

Regenerative Ag Problem Solving Strategies



PROBLEM SOLVING STRATEGIES

Step 1

Think

- How can I?
- What can I?

Step 2

Plan

- What steps do I take?
- What do I stop or start doing?

Step 3

Solve

- Get to work!
- Implement your findings to make a change.

Step 4

Check

- Did I come to the right conclusion?
- Does my answer solve the problem?



A PROBLEM-SOLVING MINDSET

Conventional Ag

- The way we've always done it...
- “It is what it is....”
- Focus on yields, and inputs increase

Regenerative Ag

- How can we add life?
- How can we more closely align with God's design in nature?
- Focus on biology and yields increase

“Herd Quitter – Someone who has enough courage to break away from the status quo, herd mentality way of thinking.” – Kit Pharo



PROBLEM: ECONOMICS

CONVENTIONAL AG SOLUTION

- RENT MORE FARMGROUND
- BUY BIGGER AND FASTER EQUIPMENT



REGENERATIVE AG SOLUTION

- REDUCE FIELD PASSES
- DOUBLE CROP
- REDUCE OVERHEAD



PROBLEM: SOIL COMPACTION

CONVENTIONAL AG SOLUTION

- TILL DEEPER AND MORE OFTEN TO ELIMINATE COMPACTION



REGENERATIVE AG SOLUTION

- NO-TILL, KEEP LIVING ROOTS IN THE SOIL, AND CONTROL TRAFFIC ON SOIL



PROBLEM: SOIL SURFACE CRUSTING

CONVENTIONAL AG SOLUTION

- USE MECHANICAL TOOLS TO BREAK CRUST
- HOPE FOR NO RAIN UNTIL AFTER EMERGENCE



REGENERATIVE AG SOLUTION

- NO-TILL AND COVER CROPS
- PROVIDE ARMOR TO COVER THE SOIL SURFACE



PROBLEM: CLODS

CONVENTIONAL AG SOLUTION

- TILL MORE TIMES OR WITH ROTOTILLERS
- ULTIMATELY GIVE UP AND LIVE WITH ROUGH FIELDS



REGENERATIVE AG SOLUTION

- NO-TILL
- KEEP LIVING ROOTS IN THE SOIL



PROBLEM: RUTS

CONVENTIONAL AG SOLUTION

- SHOVEL OUT RUTS
- DEAL WITH DRY SPOTS, FLOODED SPOTS, AND ROUGH FIELDS



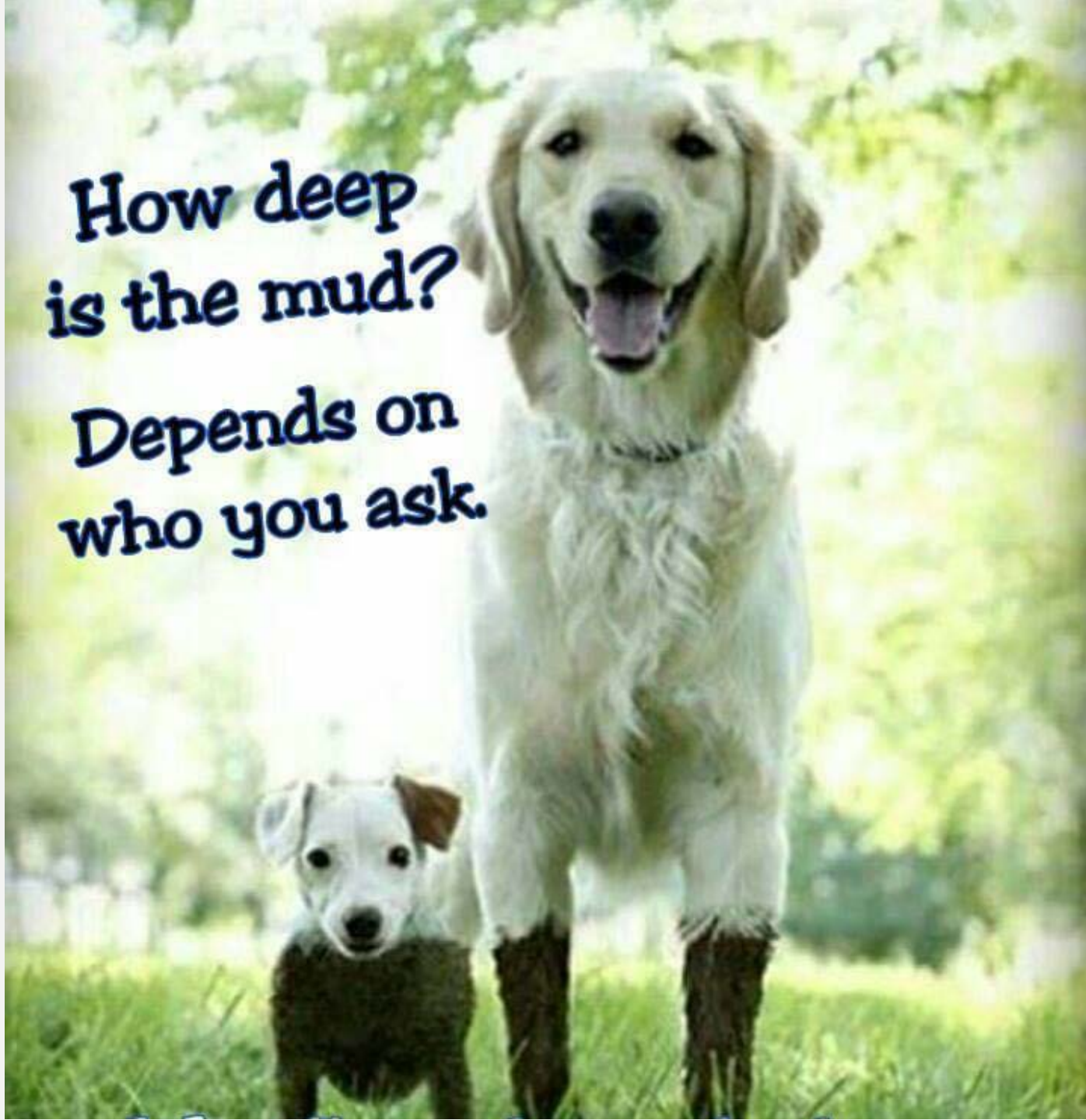
REGENERATIVE AG SOLUTION

- NO-TILL
- KEEP LIVING ROOTS IN THE SOIL



**How deep
is the mud?**

**Depends on
who you ask.**



PROBLEM: POOR WATER INFILTRATION

CONVENTIONAL AG SOLUTION

- LONGER WATERING SETS, SOIL PAM
- GIVE UP AND LIVE WITH POOR STANDS



REGENERATIVE AG SOLUTION

- NO-TILL
- KEEP LIVING ROOTS IN THE SOIL



PROBLEM: SOIL EROSION

CONVENTIONAL AG SOLUTION

- DIG SILT OUT OF DITCHES
- USE SOIL PAM AND SOCKS
- LAND PLANE



REGENERATIVE AG SOLUTION

- NO-TILL, AND KEEP LIVING ROOTS IN THE SOIL
- KEEP SOIL ARMORED WITH COVER CROPS



PROBLEM: HIGH SALTS

CONVENTIONAL AG SOLUTION

- WATER MORE
- PLANT HIGHER POPULATIONS
- FERTILIZE MORE



REGENERATIVE AG SOLUTION

- NO-TILL AND KEEP LIVING ROOTS IN THE SOIL
- PLANT SALT TOLERANT COVER CROPS



PROBLEM: LACK OF NUTRIENTS

CONVENTIONAL AG SOLUTION

- FERTILIZE HEAVIER
- DEEP RIP TO ALLOW ROOTS TO ACCESS NUTRIENTS



REGENERATIVE AG SOLUTION

- NO-TILL AND KEEP LIVING ROOTS IN THE SOIL
- GROW/GRAZE DIVERSE COVER CROPS TO INCREASE BIOLOGY



PROBLEM: WEED PRESSURE

CONVENTIONAL AG SOLUTION

- TILL MORE OFTEN
- SPRAY MORE OFTEN



REGENERATIVE AG SOLUTION

- NO-TILL AND KEEP LIVING ROOTS IN THE SOIL
- USE COVER CROPS TO INCREASE FUNGAL TO BACTERIA RATIO



PROBLEM: PESTS

CONVENTIONAL AG SOLUTION

- TILL TO DESTROY HABITAT
- SPRAY MORE PESTICIDES



REGENERATIVE AG SOLUTION

- NO-TILL, AND KEEP LIVING ROOTS IN THE SOIL
- USE COVER CROPS TO PROMOTE BENEFICIALS, AND PLANT HEALTH



PROBLEM: VERY FEW POLLINATORS

CONVENTIONAL AG SOLUTION

- “IT IS WHAT IT IS...”



REGENERATIVE AG SOLUTION

- NO-TILL, KEEP LIVING ROOTS IN THE SOIL
- PLANT DIVERSE COVER CROPS WITH FLOWERING SPECIES



PROBLEM: AIR POLLUTION

CONVENTIONAL AG SOLUTIONS

- RESIST RESTRICTIONS
- CONTINUE TO BURN OFF “TRASH”



REGENERATIVE AG SOLUTION

- NO-TILL, KEEP LIVING ROOTS IN THE SOIL
- USE COVER CROPS TO CAPTURE CARBON AND GET PAID FOR IT



PROBLEM: LACK OF GRAZING

CONVENTIONAL AG SOLUTION

- BUY MORE HAY
- FARM MORE LAND AND GROW MORE HAY



REGENERATIVE AG SOLUTION

- NO-TILL, KEEP LIVING ROOTS IN THE SOIL
- GROW COVER CROPS, GRAZE YEAR-ROUND, AND STILL SELL HAY



PROBLEM: FUTURE OF AGRICULTURE

CONVENTIONAL AG SOLUTION

- BEMOAN AND COMPLAIN
- GET A JOB IN TOWN

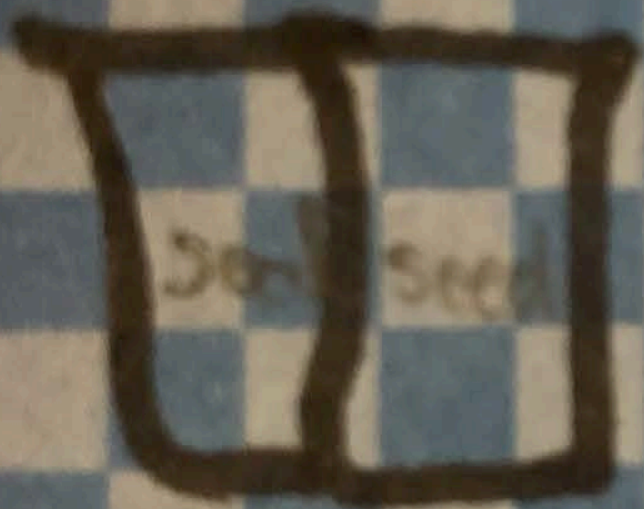


REGENERATIVE AG SOLUTION

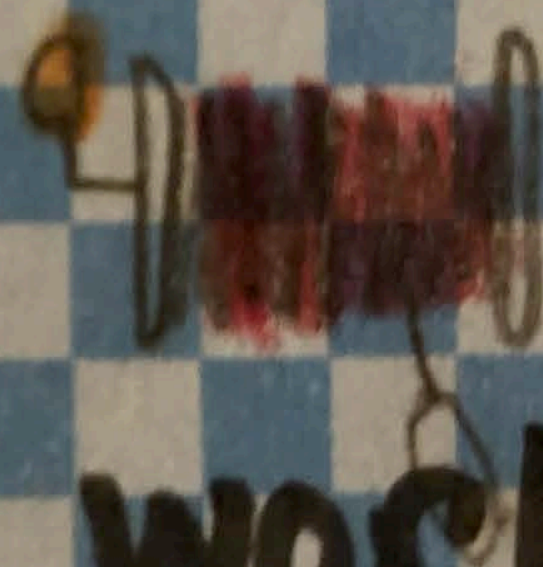
- BUY FARMLAND
- STACK ENTERPRISES AND DIVERSIFY



American Farmer



Fence



Feeds the world