**4-H Range Evaluation Contest**

**Ecological Site Description & Plant Production Worksheet, Part IIa**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Plant Number** | **Plant Groups & Species Names** | **Desirable (D) or Undesirable (U)** | **Historic Climax Plant Community (HCPC)****(lbs/acre)** | **Allowable Production (lbs/acre)** | **Desirable Annual Production** **(lbs/acre)** |
| ***Grasses/Grasslike*** |
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|  |  |  |  |  |  |
|  |  |  }  | } | } |  |
|  |  |  |
|  |  |  |
|  | ***Forbs & Legumes*** |  |  |  |  |
|  |  | } | } | } |   |
|  |  |  |
|  |  |  |
|  |  |  |
|  | ***Woody Plants*** |  |  |  |  |
|  |  | } | } | } |  |
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|  |  |  |
|  |  |  |
|  | **Total** |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Plant Number** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| **Production, lbs/acre** |  |  |  |  |  |  |  |  |  |  |
| **Similarity Index (SI) = (\_\_\_\_\_\_ \_\_\_\_\_Allowable lbs/acre ÷ \_\_\_\_\_\_\_\_\_\_\_HCPC production lbs/acre) \* 100 =\_\_\_\_\_\_\_\_%*****Transfer this number to Part II Score Sheet*****Recommended Stocking Rate Calculation:**1. **Desirable Annual Production (lbs/ac)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ 4 = Usable Forage \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(lbs/ac)**
2. **Recommended Stocking Rate (ac/auy)**

**10,000 lbs/animal unit year ÷ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­ Usable Forage (lbs/ac) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ac/auy*****Transfer this number to Part II Score Sheet*** |
| **Check** | **Grazing Decisions** | **Improvement Decisions** |
| **Ranch Situation:**  |
| **Possible Invasive/Noxious Plants for this site. Use this list for Part III Plot Range Health.** |
|  |  |  |  |  |  |