

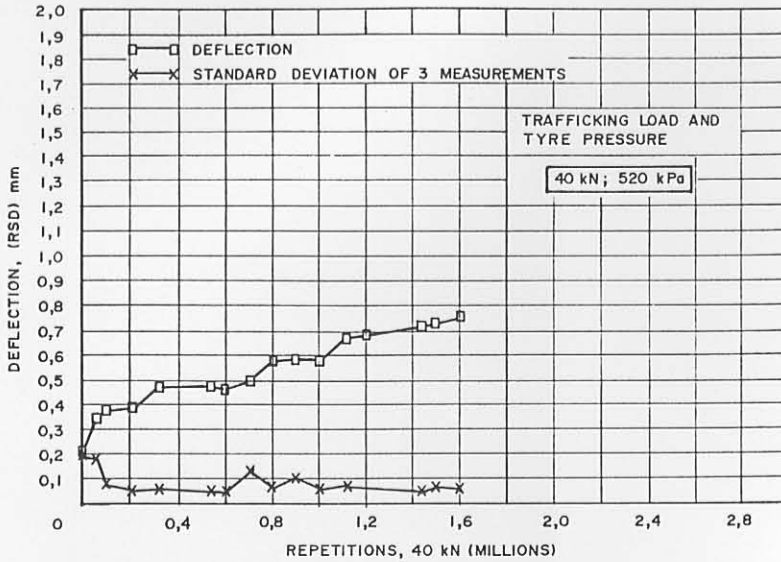
APPENDIX F

SUPPLEMENTARY INFORMATION (FIGURES) TO ASSIST
DISCUSSION IN CHAPTER 7

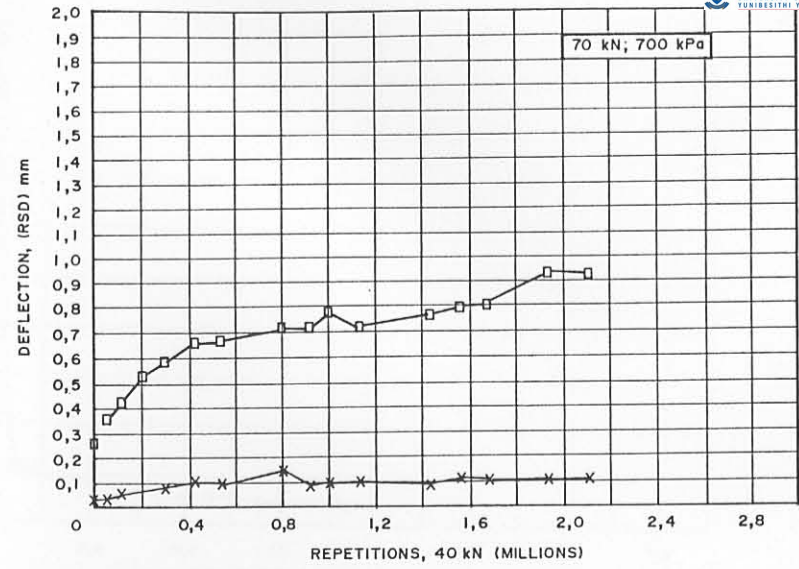
F.I INTRODUCTION

In this Appendix supplementary information, mostly in the form of figures are given to assist the discussion on the resilient response of pavements with cementitious layers, in Chapter 7.

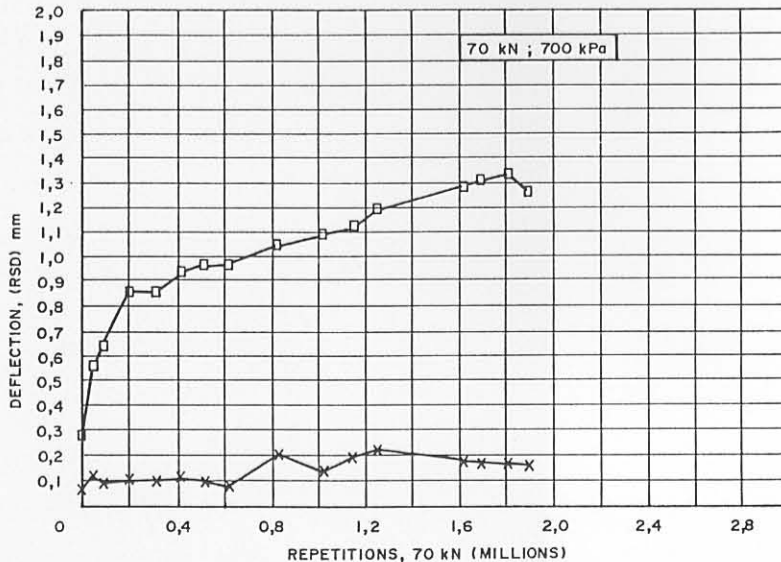
No detailed discussions are given here, as it is already given in Chapter 7, in which particular reference is made to the relevant figure.



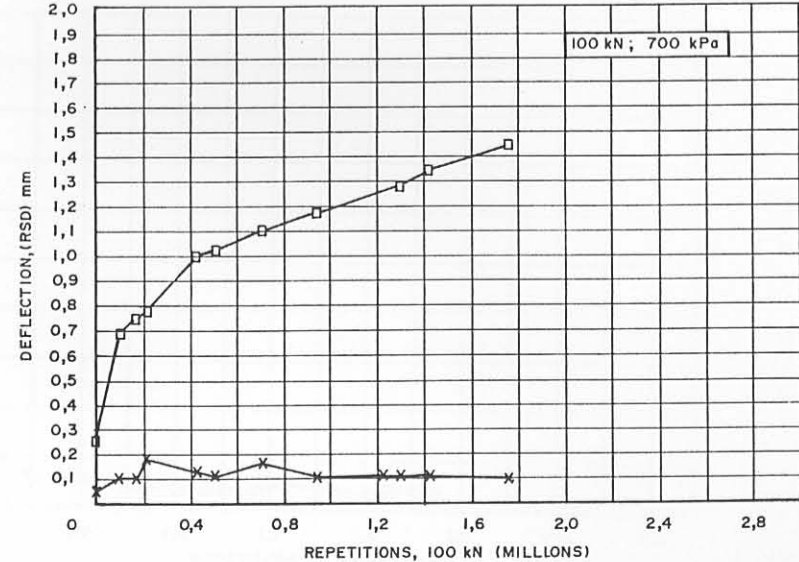
(a) SECTION 274A4



(b) SECTION 275A4



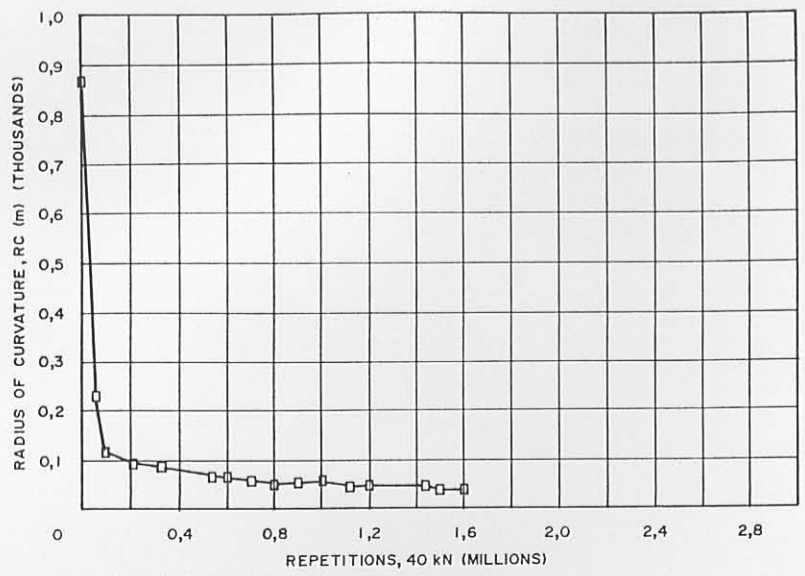
(c) SECTION 289A4



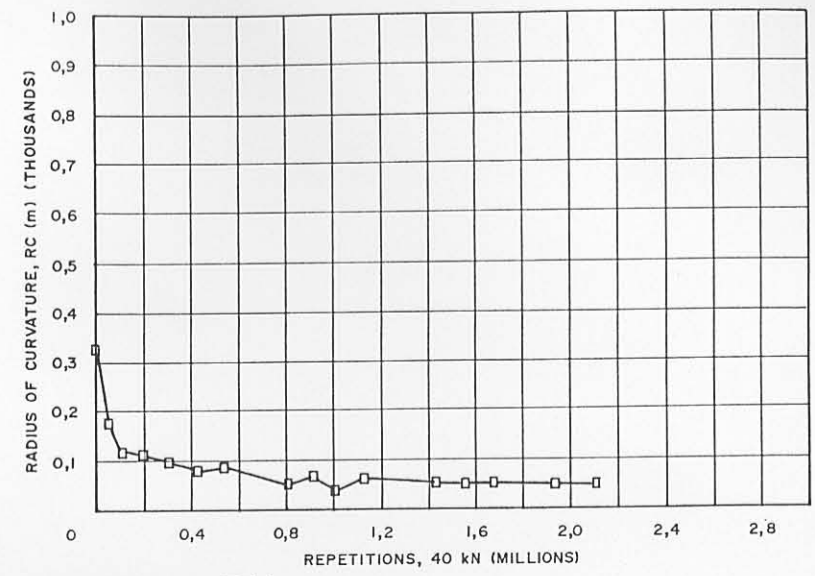
(b) SECTION 294A4

FIGURE F.1

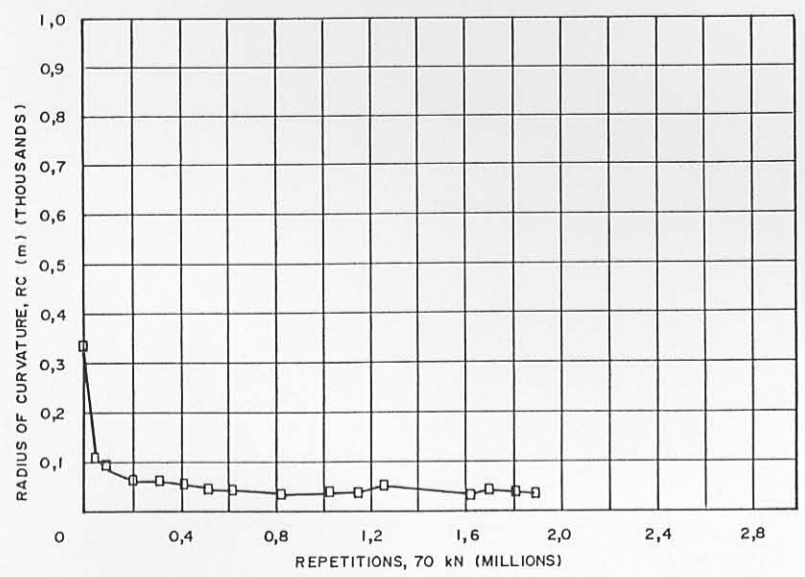
AVERAGE STANDARD 40 kN SURFACE DEFLECTION (RSD) AT VARIOUS STAGES OF TRAFFICKING WITH THE INDICATED DUAL WHEEL LOAD ON FOUR DIFFERENT TEST SECTIONS ON THE DEEP PAVEMENT ON ROAD 1932 (ROOIWAL)



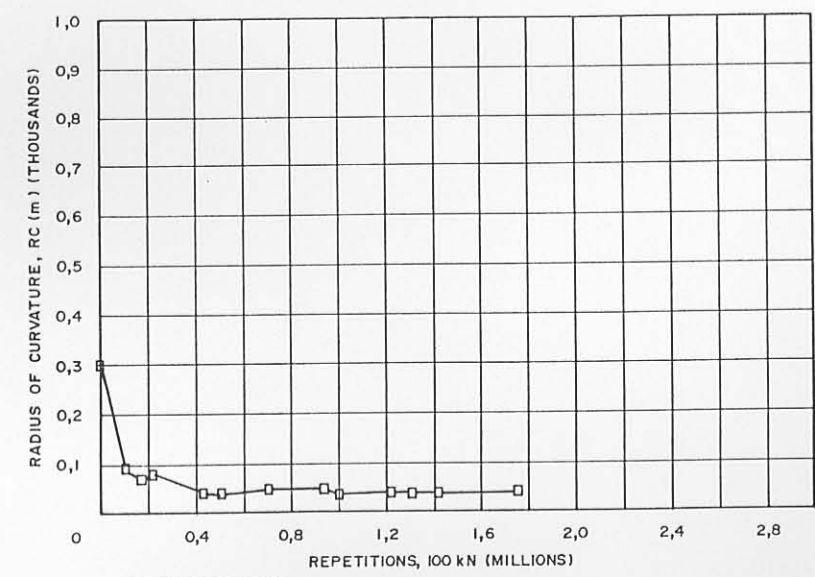
(a) SECTION 274A4



(b) SECTION 275A4



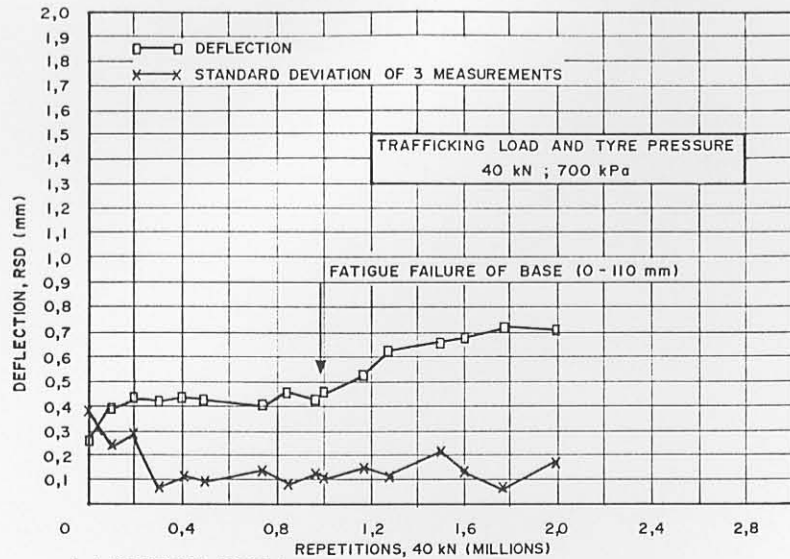
(c) SECTION 289A4



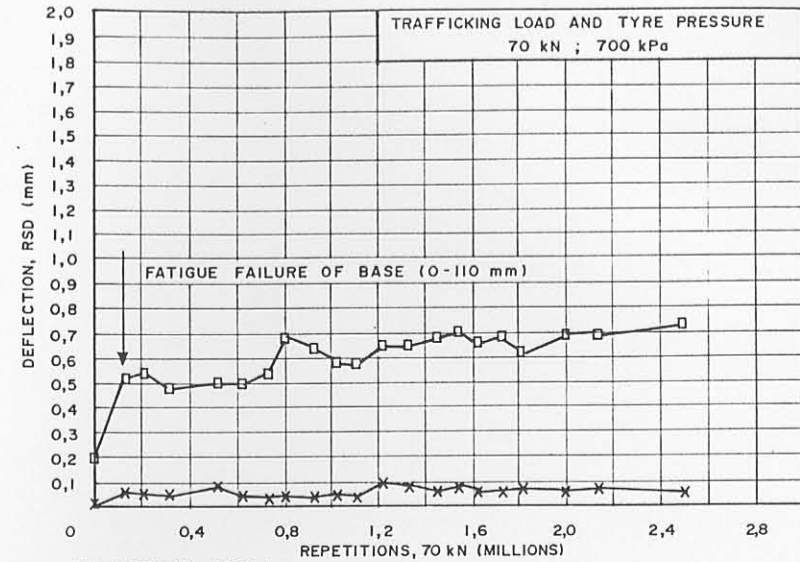
(d) SECTION 294A4

FIGURE F.2

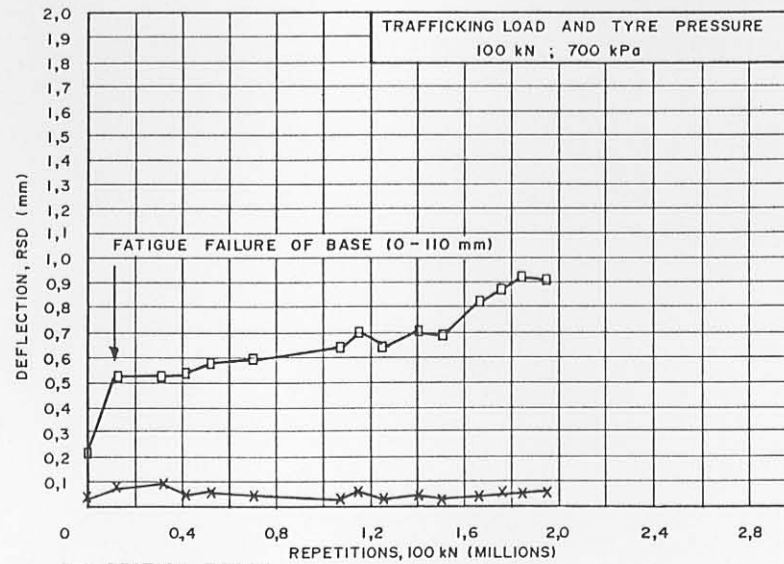
AVERAGE RADIUS OF CURVATURE (RC) AT VARIOUS STAGES OF TRAFFICKING WITH THE INDICATED DUAL WHEEL LOAD ON FOUR DIFFERENT TEST SECTIONS ON THE DEEP PAVEMENT ON ROAD 1932 (ROOIWAL)



(a) SECTION 306A4



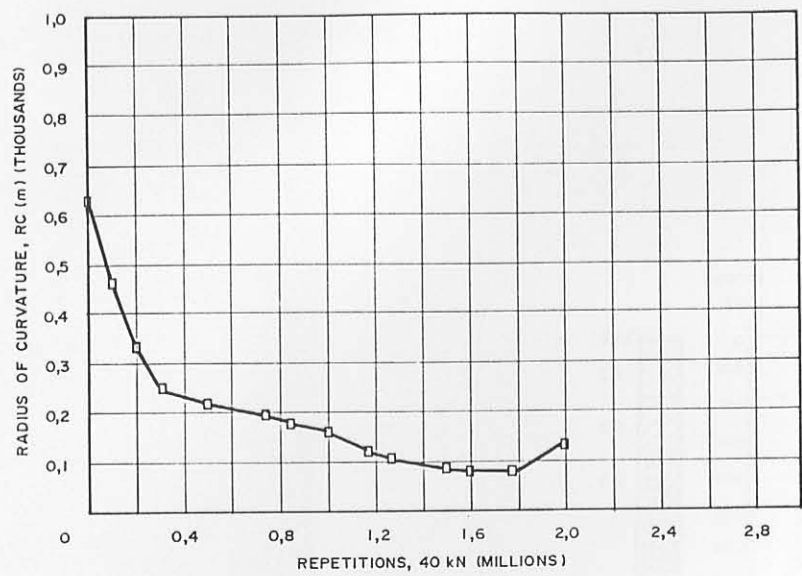
(b) SECTION 307A4



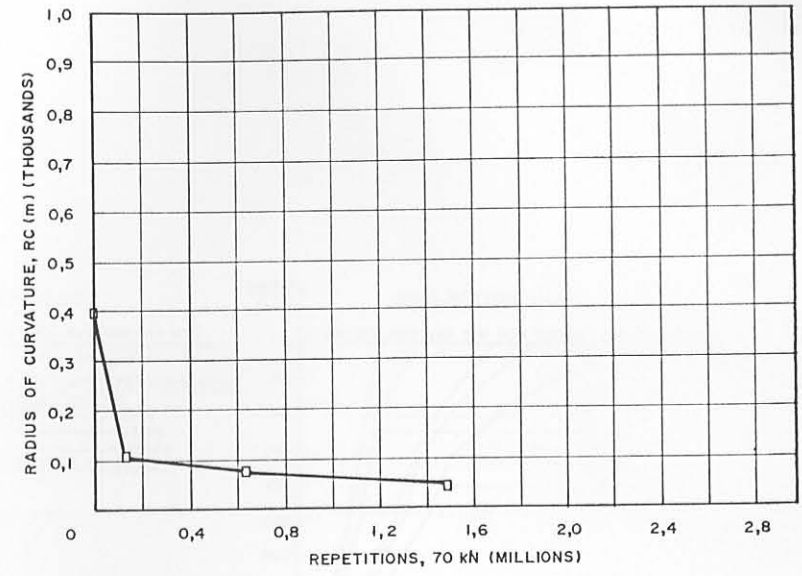
(c) SECTION 308A4

FIGURE F.3

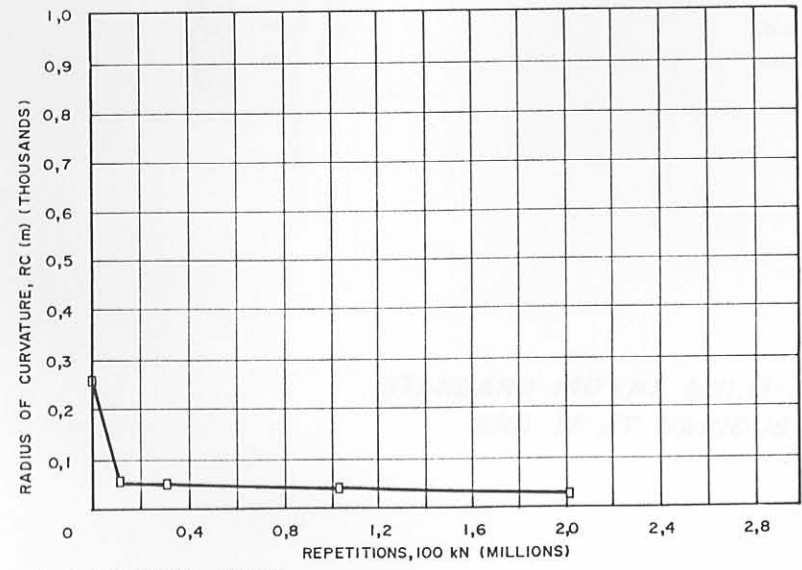
AVERAGE STANDARD 40 kN SURFACE DEFLECTION (RSD) AT VARIOUS STAGES OF TRAFFICKING WITH THE INDICATED DUAL WHEEL LOAD ON THREE DIFFERENT TEST SECTIONS ON THE SHALLOW PAVEMENT (ROAD 2212, BULTFONTEIN)



(a) SECTION 306A4



(b) SECTION 307A4



(c) SECTION 308A4

FIGURE F.4

AVERAGE RADIUS OF CURVATURE (RC) AT VARIOUS STAGES OF TRAFFICKING WITH THE INDICATED DUAL WHEEL LOAD ON THE THE THREE TEST SECTIONS ON THE SHALLOW PAVEMENT ON ROAD 2212 (BULTFONTEIN)

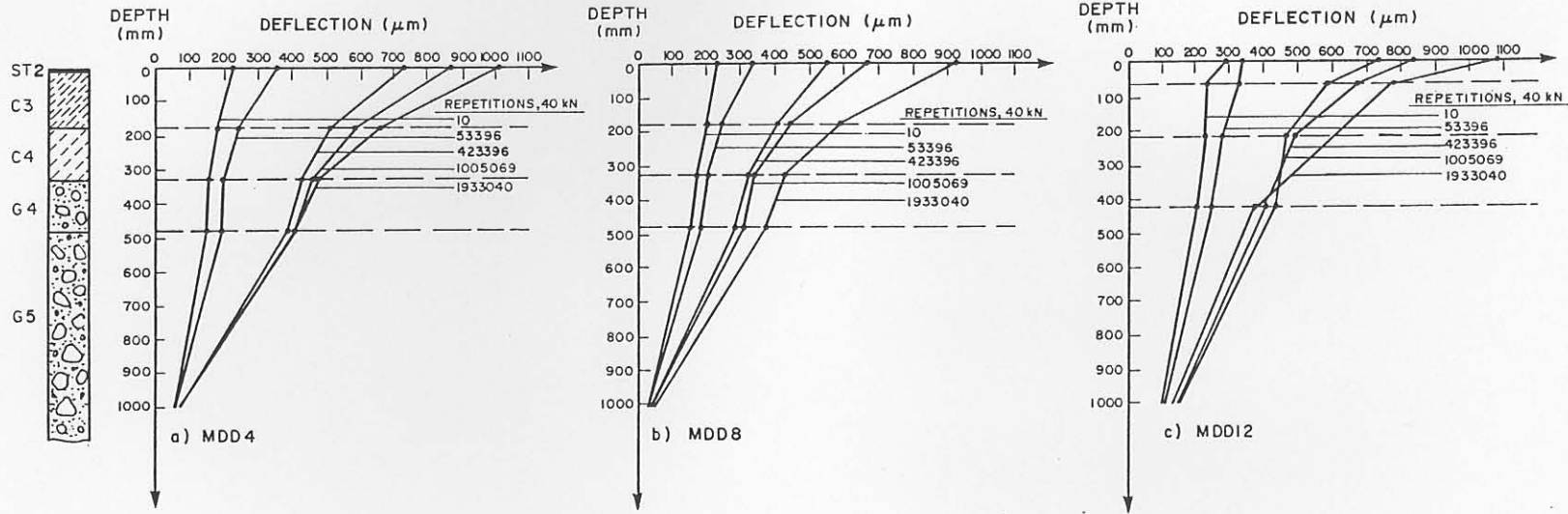
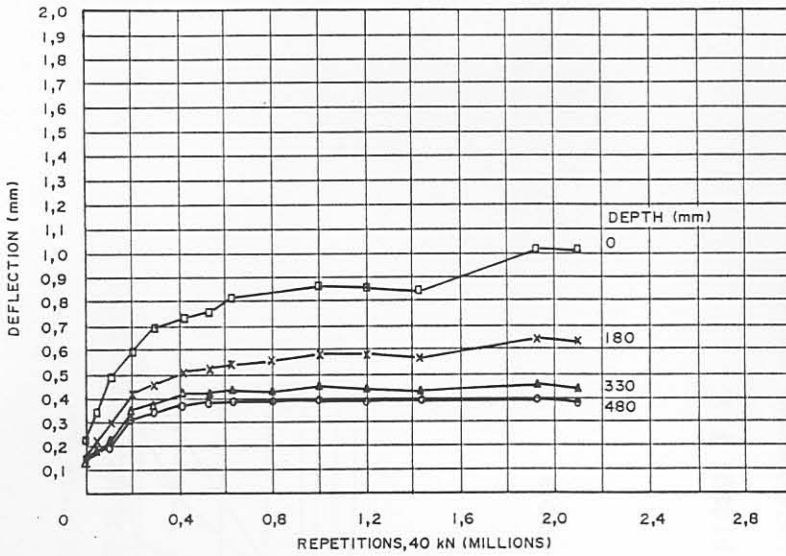
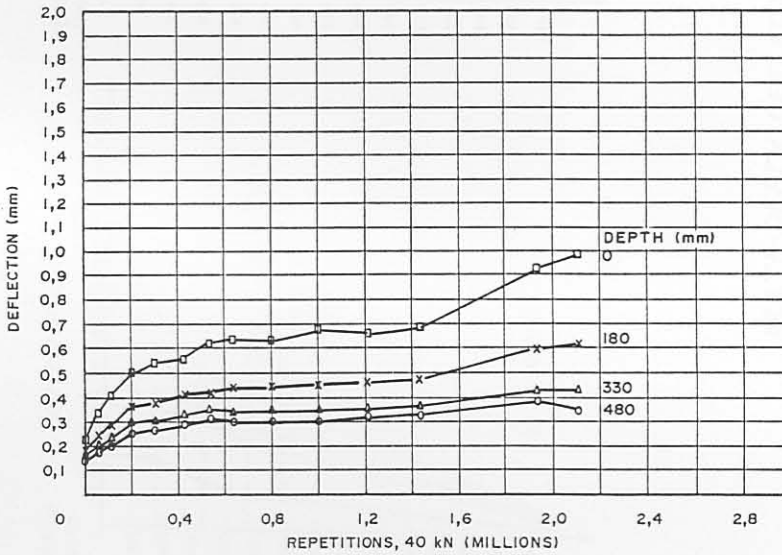


FIGURE F.5

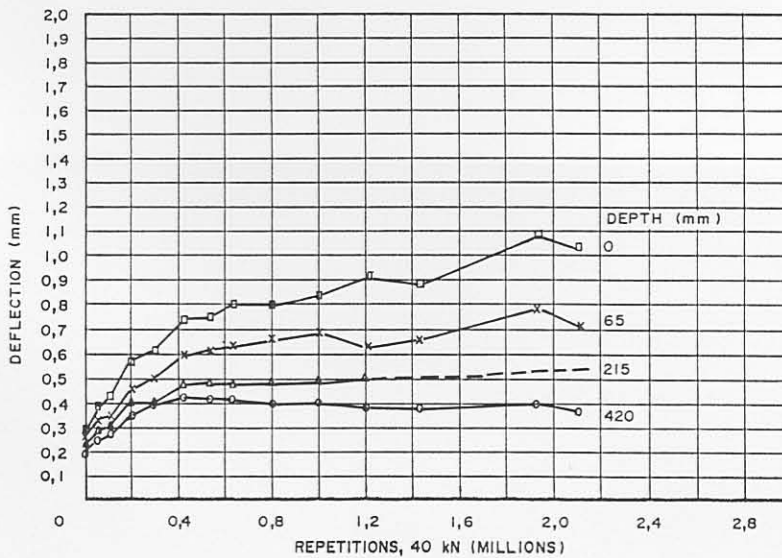
STANDARD (40 kN) MULTI-DEPTH DEFLECTIONS AT MEASURING POSITIONS 4, 8 AND 12 AT VARIOUS STAGES OF TRAFFICKING ON HVS SECTION 275A4



(a) MDD 4



(b) MDD 8



(c) MDD 12

FIGURE F.6

AVERAGE STANDARD MDD DEFLECTION AT VARIOUS STAGES OF TRAFFICKING ON SECTION 275A4 (ROAD 1932, ROOIWAL)

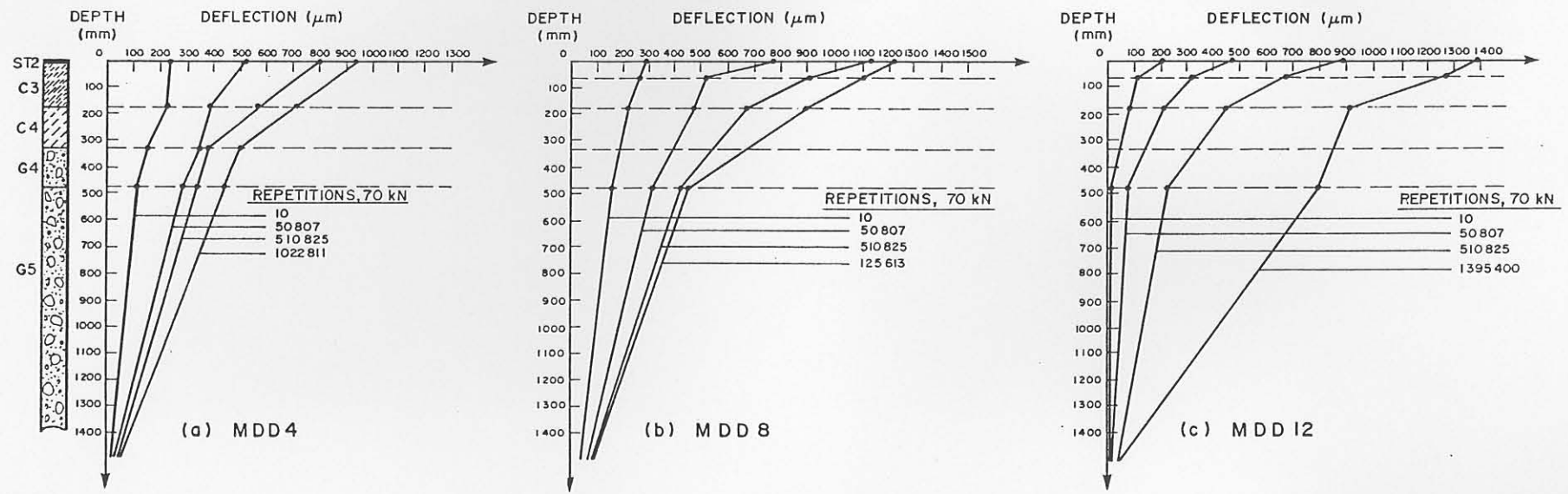
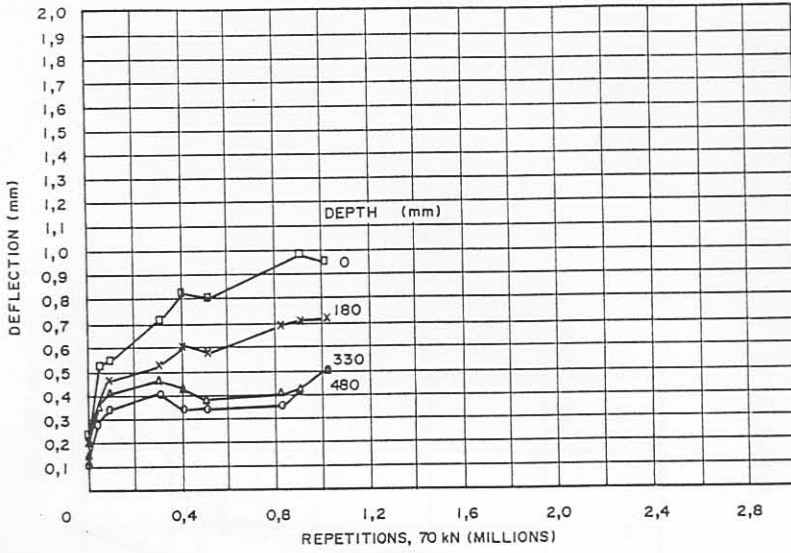
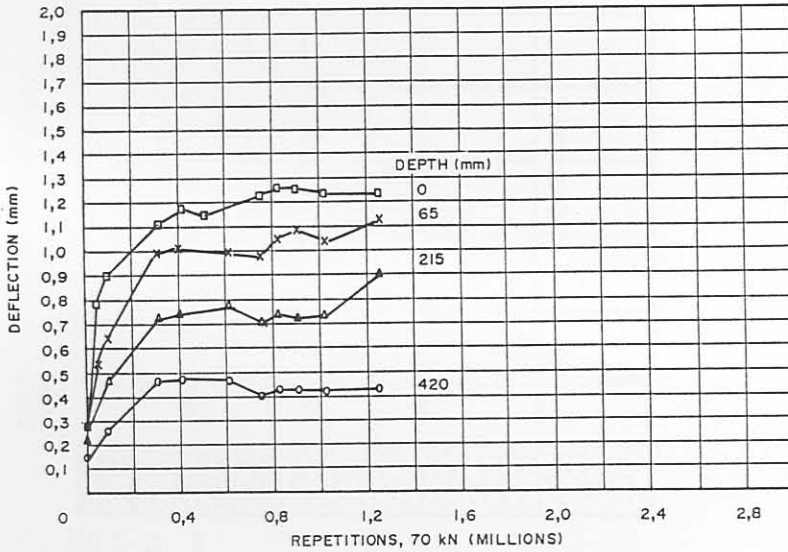


FIGURE F.7

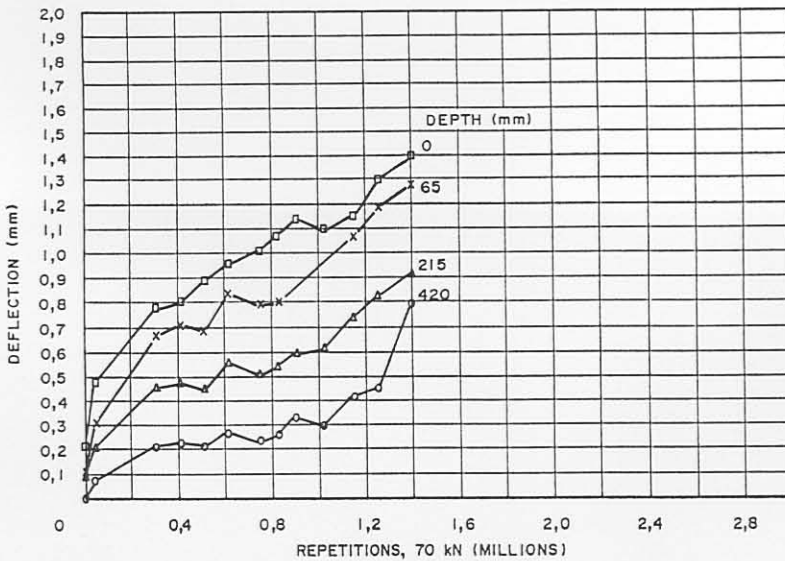
MULTI-DEPTH DEFLECTIONS AT MEASURING POSITIONS 4, 8 AND 12 AT VARIOUS STAGES OF TRAFFICKING ON HVS SECTION 289A4



(a) MDD 4



(b) MDD 8



(c) MDD 12

FIGURE F.8

AVERAGE STANDARD MDD DEFLECTION AT VARIOUS STAGES OF TRAFFICKING ON SECTION 289A4 (ROAD 1932, ROOIWAL)

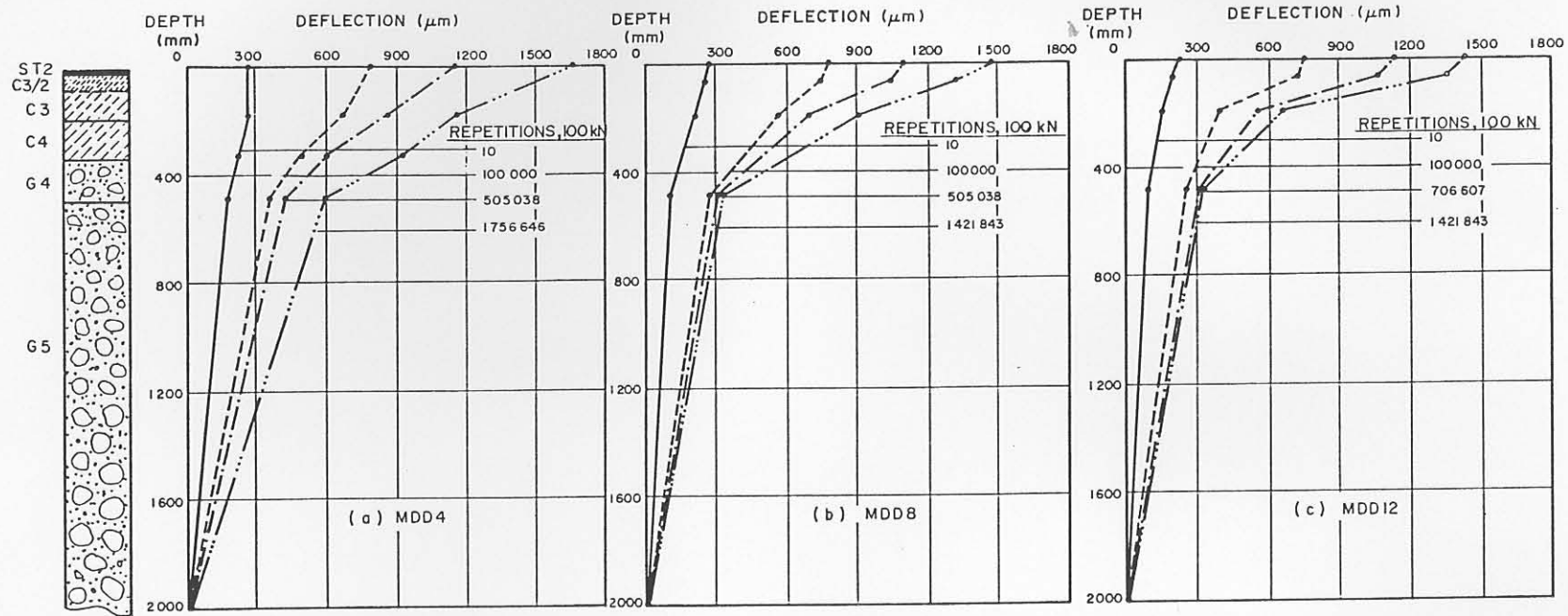
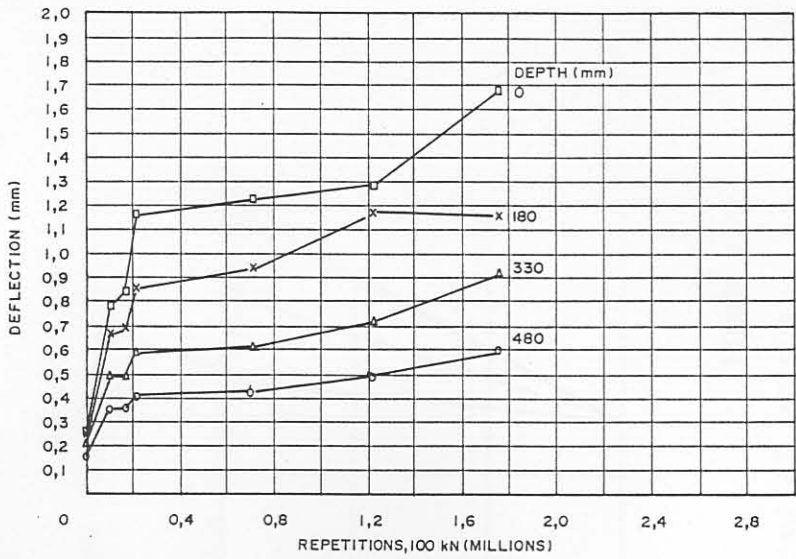
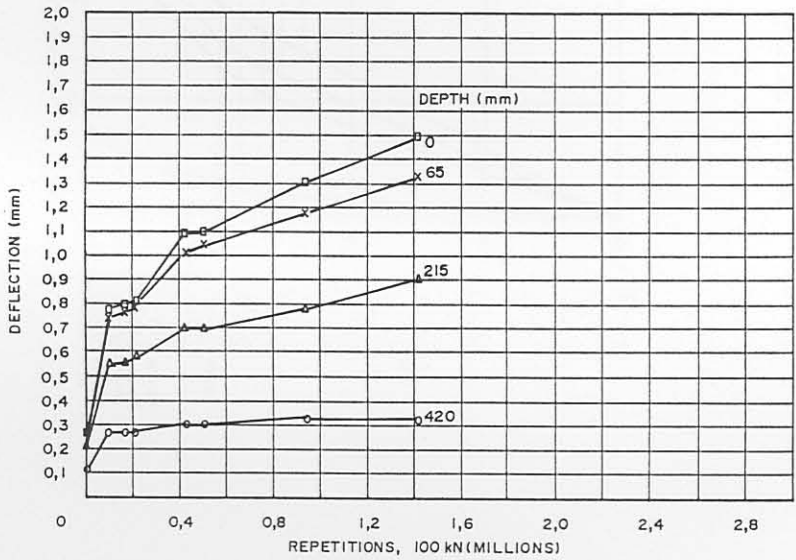


FIGURE F.9

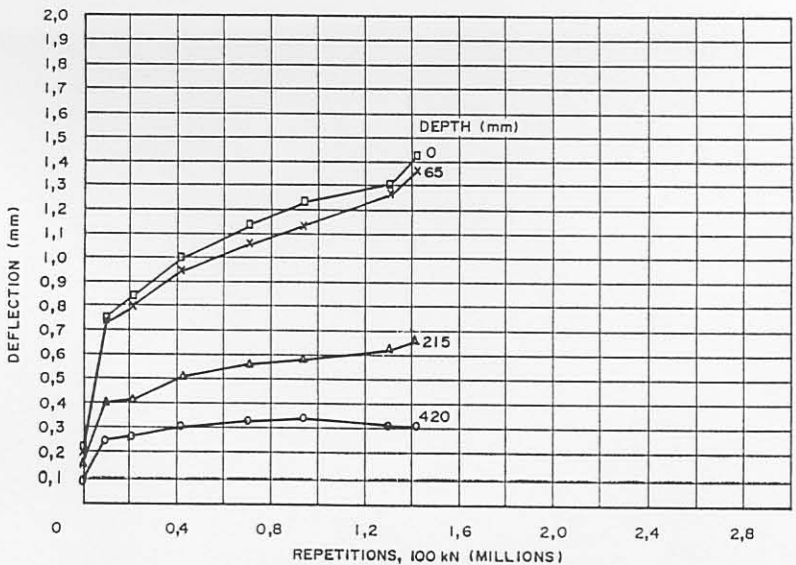
MULTI-DEPTH DEFLECTIONS AT MEASURING POSITIONS 4, 8 AND 12 AT VARIOUS STAGES OF TRAFFICKING ON HVS SECTION 294A4



(a) MDD 4



(b) MDD 8



(c) MDD 12

FIGURE F.10

AVERAGE STANDARD MDD DEFLECTION AT VARIOUS STAGES OF TRAFFICKING ON SECTION 294A4 (ROAD 1932, ROOIWAL)

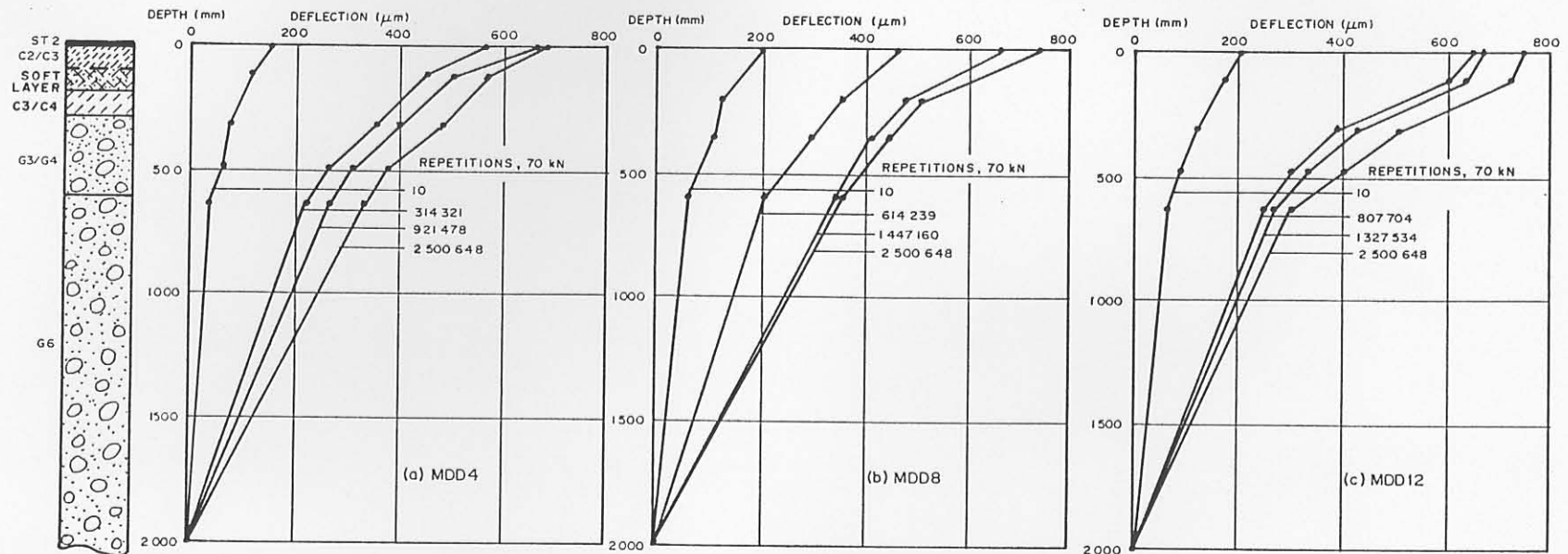
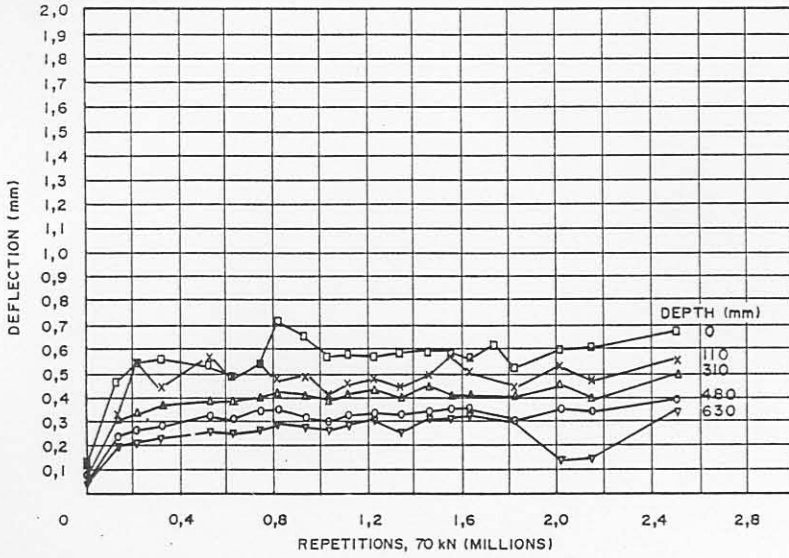
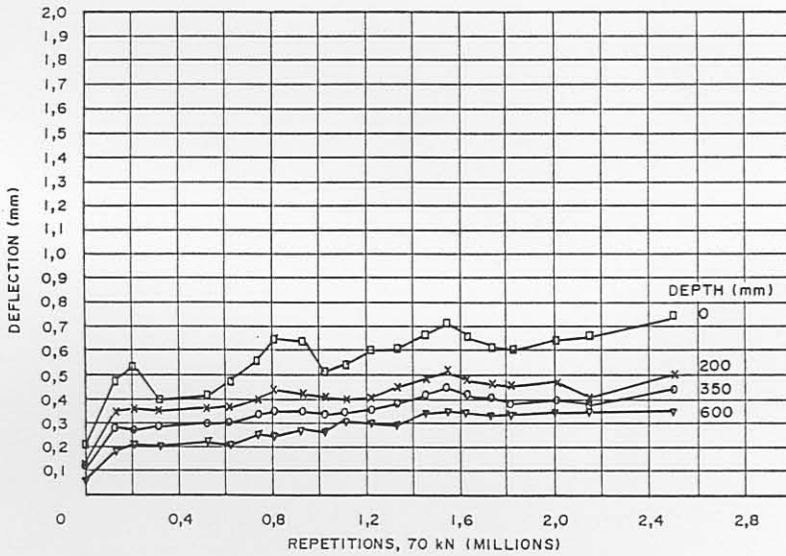


FIGURE F.11

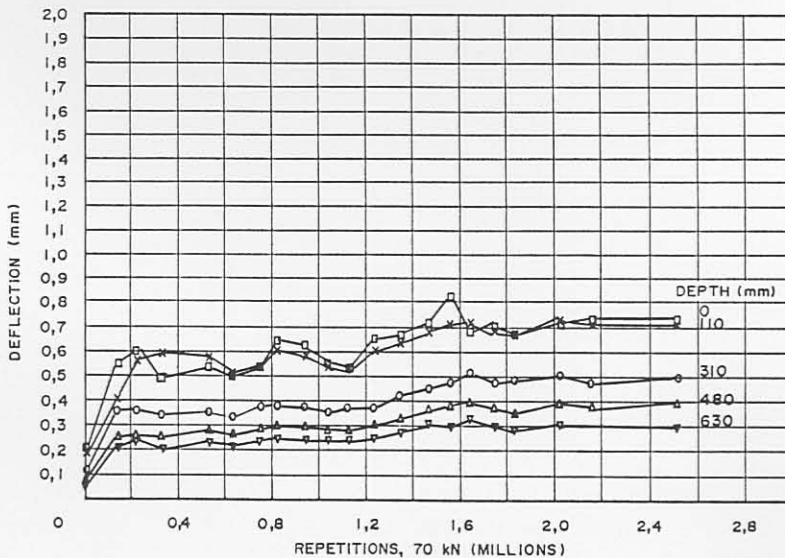
MULTI-DEPTH DEFLECTIONS AT MEASURING POSITIONS 4, 8 AND 12 AT VARIOUS STAGES OF TRAFFICKING ON HVS SECTION 307A4



(a) MDD 4



(b) MDD 8



(c) MDD 12

FIGURE F.12

AVERAGE STANDARD MDD DEFLECTION AT VARIOUS STAGES OF TRAFFICKING ON SECTION 307A4 (ROAD 2212, BULTFONTEIN)

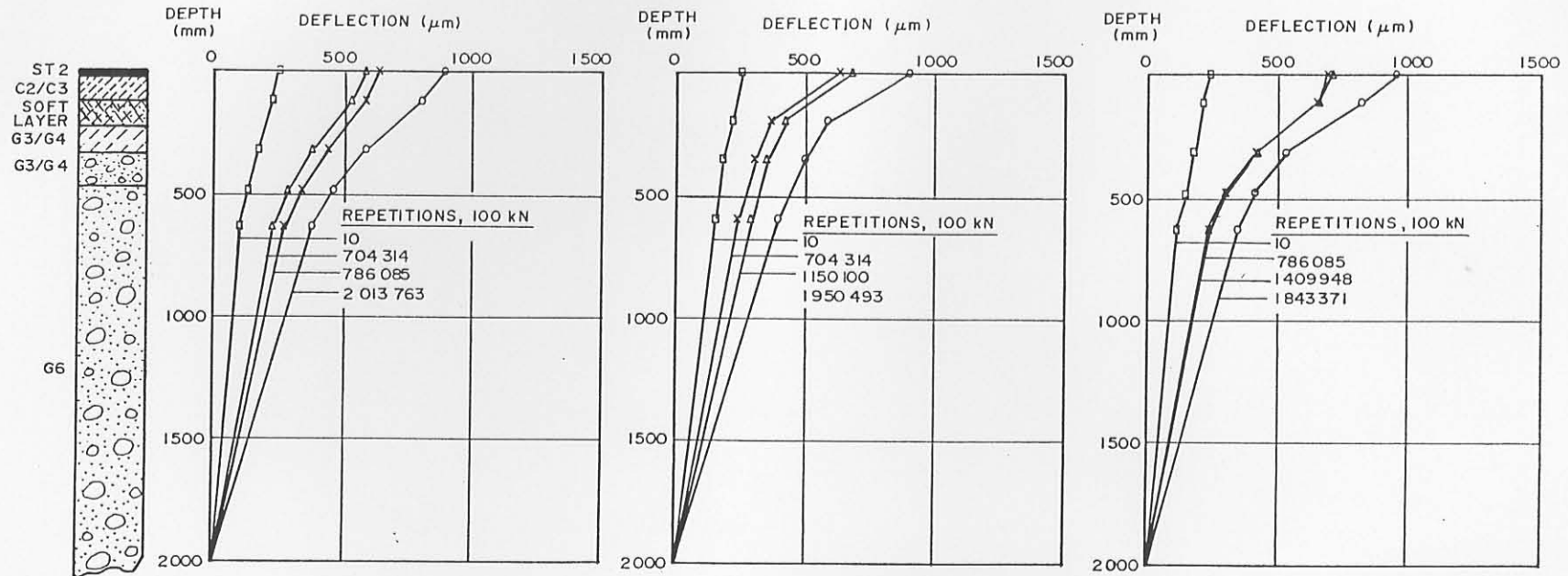
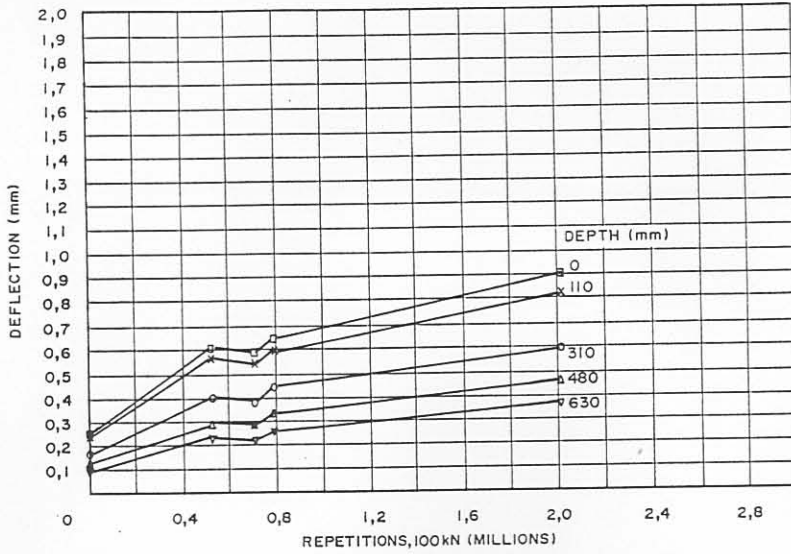
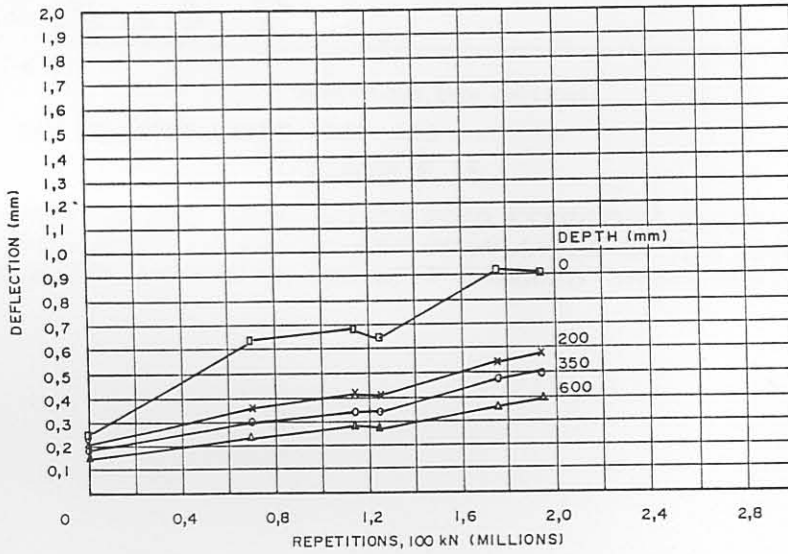


FIGURE F.13

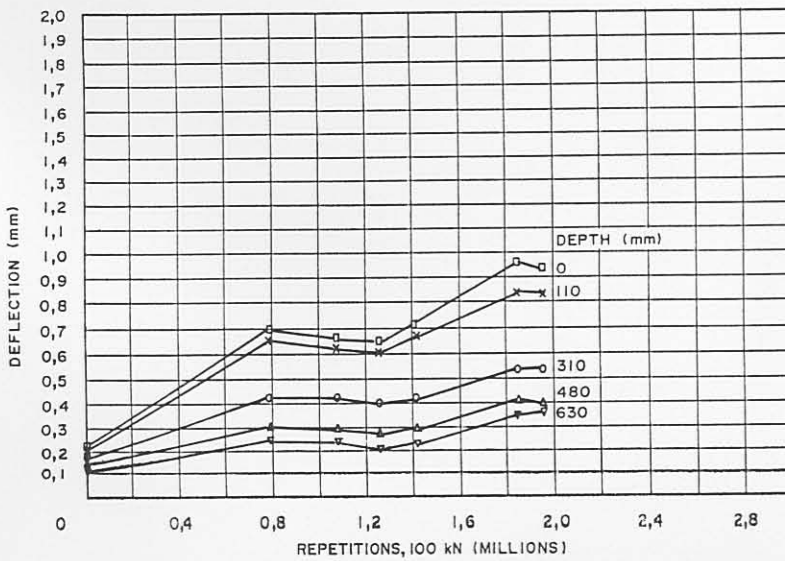
STANDARD 40 kN MULTI-DEPTH DEFLECTIONS AT MEASURING POSITIONS 4, 8 AND 12 AT VARIOUS STAGES OF TRAFFICKING ON HVS SECTION 306A4



(a) MDD 4



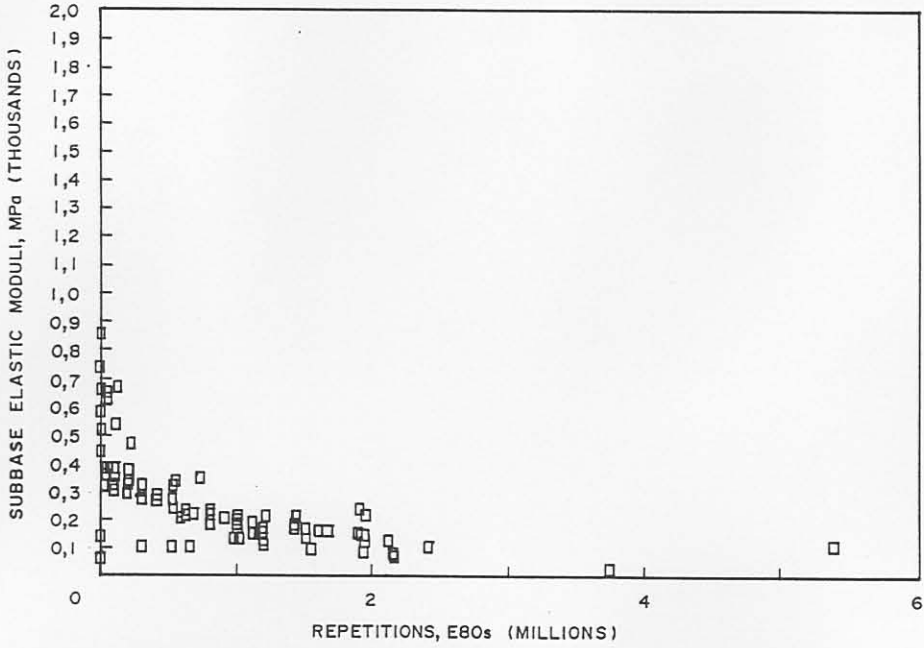
(b) MDD 8



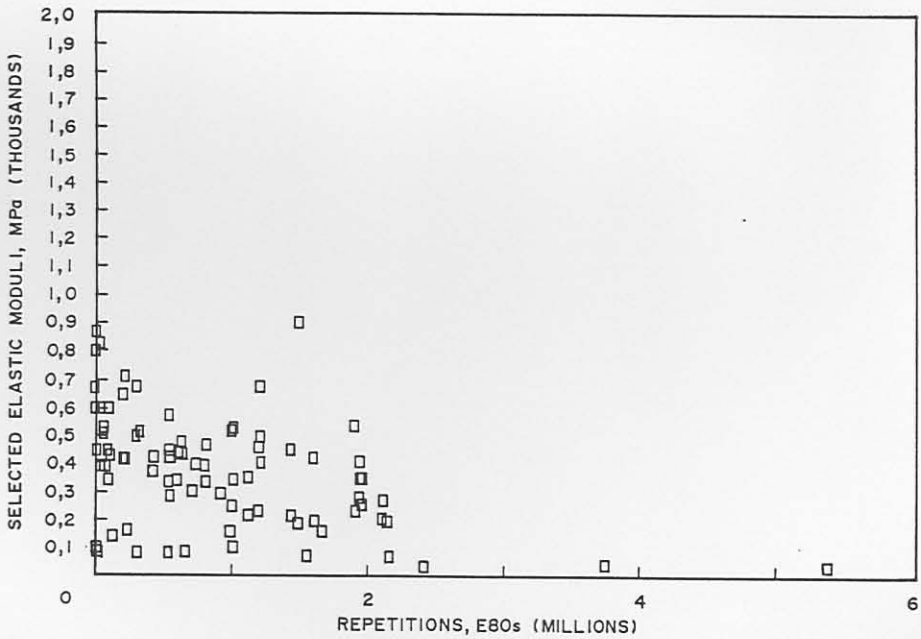
(c) MDD 12

FIGURE F.14

AVERAGE STANDARD MDD DEFLECTION AT VARIOUS STAGES OF TRAFFICKING ON SECTION 308A4 (ROAD 2212, BULTFONTEIN)



(a) SUBBASE (180 - 330 mm)



(b) SELECTED LAYER (330 - 480 mm)

FIGURE F.15

CHANGE IN MDD BACK-CALCULATED EFFECTIVE ELASTIC MODULI WITH NUMBER OF EQUIVALENT 80 kN AXLES OF THE SUBBASE AND SELECTED LAYERS IN THE DEEP PAVEMENT (ROAD 1932, ROOIWAL)

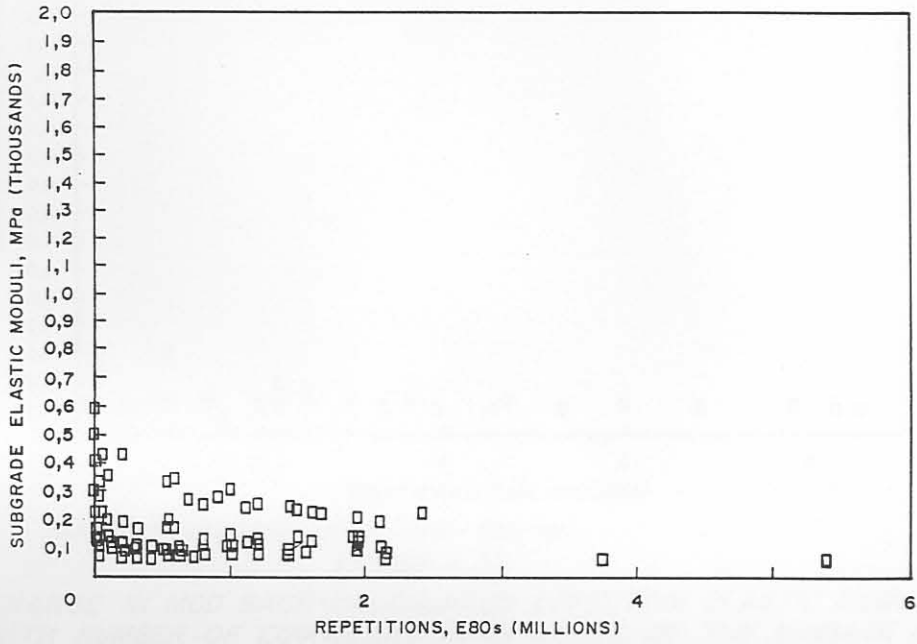
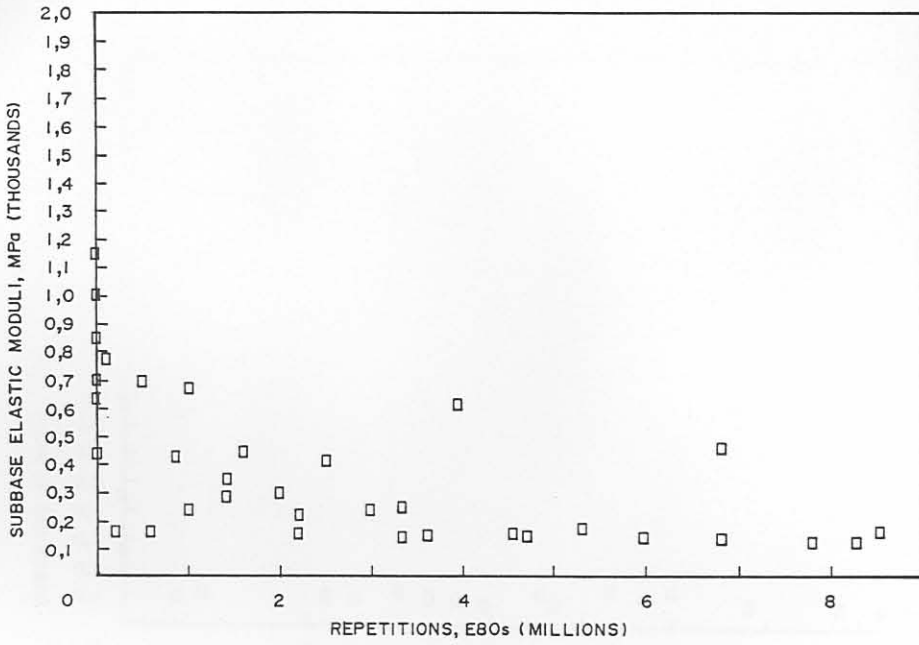
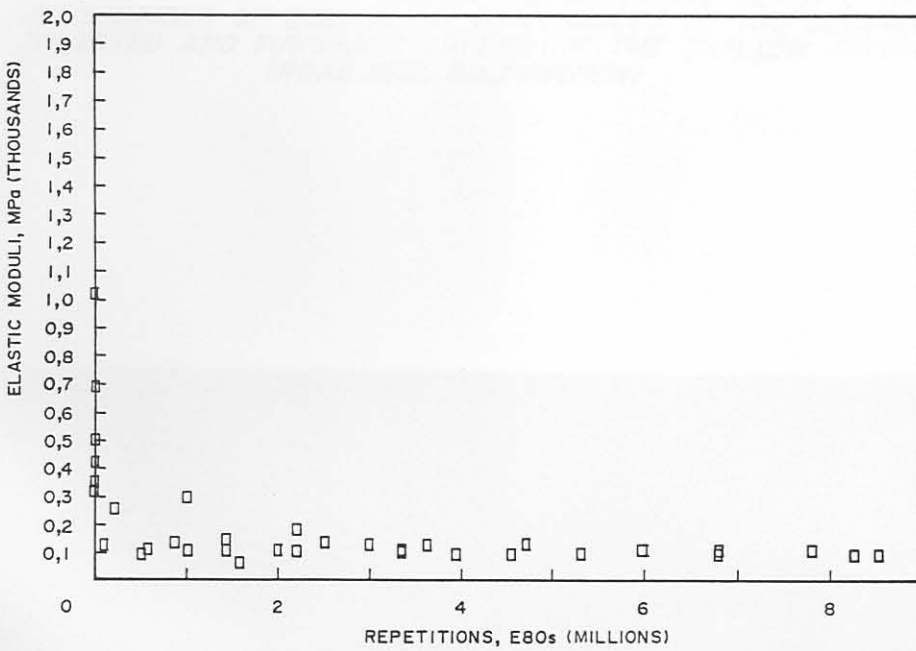


FIGURE F.16

CHANGE IN MDD BACK-CALCULATED EFFECTIVE ELASTIC MODULI WITH NUMBER OF EQUIVALENT 80 kN AXLES OF THE SUBGRADE (480 mm DOWNWARDS) OF THE DEEP PAVEMENT (ROAD 1932, ROOIWAL)



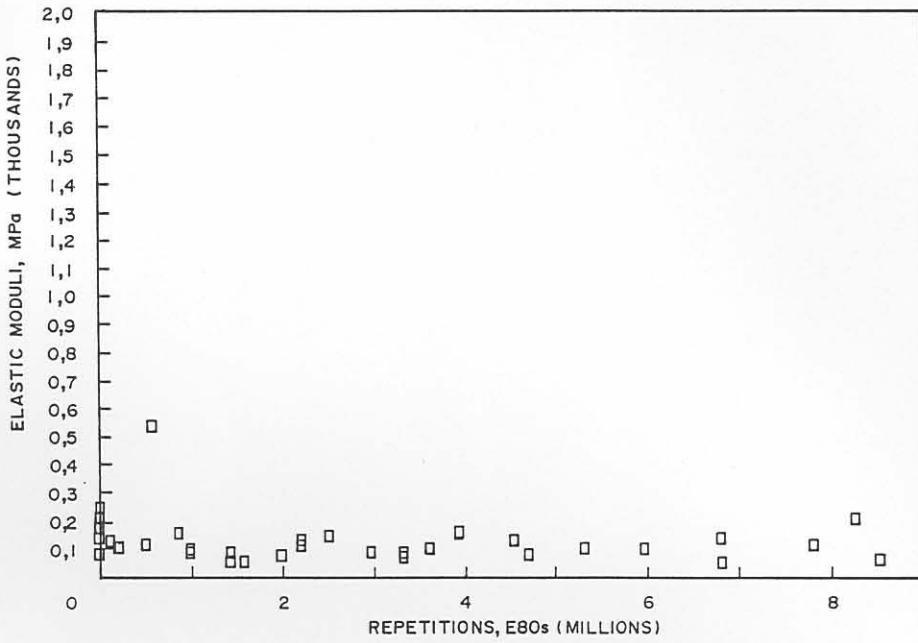
(a) SUBBASE (110 - 310 mm)



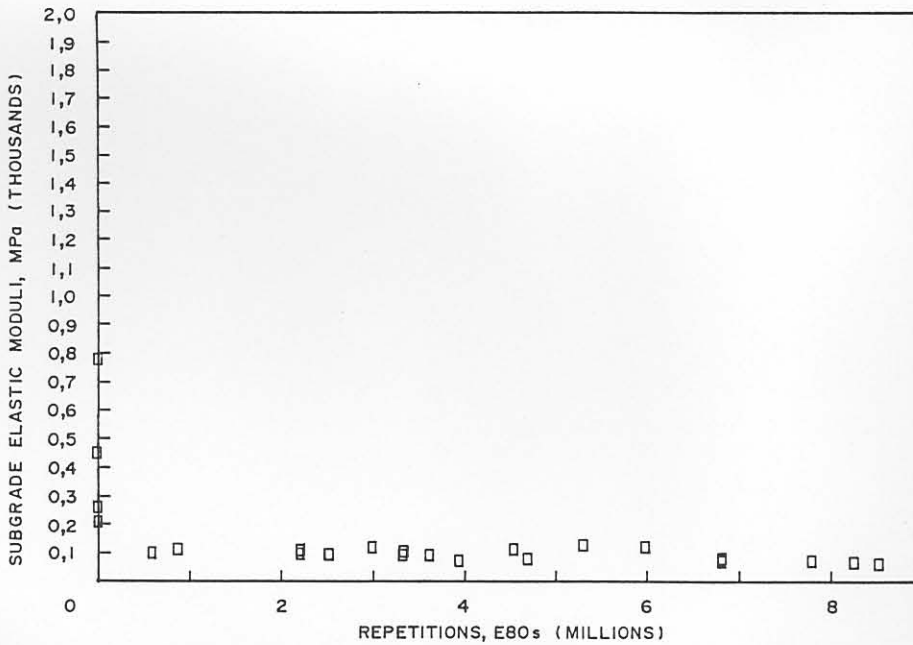
(b) FIRST SELECTED LAYER (310 - 480 mm)

FIGURE F.17

CHANGE IN MDD BACK-CALCULATED EFFECTIVE ELASTIC MODULI WITH NUMBER OF EQUIVALENT 80 KN AXLES, OF THE SUBBASE AND FIRST SELECTED LAYER IN THE SHALLOW PAVEMENT (ROAD 2212, BULTFONTEIN)



(a) SECOND SELECTED LAYER (480-630 mm)



(b) SUBGRADE LAYER (630 mm DOWNWARDS)

FIGURE F.18

CHANGE IN MDD BACK-CALCULATED EFFECTIVE ELASTIC MODULI WITH NUMBER OF EQUIVALENT 80 KN AXLES OF THE SECOND SELECTED AND SUBGRADE LAYERS OF THE SHALLOW PAVEMENT (ROAD 2212, BULTFONTEIN)