

## PCA Results:

|                | Eigenvalue | % total Variance | Cumulative Eigenvalues | Cumulative % |
|----------------|------------|------------------|------------------------|--------------|
| <b>Factor1</b> | 13.3213    | 40.36758         | 13.3213                | 40.36758     |
| <b>Factor2</b> | 6.264356   | 18.9829          | 19.58566               | 59.35047     |
| <b>Factor3</b> | 2.232367   | 6.76475          | 21.81802               | 66.11522     |
| <b>Factor4</b> | 1.721152   | 5.215612         | 23.53918               | 71.33083     |
| <b>Factor5</b> | 1.611187   | 4.882386         | 25.15036               | 76.21322     |
| <b>Factor6</b> | 1.250278   | 3.788721         | 26.40064               | 80.00194     |
| <b>Factor7</b> | 1.133505   | 3.434865         | 27.53415               | 83.43681     |
| <b>Factor8</b> | 0.79116    | 2.397454         | 28.32531               | 85.83426     |

### Factor Loadings (Varimax normalized)

Variable loadings >0.65 are marked with **blue**, and >0.50 with **red**.

| Variable                          | Factor<br>1  | Factor<br>2 | Factor<br>3  | Factor<br>4  | Factor<br>5 | Factor<br>6 | Factor<br>7 | Factor<br>8 |
|-----------------------------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|
| Bamboo density                    | <b>0.79</b>  | -0.49       | -0.01        | 0.02         | -0.09       | 0.16        | 0.19        | 0.01        |
| Banana plant density              | <b>-0.54</b> | -0.29       | 0.06         | 0.29         | <b>0.56</b> | -0.17       | -0.24       | 0.04        |
| Canopy cover                      | <b>0.70</b>  | <b>0.53</b> | 0.23         | -0.15        | -0.25       | 0.02        | 0.07        | -0.16       |
| Canopy Height                     | 0.34         | <b>0.81</b> | 0.16         | -0.14        | -0.22       | 0.04        | 0.09        | -0.11       |
| CV of Canopy Cover                | <b>-0.74</b> | -0.44       | -0.30        | 0.12         | -0.05       | 0.05        | 0.07        | 0.19        |
| CV of Canopy Height               | <b>-0.55</b> | -0.03       | -0.22        | <b>0.55</b>  | 0.20        | 0.06        | 0.19        | -0.04       |
| CV of GBH                         | 0.02         | <b>0.80</b> | 0.21         | -0.10        | -0.28       | 0.14        | -0.15       | -0.07       |
| CV of herb cover                  | 0.13         | 0.30        | <b>0.88</b>  | -0.01        | -0.10       | 0.03        | 0.00        | -0.01       |
| CV of herb height                 | 0.14         | 0.24        | <b>0.91</b>  | 0.00         | -0.05       | 0.04        | 0.10        | 0.00        |
| CV of litter cover                | <b>-0.80</b> | -0.36       | -0.27        | 0.03         | 0.05        | 0.05        | -0.09       | 0.23        |
| CV of Litter Depth                | <b>-0.73</b> | -0.17       | -0.10        | -0.24        | 0.37        | 0.06        | 0.18        | 0.18        |
| CV of organic matter content      | <b>-0.59</b> | -0.28       | -0.34        | 0.22         | 0.01        | 0.17        | -0.12       | 0.40        |
| CV of shrub density               | 0.03         | -0.10       | 0.17         | -0.04        | 0.05        | <b>0.91</b> | -0.07       | -0.15       |
| CV soil moisture                  | -0.18        | 0.02        | 0.04         | 0.04         | 0.32        | -0.33       | -0.06       | <b>0.71</b> |
| Diversity of leaf litter          | -0.09        | 0.17        | -0.26        | -0.08        | <b>0.81</b> | 0.09        | -0.20       | 0.15        |
| Herb (ground) cover               | -0.44        | -0.19       | <b>-0.64</b> | 0.38         | 0.03        | 0.02        | -0.01       | 0.23        |
| Herb height (average)             | -0.24        | -0.21       | <b>-0.87</b> | -0.05        | 0.19        | -0.14       | -0.04       | -0.08       |
| Liana abundance                   | 0.14         | <b>0.87</b> | 0.19         | 0.18         | 0.06        | -0.09       | 0.03        | 0.07        |
| Liana girth diversity             | 0.16         | <b>0.89</b> | 0.18         | 0.21         | 0.03        | -0.10       | -0.02       | 0.03        |
| Litter (ground) cover             | <b>0.80</b>  | 0.36        | 0.31         | -0.13        | -0.04       | -0.01       | 0.13        | -0.08       |
| Litter depth                      | <b>0.77</b>  | -0.12       | 0.12         | -0.10        | 0.06        | 0.03        | 0.35        | 0.30        |
| Shrub size diversity              | 0.26         | <b>0.77</b> | 0.11         | 0.10         | 0.15        | 0.00        | 0.07        | -0.22       |
| Shrubs density                    | -0.10        | 0.41        | 0.14         | <b>0.57</b>  | -0.17       | -0.30       | -0.10       | 0.19        |
| Soil moisture                     | 0.22         | 0.18        | 0.12         | 0.04         | -0.20       | -0.08       | <b>0.85</b> | -0.06       |
| Soil organic matter content       | <b>0.68</b>  | <b>0.56</b> | 0.13         | -0.07        | 0.06        | -0.08       | 0.24        | -0.17       |
| Tall grass density                | <b>-0.65</b> | -0.44       | -0.16        | -0.05        | 0.41        | -0.11       | -0.15       | 0.06        |
| Tree density                      | 0.03         | <b>0.71</b> | 0.12         | <b>-0.58</b> | -0.08       | -0.12       | -0.08       | 0.08        |
| Tree girth at breast height (GBH) | 0.03         | <b>0.86</b> | 0.08         | -0.20        | -0.02       | -0.01       | 0.18        | 0.10        |
| Tree species richness             | 0.24         | <b>0.88</b> | 0.18         | 0.13         | 0.07        | -0.05       | 0.05        | 0.02        |
| Understory palm abundance         | -0.02        | <b>0.84</b> | 0.37         | 0.15         | 0.01        | -0.06       | 0.12        | -0.05       |
| Woody matter abundance-bamboo     | <b>0.82</b>  | -0.40       | -0.06        | 0.05         | -0.03       | 0.23        | -0.05       | 0.14        |
| Woody matter abundance-logs       | <b>-0.59</b> | 0.15        | -0.17        | 0.24         | <b>0.53</b> | 0.14        | 0.16        | 0.27        |
| Woody matter abundance-twigs      | -0.24        | <b>0.81</b> | 0.00         | -0.27        | 0.11        | -0.07       | 0.03        | -0.05       |
| <b>Explained Variance</b>         | 7.608        | 9.16        | 3.827        | 1.731        | 2.063       | 1.323       | 1.335       | 1.279       |
| <b>Proportion of total</b>        | 0.231        | 0.278       | 0.116        | 0.052        | 0.063       | 0.04        | 0.04        | 0.039       |

## Factor scores

| <b>Plot</b> | <b>Factor 1</b> | <b>Factor 2</b> | <b>Factor 3</b> | <b>Factor 4</b> | <b>Factor 5</b> | <b>Factor 6</b> | <b>Factor 7</b> | <b>Factor 8</b> |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>jh1A</b> | -1.548          | -0.901          | -0.464          | 0.864           | 0.87            | 0.008           | 0.047           | 0.805           |
| <b>jh1B</b> | -1.467          | -1.061          | -0.624          | 1.358           | 0.526           | -0.065          | -0.135          | -0.112          |
| <b>jh5</b>  | 0.938           | -1.196          | 0.241           | -0.193          | -0.368          | 0.278           | 1.307           | -0.159          |
| <b>jh10</b> | 1.102           | -0.998          | 0.605           | 0.153           | -0.194          | 0.131           | -0.518          | -0.045          |
| <b>tk4</b>  | -0.734          | -0.53           | 0.225           | -2.448          | 0.617           | -0.633          | -0.865          | -0.337          |
| <b>tk22</b> | -1.092          | -0.114          | -0.809          | -1.724          | -1.782          | 0.256           | -0.63           | -0.192          |
| <b>jh35</b> | 1.194           | 0.599           | -1.284          | 0.122           | 0.467           | 0.455           | -0.535          | 0.522           |
| <b>matA</b> | -0.364          | 1.085           | 0.834           | 0.042           | -0.082          | -0.146          | 0.605           | 0.071           |
| <b>matB</b> | -0.104          | 1.266           | 0.809           | 0.271           | 0.044           | 0.018           | -0.064          | -0.06           |
| <b>matC</b> | 0.056           | 1.031           | -0.339          | 0.485           | -0.267          | -0.695          | -0.021          | -0.818          |