

Collection Statistics

Number of documents	2504
Size of the descriptor dictionary in AIRS	862
Average length of documents in the collection (in words)	94.6
Number of queries in the static collection	28
Number of queries in the dynamic collection	23
Average number of pertinent documents in the collection (per query)	15.4

The results in Table 9.4 were averaged for five different zones: queries with recall levels (1) less than 20%, (2) between 20% and 40%, (3) between 40% and 60%, (4) between 60% and 80%, (5) between 80% and 100%. The right side of Table 9.4 shows the averaged results for recall and precision levels after the feedback process. To demonstrate how the averaging was done for all zones, we chose one zone (20% to 40%) and tabulated all of the results in Table 9.5.

The second experiment was performed on the dynamic collection of documents. The collection was divided into three separate collections consisting of 850, 850, and 804 documents, respectively. There were 23 queries and the original search was performed on the first collection using query formulations constructed in the same way as done for the static collection. Table 9.6 gives the results of this experiment

The Results of the Experiment on the Static Collection

	Original search		Final results after feedback	
	Recall	Precision	Recall	Precision
20		57.8	69.5	64.7
40		50.0	78.6	55.2
60		46.2	76.8	58.4
80		30.5	90.5	50.4
100		9.4	96.2	36.2

Table 9.5

[illegible]