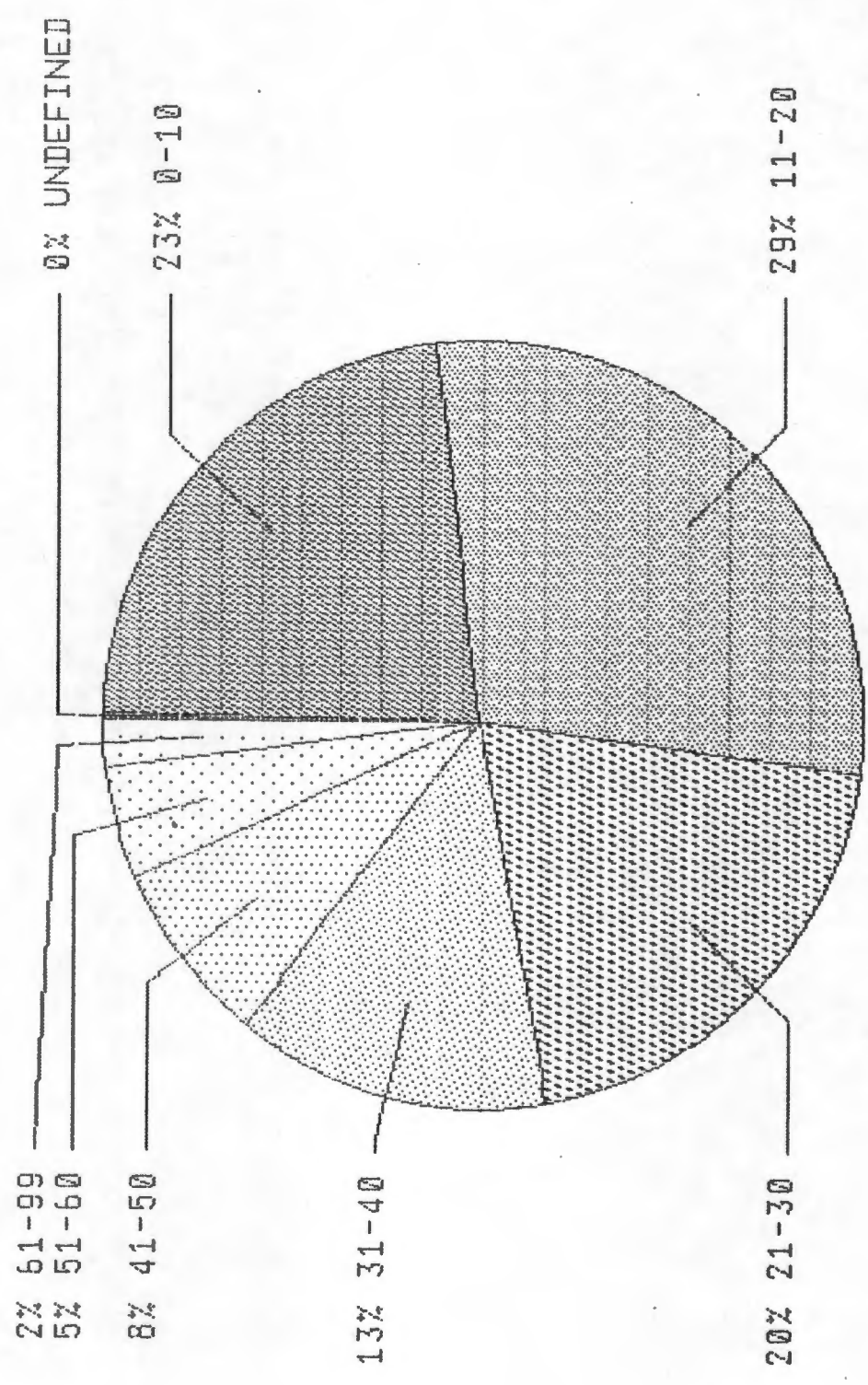


88% NO

# FATAL=YES PER AGE GROUP



# FATAL=NO PER AGE GROUP

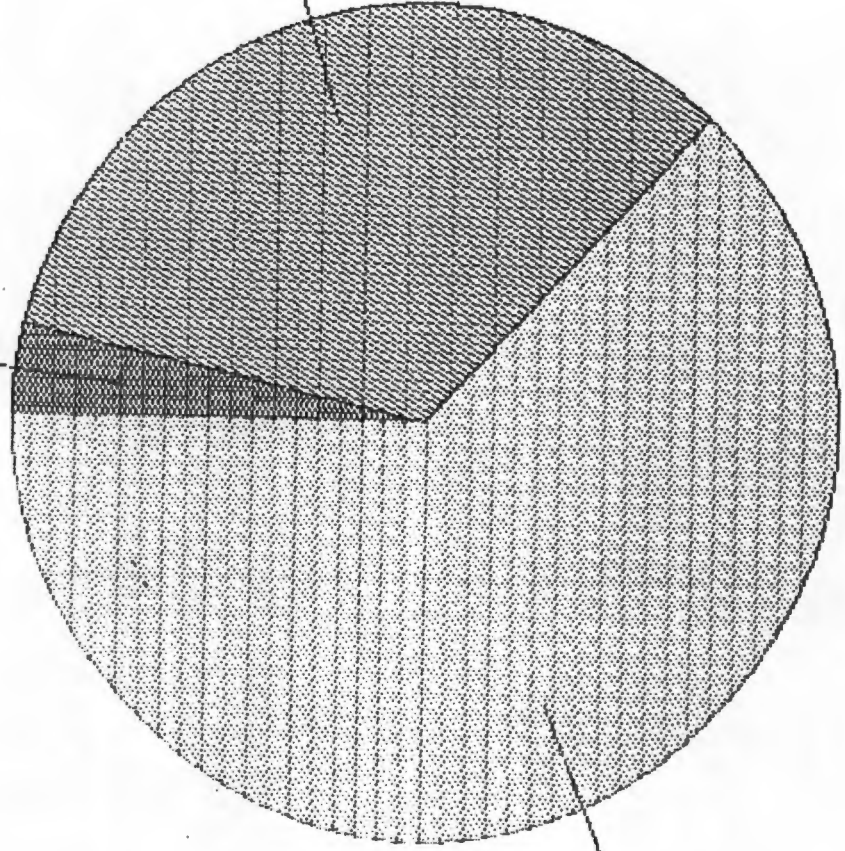


HOSPITALISED=YES PER DURING NORMAL DUTIES

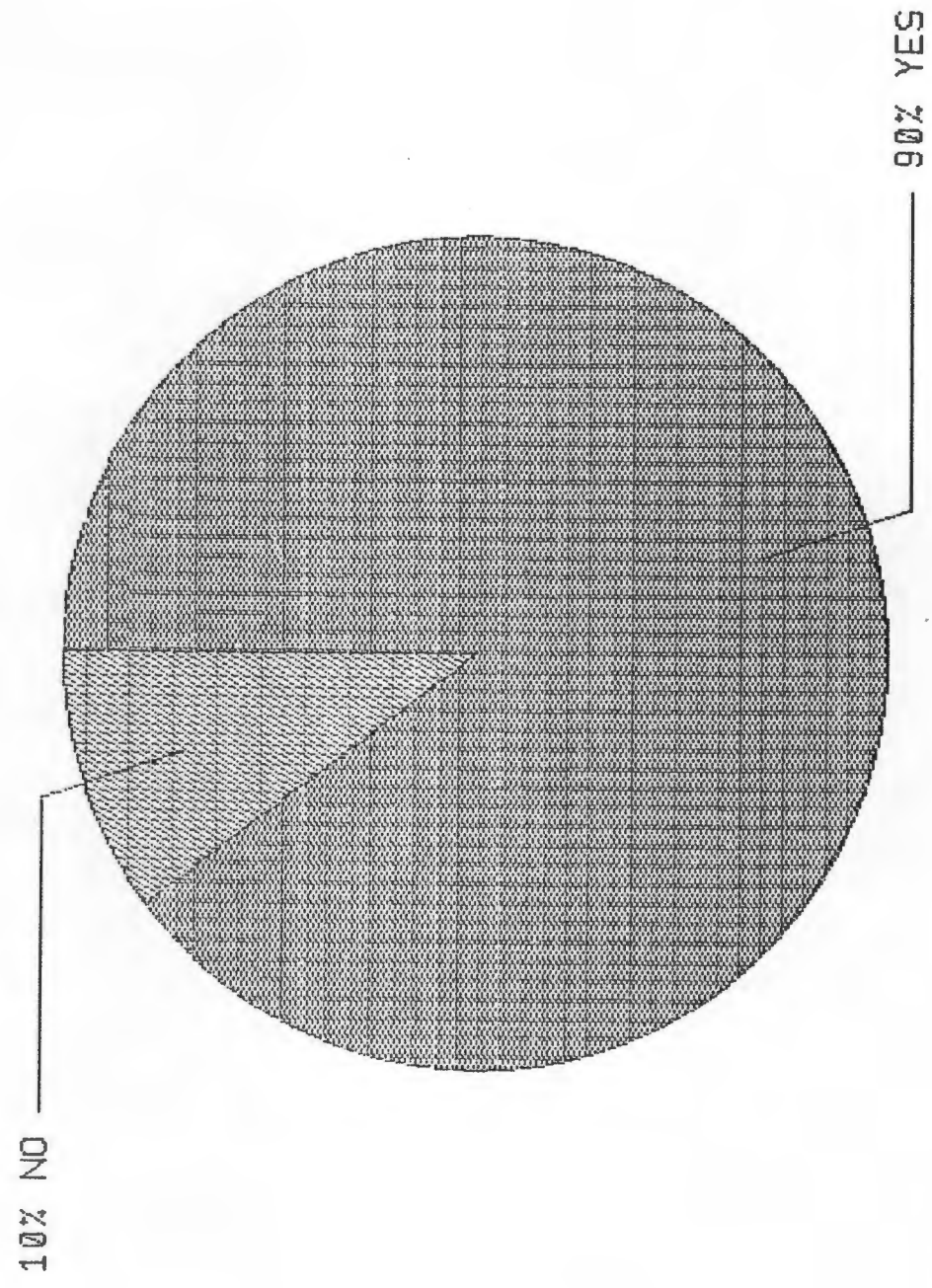
4% UNDEFINED

33% YES

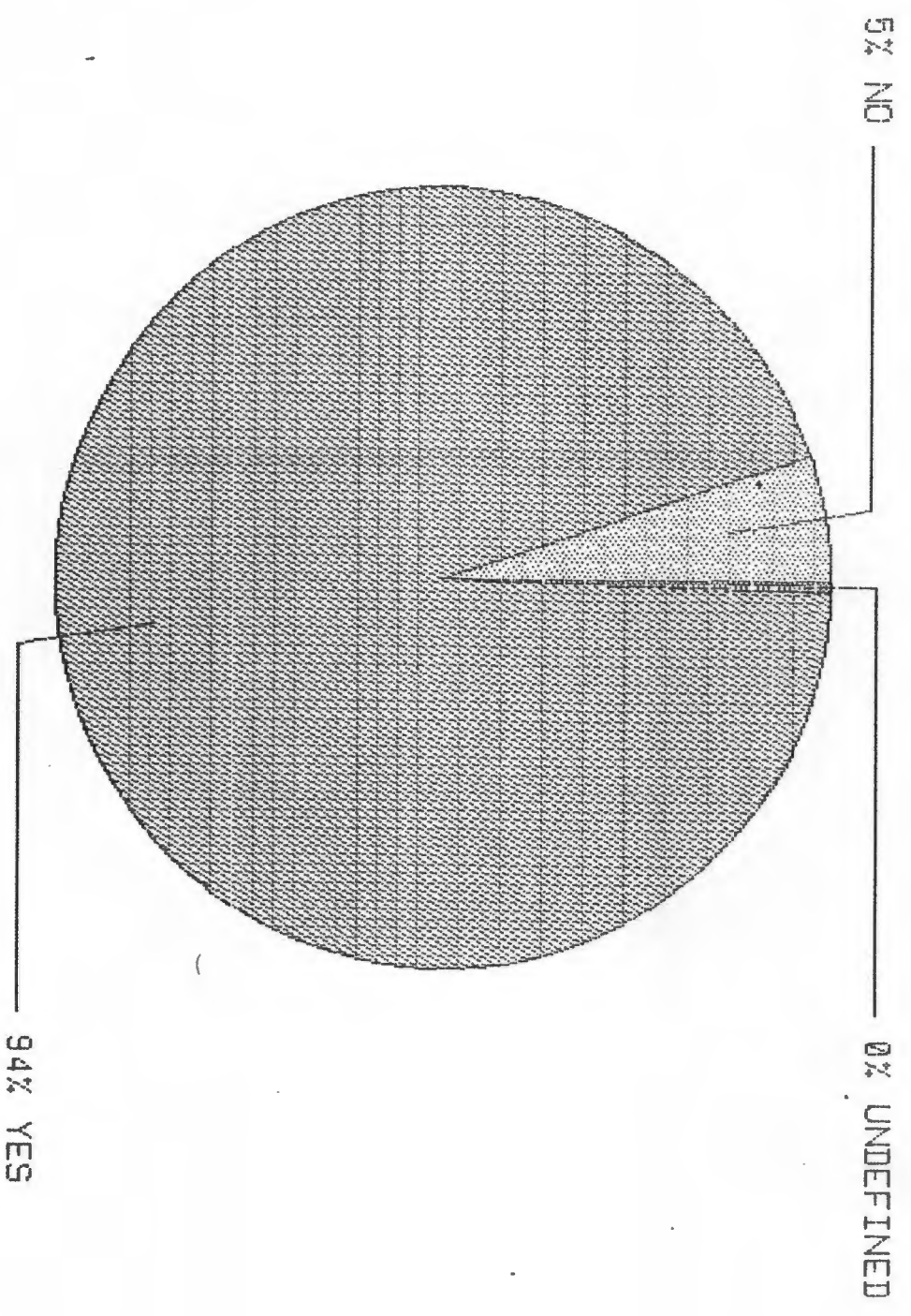
63% NO



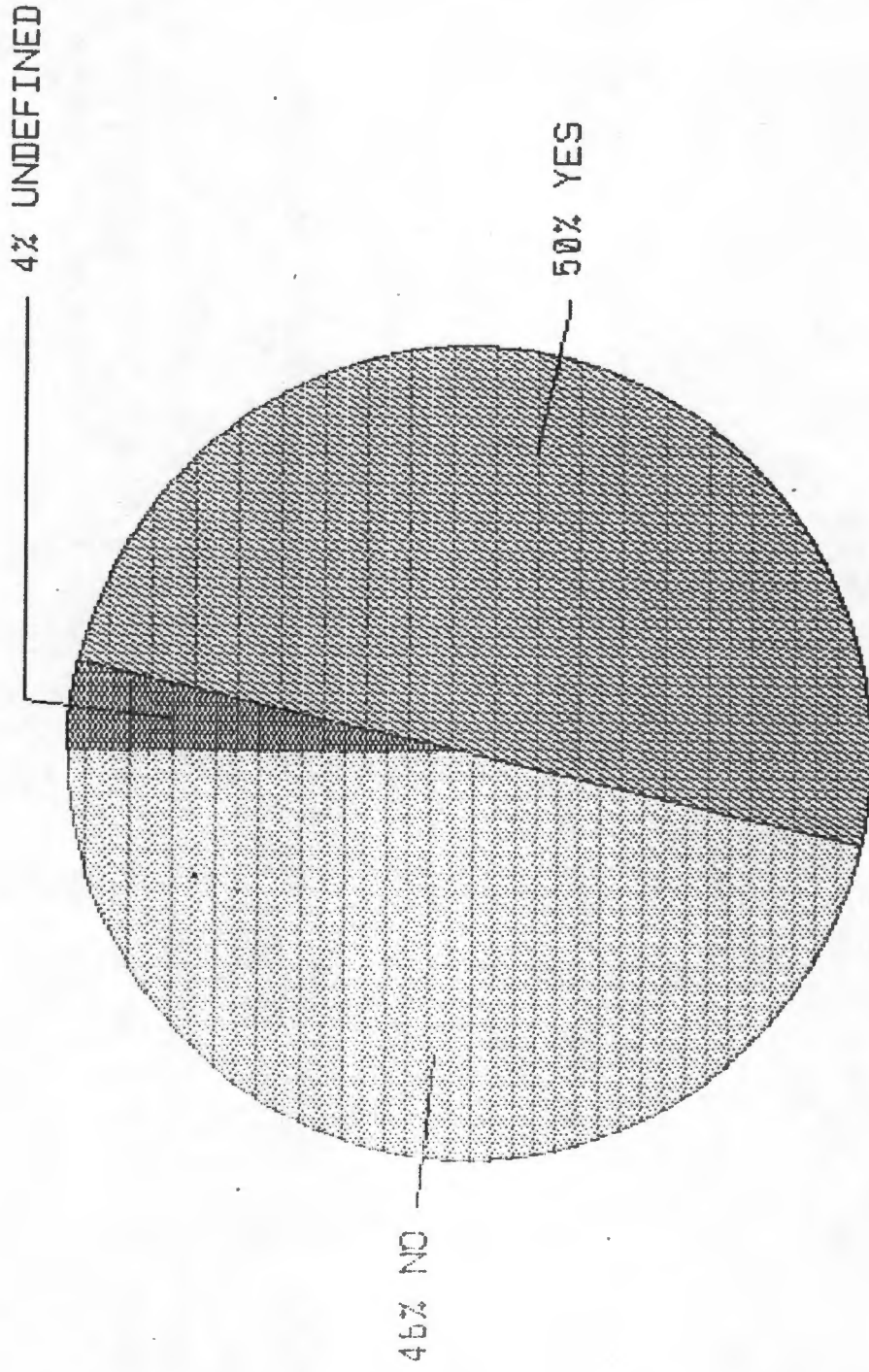
# DURING NORMAL DUTIES=YES PER HOSPITALISATION



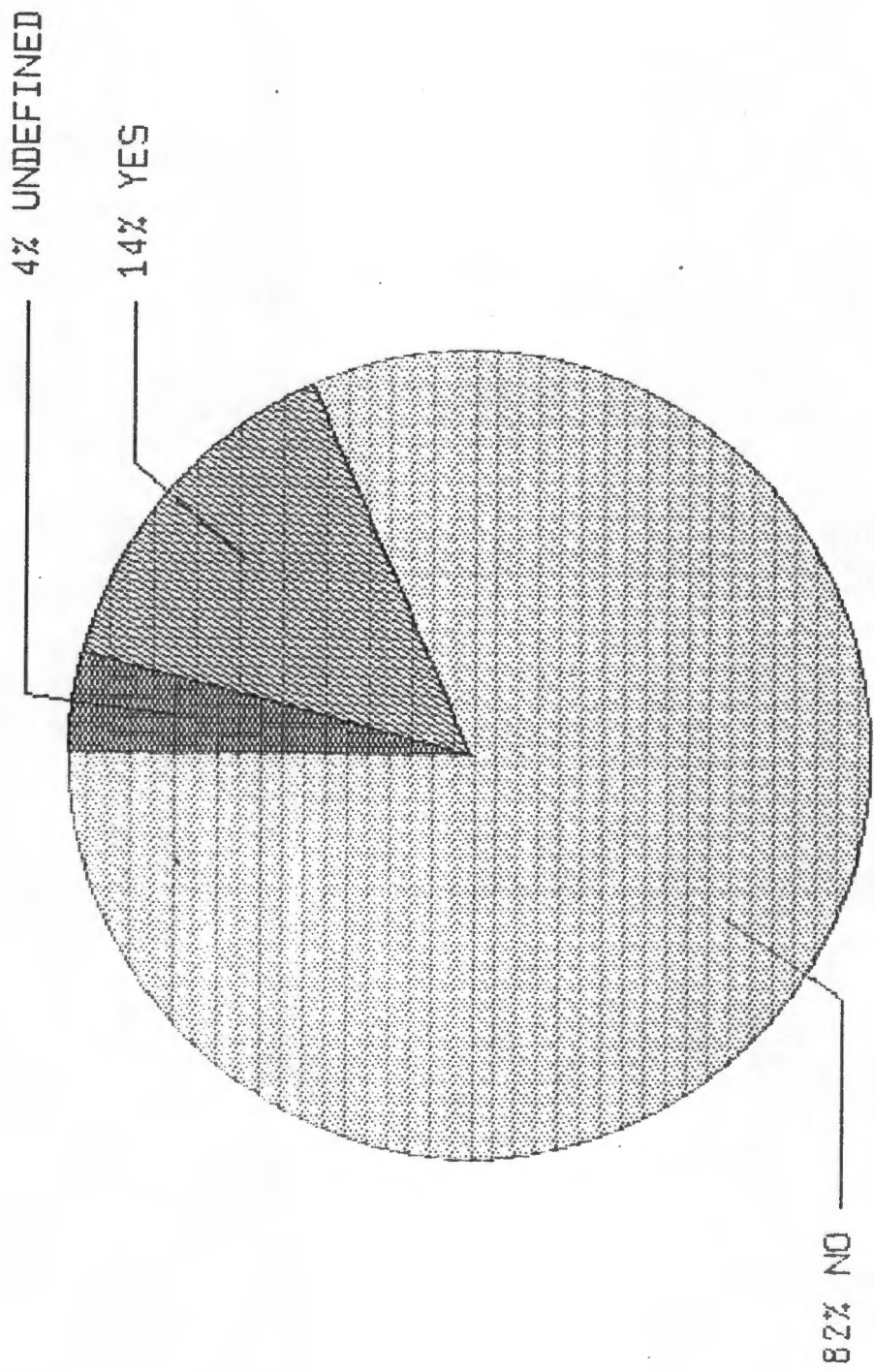
DURING NORMAL DUTIES=NO PER HOSPITALISATION



HOSPITALISED=NO PER DURING NORMAL DUTIES

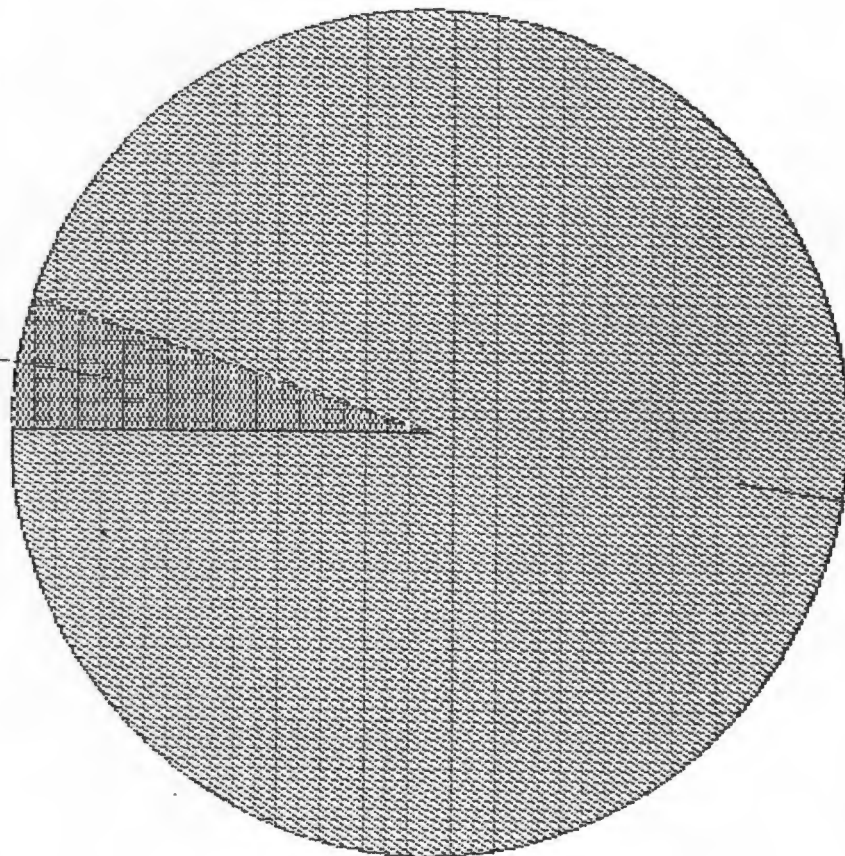


FATAL=YES PER DURING NORMAL DUTIES



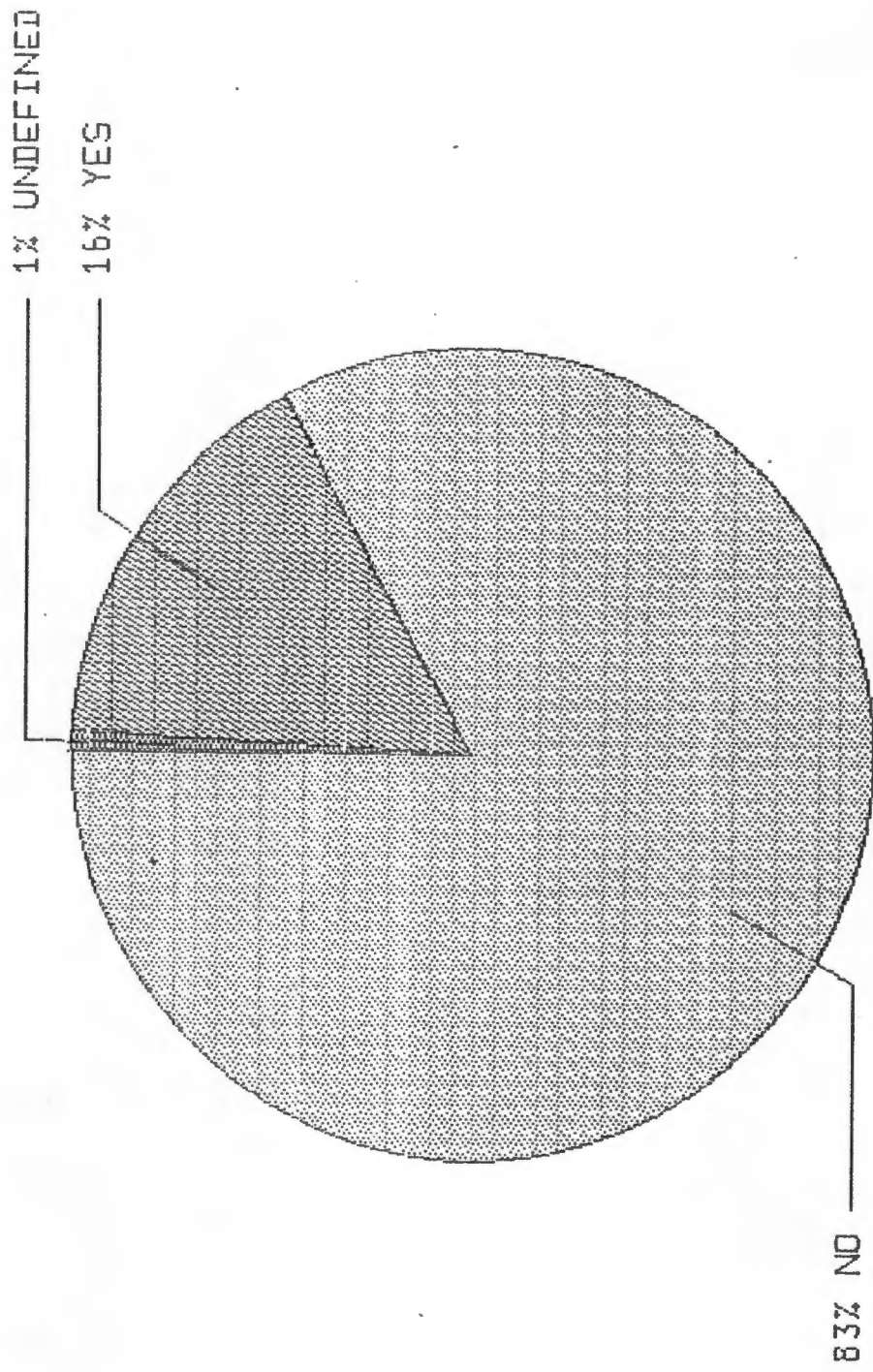
DURING NORMAL DUTIES=YES PER FATAL

5% YES

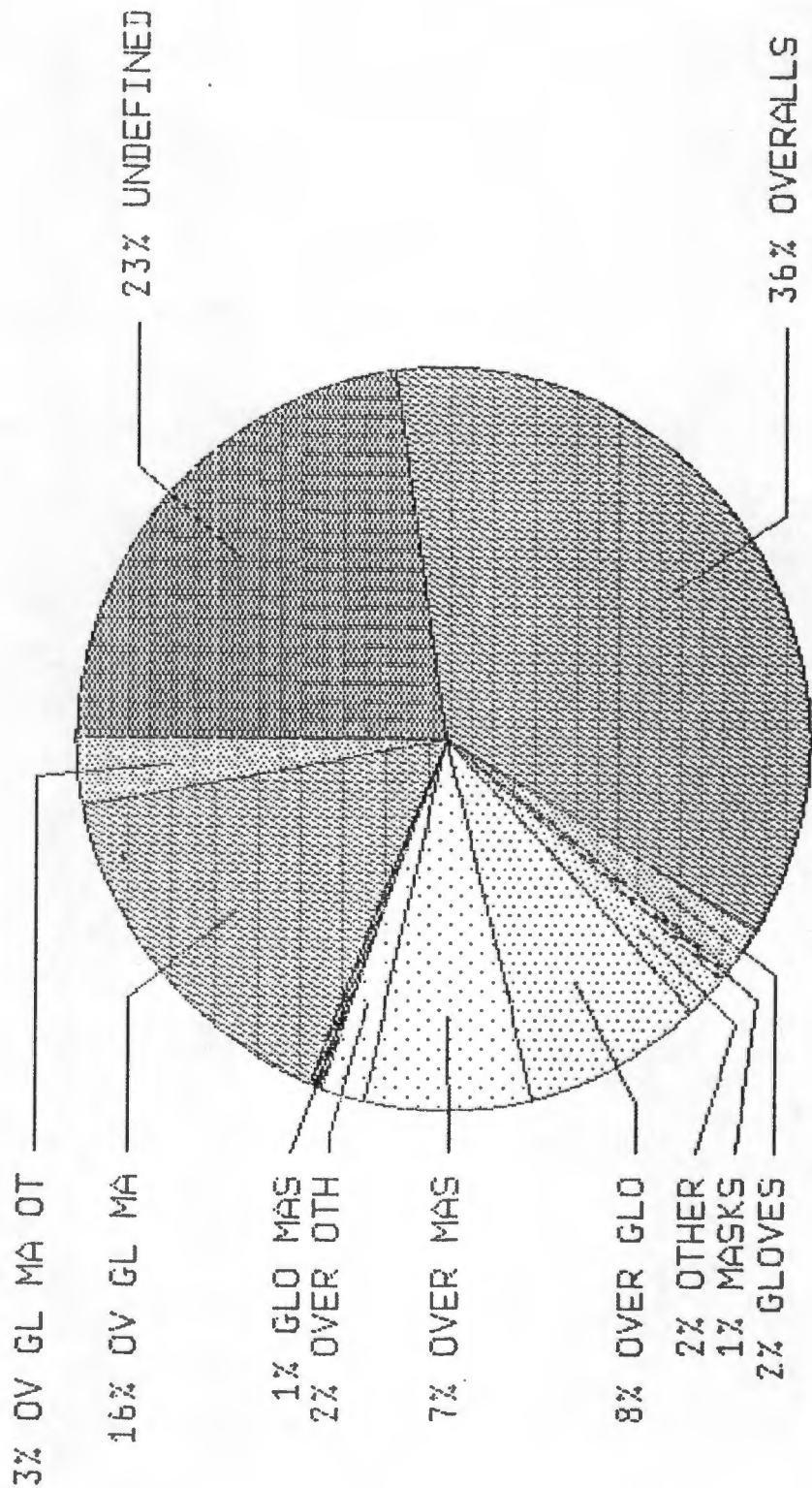


95% NO

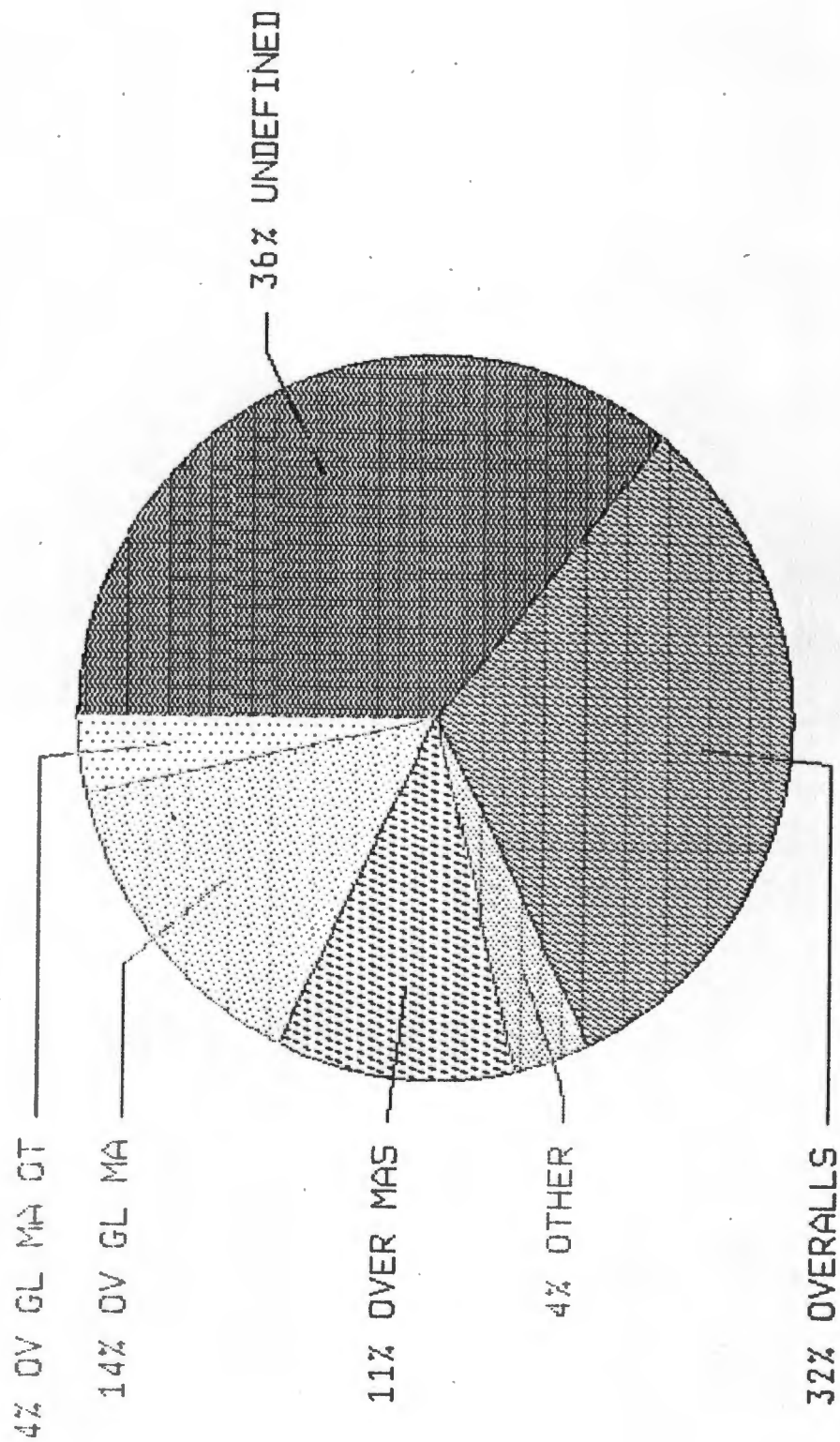
DURING NORMAL DUTIES=NO PER FATAL



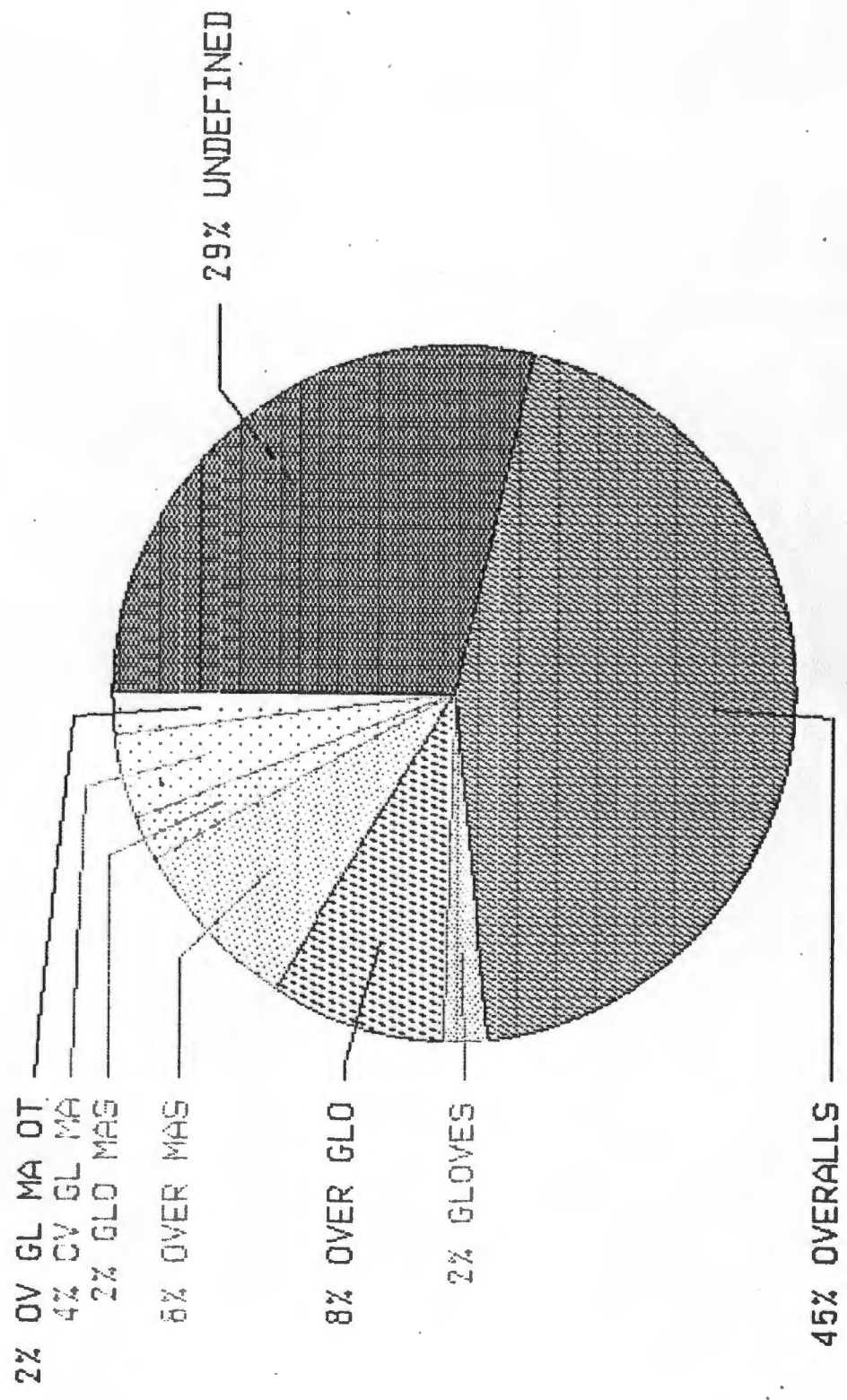
HOSPITALISATION=YES PER PROTECTION USED



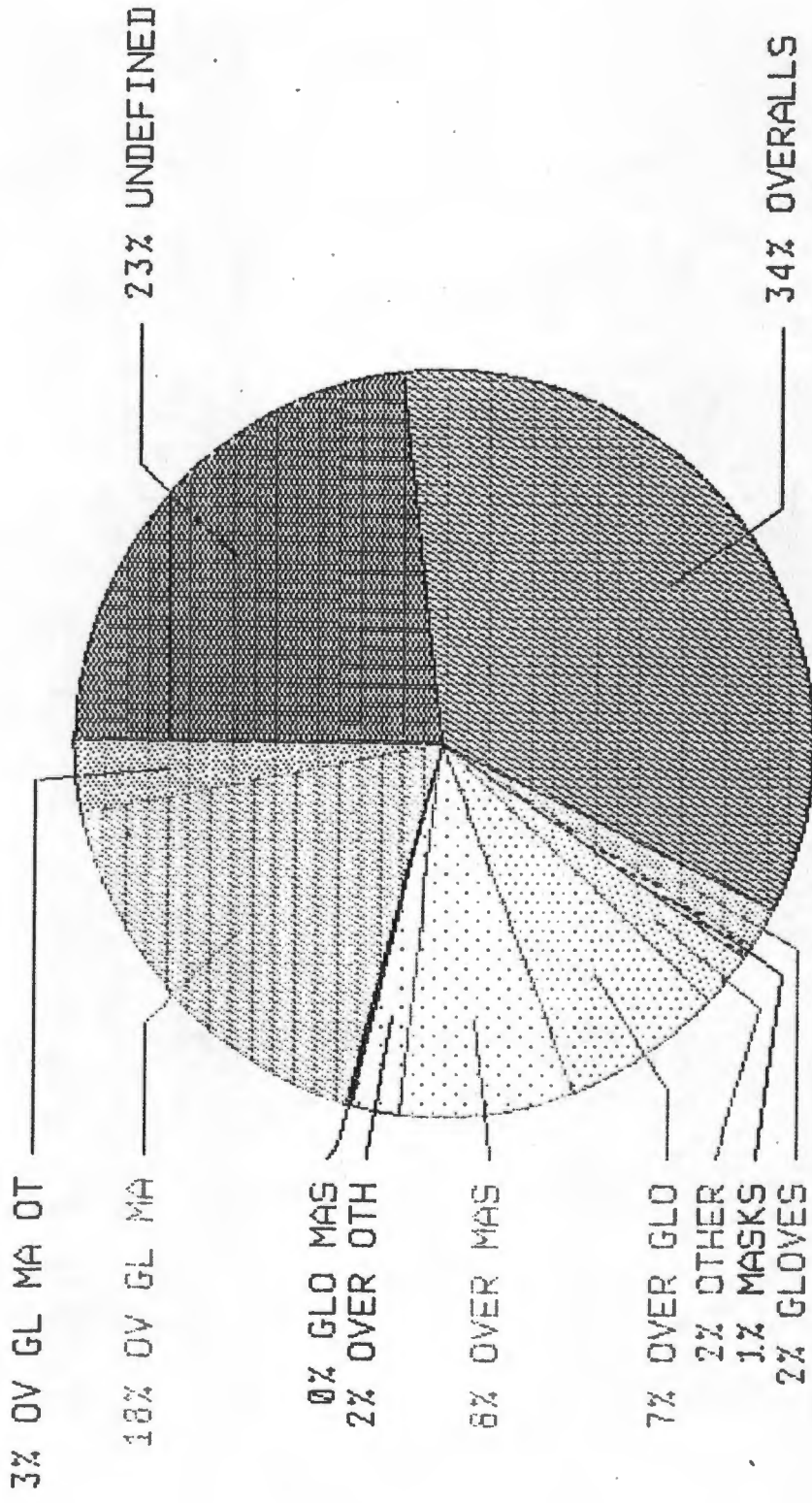
HOSPITALISATION=NO PER PROTECTION USED



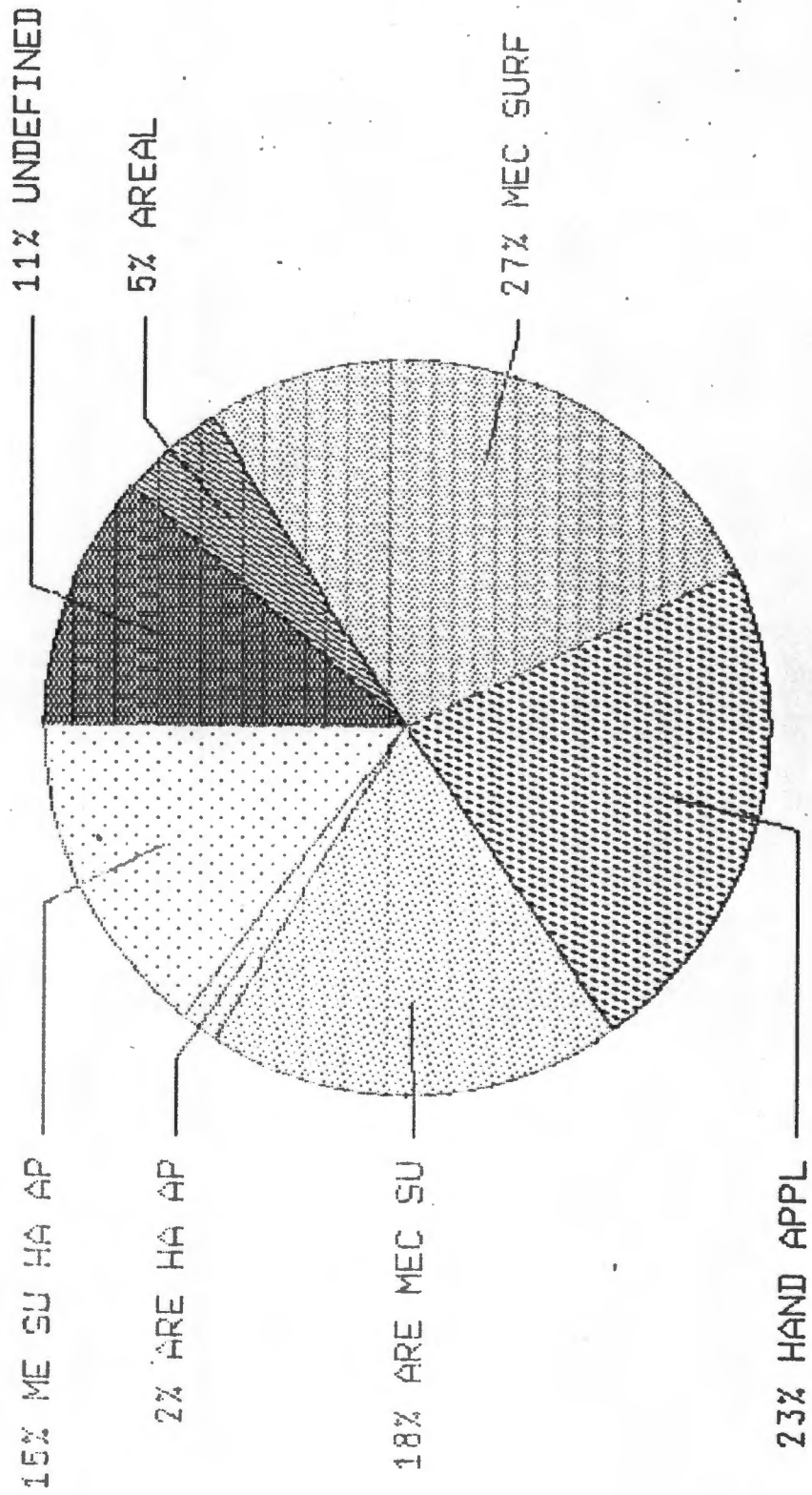
RELATION BETWEEN FATAL=YES AND PROTECTION USED



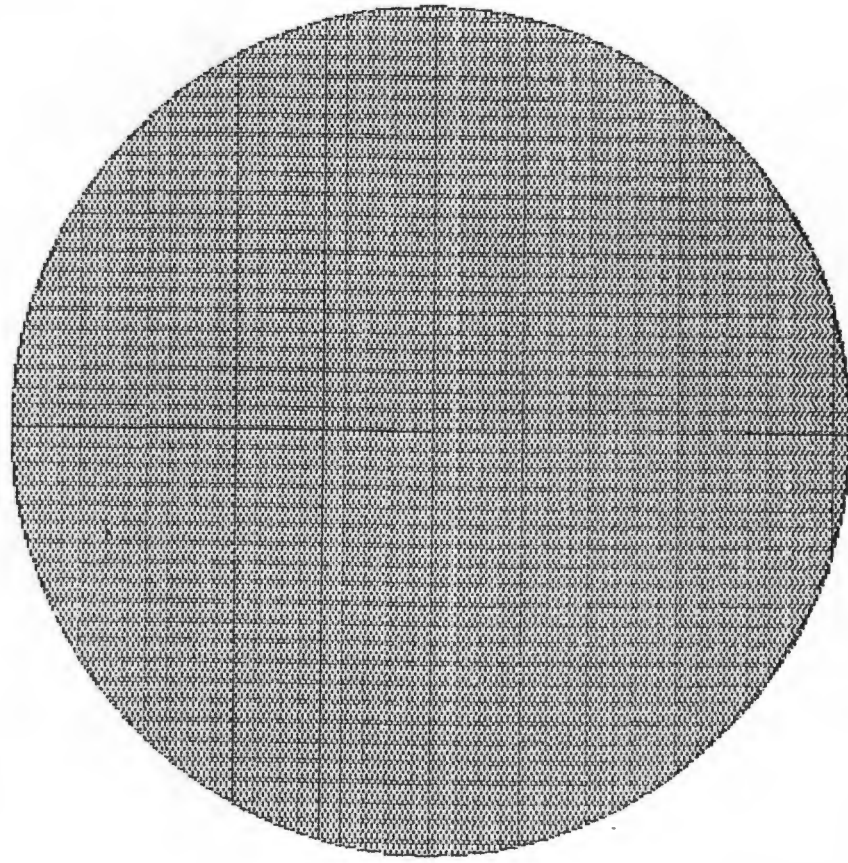
RELATION BETWEEN FATAL=NO AND PROTECTION USED



HOSPITALISATION=YES PER METHODS OF POISON APPLICATION

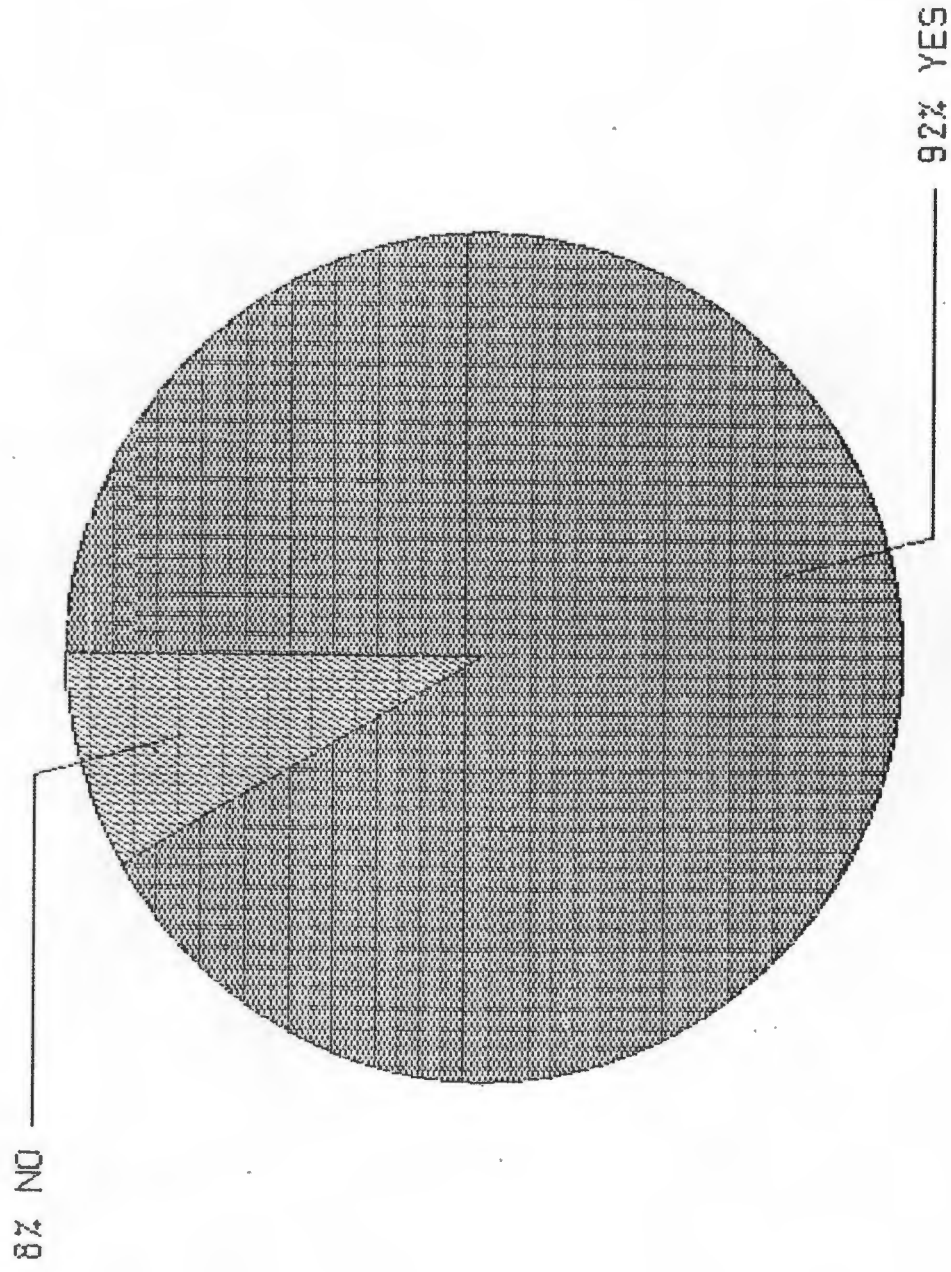


PATIENTS HOSPITALISED WHEN POISON APPLICATION=AERIAL

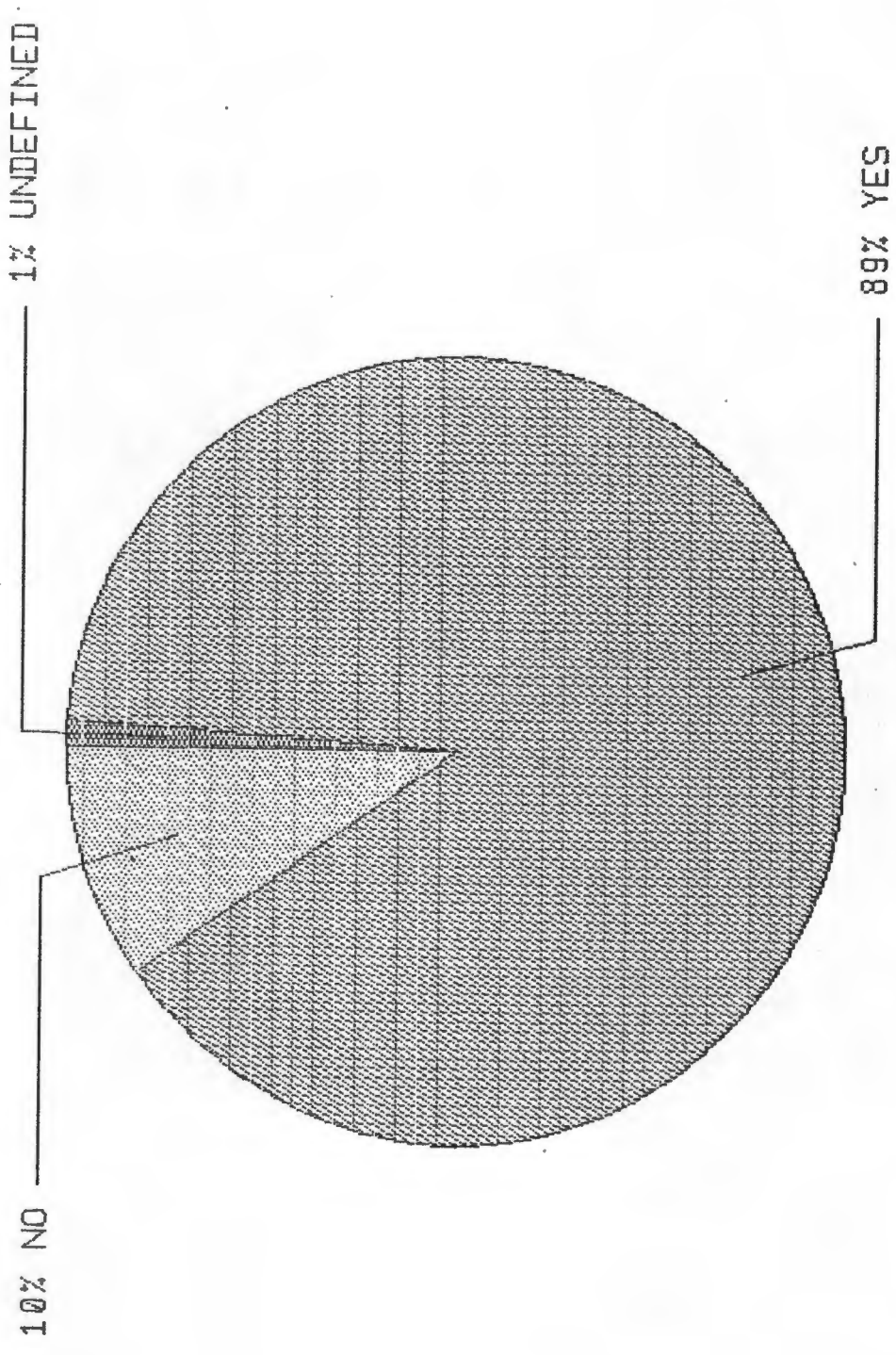


100% YES

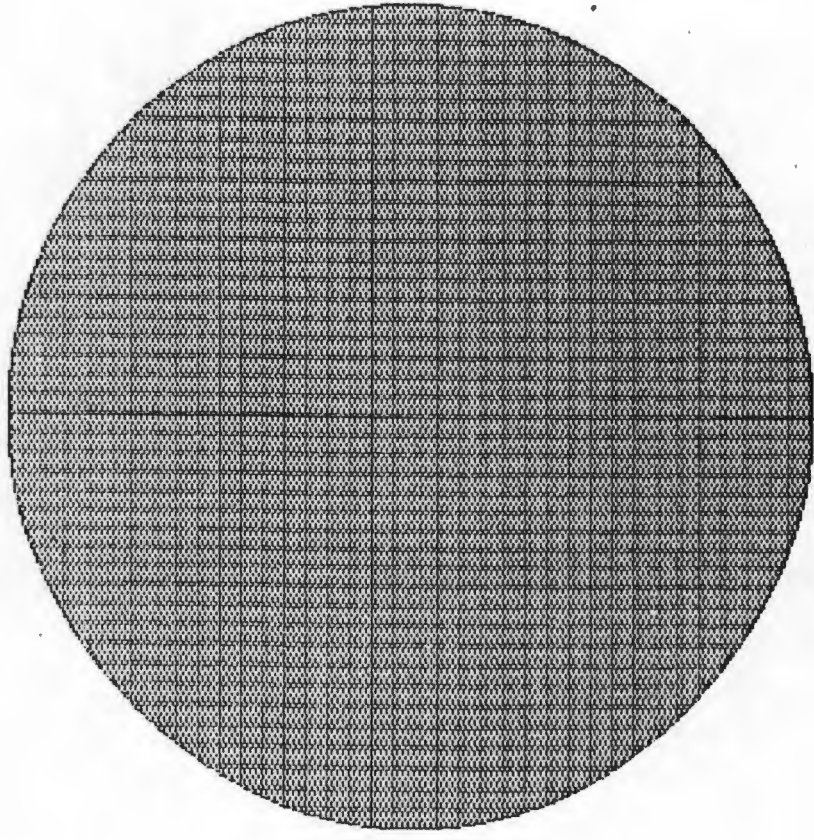
PATIENTS HOSPITALISED WHEN POISON APPLICATION=MECH SURFACE



PATIENTS HOSPITALISED WHEN POISON APPLICATION=HAND APPLICATION

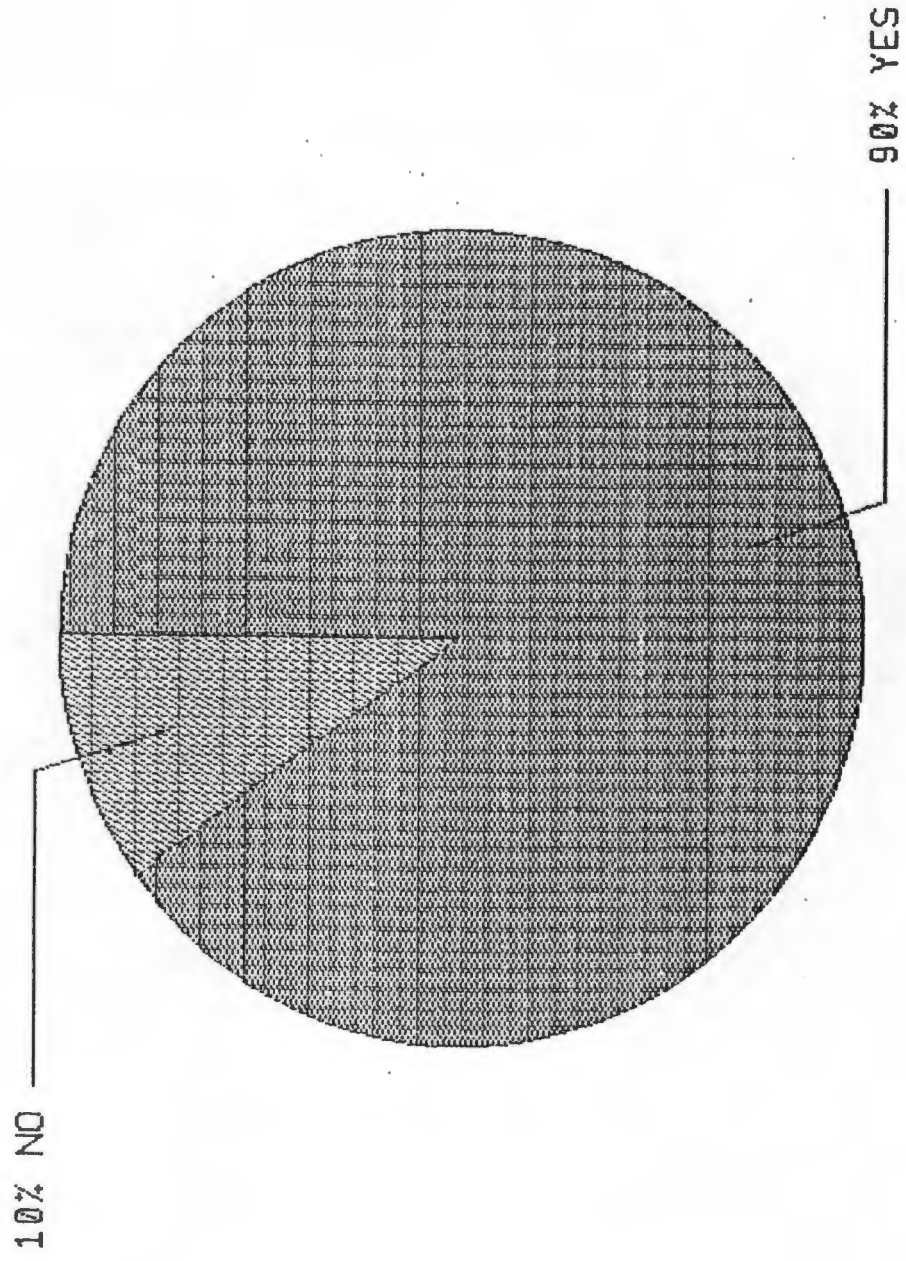


PATIENTS HOSPITALISED WHEN POISON APPLICATION=AERIAL &  
MEC SURFACE

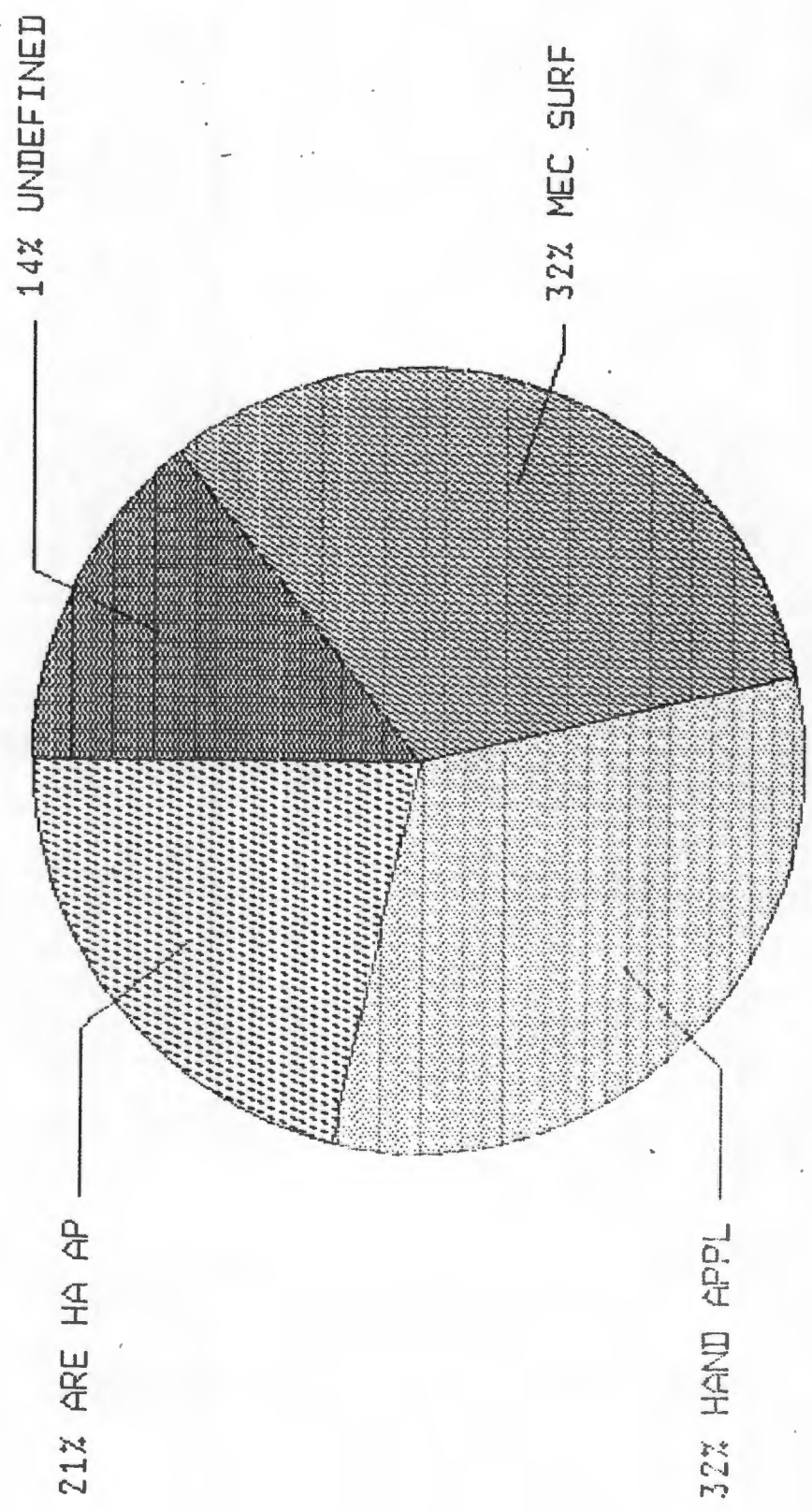


100% YES

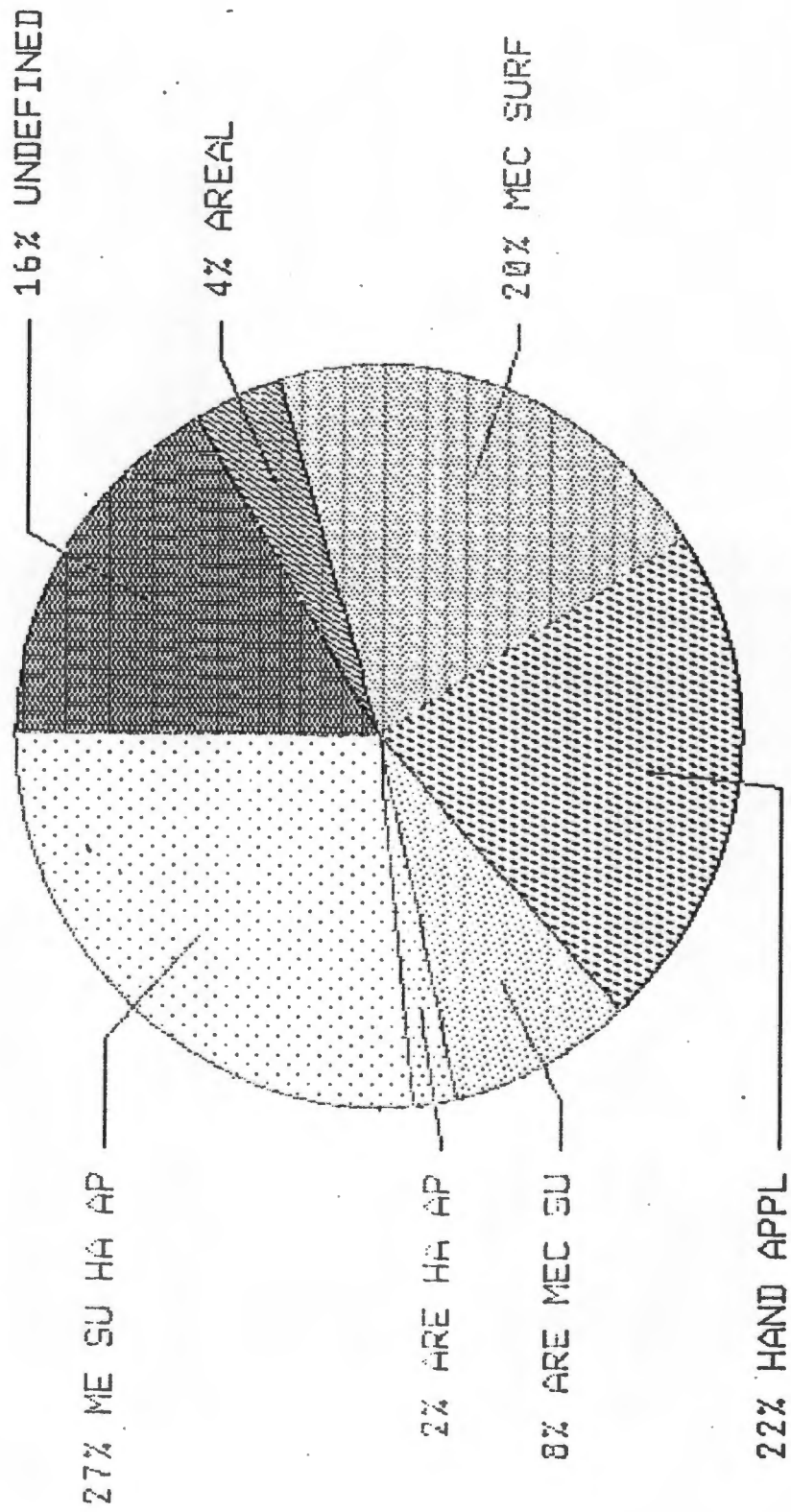
238 -  
PATIENTS HOSPITALISED WHEN POISON APPLICATION=MEC SURF &  
HAND APPL



# HOSPITALISATION=ND PER METHODS OF POISON APPLICATION

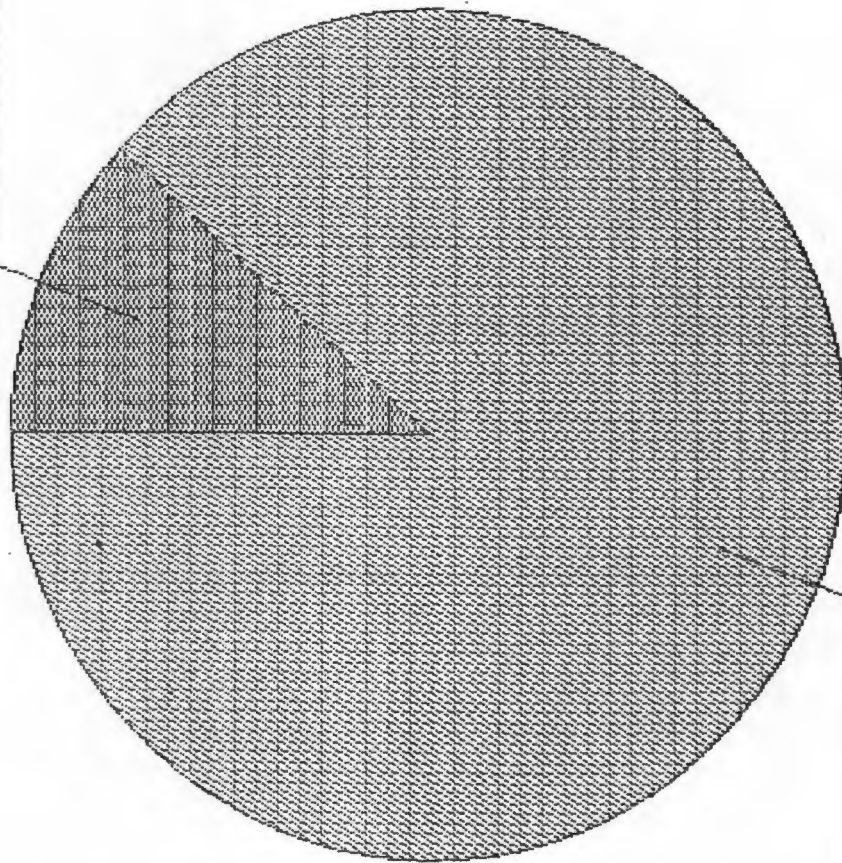


FATAL=YES PER METHODS OF POISON APPLICATION



FATALITIES WHEN POISON APPLICATION=AEREAL

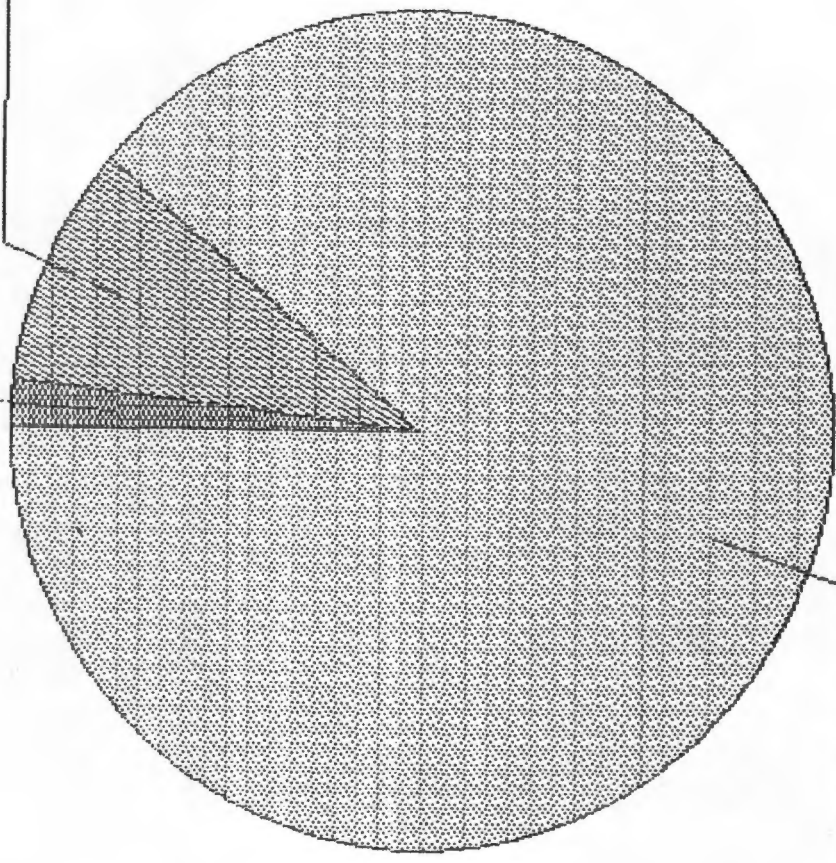
12% YES



88% NO

# FATALITIES WHEN POISON APPLICATION=MECHANICAL SURFACE

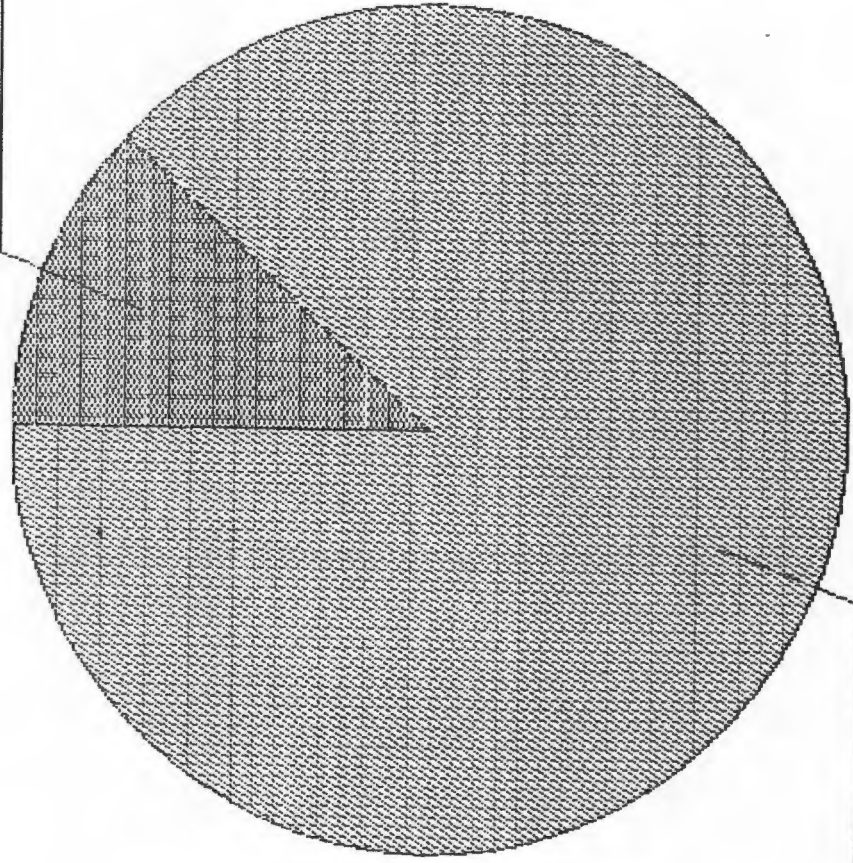
2% UNDEFINED  
9% YES



89% NO

# FATALITIES WHEN POISON APPLICATION=HAND APPLICATION

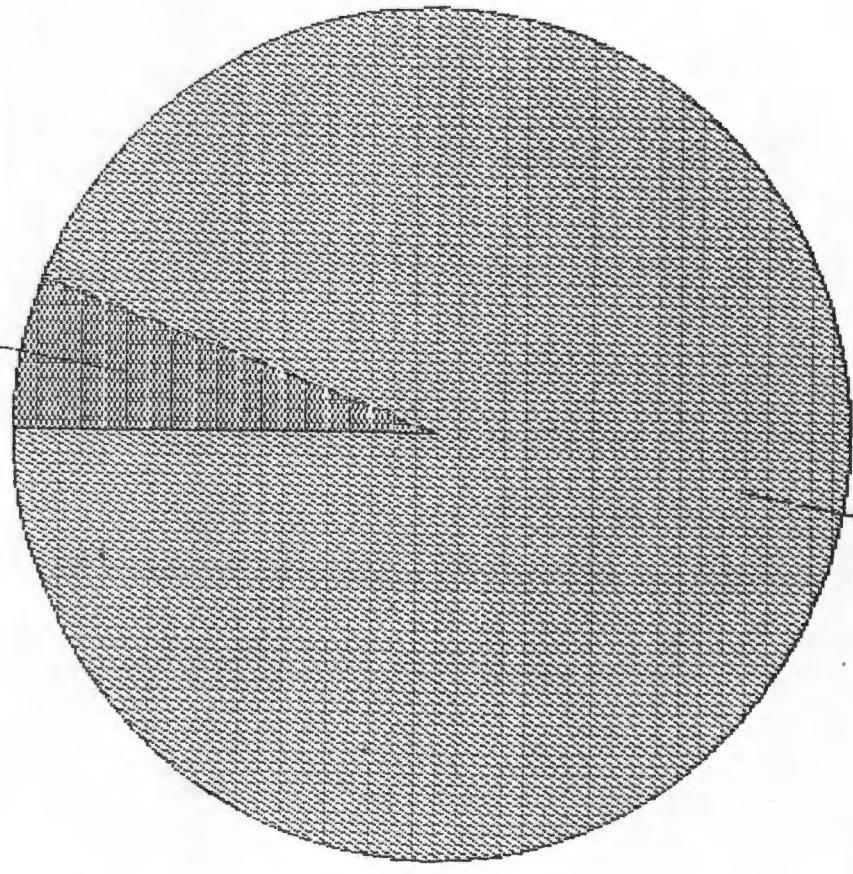
12% YES



88% NO

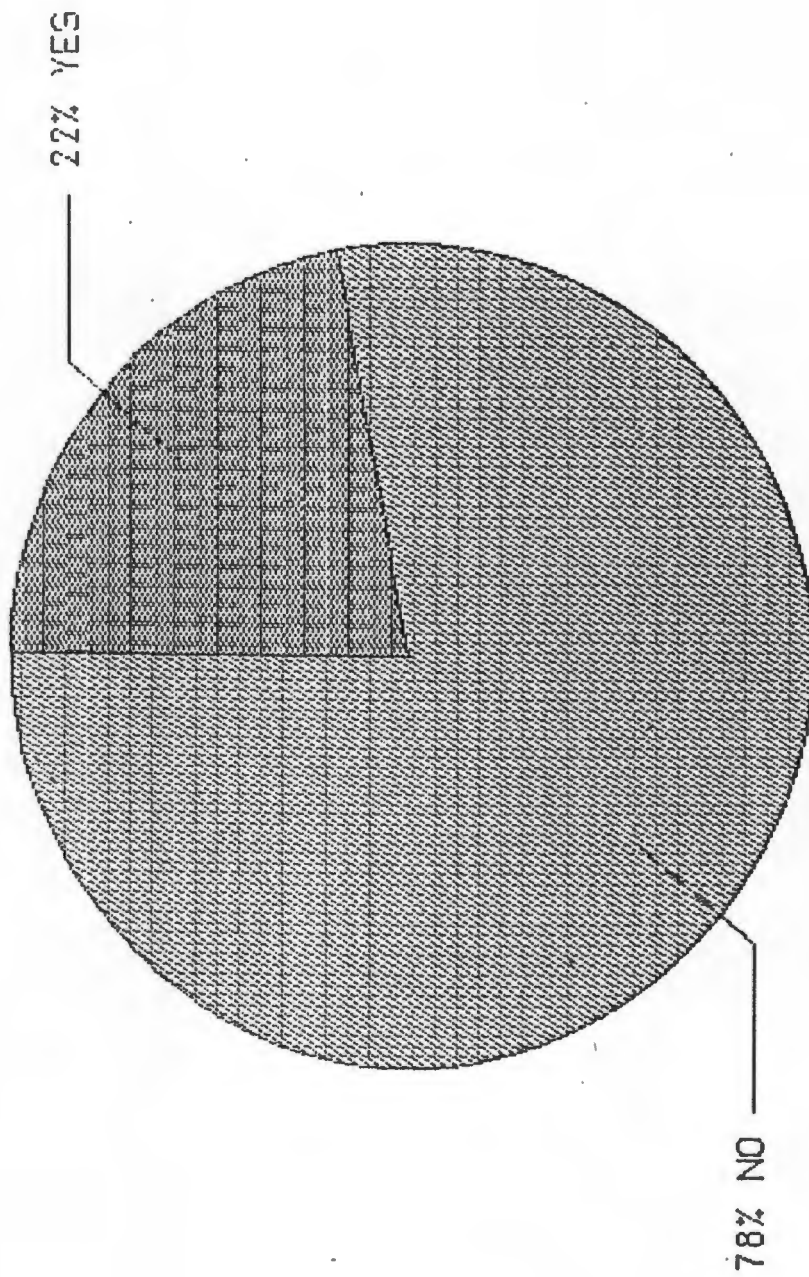
FATALITIES WHEN POISON APPLICATION=AREAL & MECHANICAL SURFACE

6% YES

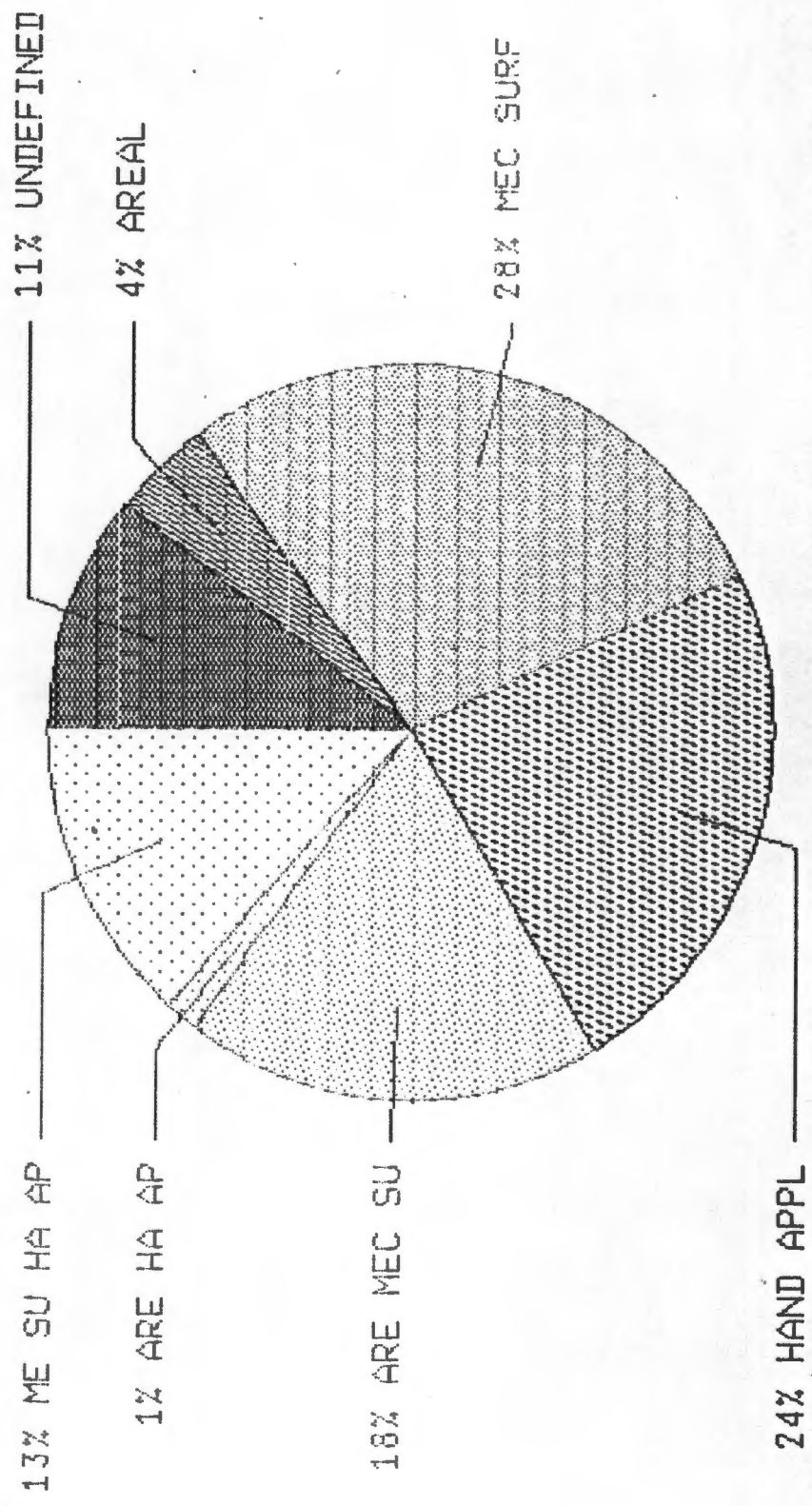


94% NO

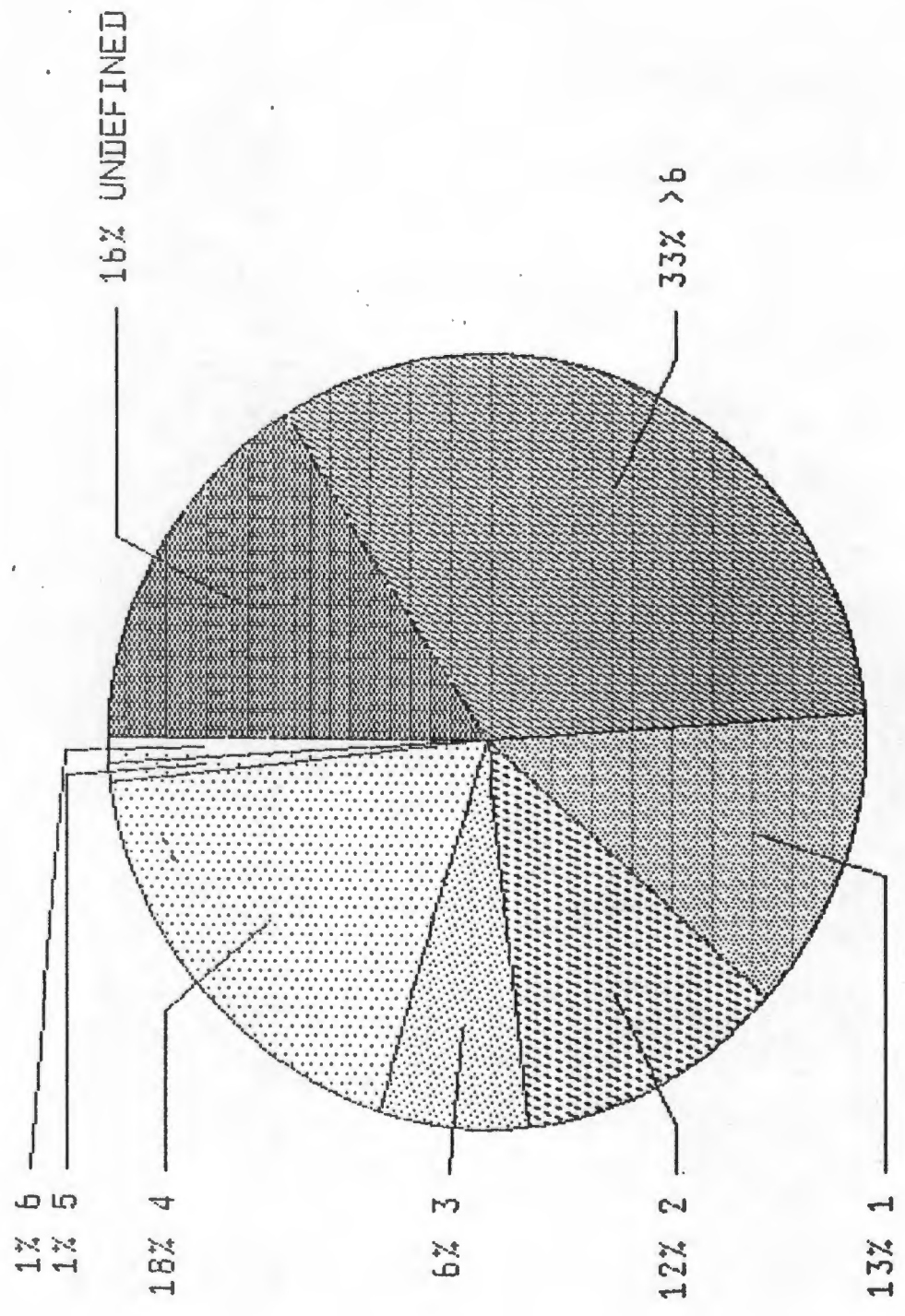
# FATALITIES WHEN POISON APPLICATION=MECHANICAL SURFACE & HAND APPL



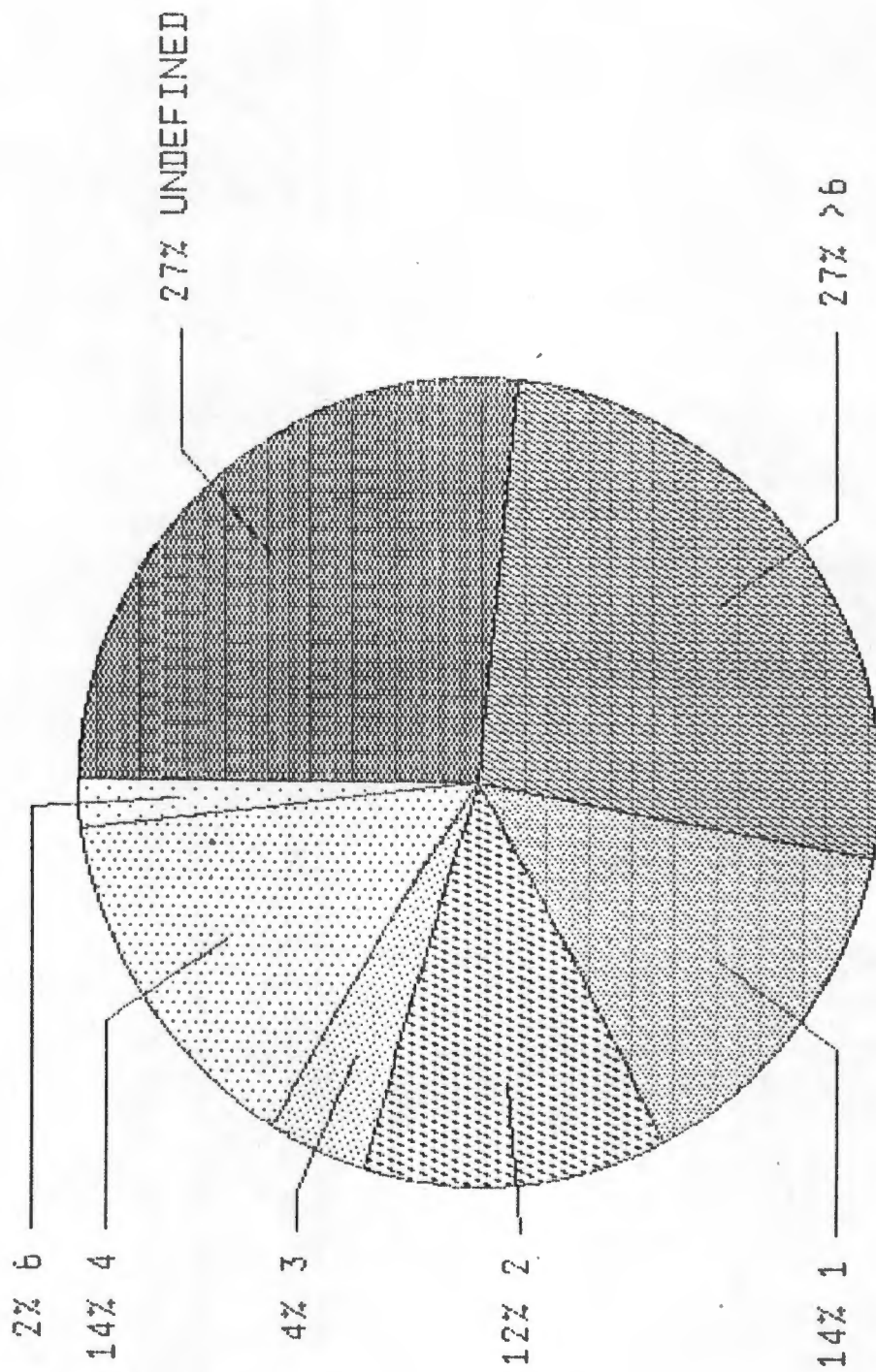
FATAL=NO PER METHODS OF POISON APPLICATION



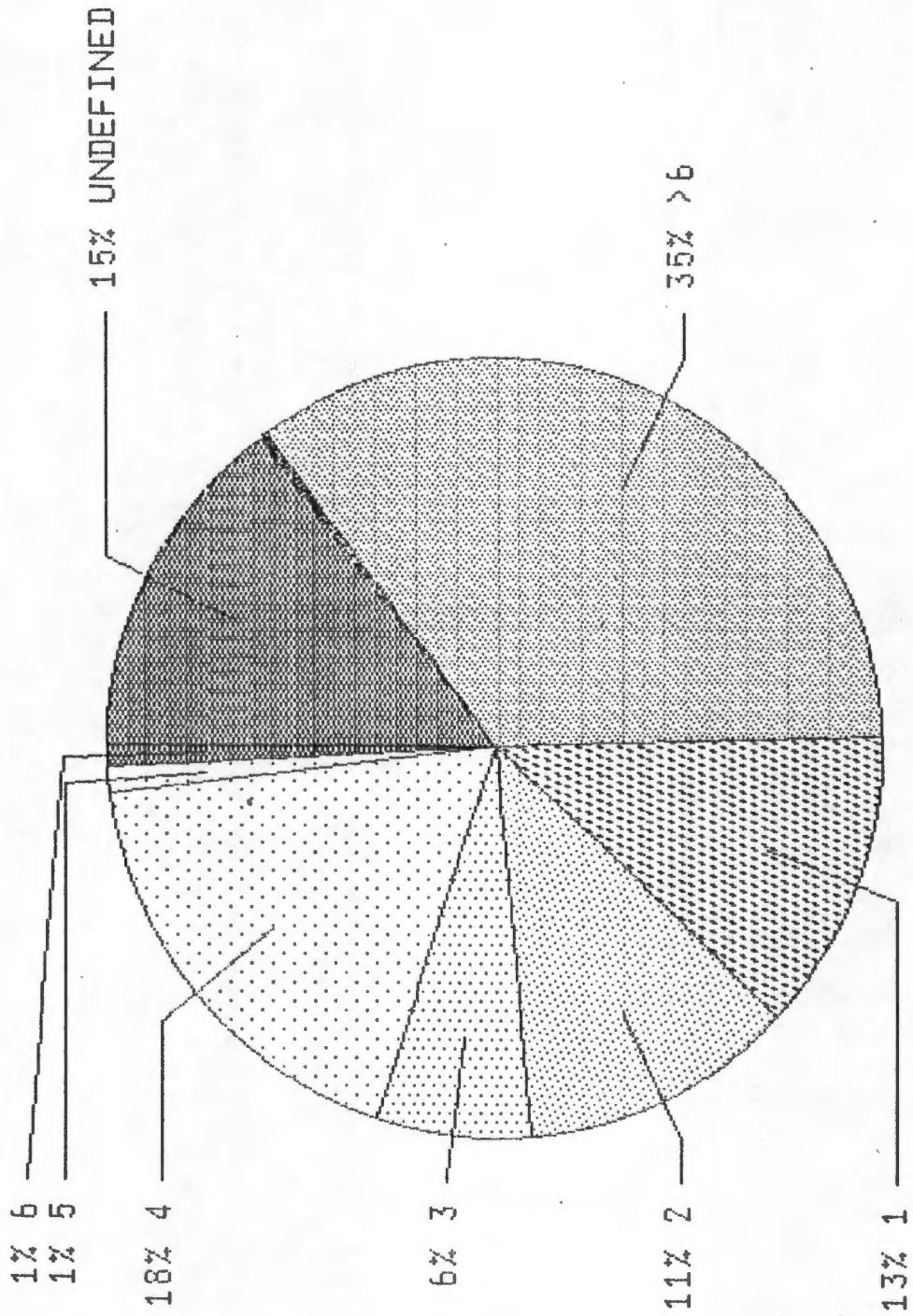
HOSPITALISATION=YES PER FREQUENCY OF POISON USED



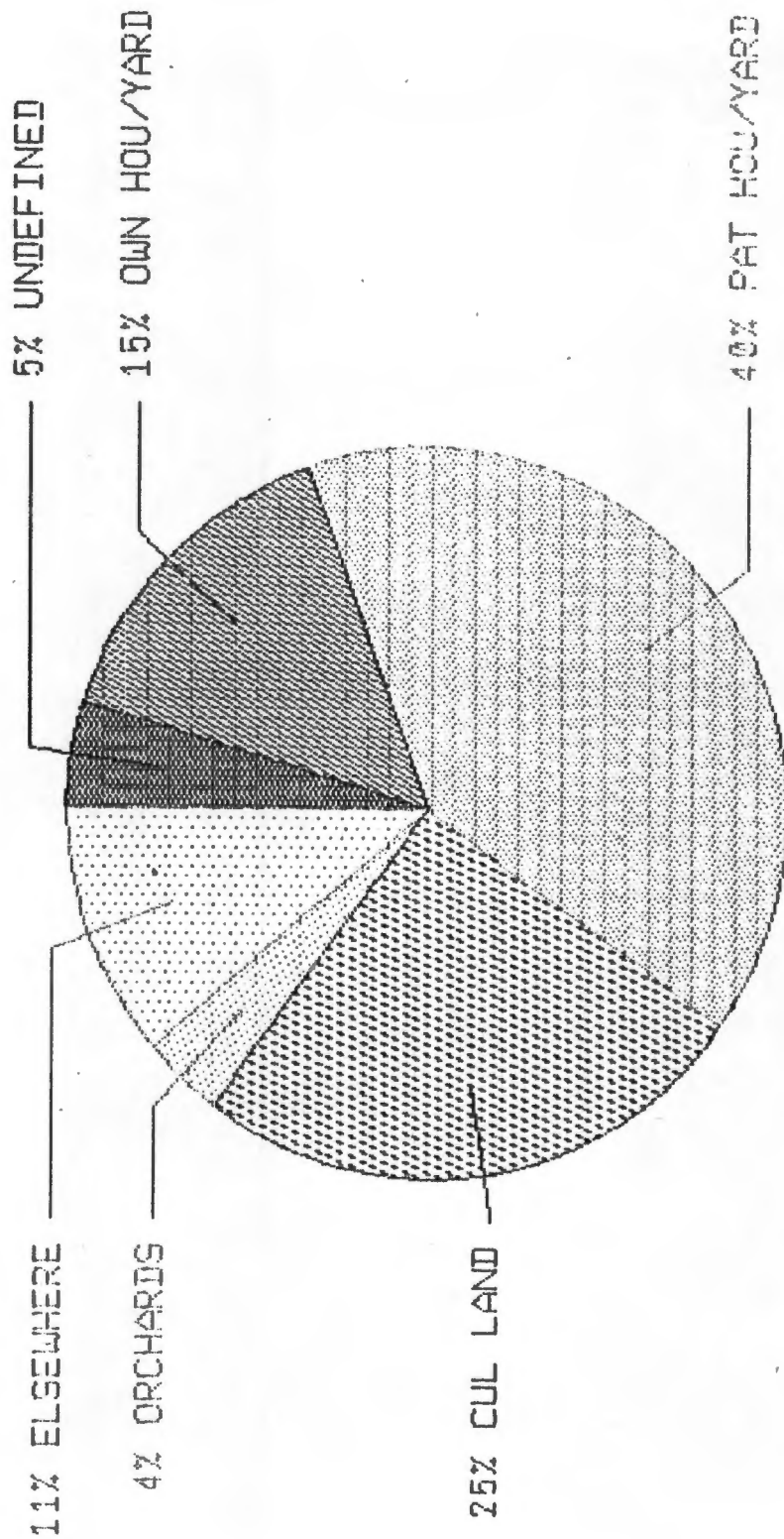
# FATALITIES=YES PER FREQUENCY OF POISON USED



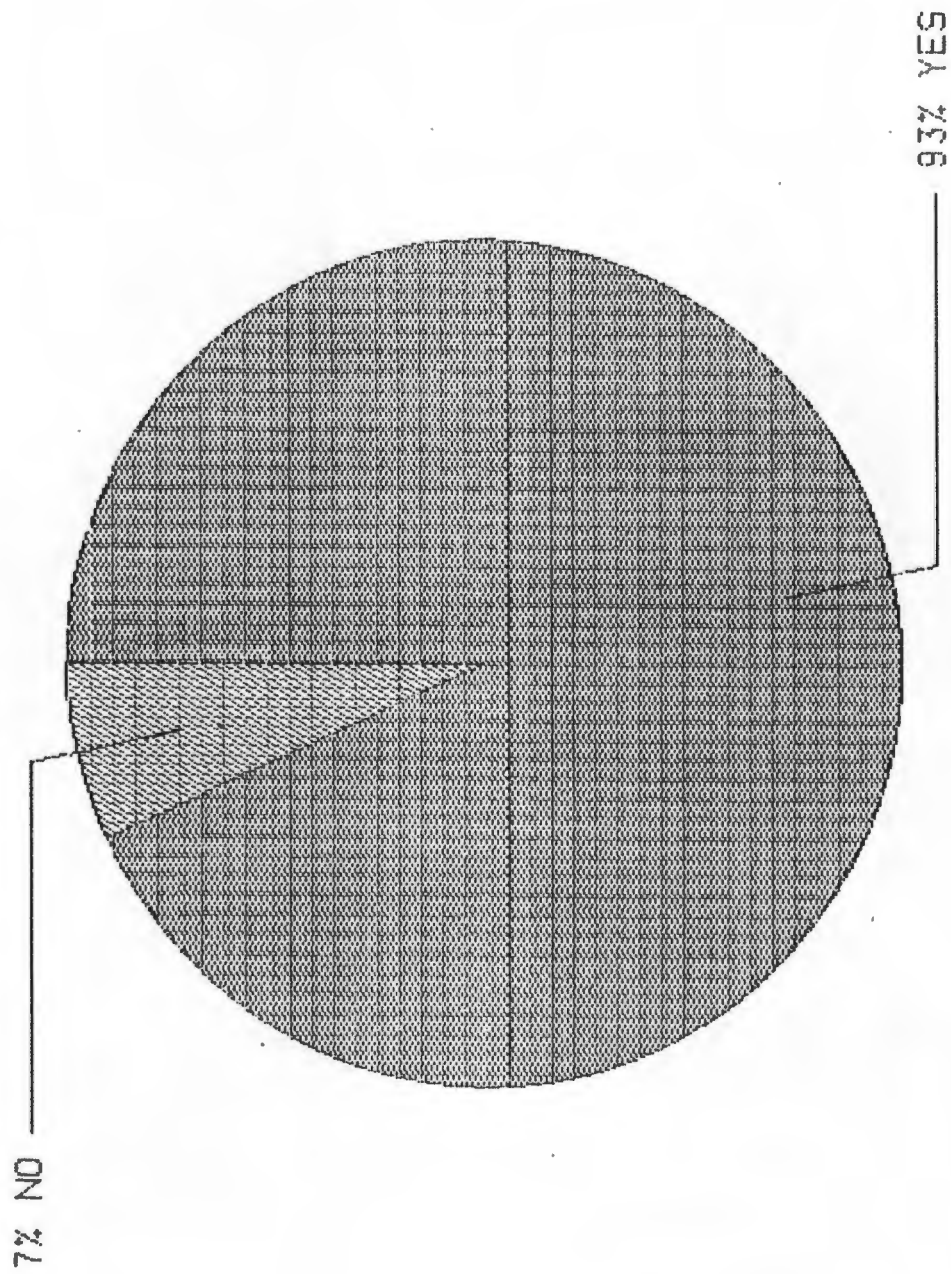
# FATALITIES=NO PER FREQUENCY OF POISON USED



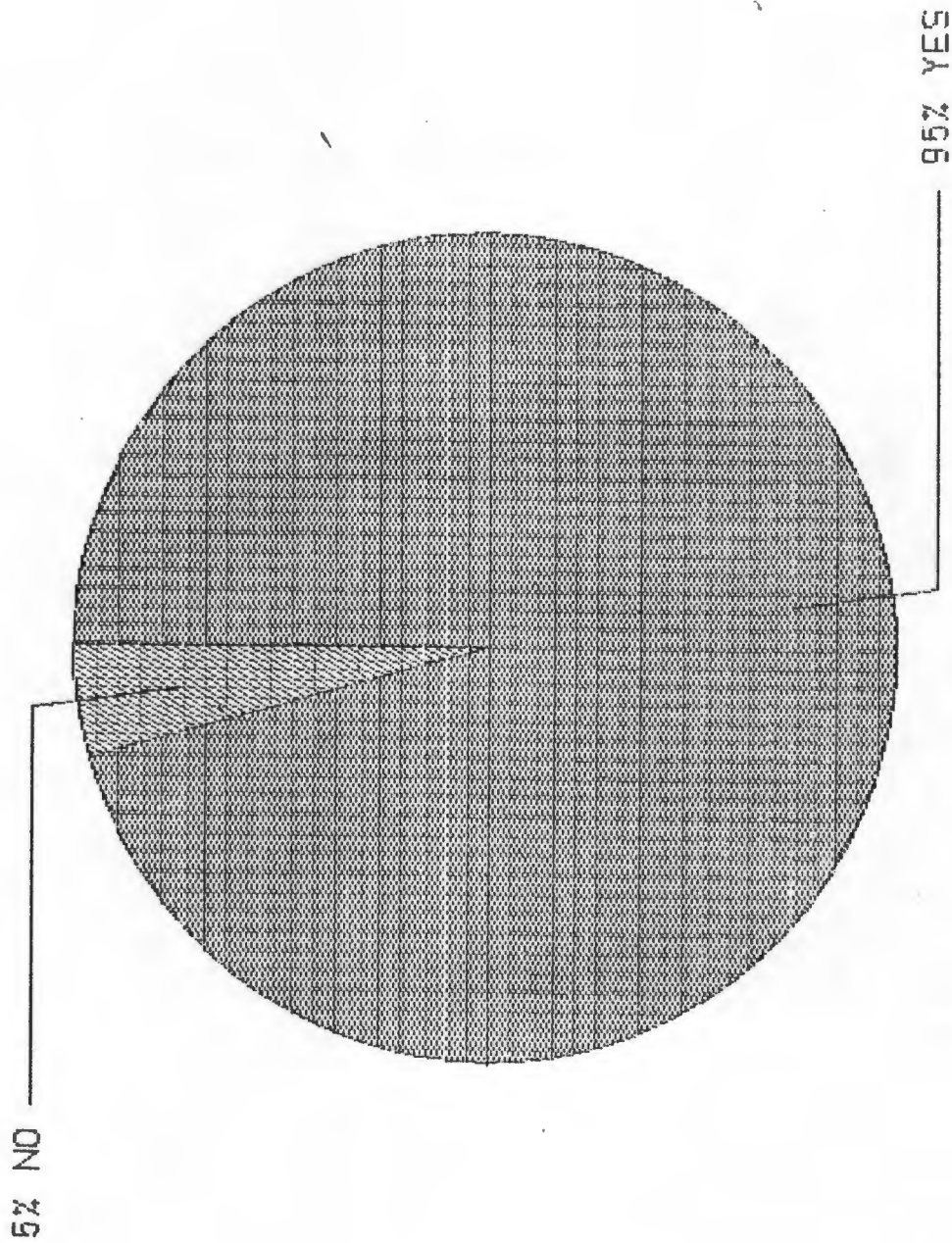
HOSPITALISED=YES PER LOCATION OF POISONING



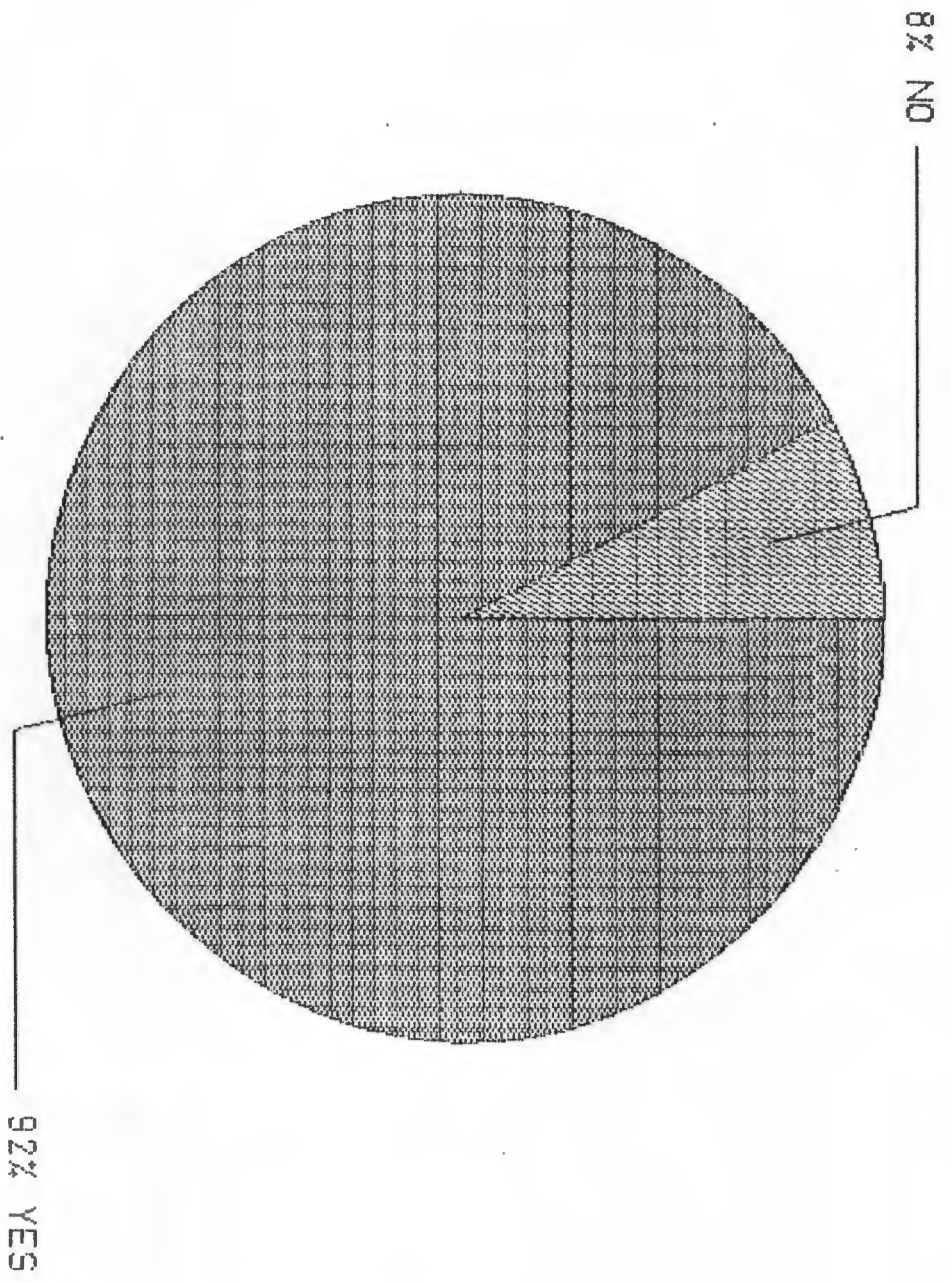
HOSPITALISED WHEN LOCATION OF POISONING=OWNER HOUSE OR YARD



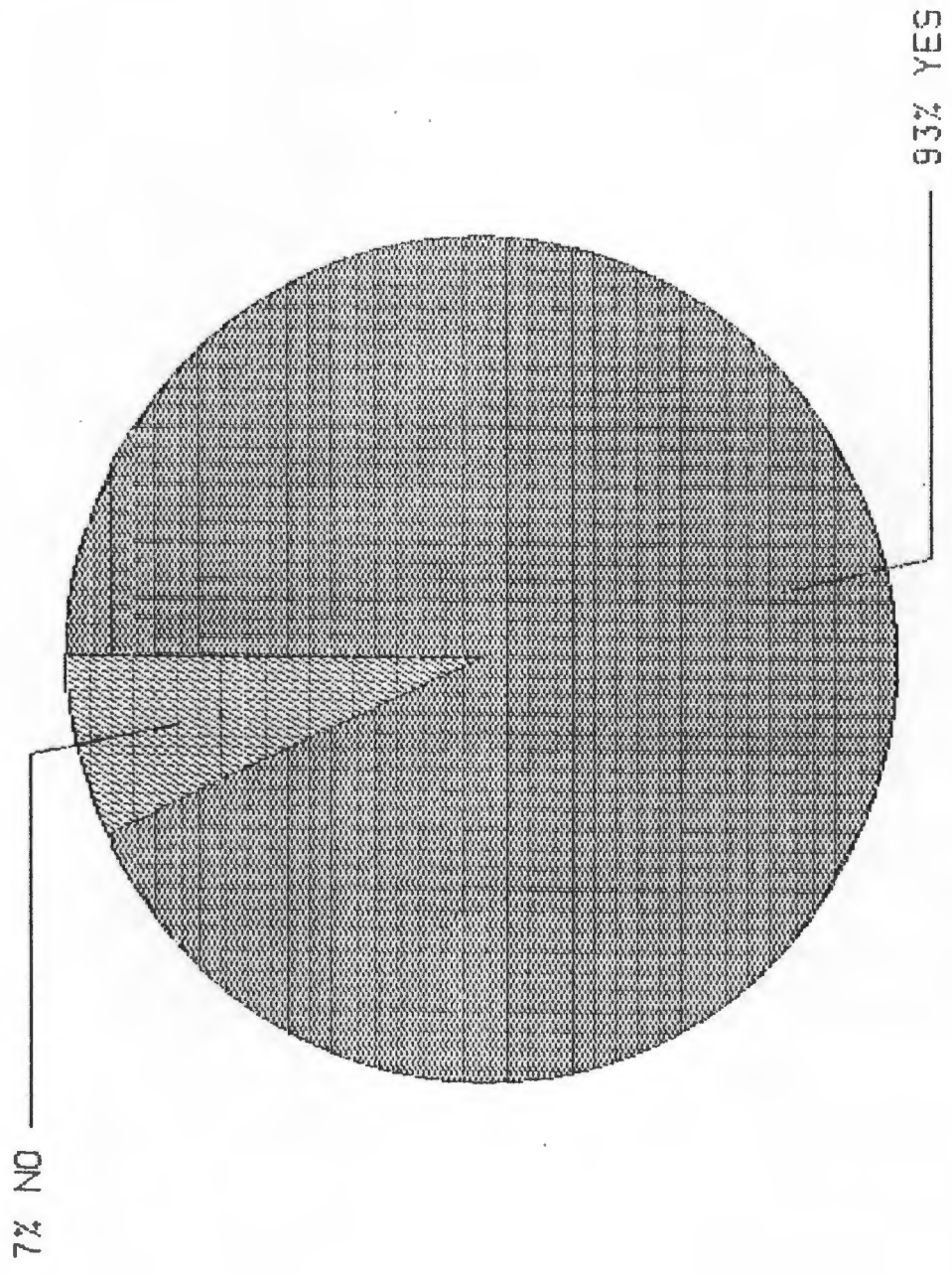
HOSPITALISED WHEN LOCATION OF POISONING=PATIENTS HOUSE OR YARD



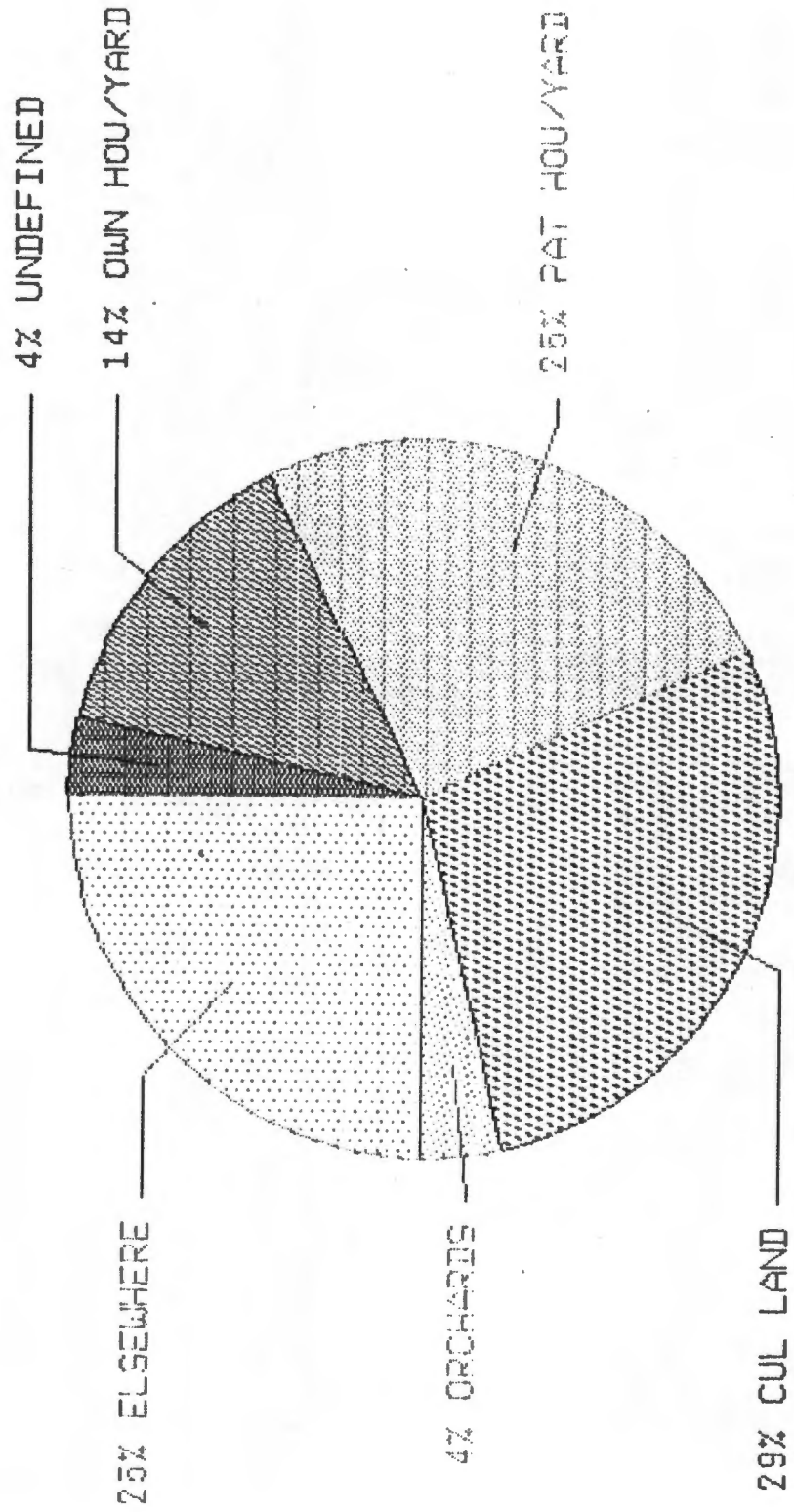
HOSPITALISED WHEN LOCATION OF POISONING=CULTIVATED LAND



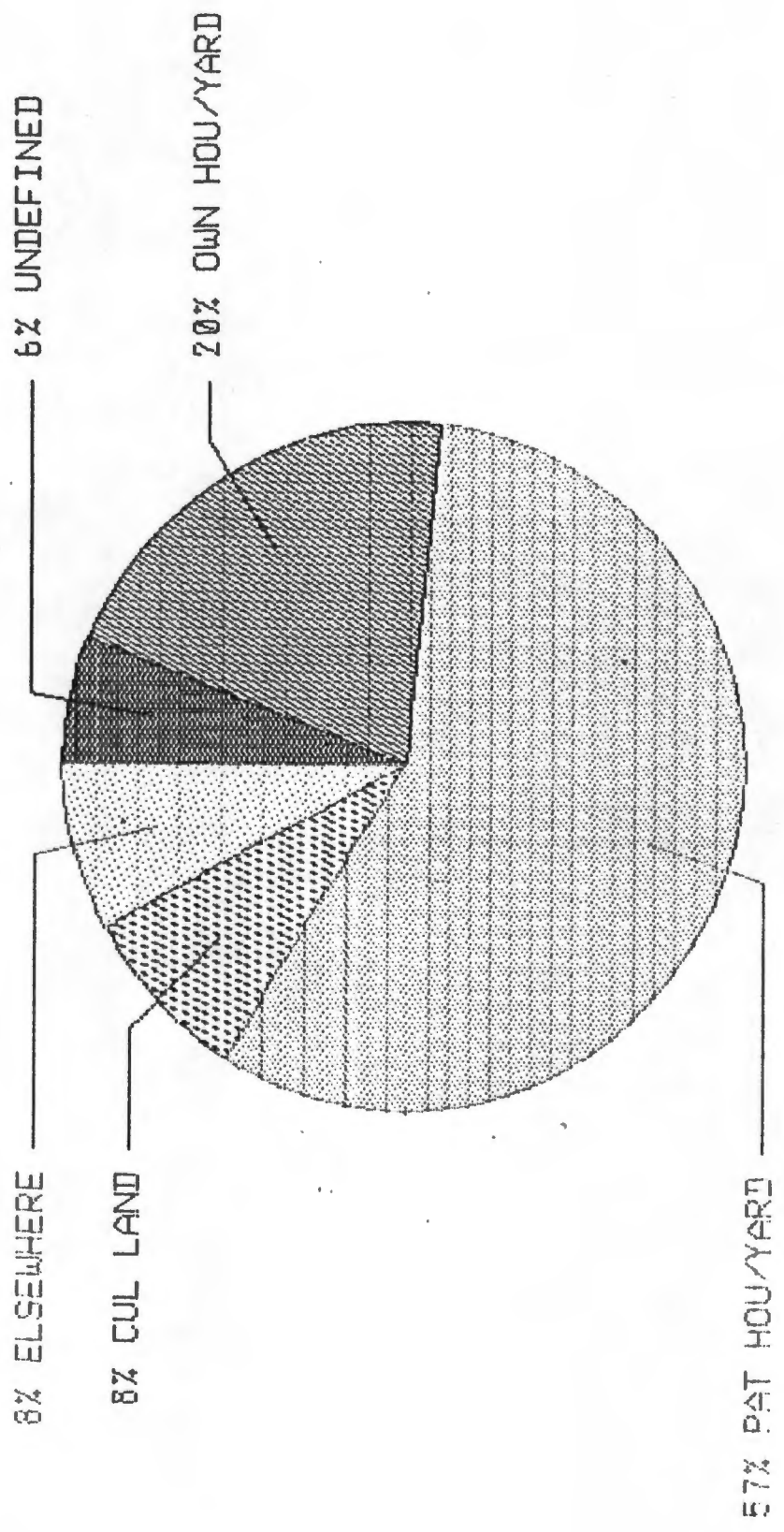
# HOSPITALISED WHEN LOCATION OF POISONING=ORCHARDS



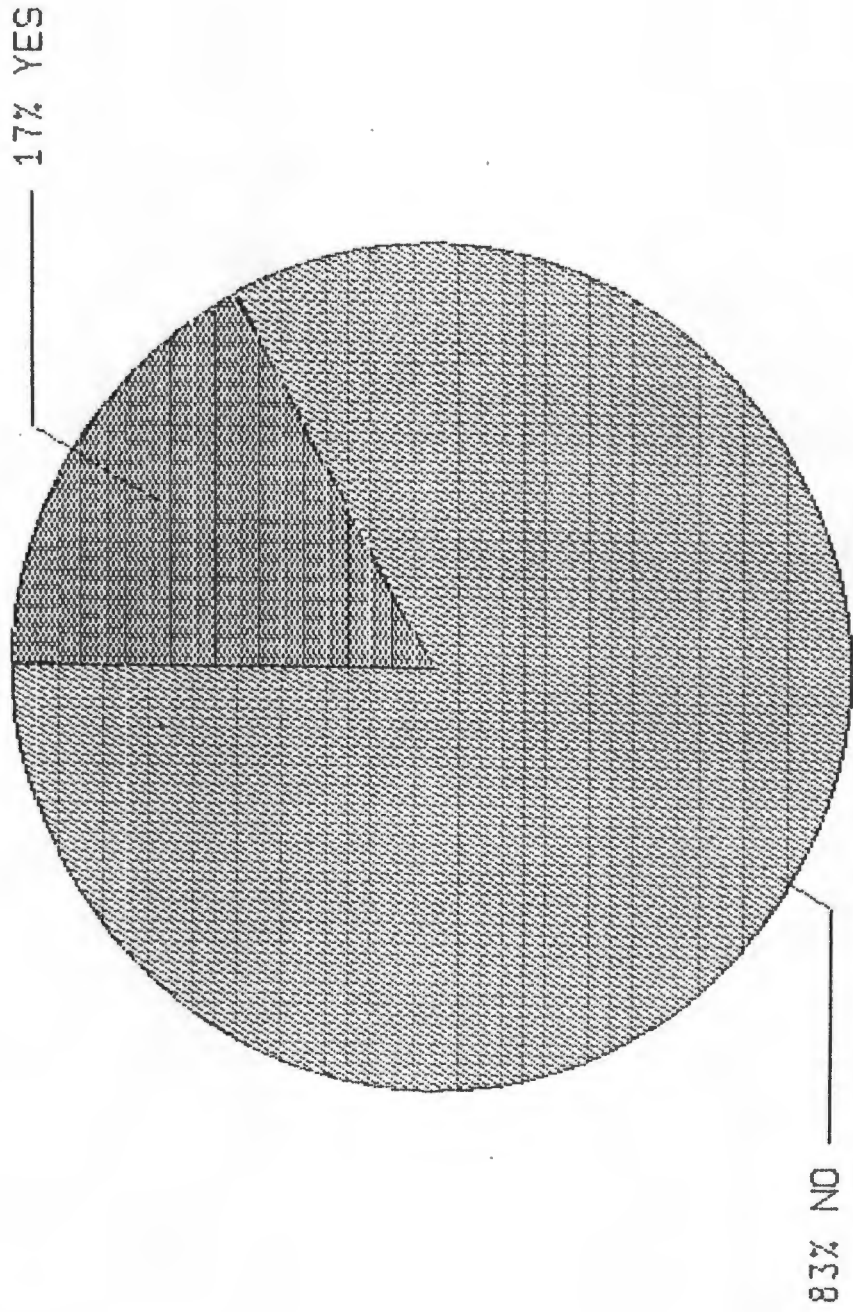
HOSPITALISED=NO PER LOCATION OF POISONING



FATAL=YES PER LOCATION OF POISONING



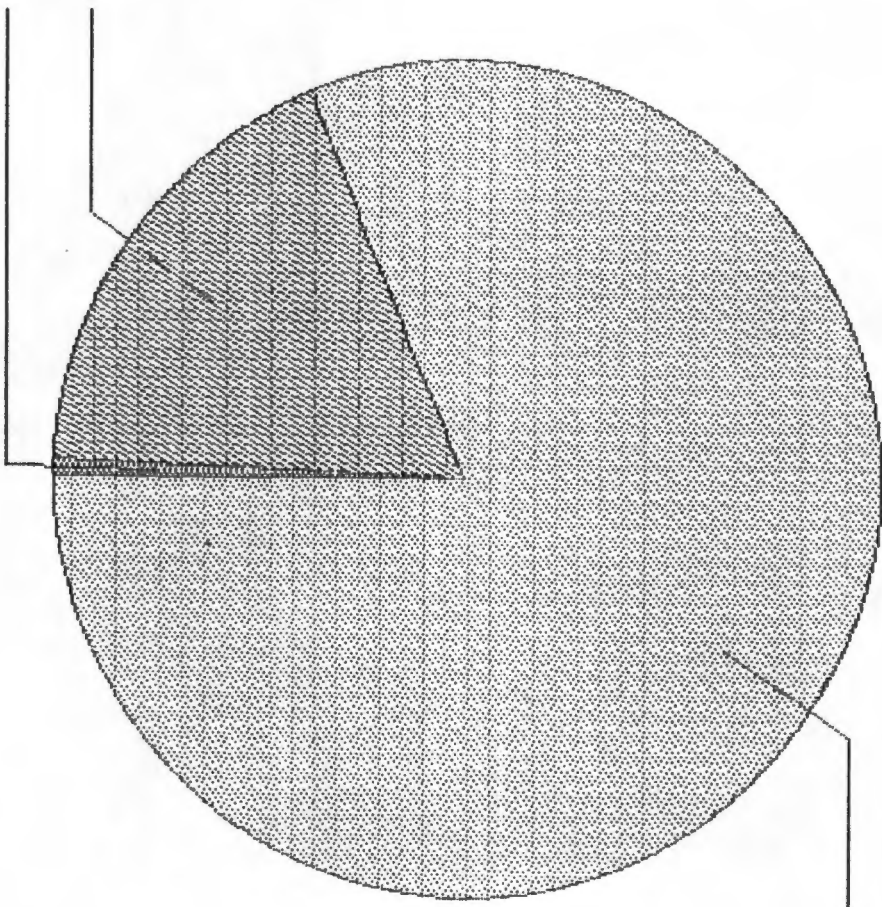
FATALITIES WHEN LOCATION OF POISONING=OWNER HOUSE OR YARD



FATALITIES WHEN LOCATION OF POISONING=PATIENTS HOUSE OR YARD

1% UNDEFINED

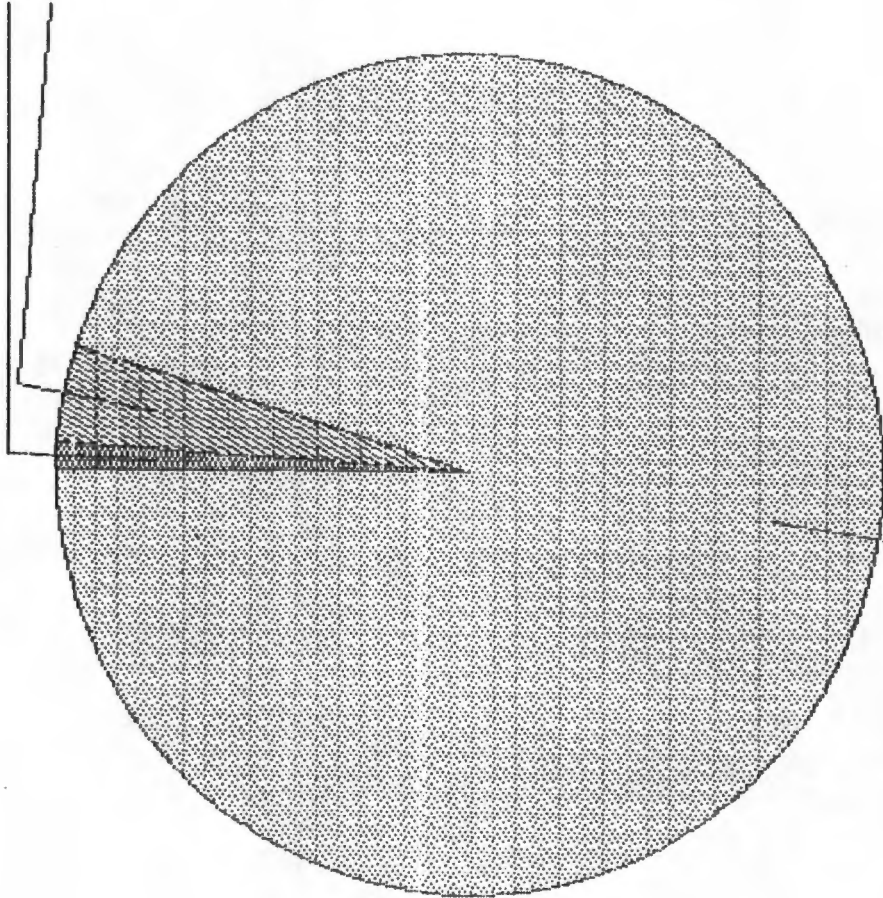
18% YES



81% NO

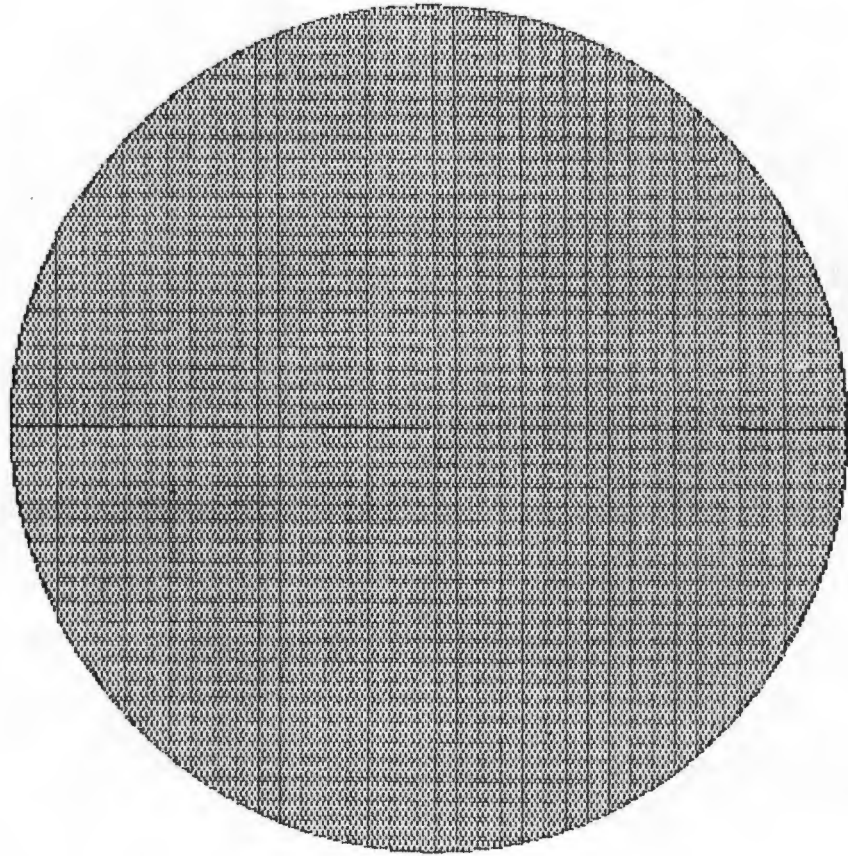
FATALITIES WHEN LOCATION OF POISONING=CULTIVATED LAND

1% UNDEFINED  
4% YES



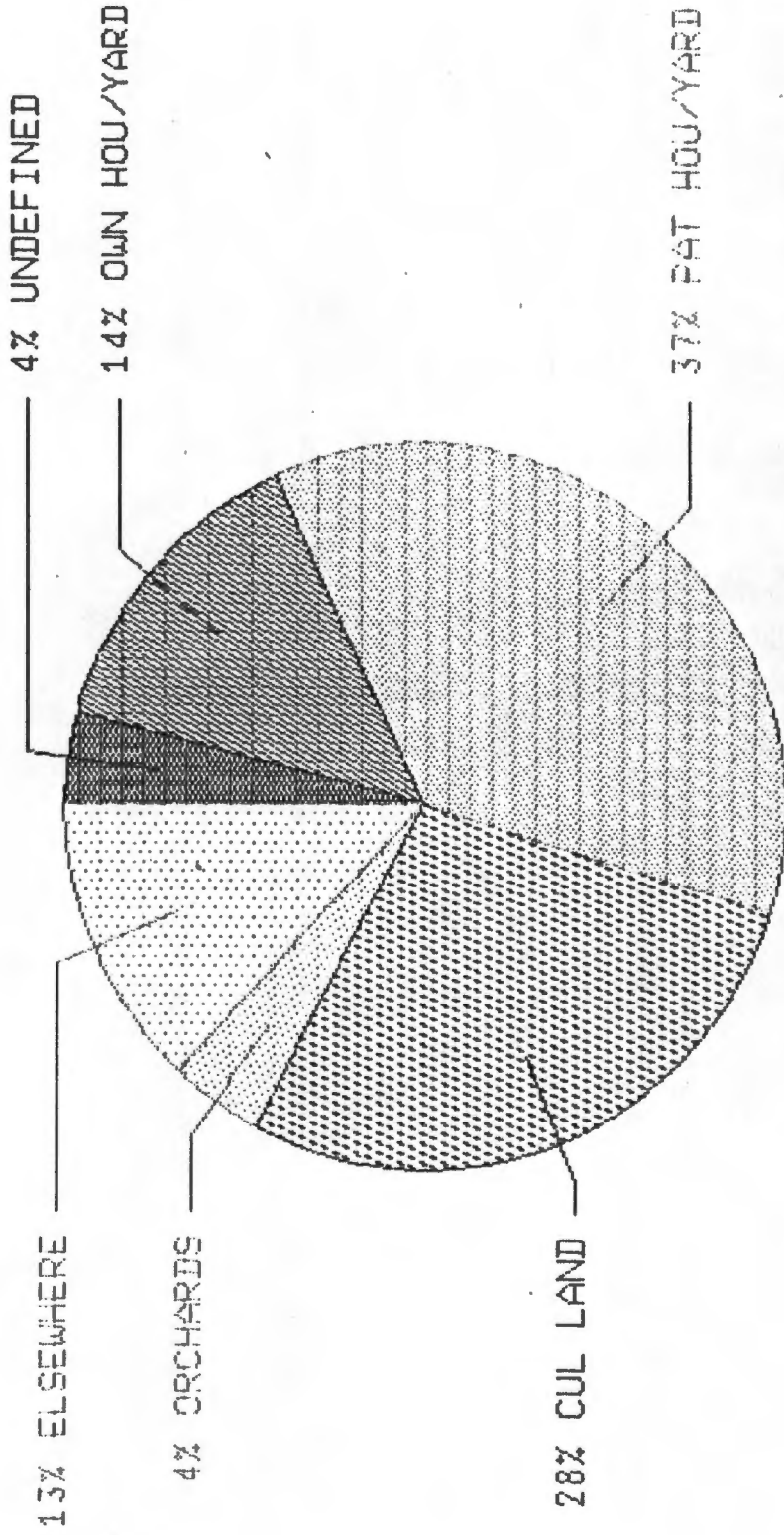
95% NO

FATALITIES WHEN LOCATION OF POISONING = ORCHARDS

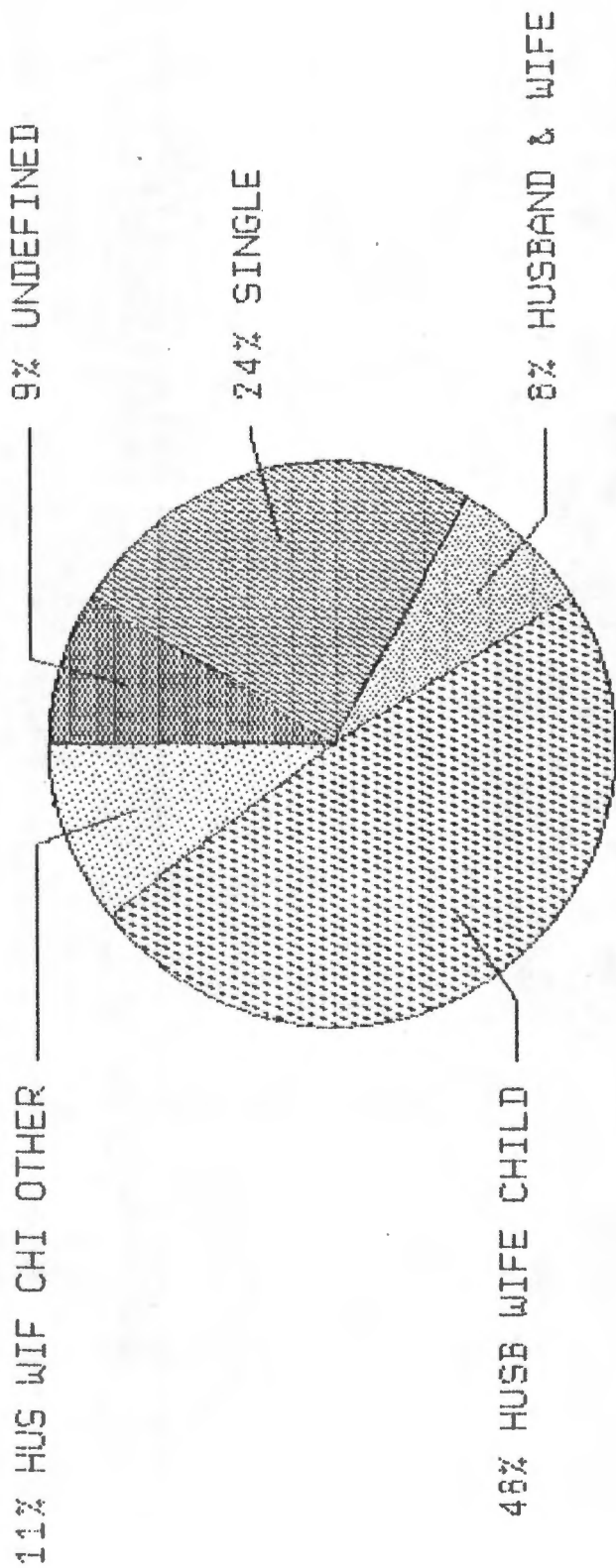


100% NO

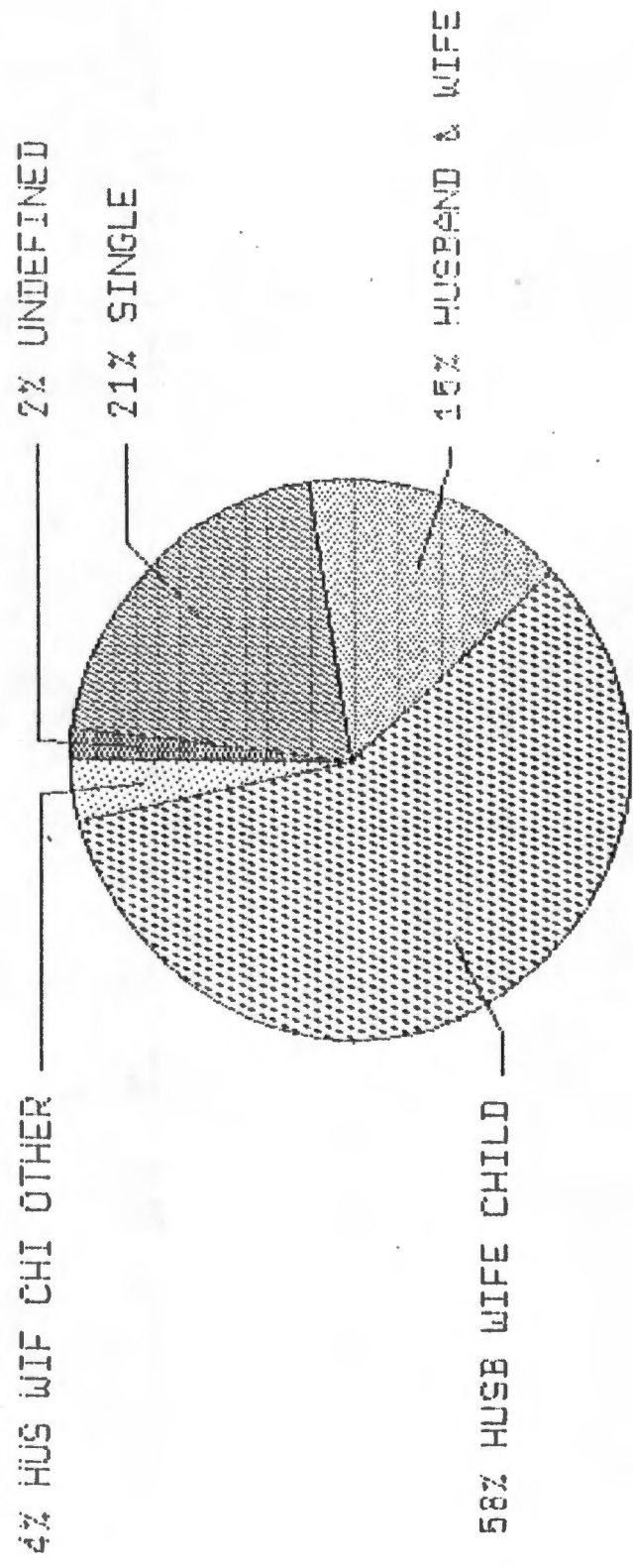
FATAL=NO PER LOCATION OF POISONING



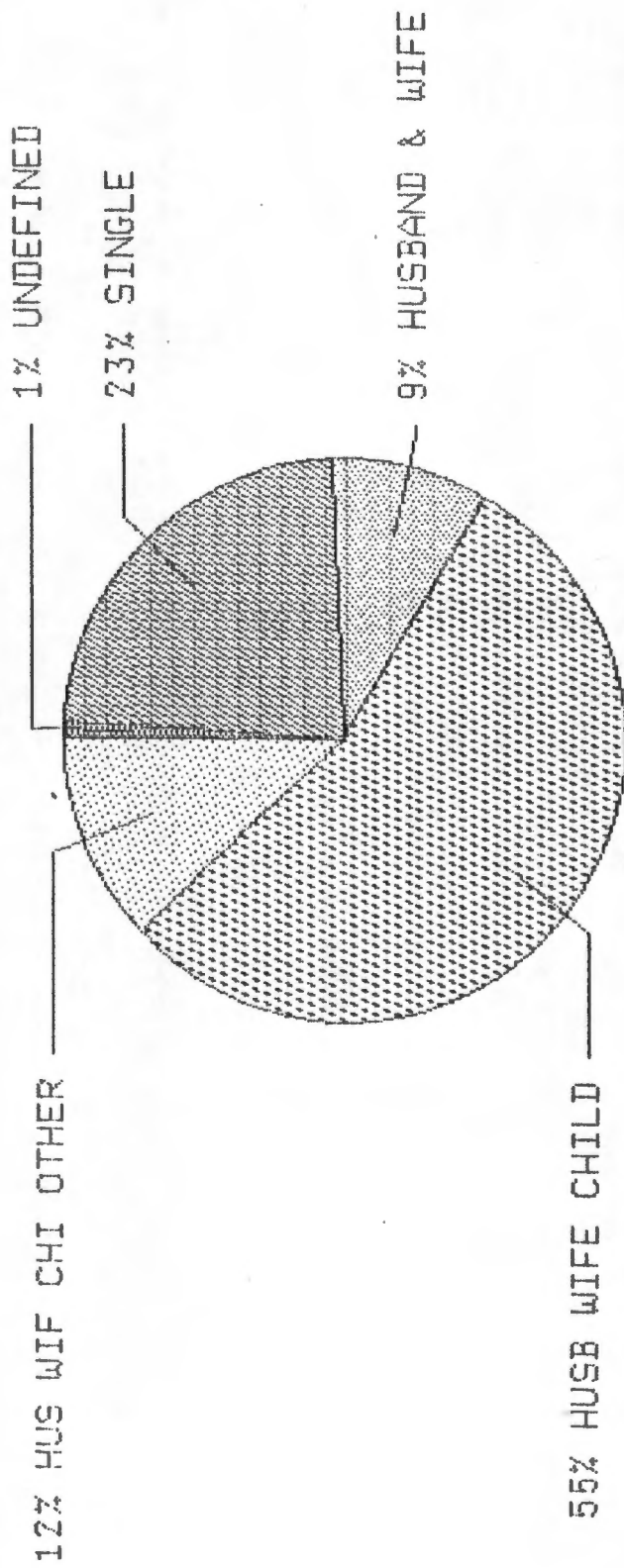
COMPOSITION OF FAMILIES WORKING ON FARMS



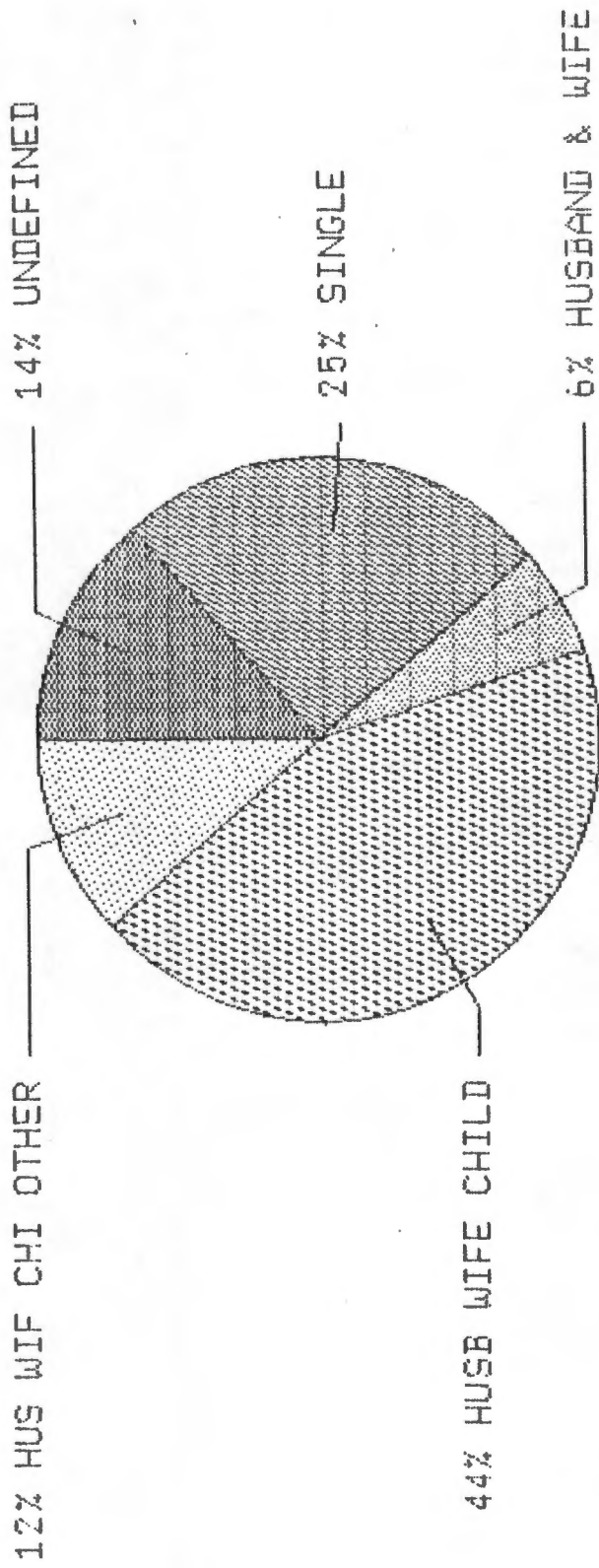
RACE=WHITE / COMPOSITION OF FAMILIES



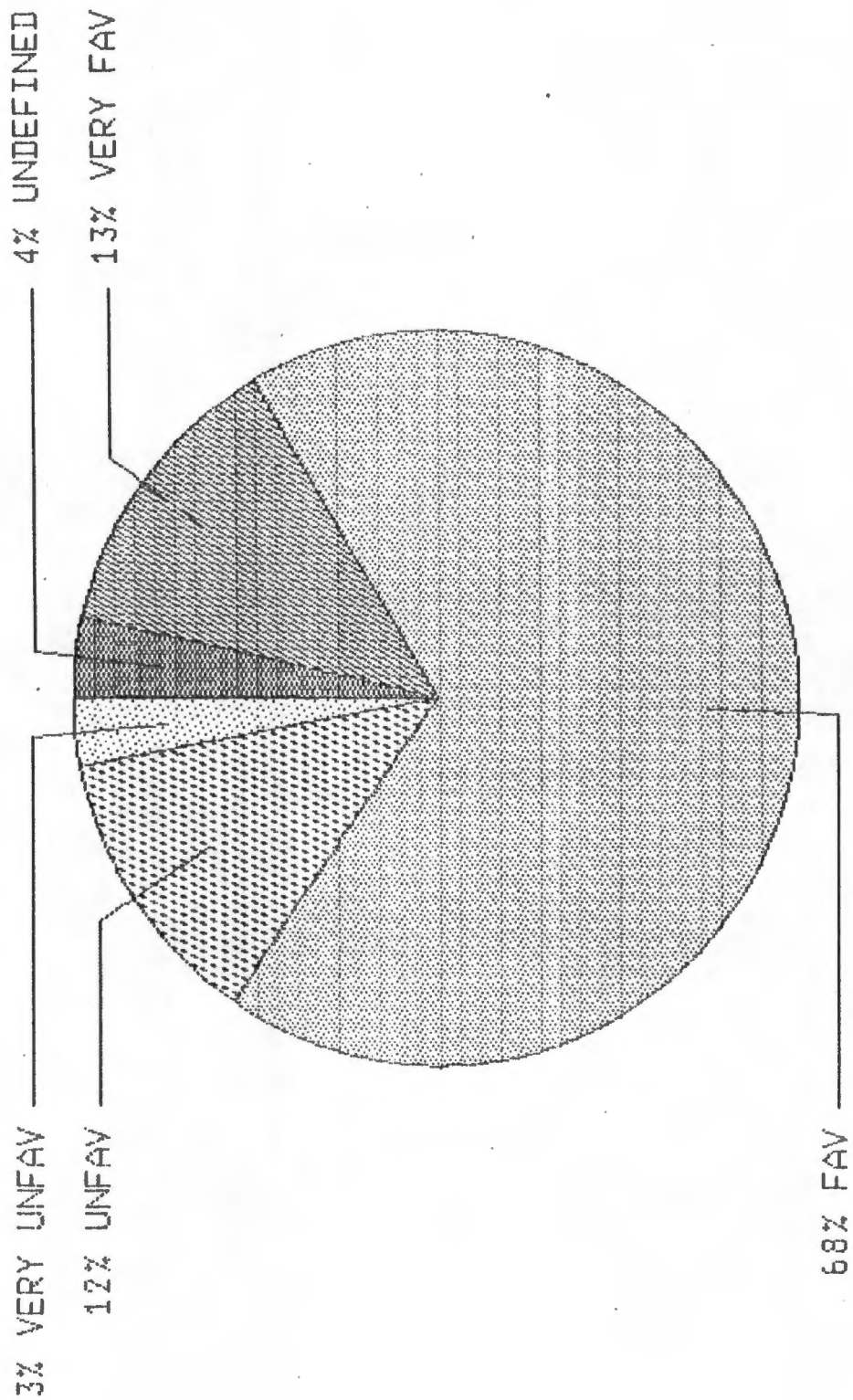
RACE=COLOURED / COMPOSITION OF FAMILIES



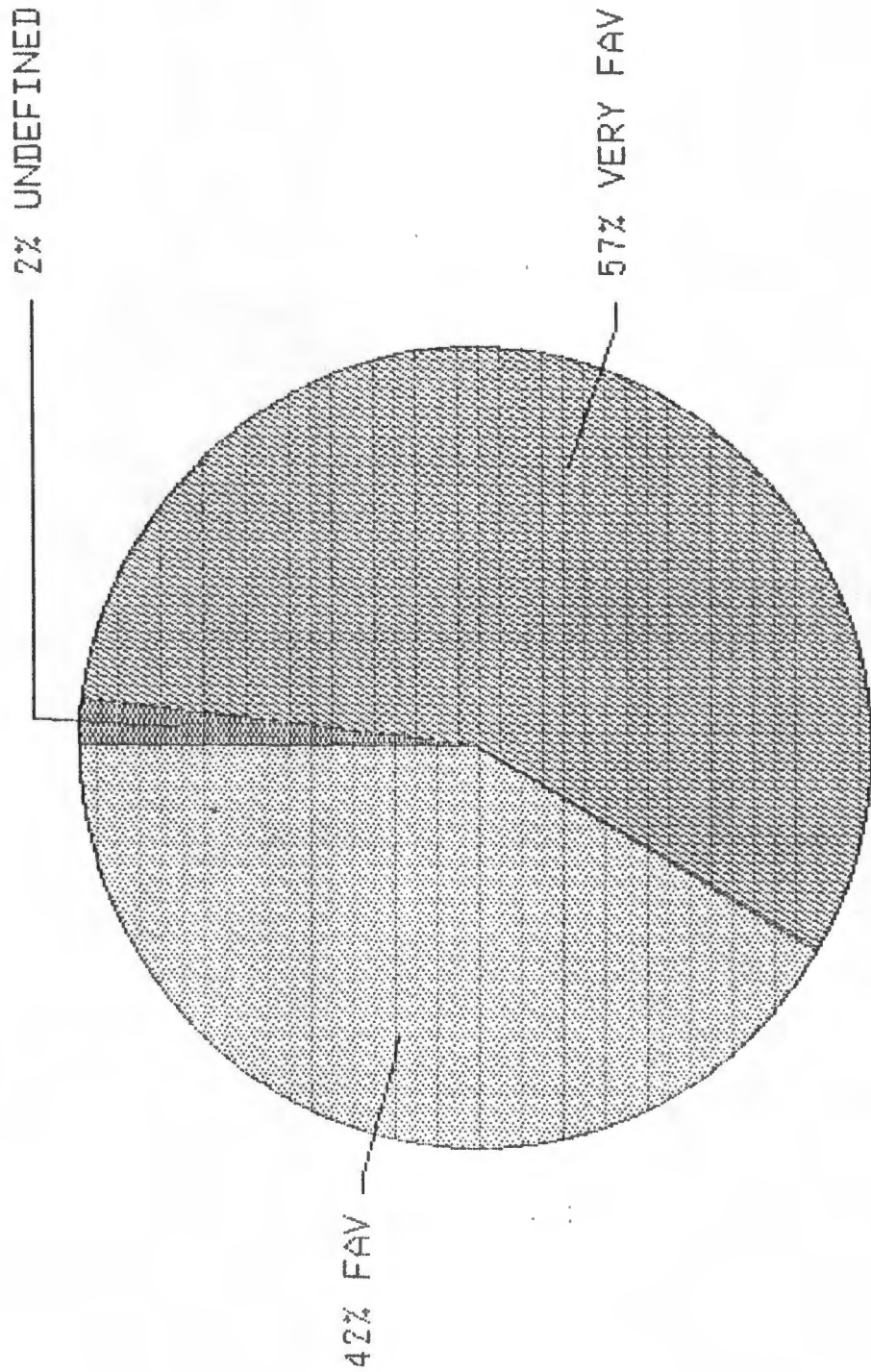
RACE=BLACK / COMPOSITION OF FAMILIES



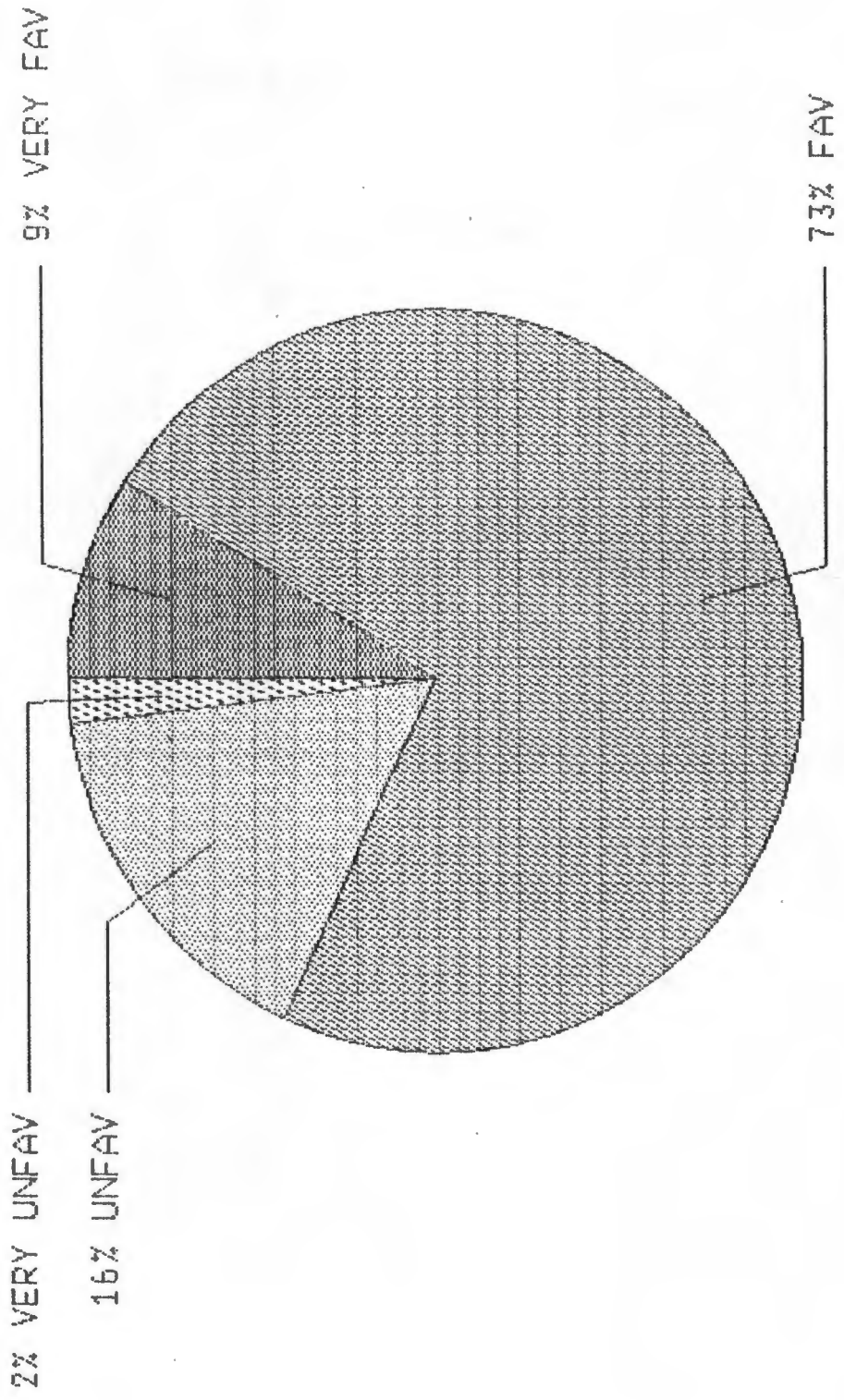
# HOUSING ON FARMS



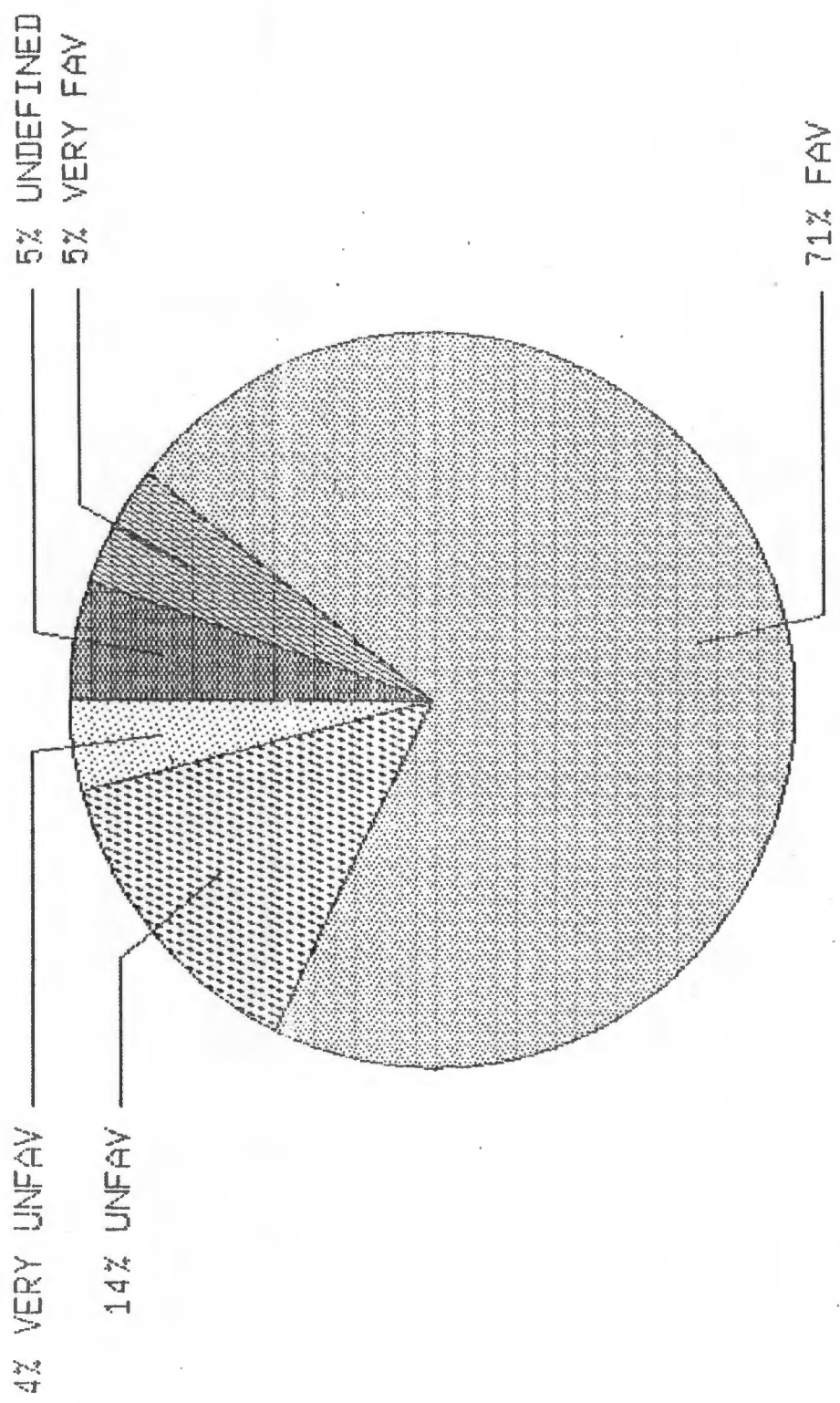
RACE=WHITE / HOUSING ON FARMS



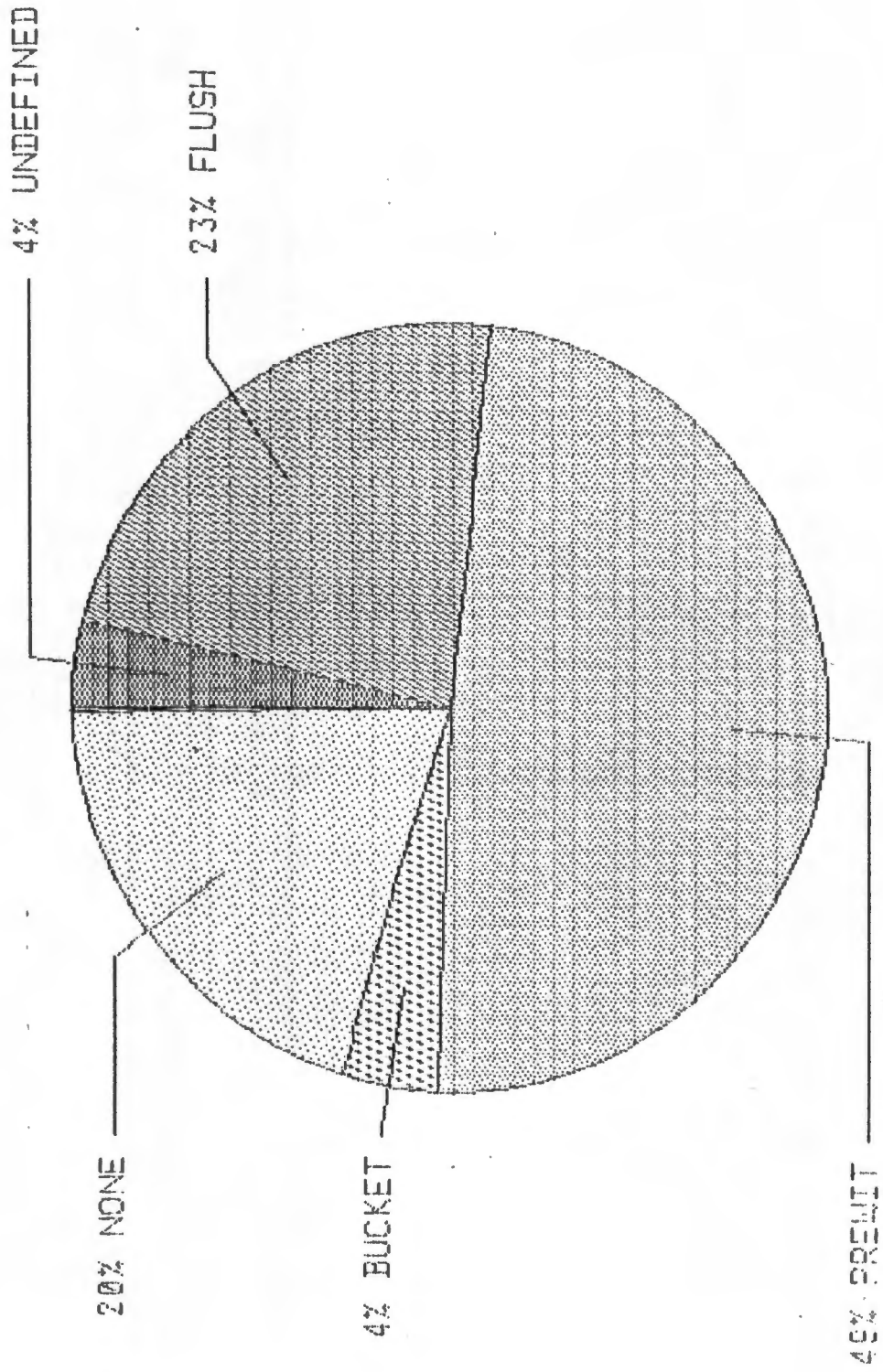
RACE=COLOURED / HOUSING ON FARMS



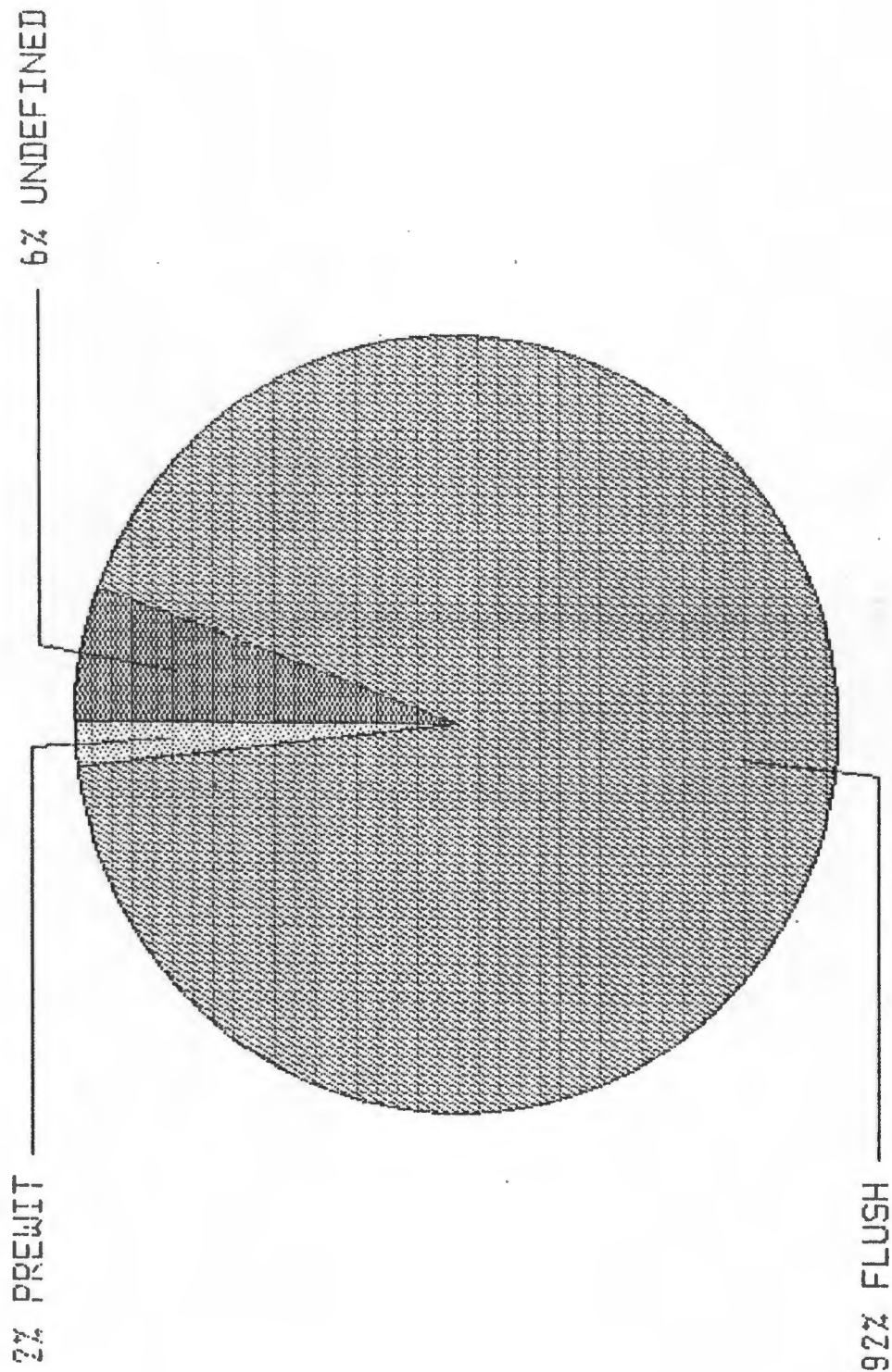
# RACE=BLACK / HOUSING ON FARMS



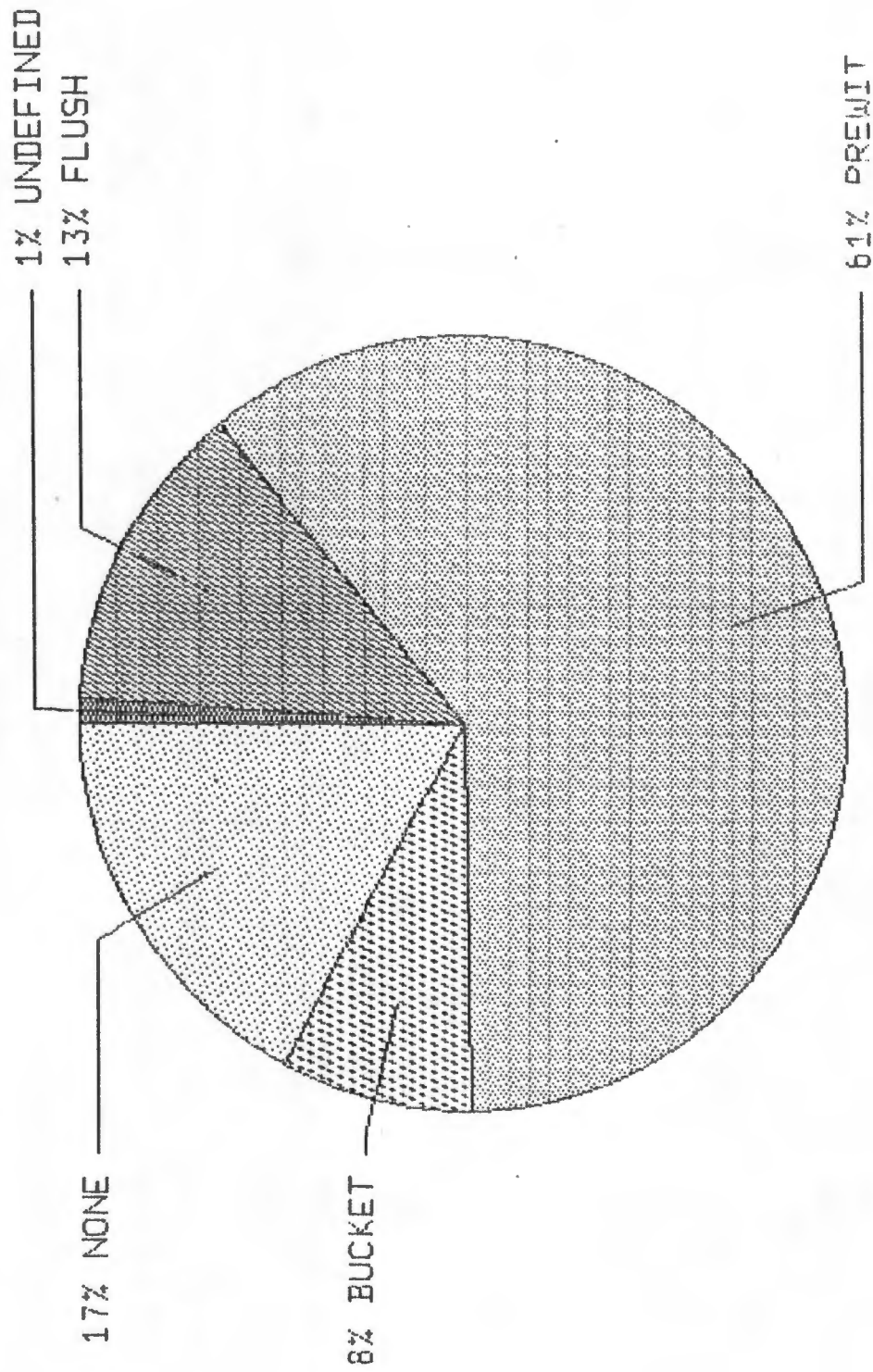
# AVAILABILITY OF LAVATORIES



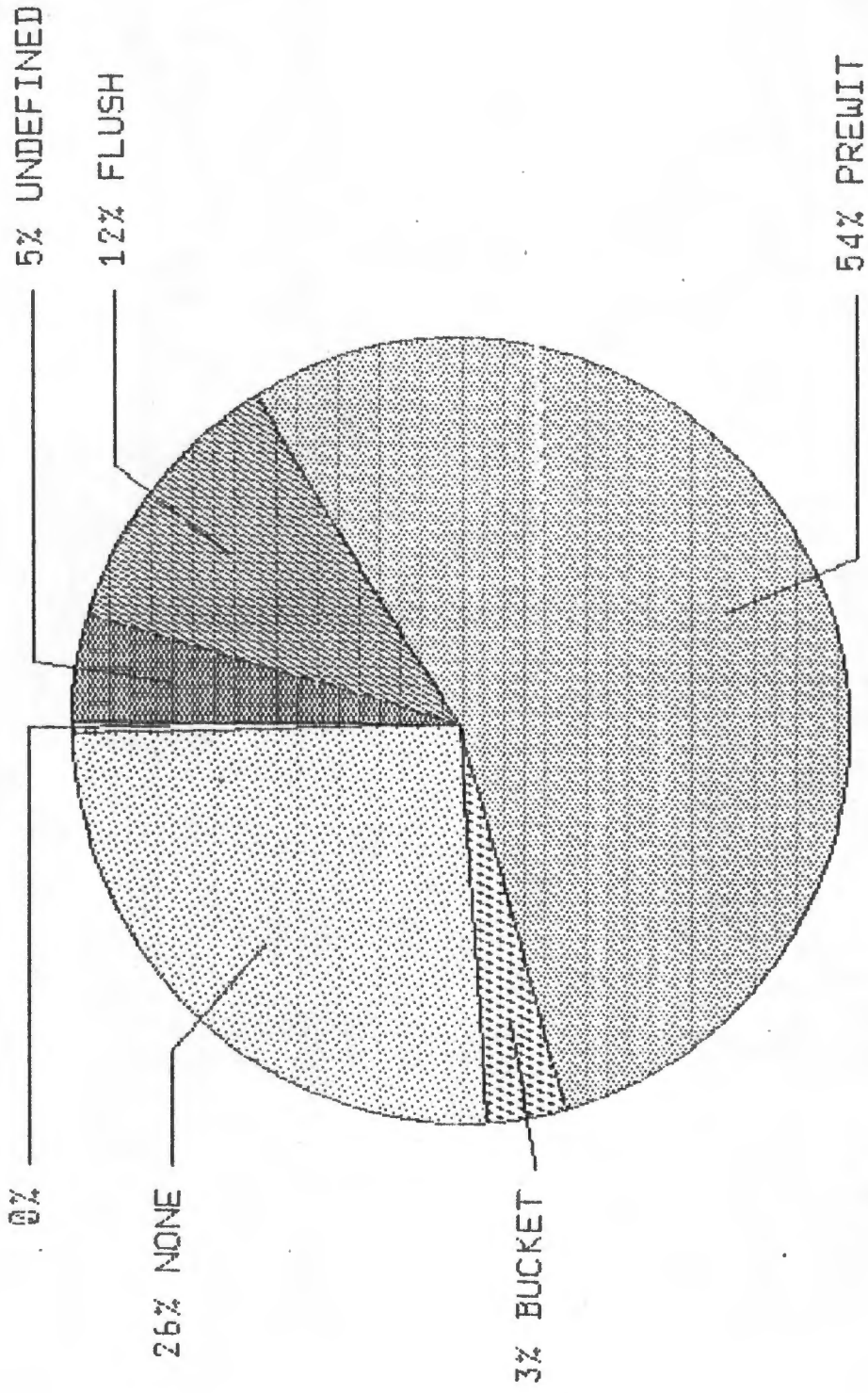
RACE=WHITE / AVAILABILITY OF LAVATORIES



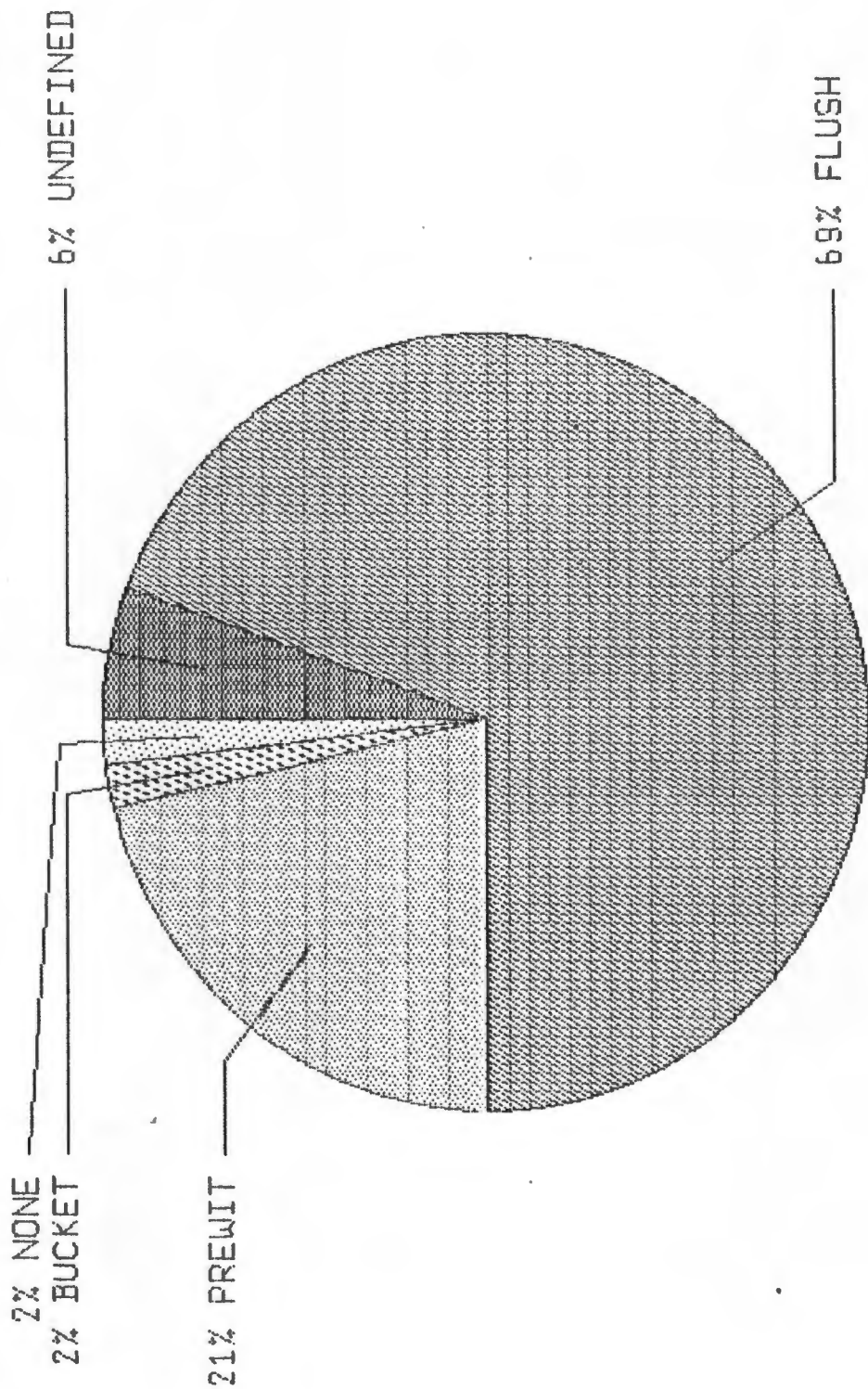
COLOURED / AVAILABILITY OF LAVATORIES



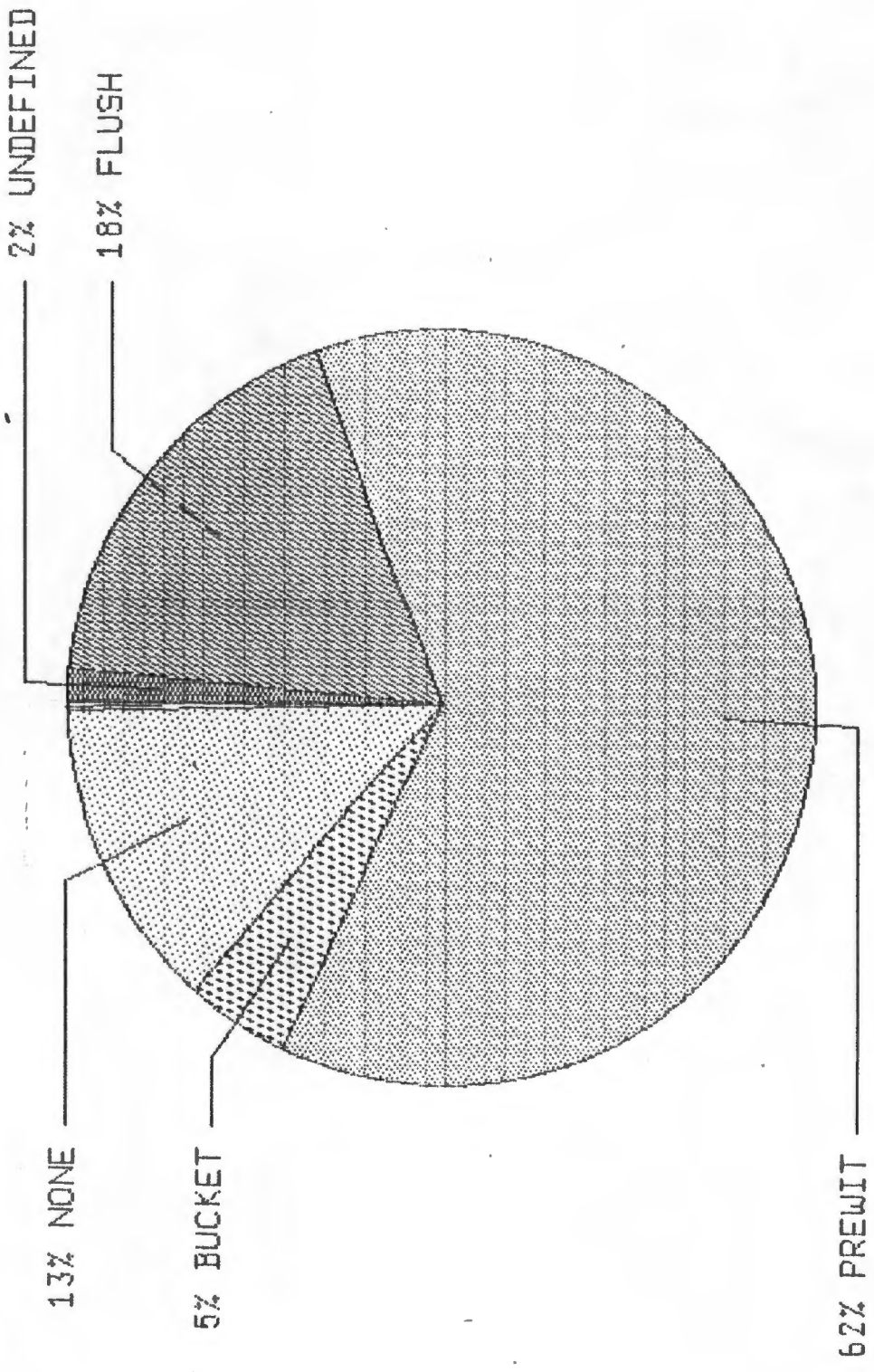
# BLACK / AVAILABILITY OF LAVATORIES



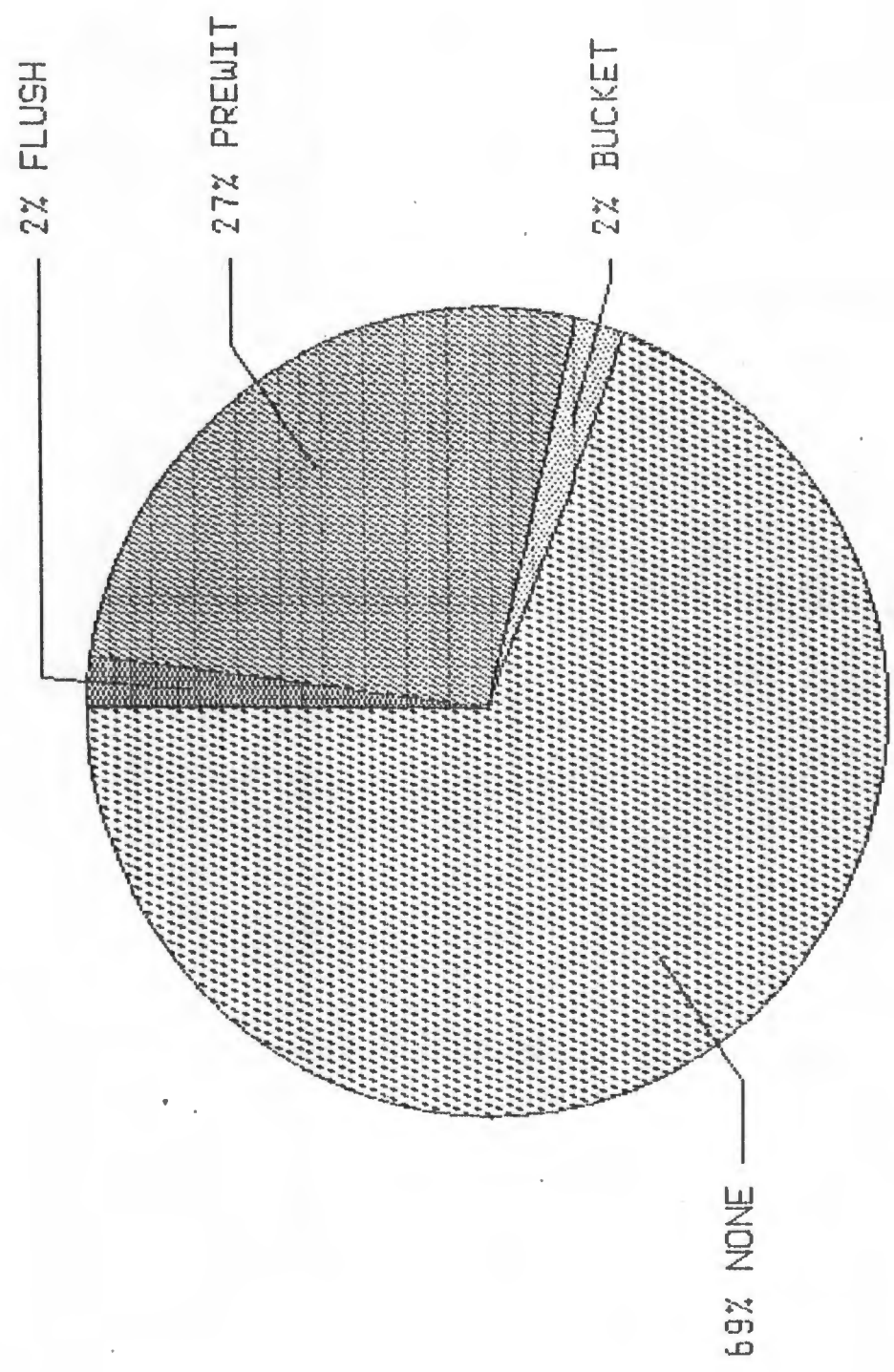
HOUSING VERY FAVOURABLE / AVAILABILITY OF LAVATORIES



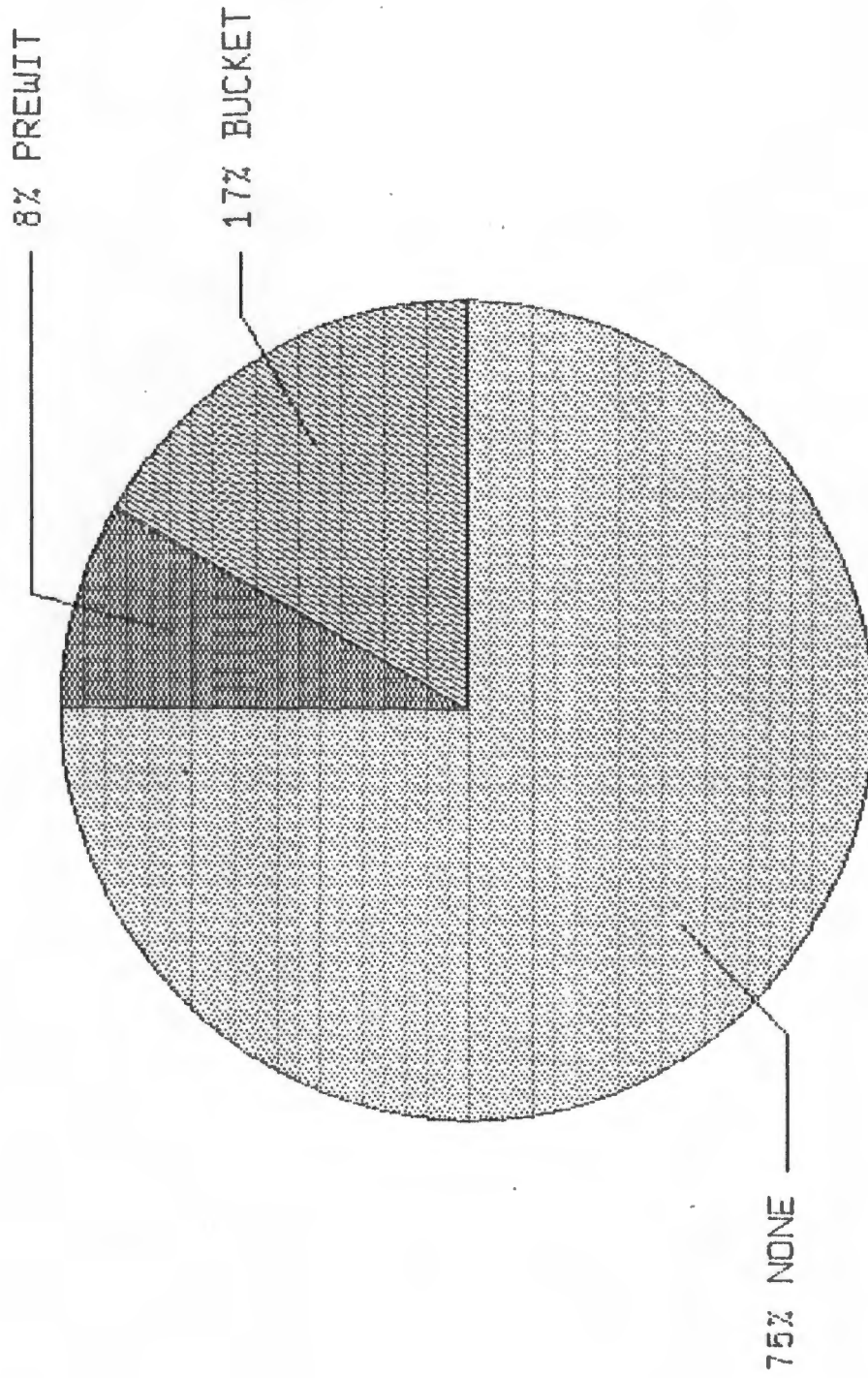
HOUSING FAVOURABLE / AVAILABILITY OF LAVATORIES



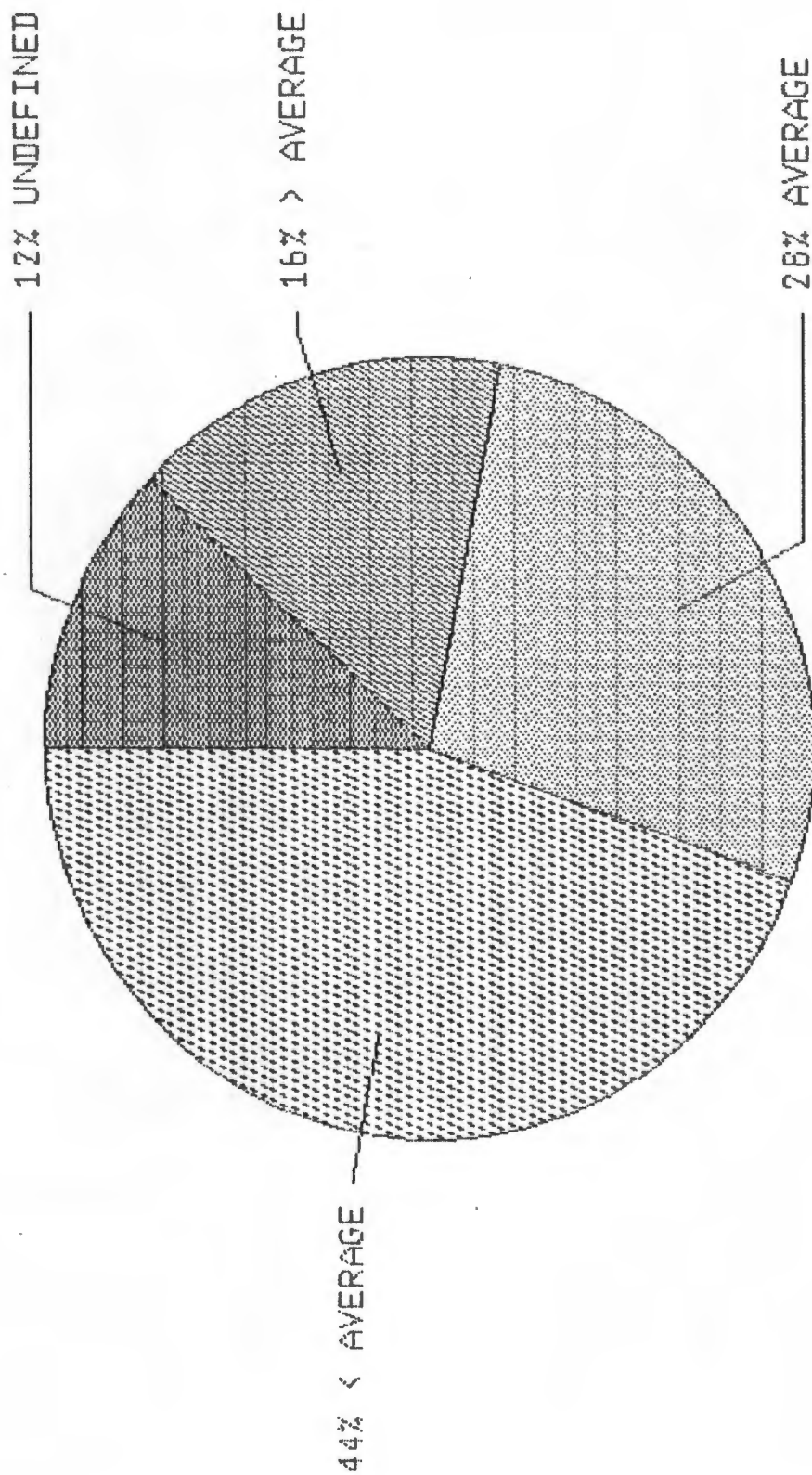
# HOUSING UNFAVOURABLE / AVAILABILITY OF LAVATORIES



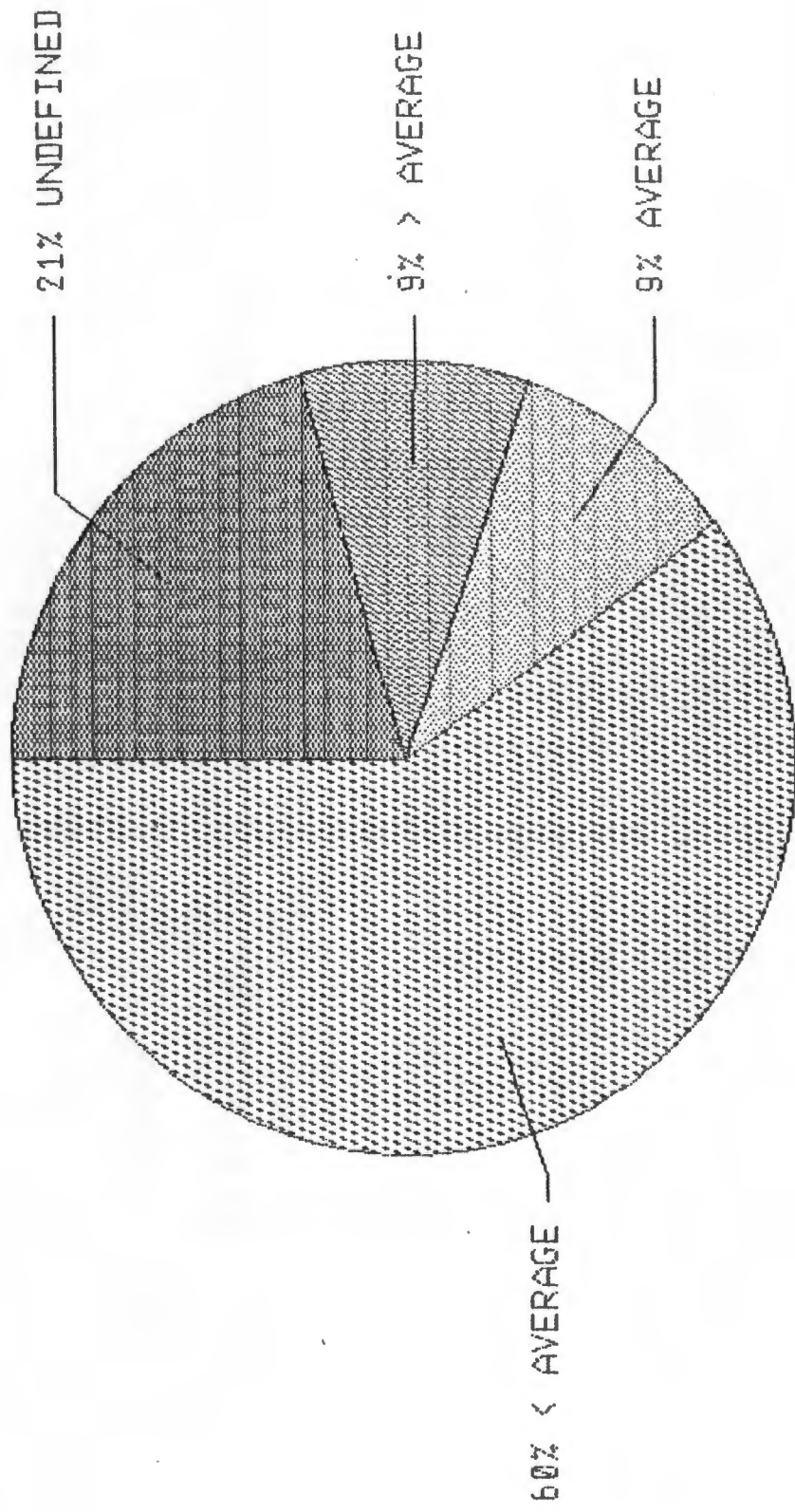
HOUSING VERY UNFAVOURABLE / AVAILABILITY OF LAVATORIES



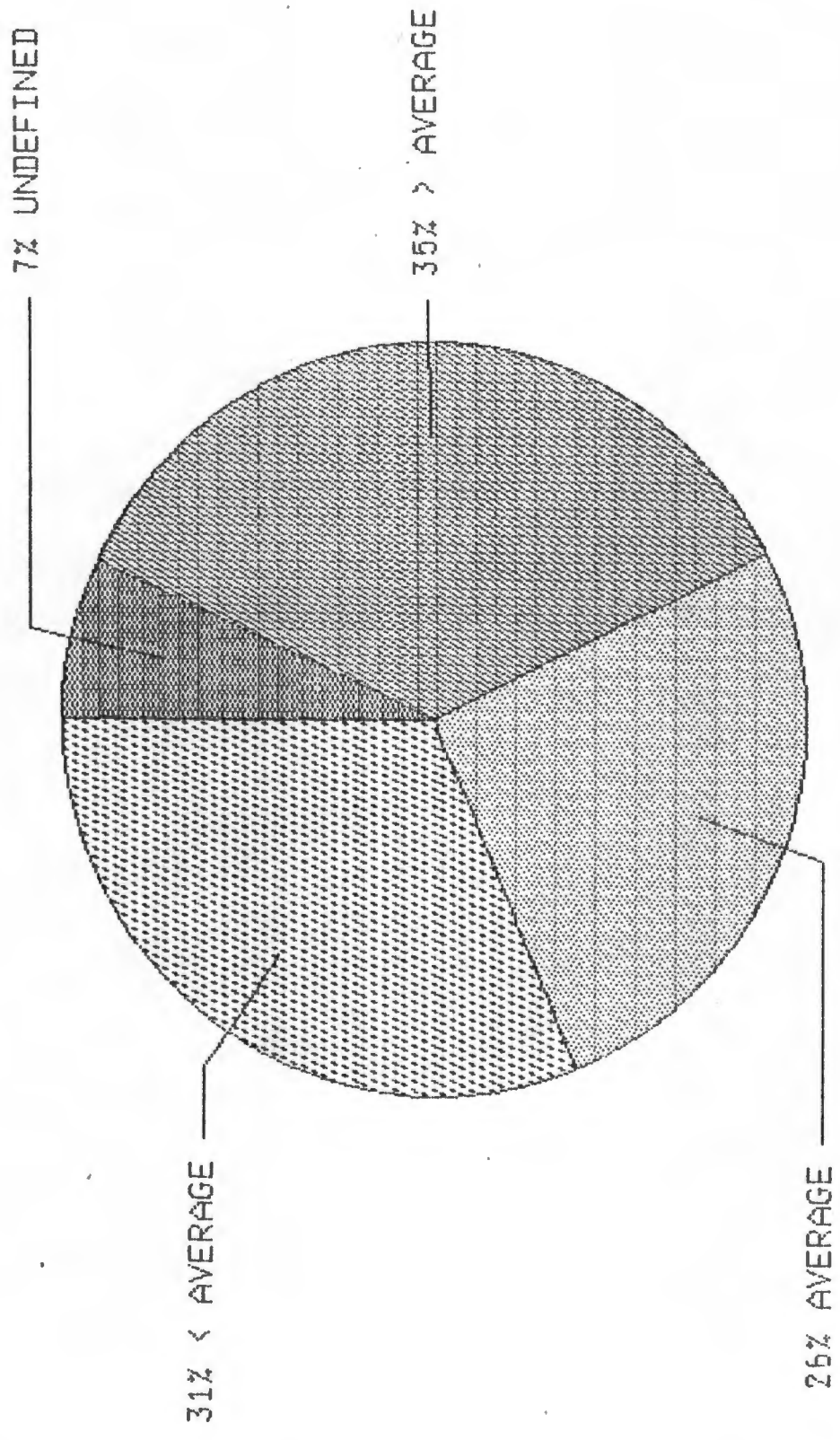
# DRINKING HABITS



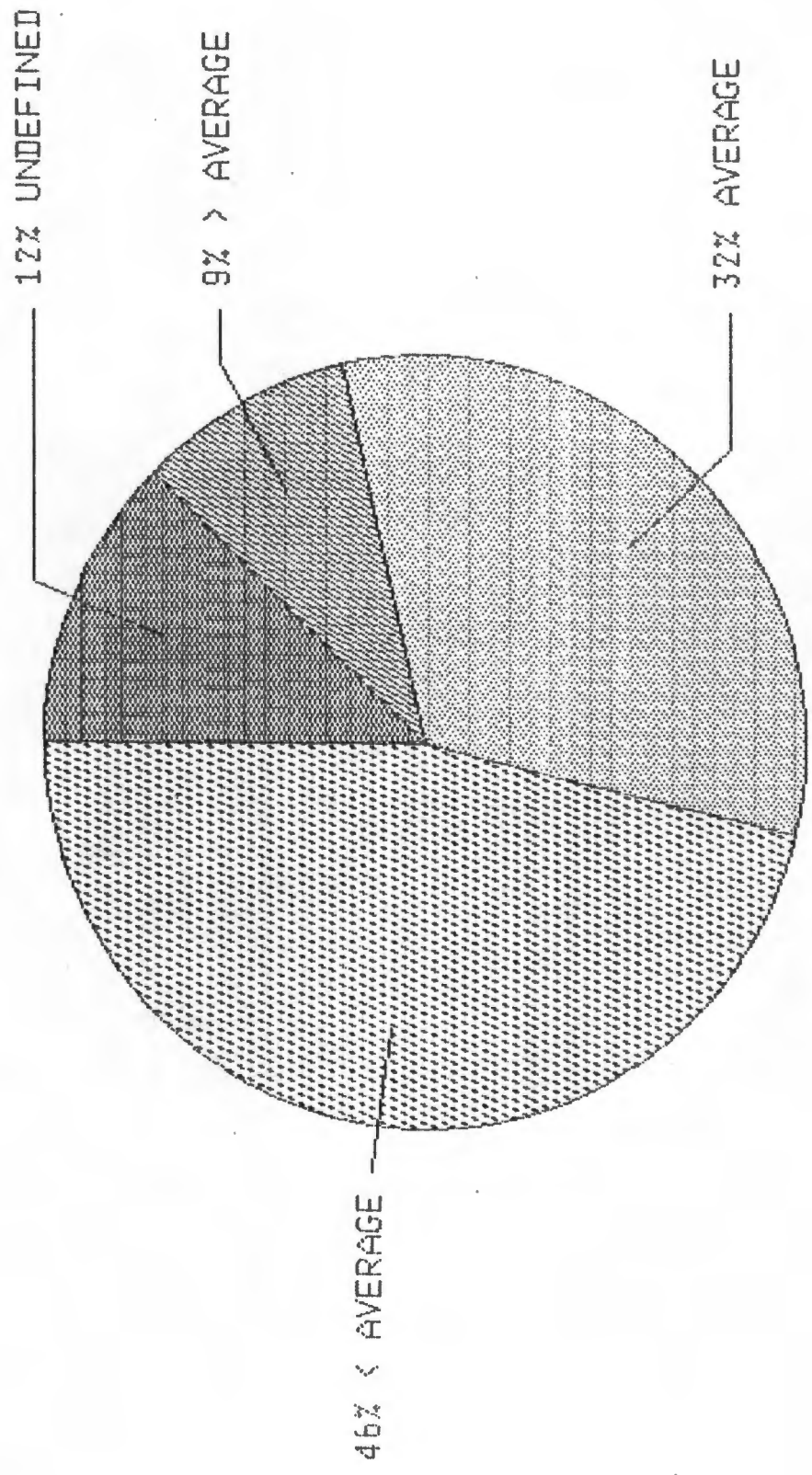
# RACE=WHITE / DRINKING HABITS



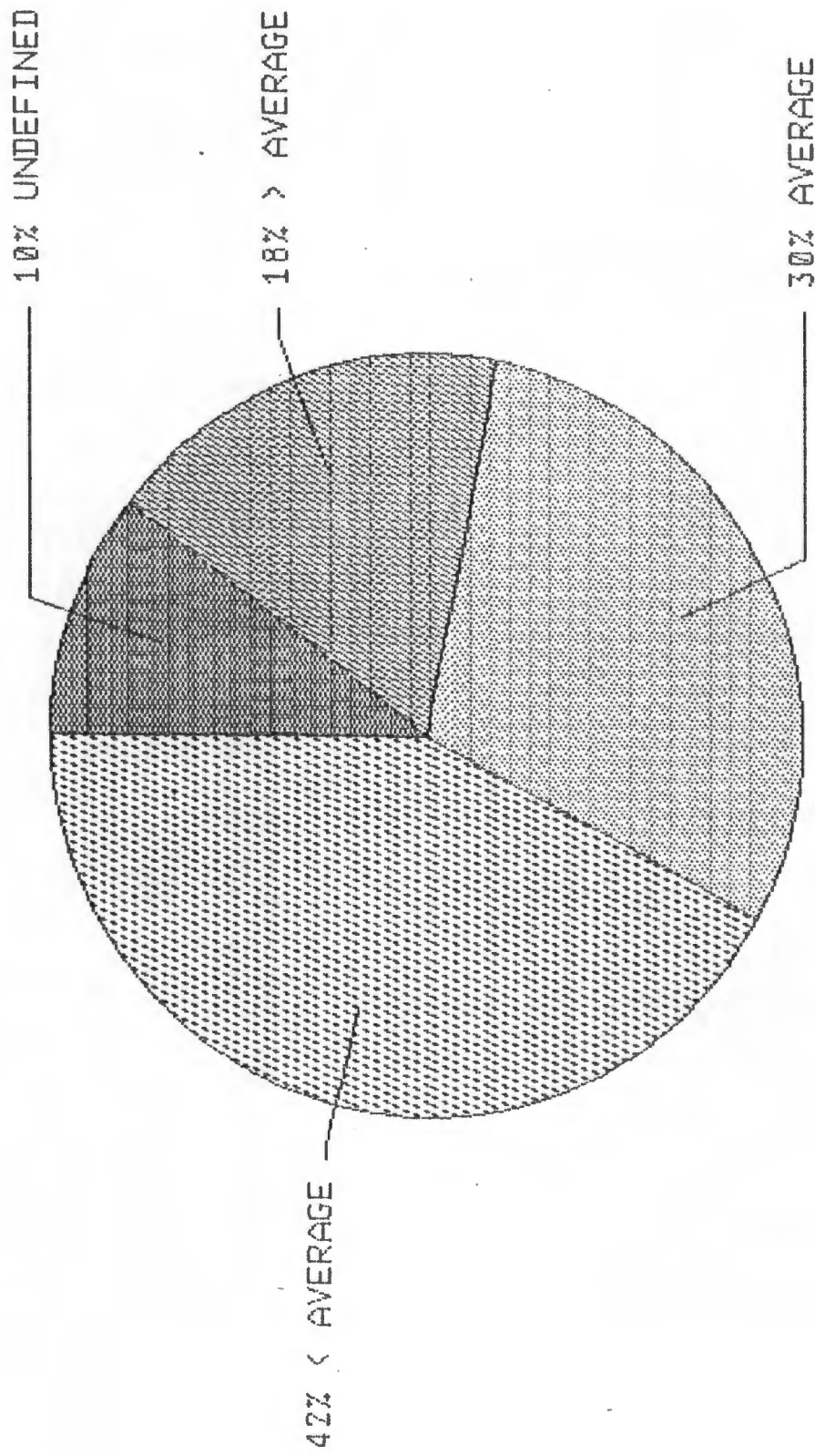
RACE=COLOURED / DRINKING HABITS



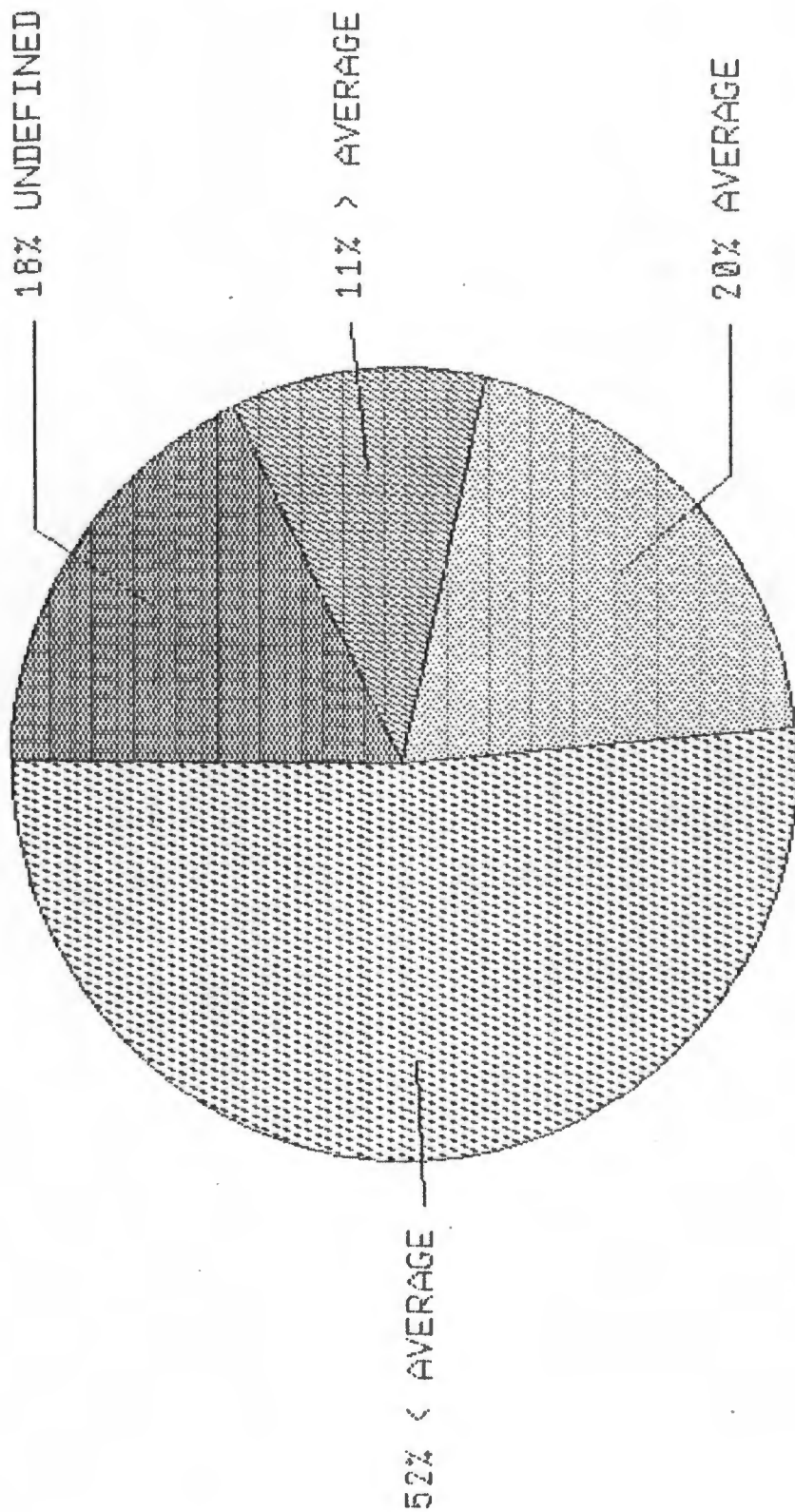
# RACE=BLACK / DRINKING HABITS



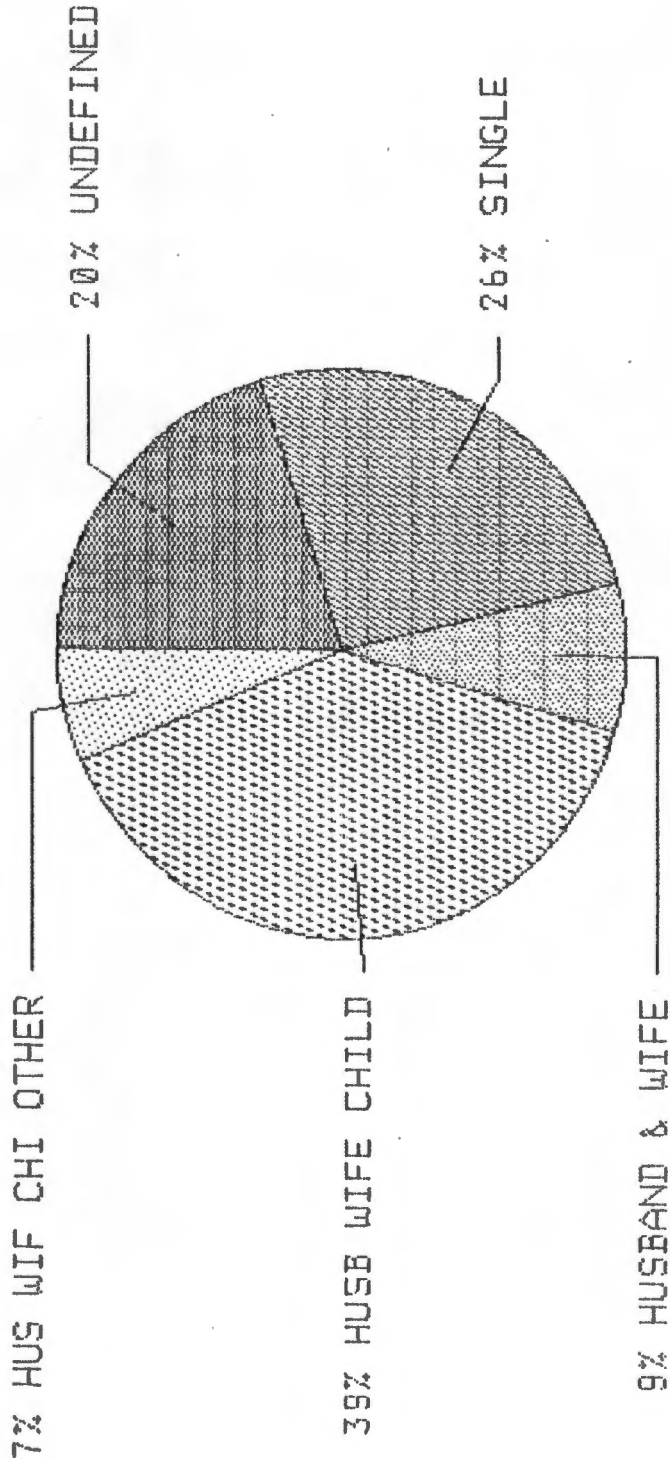
# DRINKING HABITS OF MALES



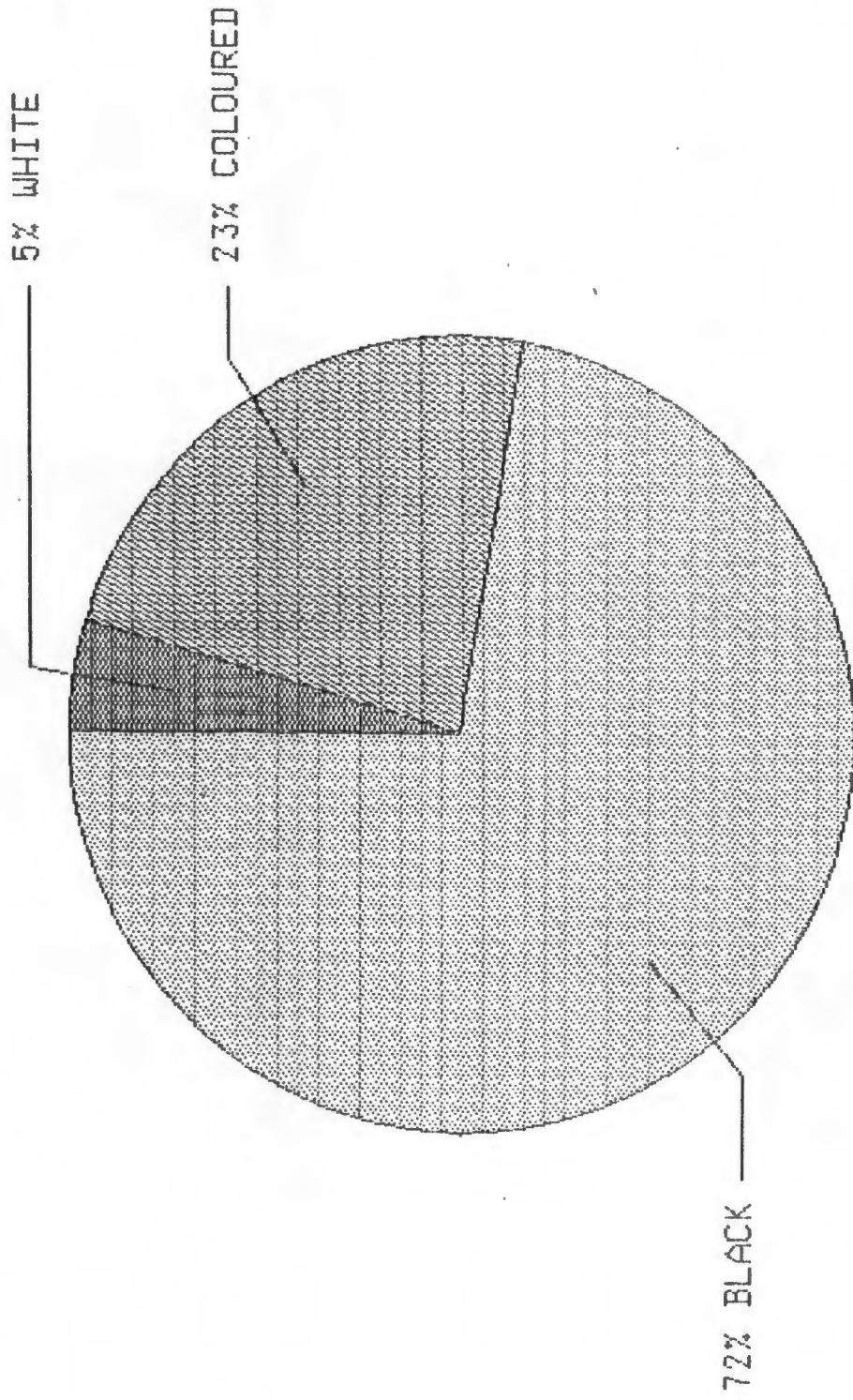
DRINKING HABITS OF FEMALES



MIGRATORY LABOURERS / COMPOSITION OF FAMILIES



MIGRATORY LABOURERS / RACE



EPIDEMIOLOGY QUESTIONNAIRE

PESTICIDAL POISONING

I. PARTICULARS OF AREA:

Health Region

1. Stand (address) .....

2. Name of owner .....

3. District .....

4. Agricultural activities

Cattle

Sheep

Poultry

Vegetables

Fruit

Grain

Sugar

Other  
(Specify) .....

.....

II. PARTICULARS PERTAINING TO OWNER, LABOURERS AND POISONS:

A. OWNER:

5. General knowledge of poisons

Good

Fair

Poor

6. Storage of poisons  Isolated  
 Isolated and locked  
 Locked - but not isolated
7. Control over use of poisons  Registers  
 None  
 Other (specify) .....  
.....
8. Accessibility by unauthorised persons  Yes  
 No
9. Guidance received  Yes  
 No
10. If YES, specify from whom  Manufacturer  
 Provider  
 Radio  
 Other (specify) .....  
.....
11. Guidance given to workers  Yes  
 No

12. If YES,

Superficial

Intensive

13. Special washing facilities available

Yes

No

14. Do labourers use

Overalls

Gloves

Masks

Other protective devices (specify)

.....

.....

B. LABOURERS:

15. Labourers on premises

Number families

Total individuals

16. Total individuals for agricultural purposes

17. Is use being made of migratory labourers?

Yes

No

C. POISONS:

18. Nature of poisons on premises

Powders

Granules

Liquids

Emulsifiable powders

19. Trade names of poisons in stock

.....

.....

.....

.....

.....

.....

20. From whom are poisons obtained?

Manufacturer

Local co-operation

Government

Co-users

21. Annual frequency of use

1 X

2 X

3 X

4 X

5 X

6 X

more than 6 X

22. Methods of pesticide application

Aerial

Mechanical surface

Hand application

23. Disposal of empty and used containers .....

24. Are containers used for diluting purposes properly labelled?

Yes

No

III. PATIENT:

25. Name of patient .....

26. Date of: a. intoxication .....

b. notification .....

27. Age ..... 28. Sex ..... 29. Race .....

30. Composition of family

Single person living alone

Husband and wife

Husband, wife and children

Husband, wife, children and others

31. Housing

Very favourable

Favourable

Unfavourable

Very unfavourable (specify type of housing) .....

.....

32. Eating habits

How often are the following eaten/used?

	Daily	Twice a week	Weekly	Less than weekly
Milk .....				
Meat, fish .....				
Eggs .....				
Fresh vegetables .....				
Fresh fruit .....				
Butter and/or margarin				
Brown bread .....				
White bread .....				
Sugar .....				
Porridge .....				

33. Drinking habits  
(liquor)

Norm: One tot per day is regarded as the average

Above average

Average

Under average

34. General hygienic manner of living i) Cleanliness:

Above average

Average

Below average

ii) Lavatories:

Flush

Prewit

Bucket

None (Remarks)

.....  
.....

35. Qualifications

(a) Highest standard passed

3 and lower

4 - 5

6 - 8

9 - 10

(b) Can patient read Afrikaans?

Good

Fair

Poor

(c) Can patient read English?

Good

Fair

Poor

36. Trade name of poison that caused intoxication

.....

37. If not known, give reason .....

.....

.....

38. Description of poison which caused intoxication

Liquid (concentrated)

Liquid (diluted)

Solid matter

Gas

Aerosol

39. Confirmation of intoxication

Patient's own evidence

Evidence by family or friends

Clinically confirmed

Confirmed by Laboratory

40. Where did intoxication take place?

Owner's house/yard

Patient's house/yard

Cultivated land

Orchards

Elsewhere (specify) .....  
.....

41. Did intoxication take place during normal execution of duties?

Yes

No

42. How and where did patient obtain poison? .....  
.....  
.....  
.....

43. Reason for poisoning

Suicide

Murder

Ignorance

Accident

Other (specify)  
.....  
.....

44. If reason not known, what is suspected? .....  
.....  
.....  
.....

IV. CLINICAL DETAILS:

45. Symptoms of poisoning as observed by inmates/others .....  
.....  
.....

46. Was first-aid applied?  Yes  
 No

47. If YES, specify .....  
.....  
.....

48. Was patient referred to a doctor?  Yes  
 No

49. If YES, when? .....

50. Has patient been hospitalized?  Yes  
 No

51. If YES, when? .....

52. Was intoxication fatal?  Yes  
 No

53. If YES, date and time of death ..... ..

54. Has a medical report been requested?  Yes  
 No

55. Where was post-mortem examination performed? .....

56. Attitude of owner .....

57. INVESTIGATION OFFICER ..... DATE .....

58. REMARKS .....