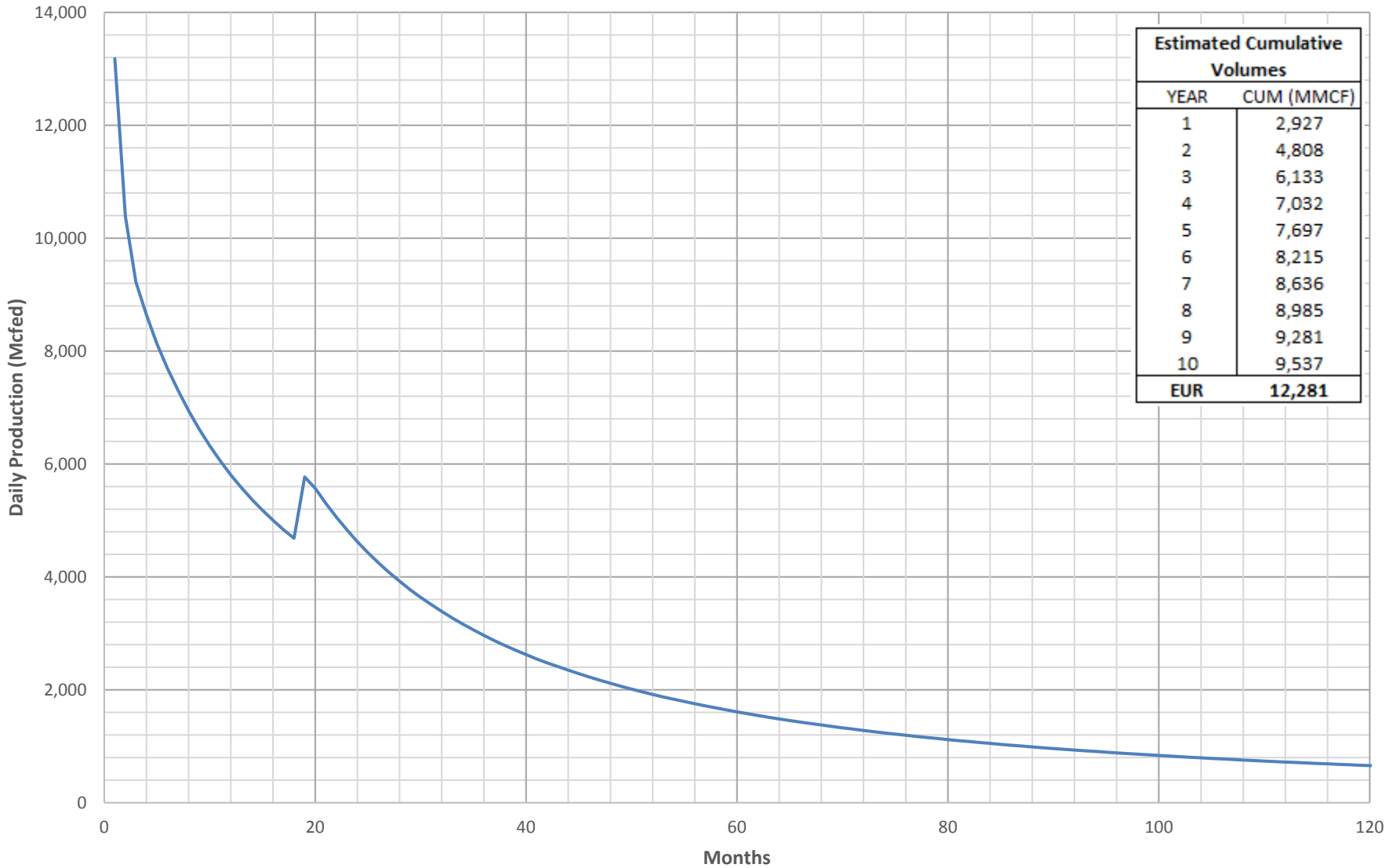


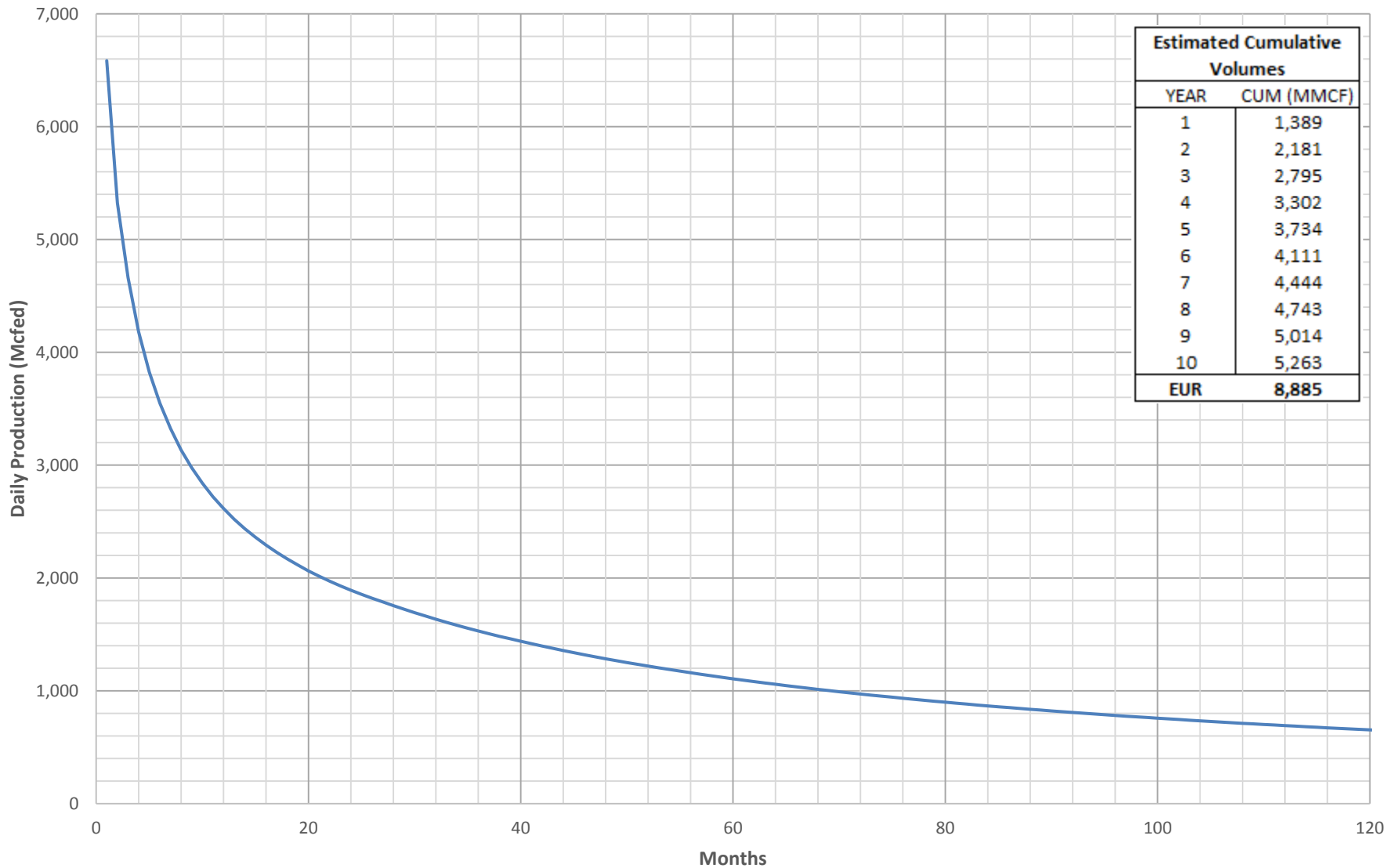
Lycoming Marcellus - Type Curve



| Estimated Cumulative Volumes | |
|------------------------------|---------------|
| YEAR | CUM (MMCF) |
| 1 | 2,927 |
| 2 | 4,808 |
| 3 | 6,133 |
| 4 | 7,032 |
| 5 | 7,697 |
| 6 | 8,215 |
| 7 | 8,636 |
| 8 | 8,985 |
| 9 | 9,281 |
| 10 | 9,537 |
| EUR | 12,281 |

— Lycoming Marcellus 4,900 FT

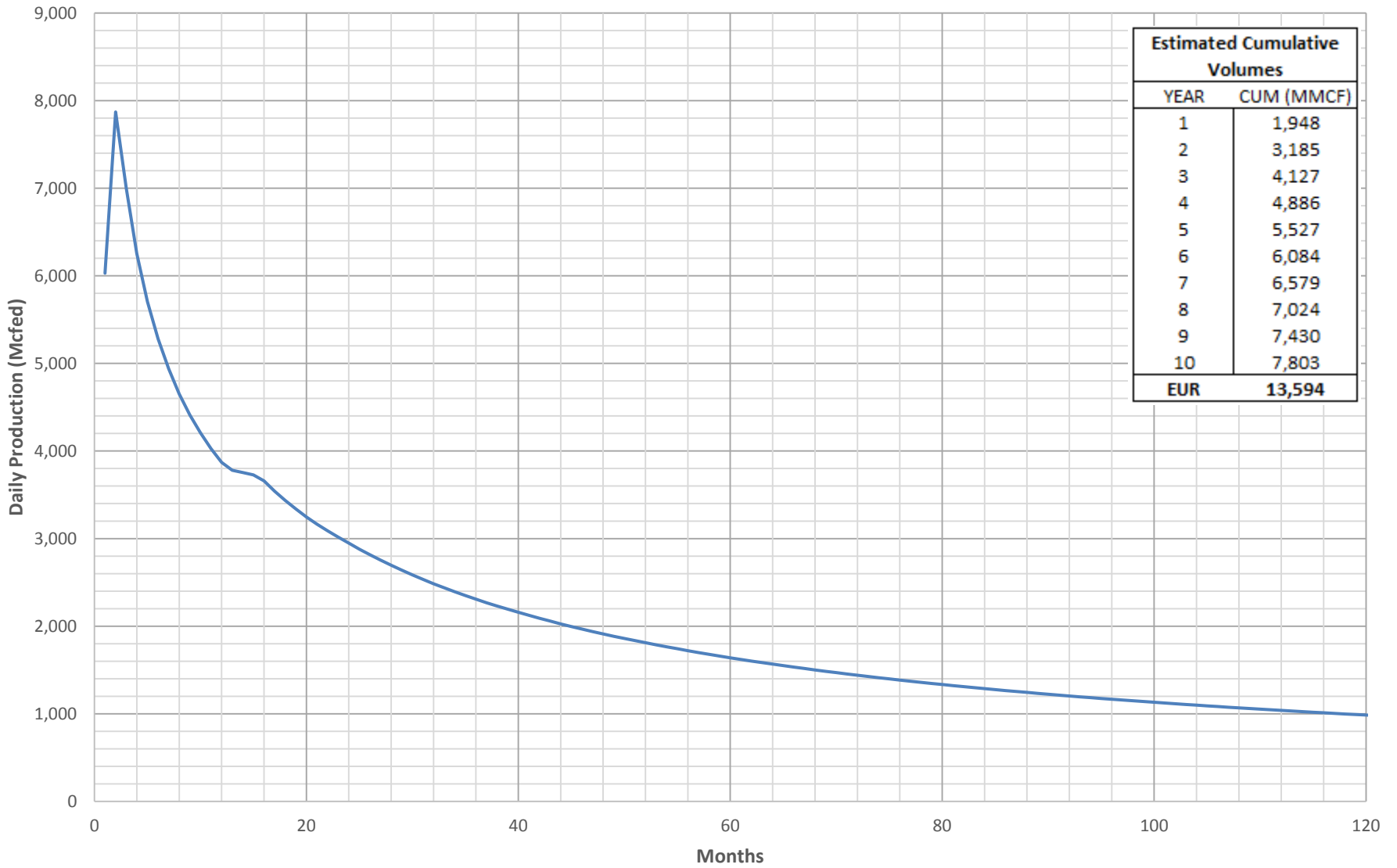
WDA Core Areas Marcellus - Type Curve



| Estimated Cumulative Volumes | |
|------------------------------|------------|
| YEAR | CUM (MMCF) |
| 1 | 1,389 |
| 2 | 2,181 |
| 3 | 2,795 |
| 4 | 3,302 |
| 5 | 3,734 |
| 6 | 4,111 |
| 7 | 4,444 |
| 8 | 4,743 |
| 9 | 5,014 |
| 10 | 5,263 |
| EUR | 8,885 |

— WDA Core Areas Marcellus 8,500 FT

WDA CRV Utica - Type Curve



— WDA CRV Utica 8,000 FT