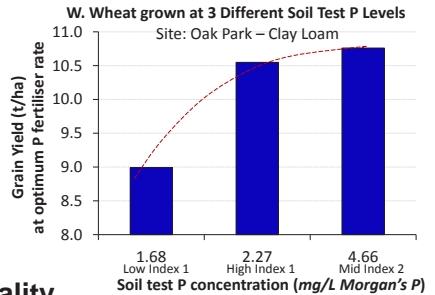




Soil fertility targets

Why Build Soil Fertility?

- **Higher yield potential**
 - Winter Wheat + 1.5t/ha
 - Spring Barley + 2.0t/ha
- **Improved crop establishment**
- **Efficient fertiliser use**
- **Healthier crops**
- **Lower variability in grain & quality**
- **Increase profitability**



Soil Fertility Targets

- ✓ pH 6.5 to 6.8
- ✓ P Index 3 (>6.0 mg/L)
- ✓ K Index 3 (>100 mg/L)



Notes: _____



Role of Phosphorus (P)

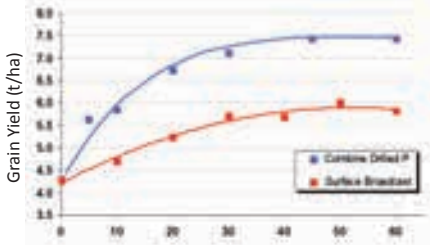
P is essential for crop establishment

- Supports early plant growth
- Drives plants energy cycle
- Plant root establishment
- Tiller development
- Seedling survival when soils are cold

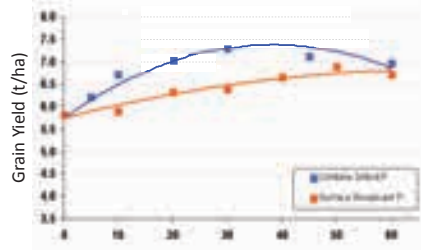


P fertiliser application method on low P fertility soils

Spring Barley: P Index 1 Soil



Spring Barley: P Index 2 Soil



Notes: _____



Role of Potassium (K)

K is important for nutrient cycling and robust crops

- Increased nitrogen efficiency
- Improved disease resistance
- Drought tolerance
- Reduced straw breakdown



K fertiliser drives tiller survival & supports grain fill

- Cereals have high K demand
- Top up K based on crop yield
- Monitor K using soil tests
- Apply high K compound
- Consider MOP 50% K fertilizer



Notes: _____



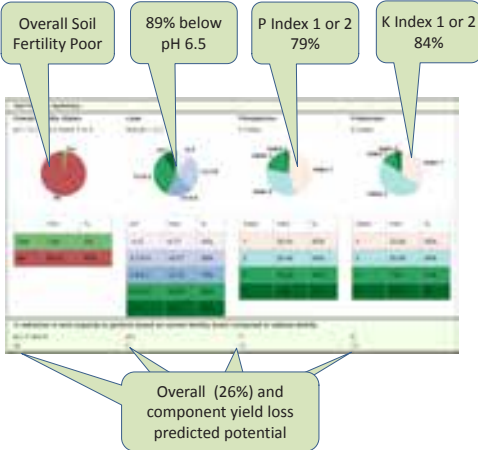
NMP online – fertiliser planning

Know your Soil Fertility

- pH and lime requirement
- Soil P
- Soil K
- Overall Fertility

NMP Online Fertiliser Plan Combining

- Teagasc Recommendations
- Nutrient advice maps
- Nitrates Limits



Soil pH and Lime Map



Soil P Index and Organic Manure Map



Plan your Lime & Fertiliser to

- Build soil fertility
- Increase fertiliser efficiency
- Maximise crop yields

Notes: _____
