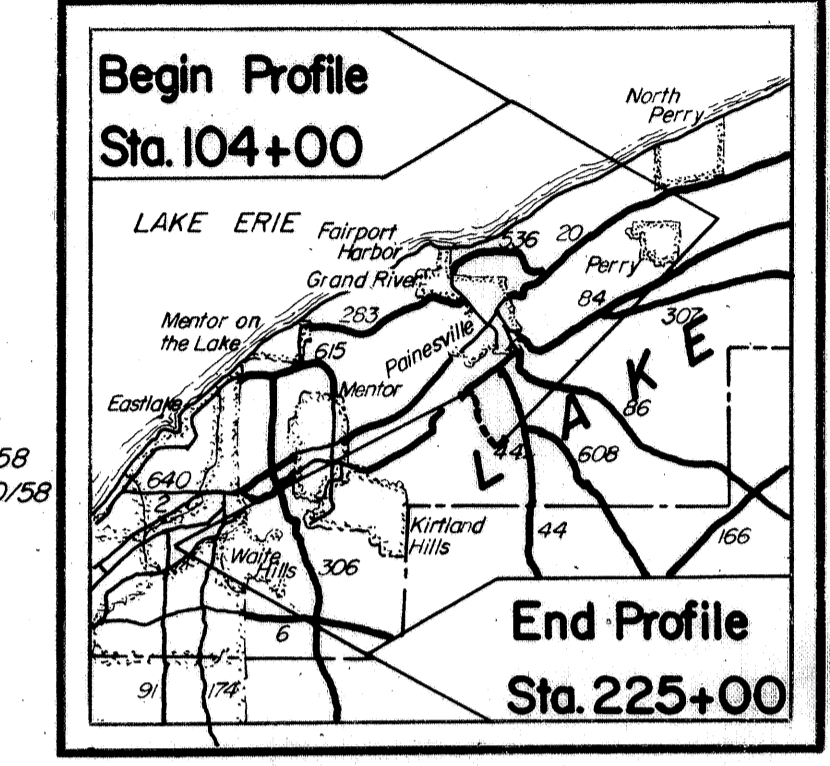




NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.



Recon. C.J.K. 12/3/57  
Auger C.A.C., D.J.H. 2/7/58  
Core H.W.H., D.A.S., R.S.S. 2/20/58  
Drafting G.V.T. 3/11/58

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 159 SAMPLES TESTED

| DESCRIPTION                    | H. R. B. CLASS | OHIO CLASS | % AGG. | % C. SAND | % F. SAND | % SILT | % CLAY | LIQUID LIMIT | PLASTICITY INDEX | WATER CONTENT | SAMPLES TESTED |
|--------------------------------|----------------|------------|--------|-----------|-----------|--------|--------|--------------|------------------|---------------|----------------|
| Gravel                         | A-1-a(0)       | A-1-a      | 60     | 22        | 5         | 10     | 3      | NP           | NP               | 6             | 1              |
| Gravel with sand               | A-1-b(0)       | A-1-b      | 38     | 26        | 17        | 12     | 7      | 23           | 3                | 12            | 2              |
| Fine sand                      | A-3(0)         | A-3        | 0      | 15        | 77        | 6      | 2      | NP           | NP               | 21            | 1              |
| Coarse & fine sand             | —              | A-3a       | 5      | 23        | 47        | 15     | 10     | NP           | NP               | 17            | 9              |
| Gravel with sand & silt        | A-2-4(0)       | A-2-4      | 40     | 24        | 12        | 15     | 9      | 23           | 7                | 17            | 10             |
| Gravel with sand, silt, & clay | A-2-6(0)       | A-2-6      | 42     | 15        | 12        | 18     | 13     | 30           | 12               | 22            | 2              |
| Sandy silt                     | A-4(5)         | A-4a       | 11     | 9         | 19        | 37     | 24     | 24           | 6                | 18            | 48             |
| Silt                           | A-4(8)         | A-4b       | 3      | 2         | 7         | 64     | 24     | 18           | 5                | 22            | 21             |
| Silt and clay                  | A-6(9)         | A-6a       | 8      | 5         | 9         | 41     | 37     | 32           | 12               | 17            | 49             |
| Silty clay                     | A-6(10)        | A-6b       | 8      | 4         | 7         | 36     | 45     | 37           | 14               | 18            | 5              |
| Elastic clay                   | A-7-5(15)      | A-7-5      | 16     | 2         | 5         | 33     | 44     | 55           | 21               | 49            | 1              |
| Clay                           | A-7-6(11)      | A-7-6      | 4      | 2         | 5         | 46     | 43     | 42           | 18               | 23            | 6              |
| Shale                          |                |            |        |           |           |        |        |              |                  |               |                |

Visual Classification      Samples Taken      Moisture Density Sample  
Lab. Nos. So.      79826 - 79828 incl.      Lab. No. So.      80537  
79830

● Water content nearly equal to or greater than liquid limit.  
—w Free water  
Note: Figures beside borings indicate water content in percent.

80613 - 80640 incl.      Note: Figures in parentheses indicate number of blows for "Standard Penetration Test."  
80644 - 80722 incl.  
80948 - 80965 incl.  
83227 - 83248 incl.  
84253 - 84260 incl.

Summary of Soil Test Data

Note: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.

| Station & Offset | Depth From-To                               | % Agg.             | % C.S.           | % F.S.            | % Silt               | % Clay               | LL                   | PI                | % W.C.              | SHTL Class.                   |
|------------------|---|--------------------|------------------|-------------------|----------------------|----------------------|----------------------|-------------------|---------------------|-------------------------------|
| 105+80           | 0.3-2.0<br>2.0-4.0                          | 29<br>20           | 7<br>7           | 7<br>6            | 37<br>16             | 20<br>16             | 26<br>25             | 5<br>7            | 13<br>7             | A-4a<br>A-4b                  |
| 110+50           | 0.3-2.0<br>2.0-7.0<br>7.0-10.0              | 6<br>2<br>32       | 2<br>3<br>9      | 7<br>2<br>5       | 51<br>32<br>33       | 34<br>31<br>21       | 37<br>10<br>26       | 14<br>17<br>6     | 19<br>10<br>8       | A-6a<br>A-4b<br>A-4a          |
| 114+00           | 0.3-3.0<br>3.0-7.0<br>7.0-9.0               | 7<br>21<br>6       | 4<br>5<br>3      | 6<br>3<br>5       | 53<br>33<br>57       | 30<br>38<br>29       | 44<br>13<br>29       | 19<br>13<br>9     | 16<br>7<br>7        | A-7-6<br>A-6a<br>A-4b         |
| 119+00           | 0.3-4.0                                     | 9                  | 3                | 2                 | 45                   | 41                   | 42                   | 18                | 23                  | A-7-6                         |
| 119+00           | 100' LT<br>0.3-3.0                          | 4                  | 3                | 6                 | 46                   | 41                   | 39                   | 15                | 26                  | A-6a                          |
| 130+00           | 0.3-2.0<br>2.0-6.0                          | 2<br>0             | 2<br>1           | 6<br>3            | 47<br>44             | 43<br>52             | 42<br>20             | 17<br>25          | 25<br>25            | A-7-6<br>A-7-6                |
| 133+30           | 0.3-3.0<br>3.0-6.0<br>6.0-8.0               | 4<br>5<br>15       | 2<br>6<br>3      | 9<br>14<br>3      | 44<br>40<br>40       | 31<br>27<br>39       | 33<br>11<br>11       | 12<br>11<br>11    | 26<br>11<br>11      | A-6a<br>A-6a<br>A-6a          |
| 135+50           | 0.3-2.0<br>2.0-7.0<br>7.0-11.0              | 3<br>9<br>23       | 4<br>7<br>15     | 11<br>13<br>13    | 40<br>35<br>29       | 42<br>36<br>20       | 33<br>11<br>20       | 16<br>17<br>9     | 23<br>11<br>11      | A-6b<br>A-6a<br>A-4a          |
| 137+00           | 0.3-2.0<br>2.0-4.0<br>4.0-11.0<br>11.0-13.0 | 0<br>1<br>15<br>15 | 1<br>2<br>8<br>2 | 2<br>6<br>17<br>4 | 58<br>43<br>39<br>47 | 39<br>48<br>21<br>32 | 37<br>42<br>22<br>12 | 9<br>18<br>6<br>9 | 32<br>18<br>16<br>9 | A-4b<br>A-7-6<br>A-4a<br>A-6a |
| 140+50           | 0.3-4.0<br>4.0-7.0<br>7.0-10.0              | 3<br>3<br>19       | 4<br>2<br>4      | 9<br>1<br>5       | 44<br>54<br>40       | 40<br>39<br>40       | 33<br>37<br>16       | 11<br>16<br>14    | 22<br>18<br>16      | A-6a<br>A-6b<br>A-6b          |
| 142+65           | 0.3-2.0<br>2.0-5.0<br>5.0-5.0               | 6<br>5<br>33       | 5<br>2<br>5      | 17<br>6<br>3      | 45<br>47<br>31       | 27<br>47<br>28       | 29<br>35<br>39       | 8<br>17<br>12     | 29<br>20<br>13      | A-4a<br>A-6b<br>A-6a          |
| 146+00           | 0.3-4.0<br>4.0-8.0<br>8.0-12.5              | 2<br>2<br>11       | 2<br>5<br>5      | 4<br>6<br>3       | 51<br>44<br>45       | 41<br>40<br>36       | 37<br>14<br>33       | 14<br>12<br>13    | 18<br>12<br>10      | A-6a<br>A-6a<br>A-6a          |

| Station & Offset | Depth From-To   | % Agg.                      | % C.S.                       | % F.S.                           | % Silt                           | % Clay                          | LL                               | PI                              | % W.C.                           | SHTL Class.                                  |
|------------------|---|-----------------------------|------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|--|
| 149+00           | 0.3-2.0<br>2.0-7.0<br>7.0-14.0<br>14.0-20.0                       | 5<br>9<br>9<br>8            | 5<br>7<br>7<br>8             | 10<br>13<br>19<br>12             | 42<br>47<br>29<br>43             | 38<br>24<br>24<br>29            | 36<br>24<br>27<br>11             | 15<br>7<br>6<br>11              | 17<br>16<br>16<br>14             | A-6a<br>A-4a<br>A-4a<br>A-6a                 |
| 153+00           | 0.3-2.0<br>2.0-16.0   | 3<br>11                     | 3<br>7                       | 11<br>12                         | 48<br>42                         | 35<br>28                        | 32<br>25                         | 12<br>8                         | 15<br>15                         | A-6a<br>A-4a                                 |
| 157+00           | 0.3-2.0<br>2.0-3.0<br>3.0-8.0                                     | 2<br>16<br>8                | 5<br>2<br>6                  | 12<br>5<br>12                    | 50<br>32<br>43                   | 31<br>44<br>31                  | 36<br>55<br>28                   | 9<br>21<br>11                   | 31<br>49<br>17                   | A-4b<br>A-7-5<br>A-6a                        |
| 161+00           | 0.3-2.0<br>2.0-7.0<br>7.0-12.0<br>12.0-15.0<br>15.0-20.0          | 2<br>9<br>10<br>11<br>11    | 3<br>8<br>7<br>8<br>11       | 11<br>12<br>13<br>13<br>14       | 49<br>40<br>40<br>40<br>38       | 35<br>31<br>29<br>24<br>29      | 31<br>26<br>26<br>2<br>8         | 11<br>23<br>13<br>14<br>13      | 17<br>17<br>16<br>14<br>13       | A-6a<br>A-4a<br>A-6a<br>A-4a<br>A-4a         |
| 167+00           | 0.5-2.0<br>2.0-4.0<br>4.0-11.0<br>11.0-13.0<br>13.0-20.0          | 14<br>0<br>16<br>34<br>11   | 18<br>8<br>42<br>33<br>10    | 8<br>55<br>25<br>12<br>14        | 18<br>17<br>9<br>12<br>34        | 16<br>20<br>8<br>12<br>31       | 19<br>20<br>NP<br>23<br>31       | 4<br>7<br>NP<br>7<br>19         | 14<br>18<br>7<br>13<br>13        | A-3a<br>A-4a<br>A-1-b<br>A-2-4<br>A-4a       |
| 172+00           | 0.0-2.0<br>2.0-5.0<br>5.0-7.0<br>7.0-8.0<br>8.0-14.0<br>14.0-20.0 | 13<br>5<br>0<br>0<br>0<br>7 | 19<br>7<br>0<br>2<br>9<br>10 | 26<br>53<br>33<br>49<br>69<br>21 | 28<br>21<br>45<br>40<br>16<br>34 | 14<br>22<br>22<br>28<br>6<br>25 | 26<br>NP<br>NP<br>11<br>NP<br>21 | 6<br>NP<br>NP<br>28<br>NP<br>13 | 18<br>17<br>17<br>28<br>NP<br>16 | A-4a<br>A-3a<br>A-4a<br>A-6a<br>A-3a<br>A-4a |
| 177+00           | 0.4-1.0<br>1.0-4.0<br>4.0-9.0                                     | 9<br>7<br>0                 | 14<br>0<br>22                | 13<br>7<br>47                    | 39<br>34<br>14                   | 39<br>36<br>17                  | 33<br>13<br>NP                   | 8<br>24<br>24                   | 26<br>23<br>23                   | A-4a<br>A-6a<br>A-3a                         |
| 182+00           | 0.3-3.0<br>3.0-6.0<br>6.0-8.0                                     | 3<br>6<br>0                 | 3<br>2<br>1                  | 14<br>22<br>68                   | 49<br>43<br>25                   | 31<br>22<br>20                  | 31<br>22<br>4                    | 11<br>7<br>19                   | 19<br>17<br>19                   | A-6a<br>A-4a<br>A-4b                         |
| 186+00           | 0.3-3.0<br>3.0-4.5  | 0<br>0                      | 21<br>2                      | 23<br>24                         | 35<br>45                         | 21<br>29                        | 24<br>23                         | 5<br>7                          | 17<br>20                         | A-4a<br>A-4a                                 |
| 186+00           | 100' LT<br>0.3-2.0<br>2.0-4.0                                     | 0<br>8                      | 1<br>9                       | 19<br>21                         | 57<br>42                         | 23<br>20                        | 28<br>26                         | 3<br>5                          | 20<br>28                         | A-4b<br>A-4a                                 |

| Station & Offset | Depth From-To  | % Agg.                                   | % C.S.                                | % F.S.                                 | % Silt  | % Clay   | LL   | PI  | % W.C.   | SHTL Class.   |
|------------------|--|--|---------------------------------------|--|---|--|--|---|--|---|
| 190+50           | 0.3-6.0<br>6.0-12.0  | 7<br>18                                  | 7<br>9                                | 11<br>12                               | 37<br>28  | 42<br>33   | 35<br>30   | 13<br>13  | 20<br>15   | A-6a<br>A-6a  |
| 192+00           | 100' RT<br>0.3-2.0<br>2.0-5.0  | 4<br>22                                  | 8<br>20                               | 22<br>25                               | 46<br>21  | 20<br>12   | 27<br>24   | 5<br>5  | 24<br>22   | A-4a<br>A-2-4   |
| 193+00           | 0.3-2.0<br>2.0-5.0   | 13<br>29                                 | 8<br>13                               | 7<br>18                                | 50<br>28  | 22<br>22   | 31<br>23   | 4<br>3  | 23<br>25   | A-4b<br>A-4a  |
| 194+35           | 200' LT<br>0.5-3.0<br>3.0-5.0<br>5.0-14.0<br>14.0-21.0<br>21.0-27.0<br>27.0-30.0                             | 4<br>8<br>6<br>6<br>14<br>0              | 4<br>6<br>6<br>6<br>4<br>4            | 9<br>9<br>11<br>8<br>7<br>7            | 38<br>42<br>37<br>40<br>40<br>43                  | 45<br>33<br>40<br>29<br>30<br>28                   | 32<br>13<br>14<br>28<br>11<br>12                   | 13<br>15<br>9<br>15<br>17<br>17                   | 22<br>15<br>15<br>17<br>17<br>17                   | A-6a<br>A-6a<br>A-4a<br>A-6a<br>A-6a<br>A-6a                          |
| 196+00           | 245' LT<br>0.3-3.0<br>3.0-6.0<br>6.0-12.0<br>12.0-15.0<br>15.0-18.0<br>18.0-24.0<br>24.0-29.0<br>29.0-30.0   | 11<br>20<br>11<br>6<br>7<br>10<br>5<br>0 | 4<br>4<br>4<br>3<br>3<br>3<br>1       | 17<br>9<br>8<br>8<br>7<br>7<br>1       | 32<br>39<br>25<br>34<br>34<br>32<br>44<br>41      | 36<br>38<br>48<br>48<br>31<br>30<br>27<br>27       | 32<br>30<br>13<br>13<br>11<br>13<br>13<br>12       | 13<br>11<br>13<br>13<br>16<br>16<br>16<br>32      | 24<br>18<br>13<br>13<br>16<br>16<br>16<br>16       | A-6a<br>A-6a<br>A-6a<br>A-6a<br>A-6a<br>A-6a<br>A-4a<br>A-4b          |
| 197+00           | 80' RT<br>0.4-2.0<br>2.0-3.0<br>3.0-5.0<br>5.0-6.0   | 0<br>4<br>34<br>0                        | 6<br>14<br>9<br>1                     | 29<br>31<br>10<br>1                    | 42<br>32<br>27<br>86                              | 23<br>19<br>16<br>NP                               | 25<br>21<br>9<br>NP                                | 7<br>3<br>9<br>NP                                 | 20<br>19<br>17<br>32                               | A-4a<br>A-4a<br>A-4a<br>SHALE   |
| 198+00           | 222' LT<br>0.3-4.0<br>4.0-11.5<br>11.5-12.5<br>12.5-15.0<br>15.0-17.0<br>17.0-21.0<br>21.0-24.0<br>24.0-30.0 | 46<br>8<br>1<br>6<br>0<br>4<br>0<br>4    | 15<br>7<br>2<br>2<br>1<br>0<br>0<br>1 | 8<br>11<br>7<br>6<br>8<br>6<br>1<br>10 | 8<br>28<br>56<br>57<br>12<br>NP<br>NP<br>NP<br>NP | 10<br>46<br>34<br>30<br>32<br>NP<br>NP<br>NP<br>NP | 24<br>36<br>23<br>12<br>12<br>NP<br>NP<br>NP<br>NP | 6<br>16<br>15<br>12<br>12<br>NP<br>NP<br>NP<br>NP | 11<br>15<br>22<br>22<br>22<br>25<br>25<br>23<br>23 | A-2-4<br>A-6b<br>A-4b<br>A-6a<br>A-4b<br>A-4b<br>A-4b<br>A-4b<br>A-4b |
| 200+00           | 0.3-3.0<br>3.0-5.0<br>5.0-6.0<br>6.0-8.0   | 0<br>0<br>53<br>27                       | 0<br>6<br>7<br>6                      | 6<br>20<br>9<br>6                      | 65<br>57<br>39<br>19                              | 39<br>28<br>12<br>29                               | 34<br>28<br>32<br>29                               | 13<br>9<br>13<br>11                               | 23<br>24<br>23<br>17                               | A-6a<br>A-4a<br>A-2-6<br>A-6a   |
| 204+00           | 0.3-3.0<br>3.0-6.0<br>6.0-11.0<br>11.0-14.0  | 0<br>49<br>12<br>35                      | 0<br>17<br>12<br>18                   | 7<br>17<br>17<br>14                    | 58<br>27<br>41<br>20                              | 35<br>30<br>18<br>13                               | 30<br>19<br>19<br>22                               | 6<br>9<br>1<br>7                                  | 27<br>14<br>9<br>7                                 | A-4b<br>A-2-4<br>A-4a<br>A-2-4  |
| 207+00           | 100' RT<br>0.3-4.0<br>4.0-7.0<br>7.0-14.0<br>14.0-20.0   | 9<br>14<br>59<br>13                      | 8<br>14<br>11<br>56                   | 15<br>17<br>8<br>11                    | 45<br>34<br>16<br>16                              | 23<br>21<br>6<br>4                                 | 24<br>10<br>23<br>19                               | 3<br>10<br>6<br>1                                 | 14<br>19<br>16<br>15                               | A-4a<br>A-4a<br>A-1-b<br>A-3a   |

| Station & Offset | Depth From-To  | % Agg.  | % C.S.                         | % F.S.                         | % Silt                         | % Clay                           | LL                              | PI                           | % W.C.                           | SHTL Class.                                    |
|------------------|--|---|--------------------------------|--------------------------------|--------------------------------|----------------------------------|---------------------------------|------------------------------|----------------------------------|--|
| 208+50           | 100' RT<br>0.3-1.0<br>1.0-2.5                                      | 44<br>57  | 21<br>11                       | 20<br>15                       | 21<br>12                       | 8<br>5                           | NP<br>24                        | NP<br>7                      | 27<br>22                         | A-2-4<br>A-2-4                                 |
| 213+00           | 0.3-4.0<br>4.0-8.0   | 0<br>0  | 1<br>1                         | 11<br>9                        | 52<br>68                       | 36<br>22                         | 31<br>26                        | 10<br>8                      | 18<br>25                         | A-4b<br>A-4b                                   |
| 217+30           | 0.3-5.0<br>5.0-10.0  | 58<br>60  | 23<br>22                       | 5<br>5                         | 8<br>10                        | 6<br>3                           | 27<br>NP                        | 8<br>NP                      | 14<br>6                          | A-2-4<br>A-1-a                                 |
| 221+00           | 0.3-2.0<br>2.0-5.0<br>5.0-9.5<br>9.5-14.0                          | 4<br>33<br>0<br>0   | 6<br>7<br>1<br>0               | 42<br>32<br>59<br>71           | 32<br>16<br>22<br>12           | 16<br>17<br>24<br>12             | 17<br>3<br>NP                   | 3<br>5<br>6<br>NP            | 17<br>17<br>23<br>20             | A-4a<br>A-4a<br>A-4b<br>A-4b                   |
| 225+00           | 0.3-5.0<br>5.0-6.0<br>6.0-7.5<br>7.0-11.0<br>11.0-15.5             | 0<br>0<br>0<br>3<br>0   | 13<br>15<br>8<br>7<br>6        | 69<br>77<br>77<br>40<br>17     | 11<br>6<br>2<br>32<br>37       | 2<br>2<br>NP<br>NP<br>23         | NP<br>NP<br>NP<br>NP<br>7       | NP<br>NP<br>NP<br>NP<br>7    | 11<br>21<br>34<br>19<br>14       | A-3a<br>A-3<br>A-3a<br>A-4a<br>A-4a            |
| Prouty Rd.       | 6+00   | 10' RT<br>0.3-2.0<br>2.0-6.0<br>6.0-8.0<br>8.0-9.0<br>9.0-15.0<br>15.0-20.0 | 5<br>47<br>40<br>17<br>10<br>8 | 9<br>29<br>22<br>13<br>10<br>8 | 11<br>7<br>10<br>10<br>6<br>40 | 43<br>10<br>17<br>34<br>26<br>34 | 29<br>7<br>28<br>26<br>27<br>26 | 11<br>9<br>9<br>4<br>7<br>11 | 20<br>12<br>19<br>16<br>12<br>12 | A-6a<br>A-2-4<br>A-2-4<br>A-4a<br>A-4a<br>A-6a |
| 15+00            | 10' LT<br>0.3-2.0<br>2.0-7.0<br>7.0-11.0<br>11.0-15.0<br>15.0-20.0 | 0<br>0<br>8<br>7<br>7   | 0<br>7<br>8<br>13<br>10        | 2<br>15<br>13<br>30<br>13      | 67<br>41<br>37<br>37<br>31     | 31<br>37<br>33<br>31<br>32       | 10<br>11<br>11<br>11<br>10      | 33<br>16<br>14<br>26<br>26   | 10<br>11<br>13<br>13<br>6        | A-4b<br>A-6a<br>A-6a<br>A-4a<br>A-4a           |
| SR 84            | 4+00   | 15' RT<br>0.4-3.0<br>3.0-7.0<br>7.0-10.0                                    | 29<br>7<br>10                  | 19<br>7<br>9                   | 13<br>22<br>10                 | 22<br>40<br>41                   | 17<br>30<br>30                  | 8<br>11<br>11                | 9<br>15<br>15                    | A-4a<br>A-6a<br>A-6a                           |
| 16+50            | 15' RT<br>0.4-3.0<br>3.0-5.0<br>5.0-10.0                           | 10<br>7<br>16   | 18<br>48<br>57                 | 18<br>14<br>6                  | 14<br>12<br>14                 | 22<br>12<br>7                    | 28<br>24<br>26                  | 4<br>6<br>9                  | 17<br>13<br>12                   | A-3a<br>A-3a<br>A-2-4                          |