Into the Ground: Termination and Planting Strategies for Corn and Soy

By Josh Payne

Who am I?

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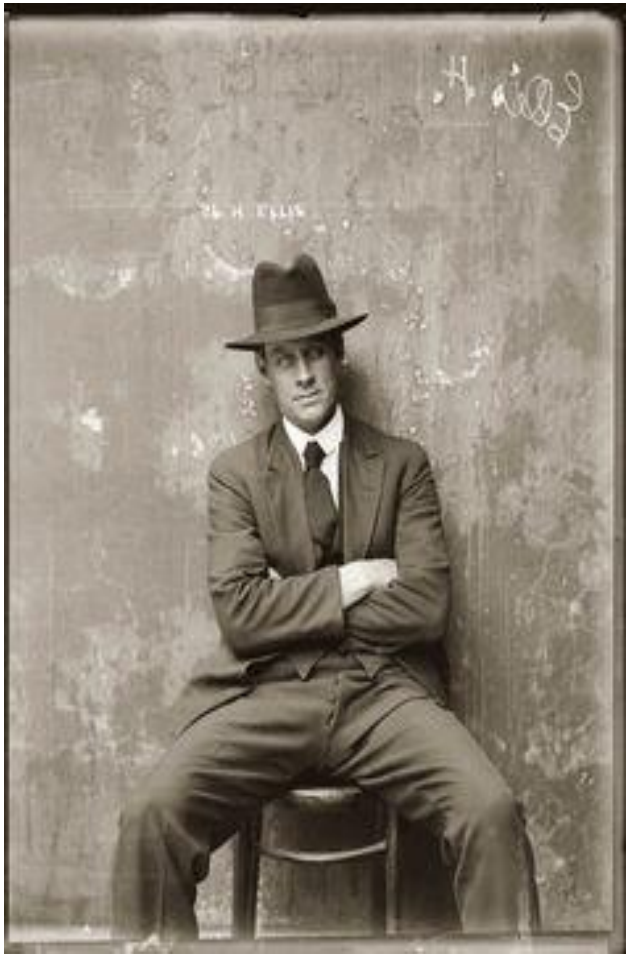
Time to get up..



What we do: Soybeans

Planting: Plant Green

Termination: First Attempt

Current Termination: Roll and Spray

What we do: Corn

Cover: Cocktail

Cocktail in winter

Planting: Corn into Cocktail

The soil won’t dry out…

Answer: Translocation

The Same Day…

You won’t be able to plant into it…

Answer: Zero-Till

It won’t come through the mat…

Answer: Depth and Pop

You will just waste money…

Answer: Replace chemistry with biology

No Residual Soybeans

No Residual Soybeans

Financials

No Till Soybeans

Chemicals	App Included
Fall – Basis	$31.56
Burndown (RU, 24D, Auth Maxx)	$34.50
Post (RU, Warrant)	$22.00
Total	**$81.50**

Plant Green Soybeans

Chemicals	App Included
Burndown (Ru)	$11.50
Post (RU)	$11.50
Total	**$23.00**

Financials

No Till Soybeans

Harvest	
Yield	61.1 bu
Custom Harvest	$35.00
Cash Rent	$150.00
Total Cost	$336.06
Cost of Production	**$5.50**

Plant Green Soybeans

Harvest	App Included
Yield	64.3 bu *
Custom Harvest	$35.00
Cash Rent	$150.00
Total Cost	$288.44
Cost of Production	**$4.48**

Financials

No Till Soybeans

Todays Prices	
Yield	61.1 bu
Soy in Concordia	$9.49
Gross/ acre	$580
Total Cost	$336
Profit/ acre	**$244**

Plant Green Soybeans

Today's Prices	
Yield	64.3 bu *
Soy in Concordia	$9.49
Gross/acre	$610
Total Cost	$288
Profit/acre	**$322**

Fertilizer Savings

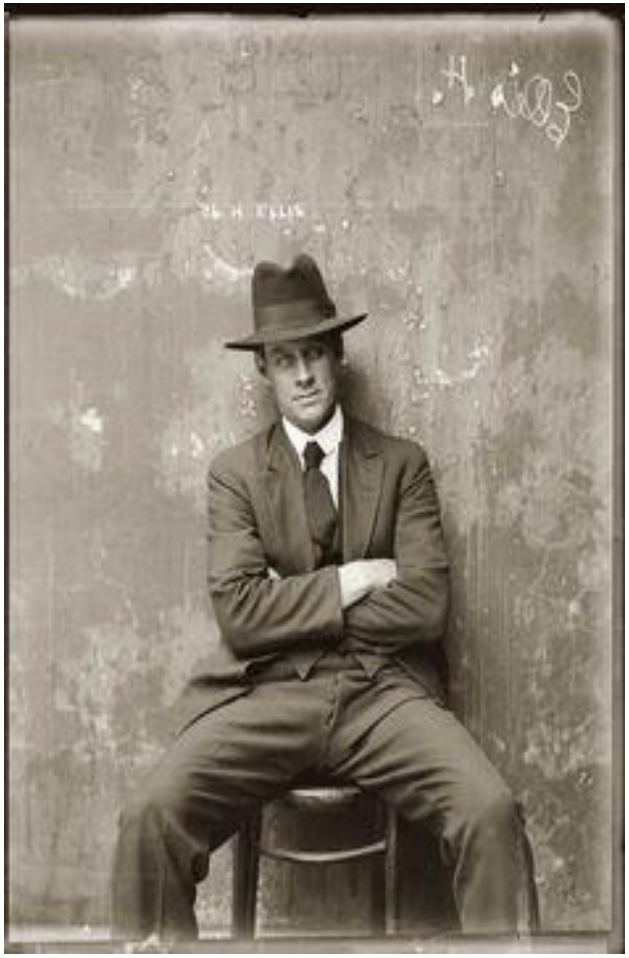
Haney - Soil Health

Nutrient Quantity Available for Next Crop	
Nitrogen, lbs N/A	126.6
Phosphorus, lbs P2O5/A	58.2
Potassium, lbs K2O/A	72.2
Nutrient Value, $/A	139.83

The voles will be fed well…

Answer: Roll post planting

Questions???



The Corn / Soy Rotation Problem

Corn / Soy Rotation

Corn Program	
Nov	Anhydrous
Dec	
Jan	
Feb	
March	Burn Down
April	Plant
May	Spray
June	Top dress
July	Fungicide
August	
Sept	Harvest
Oct	

Soy Program	
Nov	Fall Residual
Dec	
Jan	
Feb	
March	
April	Burndown
May	Plant
June	Spray
July	
August	Fungicide
Sept	
Oct	Harvest

Add Cereal Rye

Corn Program	
Nov	Anhydrous
Dec	
Jan	
Feb	
March	Burn Down
April	Plant
May	Spray
June	Top dress
July	Fungicide
August	
Sept	Harvest – Drill Rye
Oct	

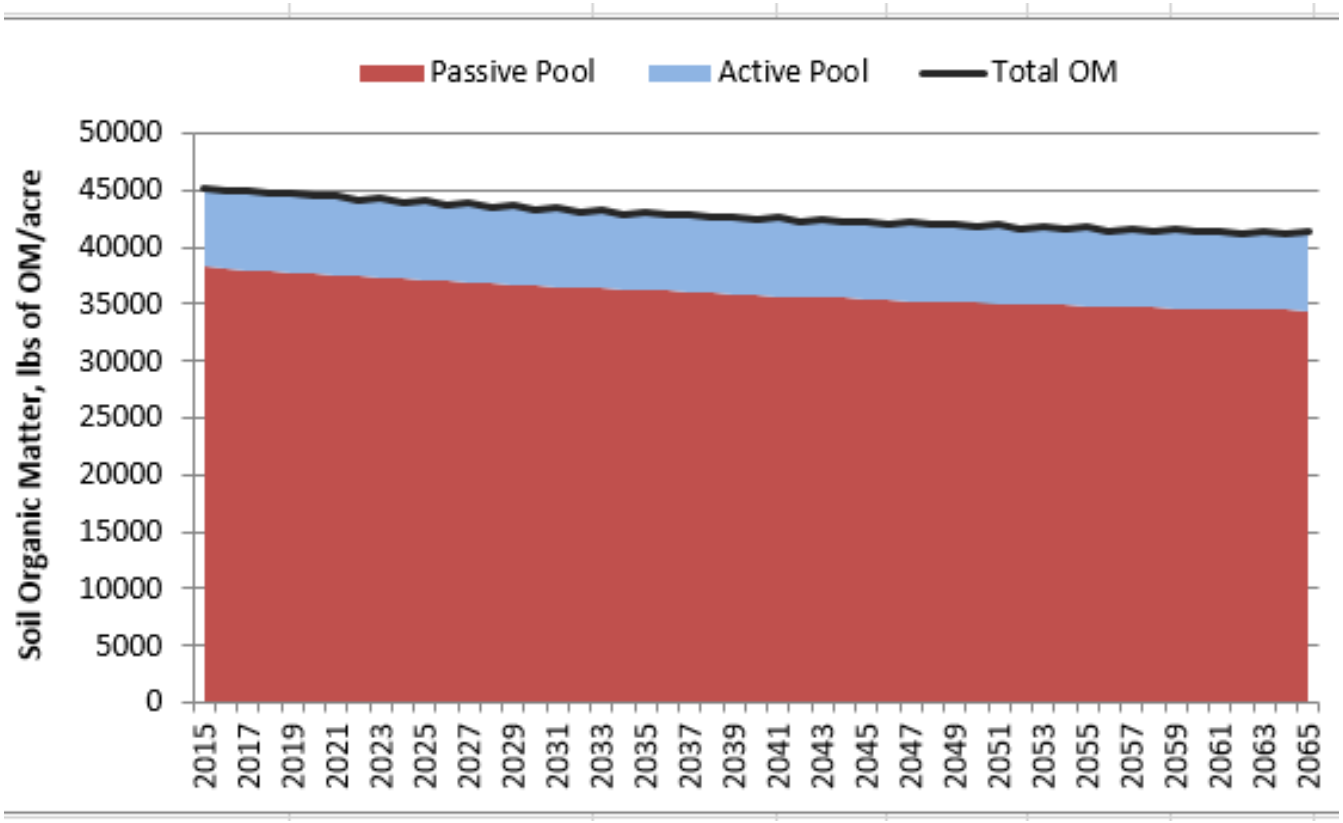
Soy Program	
Nov	
Dec	
Jan	
Feb	
March	
April	
May	Plant / Burndown
June	Spray (no residual)
July	
August	
Sept	
Oct	Harvest

So, What's the Problem?

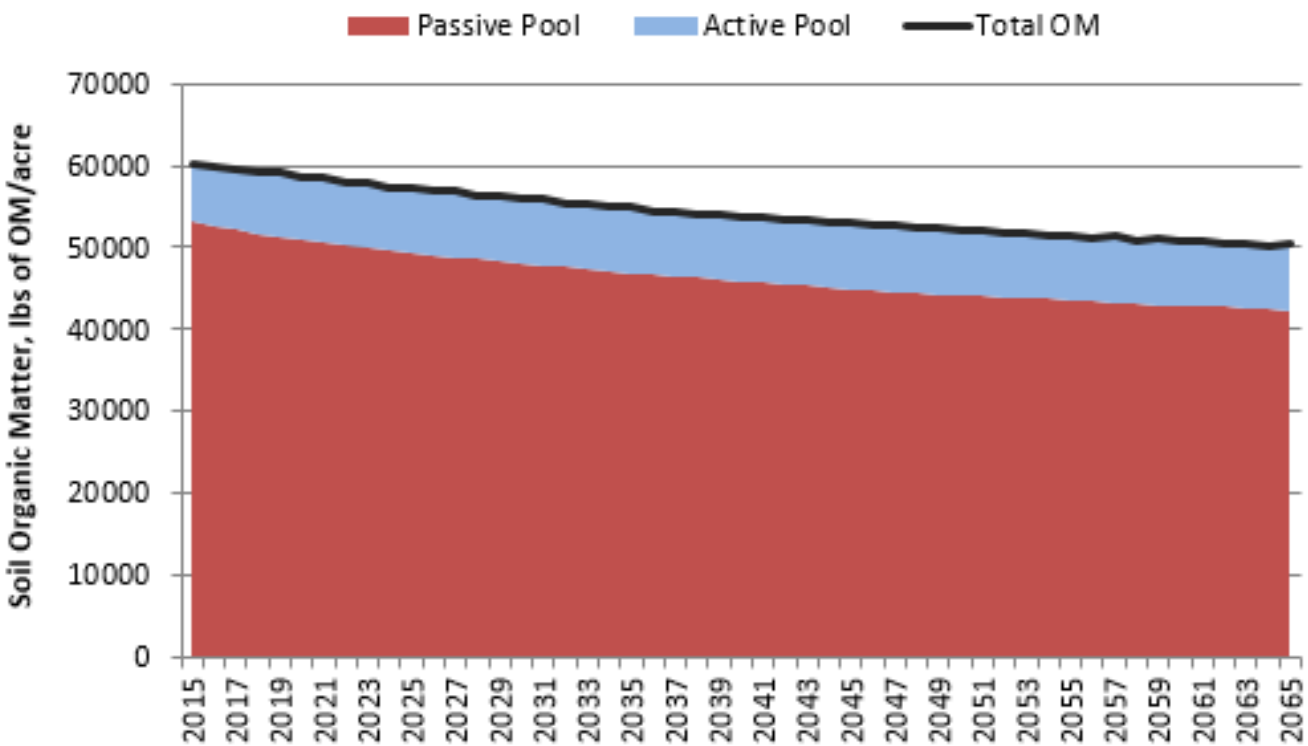
The Problem is C:N Ratio?

Activity	C:N Ratio
Highly active microorganisms	10:1
Soybean stubble	12:1
Ideal C:N for building OM	24:1
Corn stover	57:1
Wheat straw	80:1

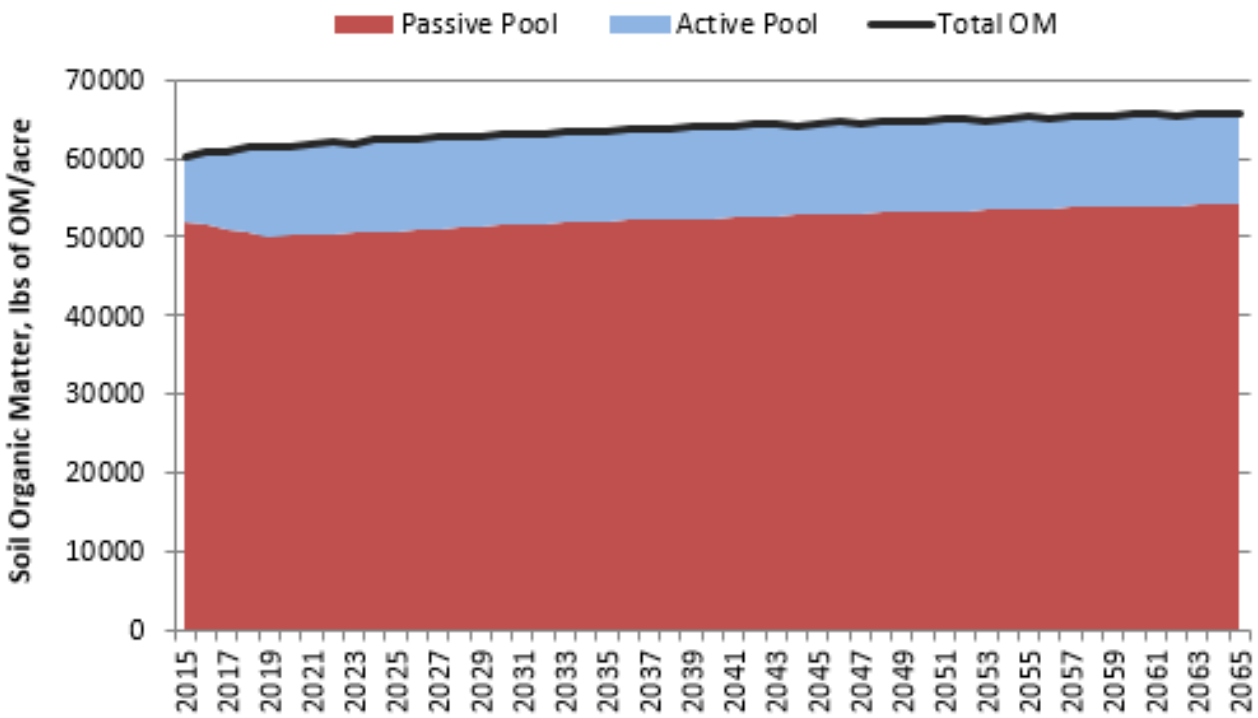
Corn / Soy – till OM trend line



Corn / Soy – No Till OM Trend



No Till, Corn Soy Wheat



Species Problem: What can you plant after soybeans?

Common Cover Crops	Plant by Date (NRCS MO)
Radishes	Sept 25
Turnips	
Crimson clover	
Vetch	
Oats	
Annual rye	Nov 1
Wheat / triticale	
Cereal rye	Dec 1

Solution: Wheat

But will it pay?????

Corn / Soy / Wheat Rotation

Corn Program	
Nov	
Dec	
Jan	
Feb	
March	
April	Plant
May	Spray
June	Top dress
July	Fungicide
August	
Sept	Harvest / Rye
Oct	

Soy Program	
Nov	
Dec	
Jan	
Feb	
March	
April	
May	Plant / Bdown
June	Spray (no res)
July	
August	
Sept	
Oct	Harvest - Wheat

Soy Program	
Nov	
Dec	
Jan	
Feb	
March	N – Green up
April	N - Flagleaf
May	Fungicide
June	Harvest
July	Big Cover
August	
Sept	
Oct	

But Does It Pay?

Corn / Soy	App included
Corn Income ($592-$475)	$117
Soy Income ($580-$336)	$244
Average	$180

Corn/Soy/Wheat	
Corn Income ($592-$475)	$117
Soy Income ($610-$288)	$322
Wheat Income ($412-$360)	$52
Average	$163

Not figured in…

Corn / Soy	
Corn Income	$117
Soy Income	$244
Average	$180

Corn/Soy/Wheat	
Corn Income	$117
Soy Income	$322
Wheat Income	$52
NRCS (rye)	$30
NRCS (multi)	$40
Grazing rent	$30
Average	$197