

Comparison of sclerobiont communities between three brachiopod host species from the Upper Ordovician

Fairview Formation (Eastern USA) – Appendix

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Table 1. Length measurements for each host brachiopod. ID = Idlewilde, OH Locality. 1606 = Sulphur, KY locality. Rt 9+11 = Routes 9 +11, KY localities.

| <i>Rafinesquina alternata</i> | Length (mm) | <i>Vinlandostrophia</i> sp. | Length (mm) | <i>Hebertella occidentalis</i> | Length (mm) |
|-------------------------------|-------------|-----------------------------|-------------|--------------------------------|-------------|
| ID 1 | 38.78 | ID 3 | 28.32 | Rt 11+9 1 | 38.78 |
| ID 2 | 39.19 | ID 5 | 20.35 | Rt 11+9 2 | 39.19 |
| ID 3 | 39.45 | ID 7 | 18.11 | Rt 11+9 3 | 39.45 |
| ID 4 | 36.74 | ID 8 | 17.07 | Rt 11+9 4 | 36.74 |
| ID 5 | 38.28 | ID 10 | 17.53 | Rt 11+9 5 | 38.28 |
| ID 6 | 28.03 | ID 201 | 17.81 | Rt 11+9 6 | 28.03 |
| ID 7 | 35.75 | ID 211 | 16.97 | Rt 11+9 7 | 35.75 |
| ID 8 | 39.26 | ID 212 | 13.83 | Rt 11+9 9 | 39.26 |
| ID 57 | 32.83 | ID 213 | 15.94 | Rt 11+9 10 | 32.83 |
| ID 58 | 39.97 | ID 214 | 19.80 | Rt 11+9 11 | 39.97 |
| ID 59 | 41.41 | ID 215 | 13.05 | Rt 11+9 12 | 41.41 |
| ID 60 | 39.99 | ID 216 | 14.33 | Rt 11+9 14 | 39.99 |
| ID 61 | 40.86 | 1606 51 | 21.07 | Rt 11+9 15 | 40.86 |
| ID 62 | 33.81 | 1606 52 | 30.92 | Rt 11+9 16 | 33.81 |
| ID 63 | 41.30 | 1606 53 | 29.12 | Rt 11+9 18 | 41.30 |
| ID 64 | 31.44 | 1606 54 | 17.44 | Rt 11+9 21 | 31.44 |
| 1606 2 | 35.32 | 1606 55 | 26.06 | Rt 11+9 22 | 35.32 |
| 1606 3 | 32.55 | 1606 56 | 23.34 | Rt 11+9 26 | 32.55 |
| 1606 4 | 37.19 | 1606 57 | 23.73 | Rt 11+9 27 | 37.19 |
| 1606 5 | 32.87 | 1606 58 | 21.57 | Rt 11+9 29 | 32.87 |
| 1606 6 | 33.57 | 1606 59 | 22.34 | Rt 11+9 56 | 33.57 |
| 1606 8 | 37.70 | 1606 60 | 21.47 | Rt 11+9 57 | 37.70 |
| 1606 9 | 25.34 | 1606 61 | 19.71 | Rt 11+9 58 | 25.34 |
| 1606 10 | 35.72 | 1606 62 | 15.71 | | |
| 1606 12 | 38.52 | 1606 63 | 18.56 | | |
| 1606 13 | 33.63 | 1606 64 | 17.86 | | |
| 1606 14 | 32.14 | 1606 65 | 16.47 | | |
| 1606 66 | 34.92 | 1606 66 | 16.66 | | |
| | | Rt 11+9 48 | 26.93 | | |
| | | Rt 11+9 50 | 26.65 | | |
| | | Rt 11+9 171 | 26.32 | | |
| | | Rt 11+9 172 | 23.96 | | |
| | | Rt 11+9 173 | 23.71 | | |
| | | Rt 11+9 174 | 26.23 | | |

Table 2. Sclerobiont counts for each brachiopod. ID = Idlewilde, OH Locality. 1606 = Sulphur, KY locality. Rt 9+11 = Routes 9 +11, KY localities. R = *Rafinesquina alternata*. P = *Vinlandostrophia* sp. H = *Hebertella occidentalis*. p = Pedicle valve (ventral valve). b = Brachial Valve (dorsal valve)

| Taxa | Brachiopod | | | | |
|---------------|------------|----------|----------|----------|----------|
| | 1606_R2p | 1606_R3p | 1606_R4p | 1606_R5p | 1606_R6p |
| Bryo 1 | 3 | 0 | 3 | 1 | 1 |
| Bryo 2 | 1 | 1 | 1 | 1 | 0 |
| Bryo 3 | 0 | 0 | 0 | 0 | 0 |
| Bryo 4 | 0 | 0 | 0 | 0 | 0 |
| Bryo 5 | 0 | 0 | 0 | 0 | 0 |
| Eroded Bryo | 0 | 0 | 0 | 0 | 0 |
| Corynotrypa | 3 | 0 | 0 | 0 | 0 |
| Petrocrania | 1 | 0 | 0 | 0 | 0 |
| Craniids | 0 | 0 | 0 | 0 | 0 |
| Cornulitids | 1 | 0 | 4 | 0 | 1 |
| Microconchids | 0 | 0 | 0 | 0 | 1 |
| Holdfasts | 0 | 0 | 0 | 0 | 0 |
| Large Canal | 1 | 0 | 0 | 0 | 0 |
| Small Canal | 0 | 0 | 0 | 0 | 0 |
| Edge Boring | 0 | 0 | 0 | 0 | 0 |
| Clinoides | 0 | 0 | 0 | 0 | 0 |
| Clinolithes | 0 | 0 | 0 | 0 | 0 |
| Thread Field | 0 | 0 | 0 | 0 | 0 |
| Boring Indet. | 0 | 0 | 0 | 0 | 0 |

| 1606_R8p | 1606_R9p | 1606_R10p | 1606_R12p | 1606_R66p | ID_R1p | ID_R2p |
|----------|----------|-----------|-----------|-----------|--------|--------|
| 3 | 1 | 3 | 4 | 2 | 9 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 6 | 3 | 3 | 4 | 2 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 3 | 2 | 0 |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| ID_R3p | ID_R4p | ID_R5p | ID_R7p | ID_R57p | ID_R58p | ID_R60p |
|--------|--------|--------|--------|---------|---------|---------|
| 4 | 3 | 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 3 | 0 | 0 | 1 | 0 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 1 | 2 | 1 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0 | 4 | 0 | 0 | 0 | 0 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 |

| ID_R61p | ID_R62p | ID_R63p | ID_R64p | 1606_R2b | 1606_R4b | 1606_R5b |
|---------|---------|---------|---------|----------|----------|----------|
| 1 | 2 | 13 | 0 | 1 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 2 | 1 | 1 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 1606_R6b | 1606_R8b | 1606_R10b | 1606_R12b | 1606_R13b | 1606_R14b | 1606_R66b |
|----------|----------|-----------|-----------|-----------|-----------|-----------|
| 1 | 1 | 1 | 2 | 1 | 1 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| ID_R1b | Id_R2b | ID_R3b | ID_R4b | ID_R5b | ID_R6b | ID_R7b |
|--------|--------|--------|--------|--------|--------|--------|
| 0 | 1 | 2 | 0 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| 1 | 3 | 0 | 2 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| ID_P8b | ID_P10b | ID_P201b | ID_P210b | ID_P212b | ID_P214b | ID_P215b |
|--------|---------|----------|----------|----------|----------|----------|
| 3 | 2 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 1 | 2 | 0 | 2 | 4 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Rt11+9_H3p | Rt11+9_H6p | Rt11+9_H9p | Rt11+9_H10p | Rt11+9_H12p | Rt11+9_H14p | Rt11+9_H15p |
|------------|------------|------------|-------------|-------------|-------------|-------------|
| 0 | 1 | 0 | 2 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Rt11+9_H22p | Rt11+9_H27p | Rt11+9_H29p | Rt11+9_H57p | Rt11+9_H2b | Rt11+9_H6b | Rt11+9_H8b |
|-------------|-------------|-------------|-------------|------------|------------|------------|
| 9 | 1 | 2 | 0 | 2 | 2 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 3 | 3 | 0 | 1 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Rt11+9_H10b | Rt11+9_H12b | Rt11+9_H13b | Rt11+9_H14b | Rt11+9_H15b | Rt11+9_H19b | Rt11+9_H55b |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | 2 | 7 | 0 | 1 | 2 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 | 2 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 2 | 1 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Rt11+9_H56b | Rt11+9_H57b | Rt11+9_H58b |
|--------------------|--------------------|--------------------|
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 1 | 0 |
| 0 | 0 | 0 |
| 0 | 1 | 2 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 3 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |
| 0 | 0 | 0 |

