For G1

|  |  |  |  |
| --- | --- | --- | --- |
| Top 5 Pages by PageRank | | Top 5 Pages by In-links | |
| DOC\_ID | PageRank Score | DOC\_ID | In-links Count |
| Integrated\_Authority\_File | 0.0186777995166 | Renewable\_energy | 421 |
| National\_Diet\_Library | 0.0122600975852 | Efficient\_energy\_use | 287 |
| United\_States | 0.0110369787417 | United\_States | 252 |
| Japan | 0.0104649222582 | Biofuel | 249 |
| Renewable\_energy | 0.0084947811293 | Wind\_power | 245 |

For G2

|  |  |  |  |
| --- | --- | --- | --- |
| Top 5 Pages by PageRank | | Top 5 Pages by In-links | |
| DOC\_ID | PageRank Score | DOC\_ID | In-links Count |
| WT21-B37-76 | 0.00269447441555 | WT21-B37-76 | 2568 |
| WT21-B37-75 | 0.0015331791 | WT21-B37-75 | 1704 |
| WT25-B39-116 | 0.00146850141633 | WT01-B18-225 | 1137 |
| WT23-B21-53 | 0.00137352493843 | WT08-B19-222 | 1041 |
| WT24-B26-10 | 0.00127615674413 | WT08-B18-400 | 990 |

From the above tables we can see that the overlap between top 5 pages by PageRank and In-links count is just 2 pages. These findings can be explained with below reasons.

1. PageRank of a score depends on the linking page. All else being equal, a link from a page with PageRank 10 will have twice the value of a link from a page with PageRank 5. For Ex: from G1 table, we can see that even though ‘*Efficient\_energy\_use’* has second highest in-links, it doesn’t appear in the top 5 pages by PageRank. This may be because it might have linking pages with low PageRank score.
2. The greater the number of links on the linking page, the less the value of each link. Our program calculates the value of each link by dividing the PageRank of the linking page by the total number of links on it. A link from a page of PageRank 1 with just one link would have a link value of '1' but a link from a page with PageRank 5 with 10 links on it would have a value of 0.5. Links from pages with zero PageRank carry no link value. This would explain how some pages with 88 links can have a PageRank of 6. The majority of those links come from high PageRank pages with few out-links. It is also likely that when a website has a vast number of In-links but low PageRank that the majority of the links it is receiving have little if any value.