



### Fertility Index Value (FIV) Comparison

The University of Delaware and Maryland report Fertility Index Values (FIV) for Phosphorus (P), Potassium (K), Calcium (Ca), and Magnesium (Mg). The FIV system is a calculated system of analytical data to a scale of low, medium, optimum and excessive, as outlined:

- Low: 0-25
- Medium: 26-50
- Optimum: 51-100
- Excessive: 100 +

Both Universities used different calculations so the conversion depends on the soil origin of the soil sample. The following tables are provided to assist AgroLab customers in comparing the FIV to the extracted and measured fertility levels provided in the AgroLab soil report.

#### DELAWARE:

Phosphorus (P)		Potassium (K)		Calcium (Ca)		Magnesium (Mg)	
AgroLab (ppm)	University (FIV)	AgroLab (ppm)	University (FIV)	AgroLab (ppm)	University (FIV)	AgroLab (ppm)	University (FIV)
0	0	0	0	0	0	0	0
25	25	45	25	250	25	33	25
50	50	91	50	500	50	66	50
100	100	181	100	1000	100	132	100

Ref: University of Delaware:  
M3-P-ppm X 1.00 = UD-P-FIV  
M3-K-ppm X 0.55 = UD-K-FIV  
M3-Ca-ppm X 0.10 = UD-Ca-FIV  
M3-Mg-ppm X 0.76 = UD-Mg-FIV

#### MARYLAND:

Phosphorus (P)		Potassium (K)		Calcium (Ca)		Magnesium (Mg)	
AgroLab (ppm)	University (FIV)	AgroLab (ppm)	University (FIV)	AgroLab (ppm)	University (FIV)	AgroLab (ppm)	University (FIV)
0	0	0	0	0	0	0	0
21	25	42	25	400	25	29	25
44	50	80	50	592	50	62	50
90	100	157	100	977	100	128	100

Ref: University of Maryland SFM-1  
M3-P-ppm X 1.09+2 = UM-P-FIV  
M3-K-ppm X 0.65-2 = UM-K-FIV  
M3-Ca-ppm X 0.13-27 = UM-Ca-FIV  
M3-Mg-ppm X 0.76+3 = UM-Mg-FIV