

### Full Circle Drainage Table

This chart is based on Talbot's formula for determining culvert sizes for the area to be drained.

| Diameter of Culvert in inches | Area of Waterway Opening in Sq. Ft. | Acres of Mountainous Country | Acres of Rolling Country | Acres of Level Country |
|-------------------------------|-------------------------------------|------------------------------|--------------------------|------------------------|
| 12                            | 0.785                               | 3/4                          | 3                        | 6                      |
| 15                            | 1.227                               | 1                            | 6                        | 11                     |
| 18                            | 1.767                               | 2                            | 9                        | 18                     |
| 24                            | 3.142                               | 5                            | 20                       | 39                     |
| 30                            | 4.909                               | 8                            | 36                       | 71                     |
| 36                            | 7.068                               | 14                           | 59                       | 115                    |
| 42                            | 9.621                               | 20                           | 89                       | 175                    |
| 48                            | 12.566                              | 29                           | 125                      | 250                    |
| 54                            | 16.000                              | 40                           | 175                      | 345                    |
| 60                            | 19.635                              | 55                           | 230                      | 455                    |
| 66                            | 23.760                              | 70                           | 295                      | 585                    |
| 72                            | 28.274                              | 85                           | 375                      | 735                    |
| 78                            | 33.183                              | 105                          | 460                      | 910                    |
| 84                            | 38.484                              | 130                          | 560                      | 1110                   |

### Multiple Culvert Installation

This table shows the number of smaller diameter culverts equal in water carrying capacity to that of one culvert of larger size. It is based on culverts laid on the same slope. Example - One 24" diameter culvert is equivalent to five 12" culverts or two 18" culverts in water carrying capacity.