The most detailed grain is the combination of individual supplier, individual product and date.

* 350 Franchise Rows,200 Franchise Postal Codes: Total = 350
* 20 ServiceCategory Row, 1 Special Event Row Total = 21
* Days per year: 365, Total = 365
* 50000 Member Rows, 150 Member Rows \* 200 Franchises, 10 MemberType, 500 Member Zip Codes Rows, Total = 50000 + 150\*200 = 80000
* 500 Merchandise Rows, Total= 500
* 100,000 Service Purchase Rows, (300\*200) Special Events Purchase, 450,000 Contains Rows
* Total Fact Table Size Increase = 100000+ 450000+60000 = 610000
* Sparsity estimate:

= 1 - (fact table size / product of dimensions)

= (1 – (610000 / (350\*21\*500\*365\*80000))

= 0.99999999431

* + The data cube has less than 1% non-zero cells.