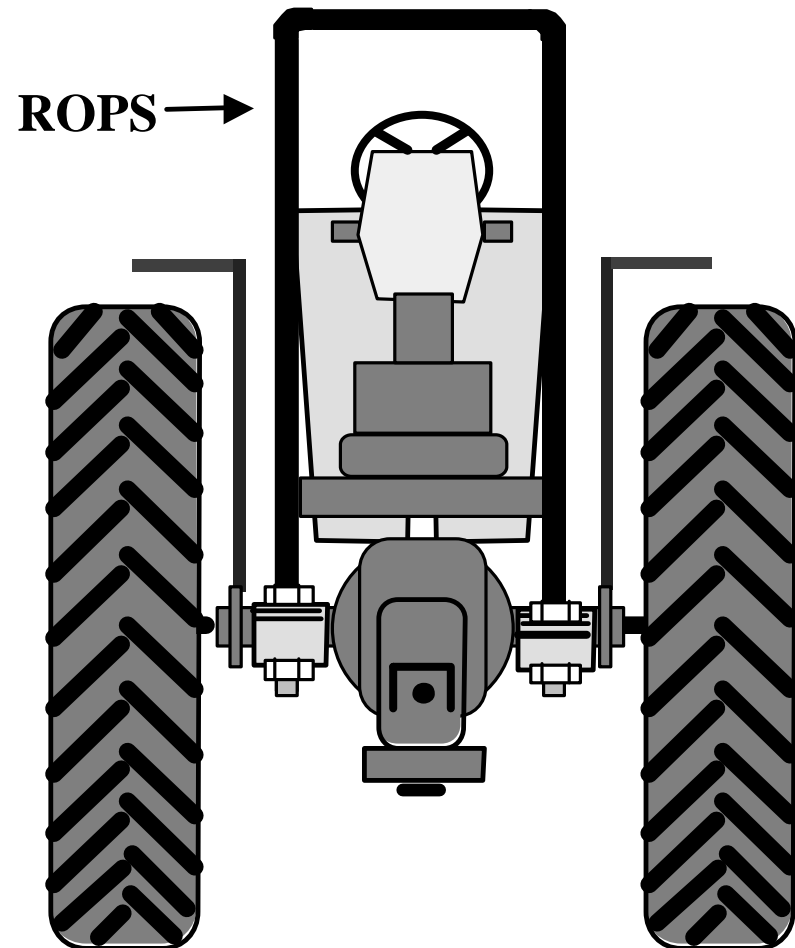


# *What's a ROPS?*

---

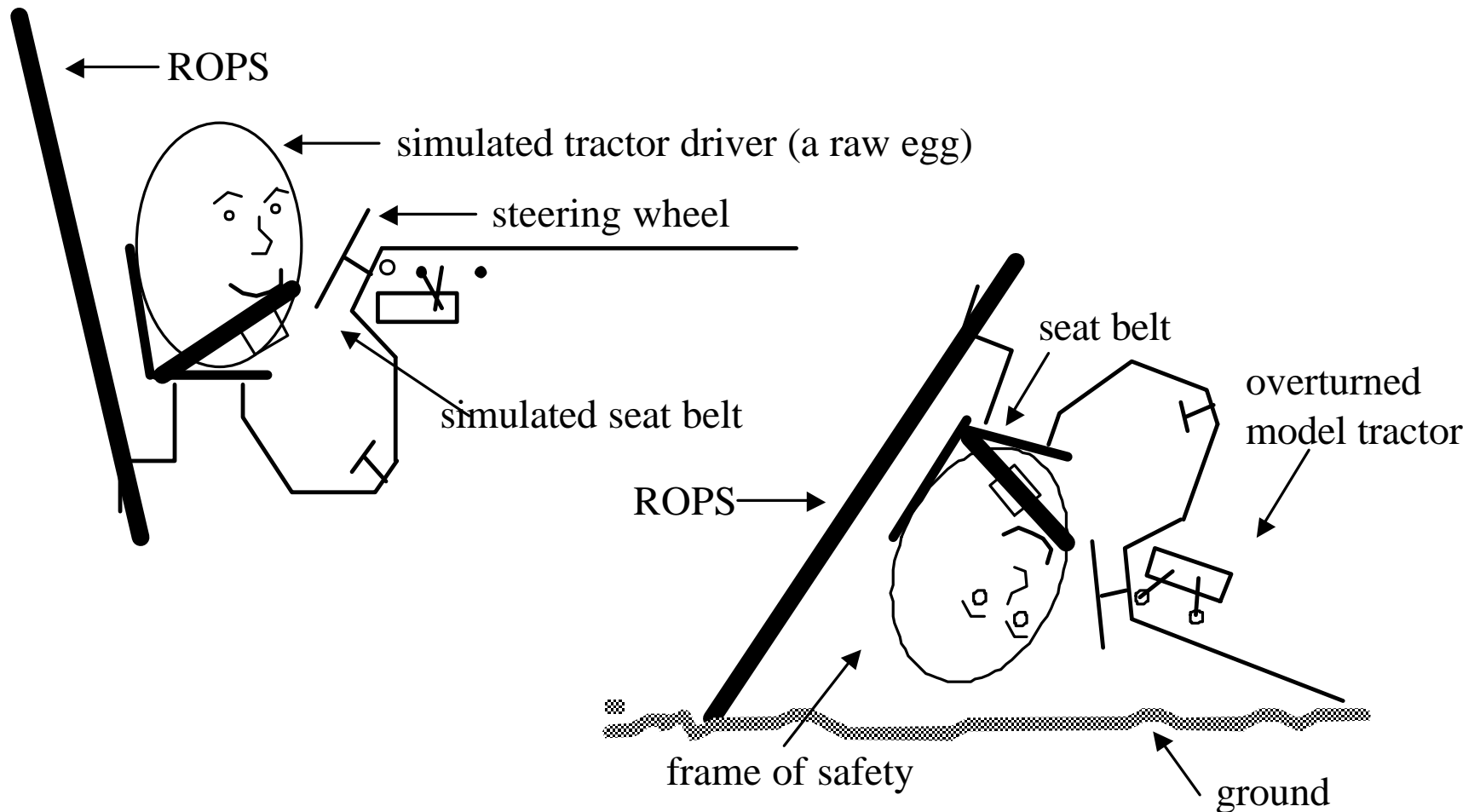
*ROPS - Rollover  
Protective Structure*

*During an overturn  
a ROPS and seat belt  
hold the operator in  
a "frame of safety."*



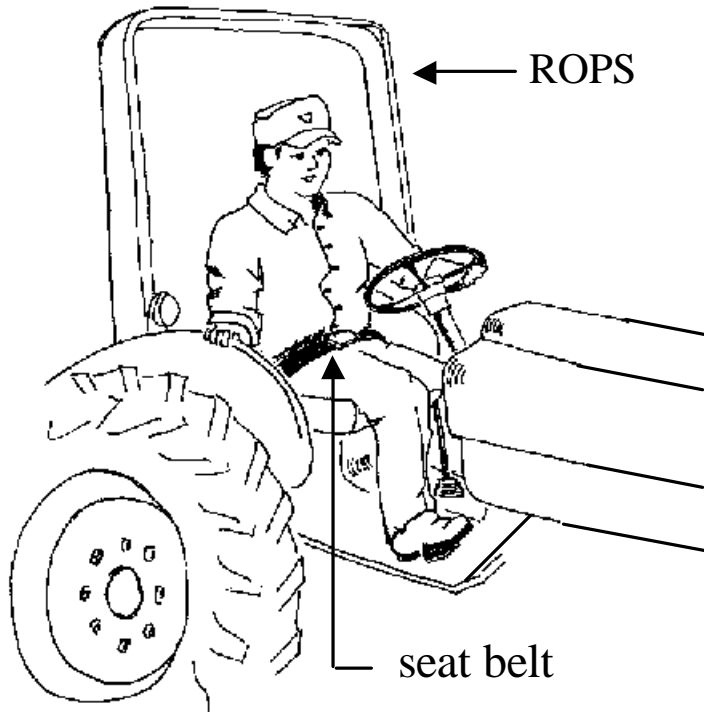
# Demonstrating how a ROPS works

---

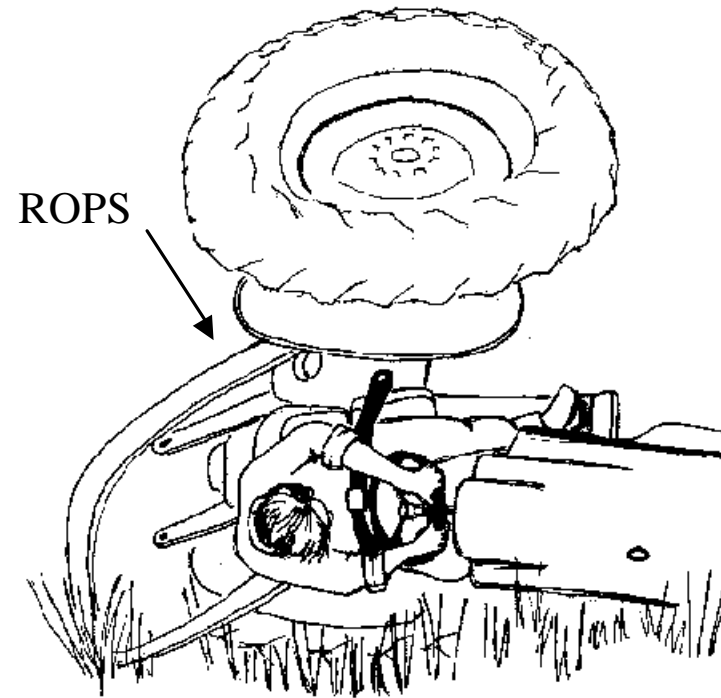


# *How a ROPS and seat belt work*

---



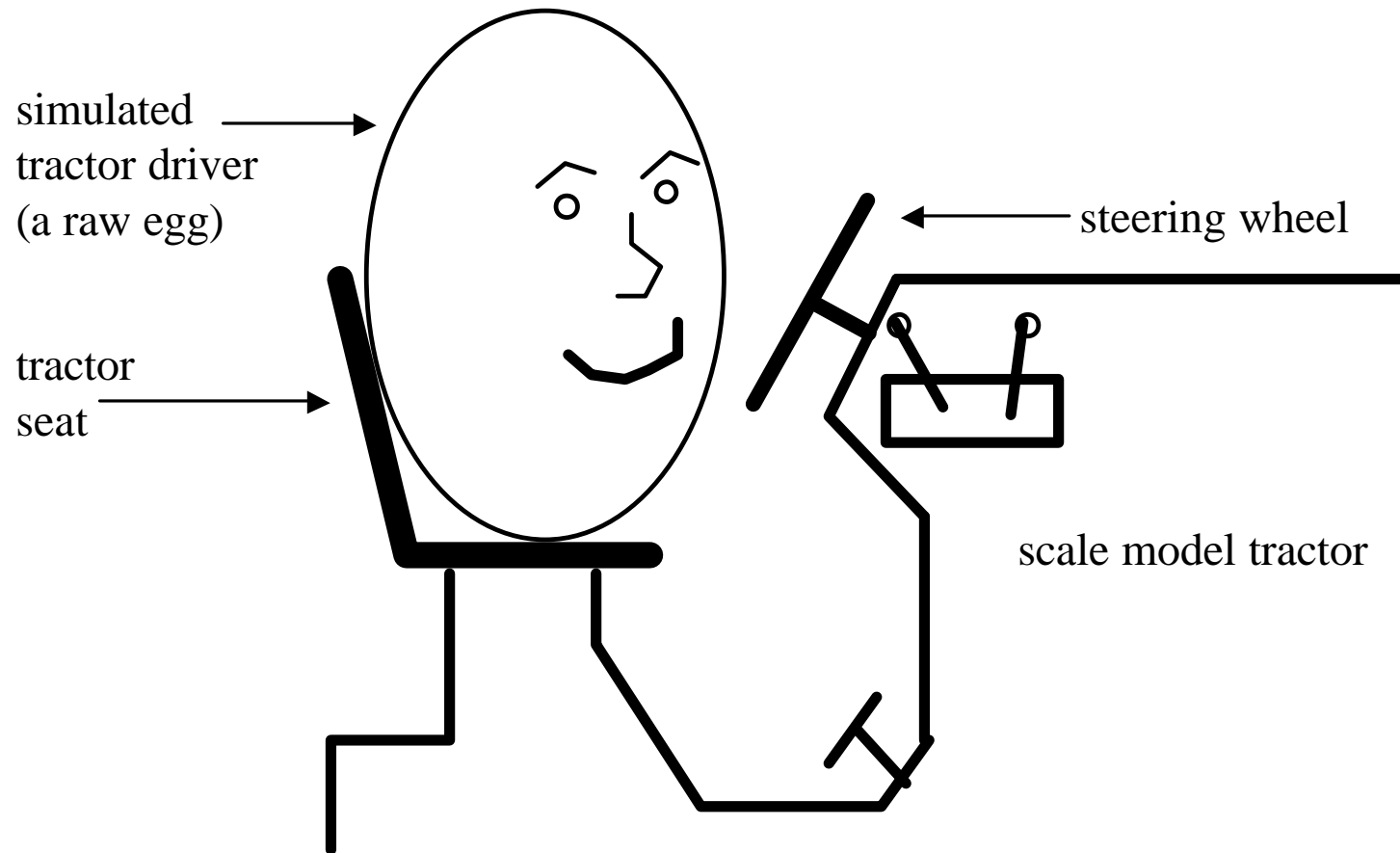
A fastened seat belt holds the operator on the tractor seat.



During an overturn the operator stays within the ROPS “frame of safety.”

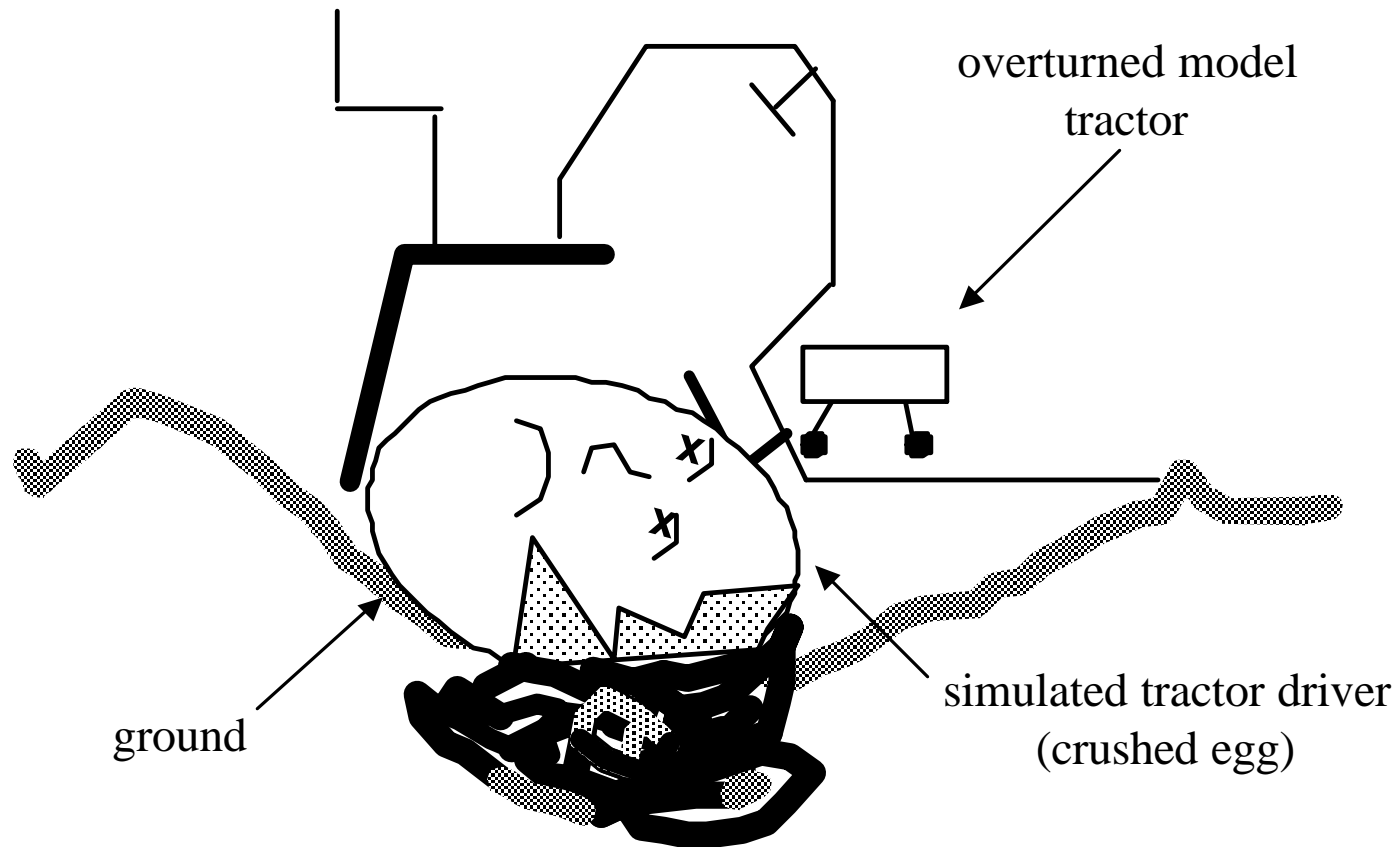
# *Living dangerously* (no ROPS, no seat belt)

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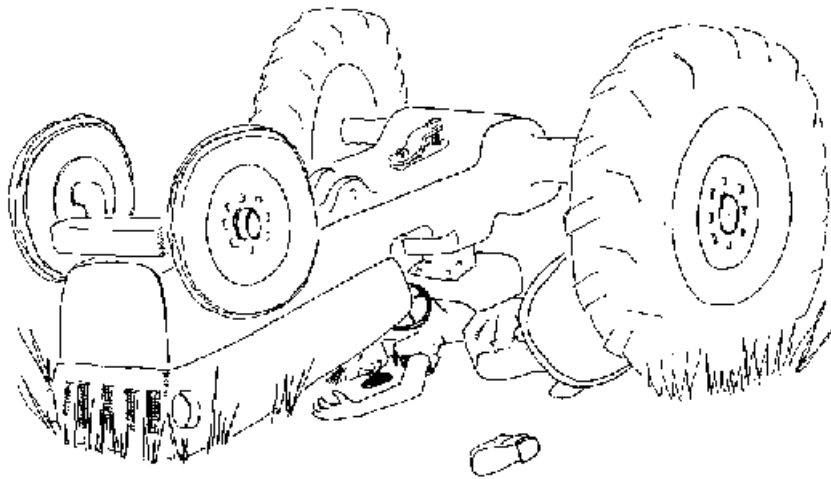
# *An overturn without a ROPS*

---

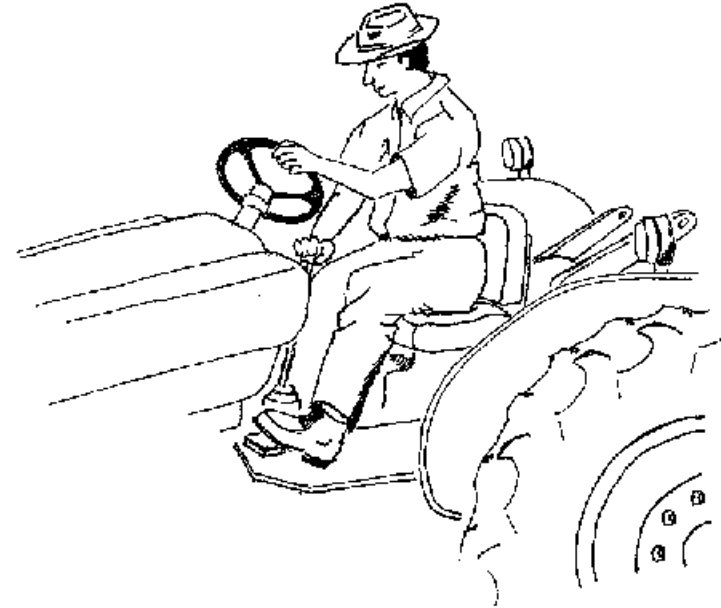


# *Overturns without ROPS are deadly*

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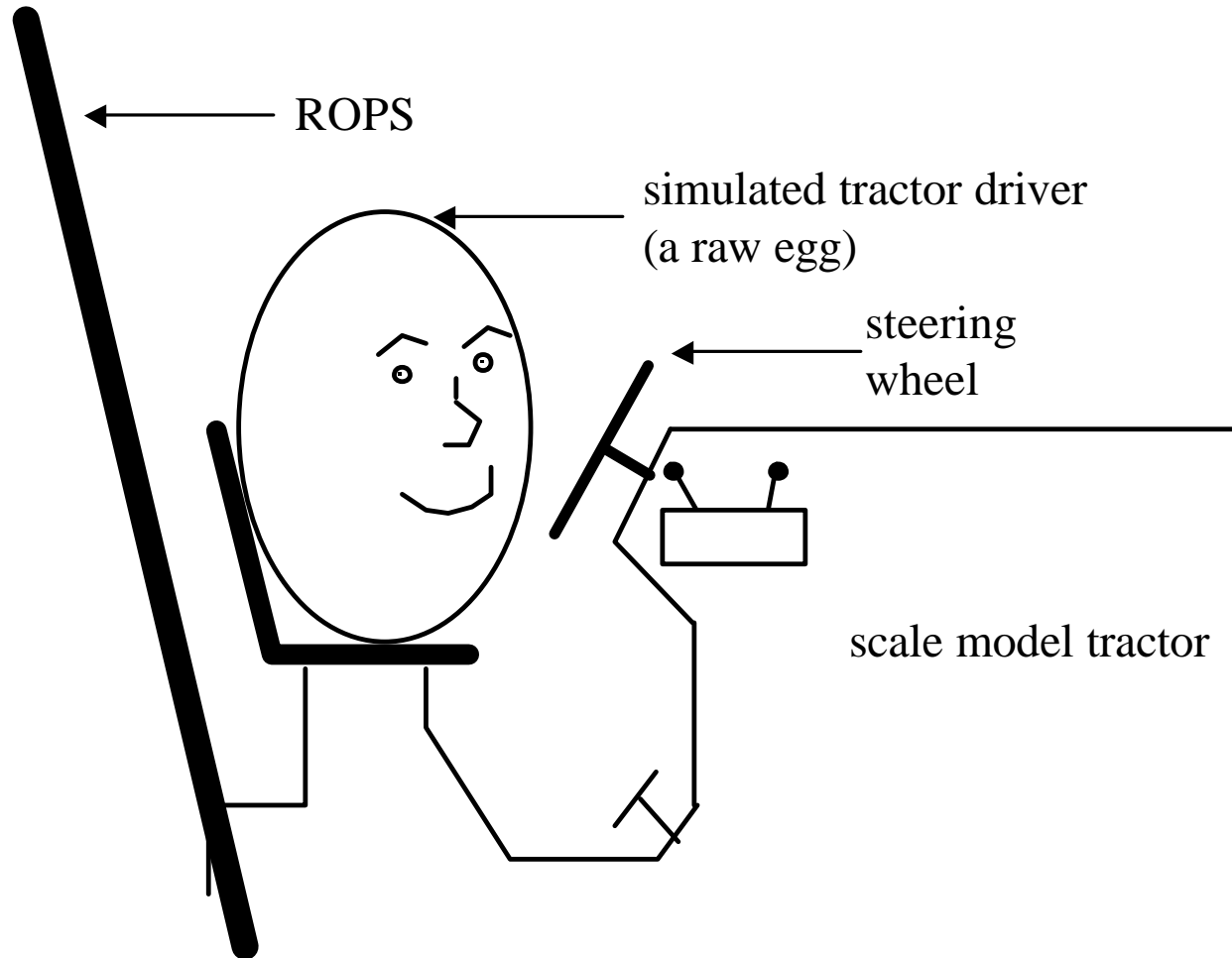
During a recent six-year period, 76 Kentucky farmers died when their tractors overturned. ROPS and seat belts could have saved all 76.



Without a ROPS and seat belt the operator is unprotected during an overturn.

# *Partially protected (ROPS but no seat belt)*

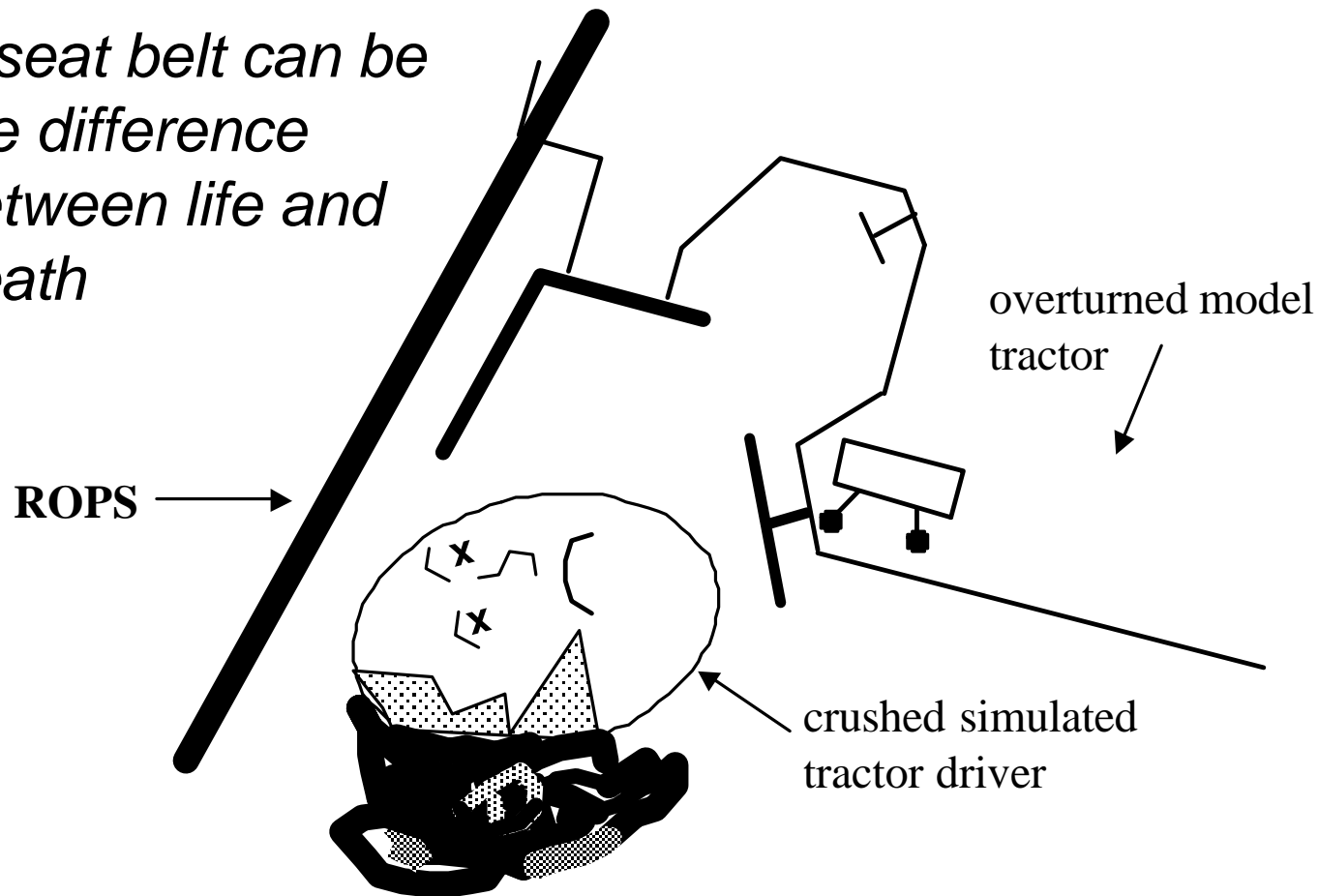
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# *Why fasten the seat belt?*

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*A seat belt can be  
the difference  
between life and  
death*

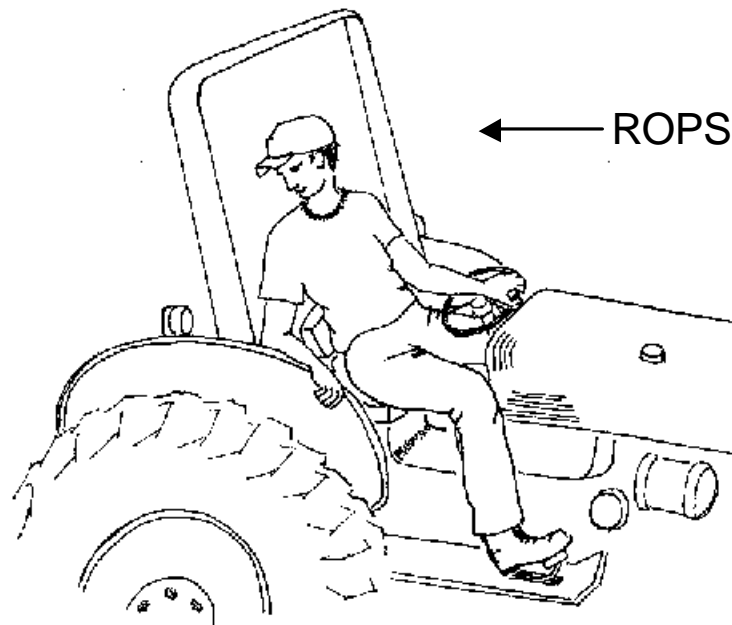




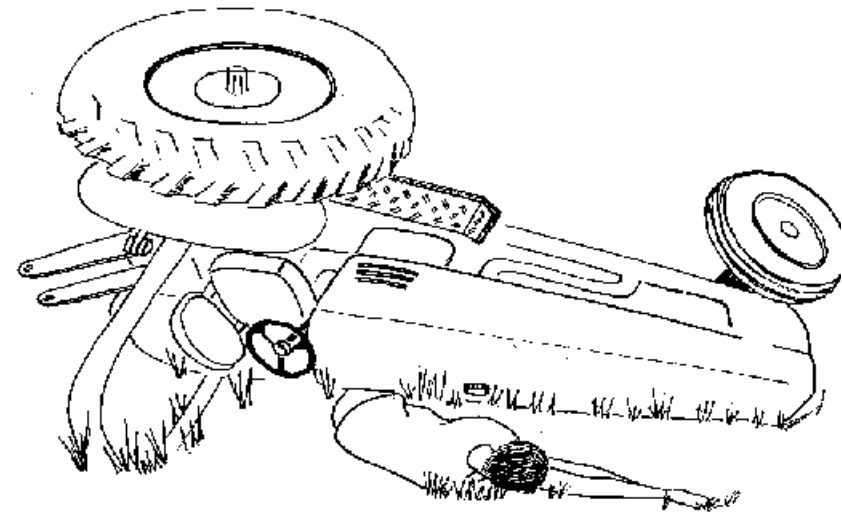
# *Effectiveness of ROPS & seat belts*

---

Together ROPS and fastened seat belts are 98% effective in preventing injury and death during tractor overturns.



A ROPS alone greatly reduces the risk of being killed during an overturn compared to a tractor without a ROPS. Add a fastened seat belt and the operator is usually not injured in an overturn.



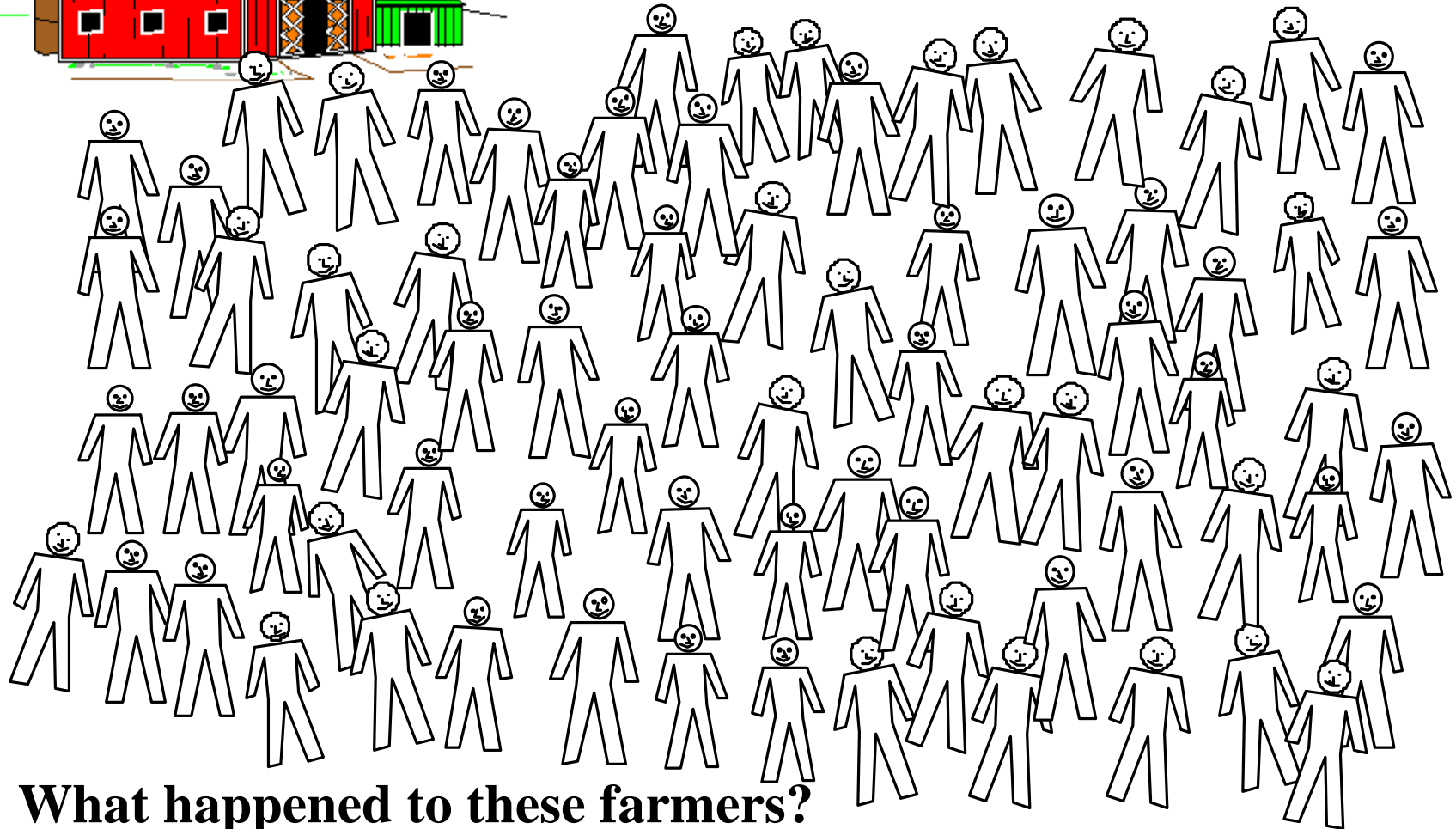
In this case, the ROPS saved his life. A buckled seat belt would have saved his legs, prevented huge medical bills, and a permanent disability.



# *A tough quiz!*

## How many people are in this picture?

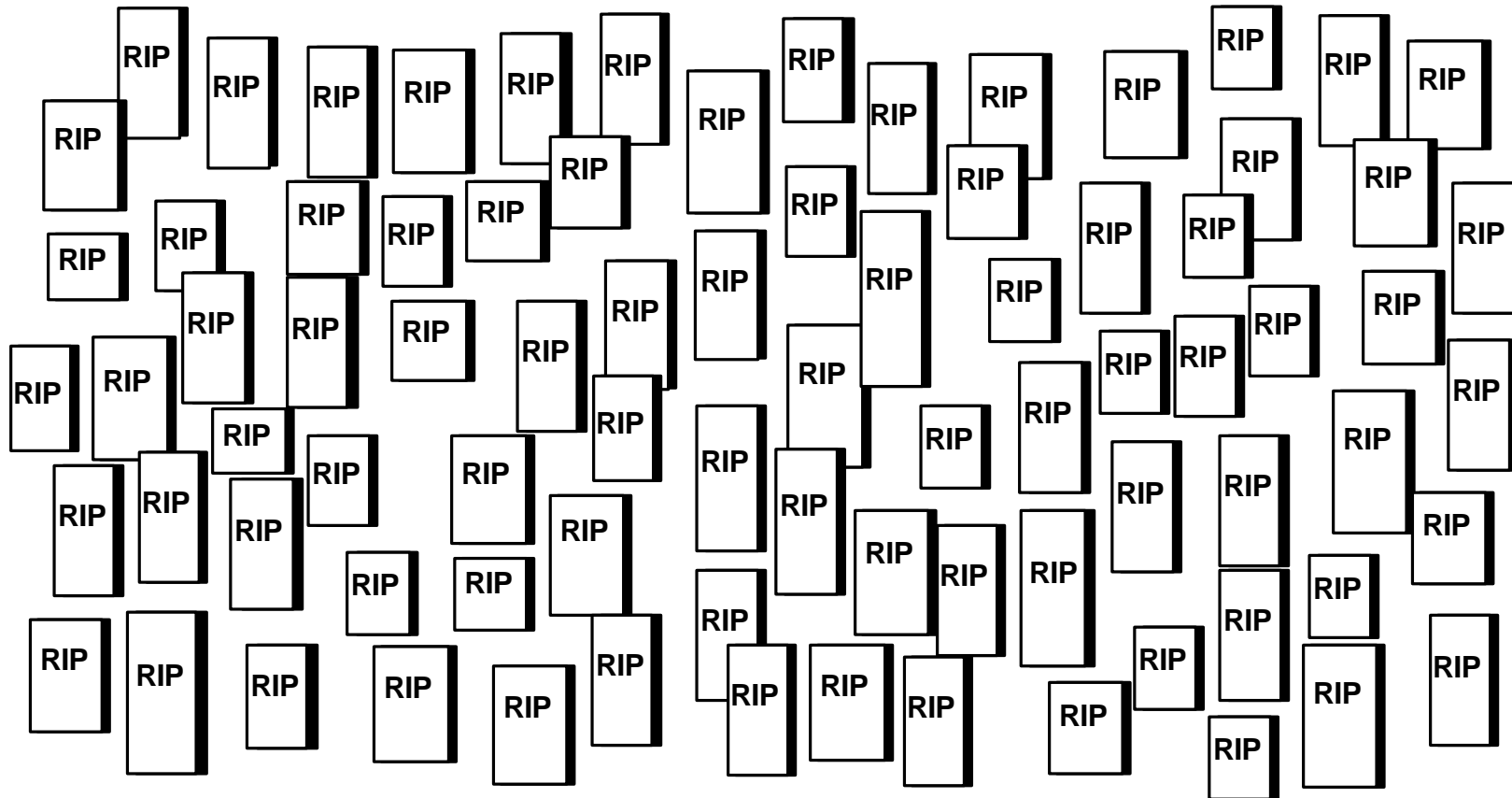
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### What happened to these farmers?

**These 76 Kentucky farmers died in tractor overturns in 1994-99.**

**Another 32 farmers died when they fell off moving tractors.**



**How many would have survived with a ROPS and seat belt?**

**All 108. Don't become a grim statistic. Get a ROPS and buckle up!**

## *ROPS & seat belts could have saved 108 lives\**

---

⇒ <i>Tractor overturns</i>	<i>76</i>
⇒ <i>Thrown from tractor and run over</i>	<i>25</i>
⇒ <i>Thrown from tractor but <u>not</u> run over</i>	<i>7</i>
⇒ <i>Highway motor vehicle &amp; tractor collisions**</i>	<i>2</i>
⇒ <i>Total deaths</i>	<i>110</i>
⇒ <i>Potential lives saved by ROPS &amp; seat belts</i>	<b><i>108</i></b>

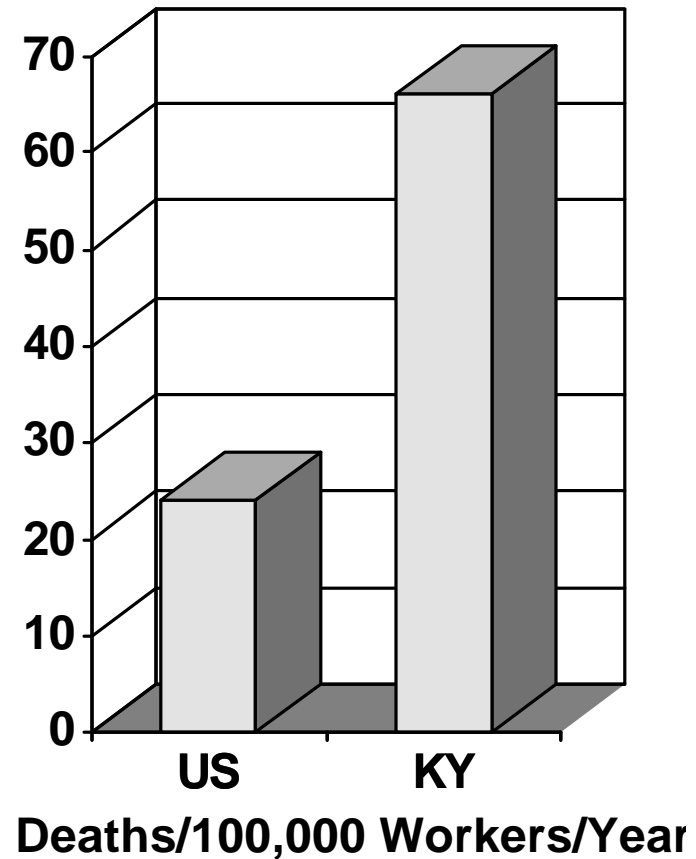
\*KY Fatality Assessment and Control Evaluation (FACE) data 1994-99.

\*\* These two collisions involved large vehicles traveling at high speed. ROPS and seat belts might not have prevented these two deaths.

# *Kentucky farmers at risk-1996*

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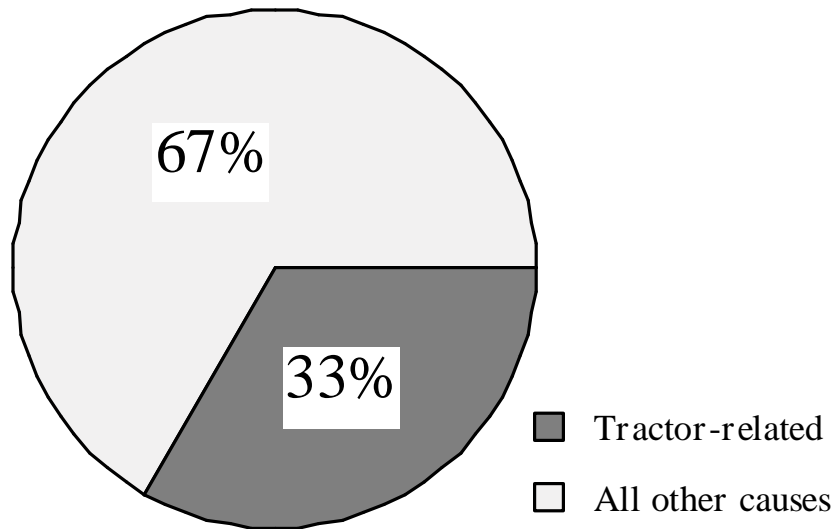
- *In 1996, the KY fatality rate in Ag/Forestry/Fishing was **2.8 times** the national rate.*
- *In KY, nearly all of these deaths were farming related.*



# *Tractor-related farm deaths*

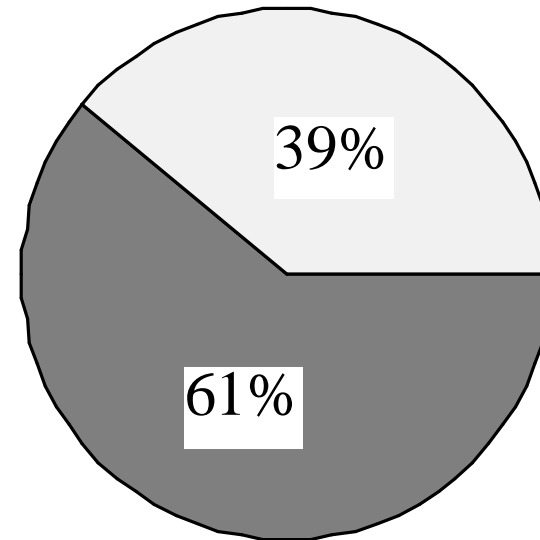
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Average for US  
Farming States



National Safety Council  
1998 data for the US

Kentucky 1994-98



UK Kentucky Fatality Assessment  
and Control Evaluation data

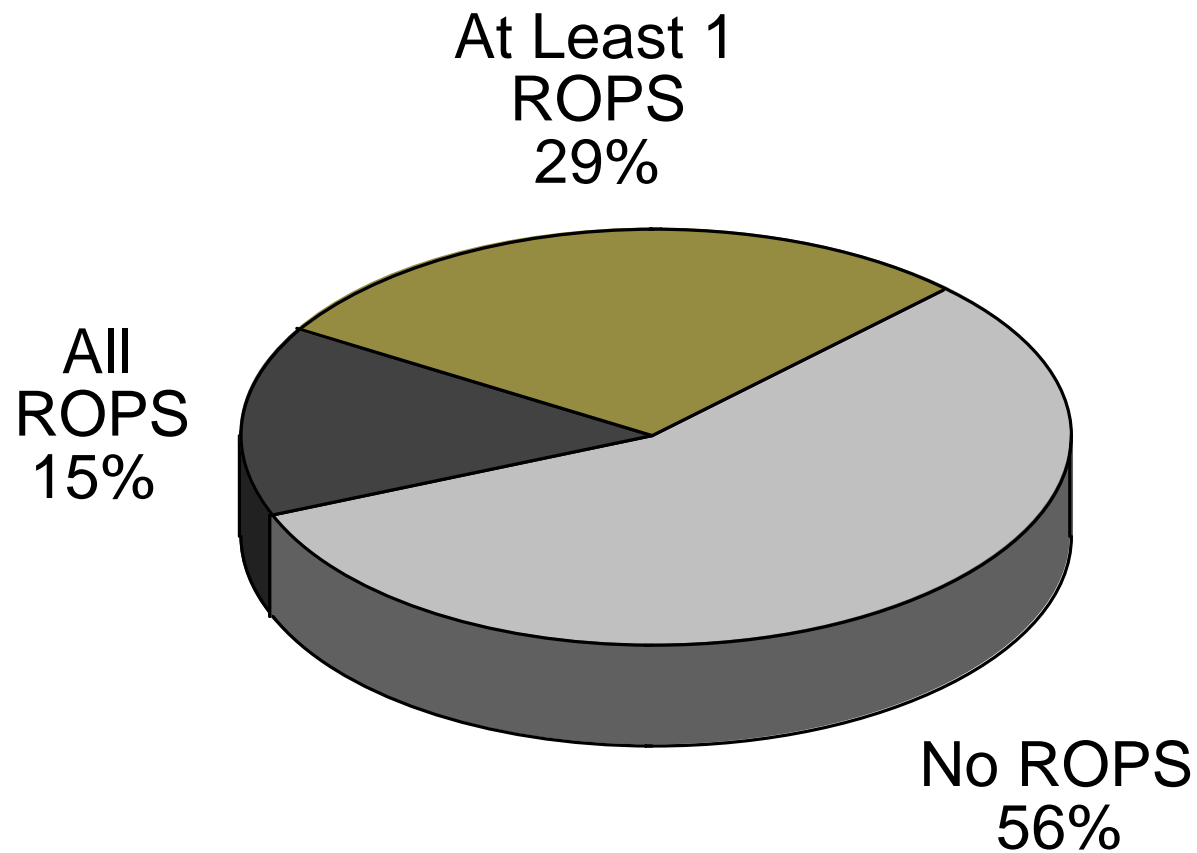
# *Lifetime chance of an overturn*

---

- *1 in 9 Kentucky farmers age 55 or older have overturned a tractor and lived*
- *1/3 of these survivors have had two or more overturns*
- *many of these persons were injured*
  - *some received minor injuries*
  - *some received severe injuries*
  - *some were permanently disabled*

# *Use of ROPS on Kentucky farms*

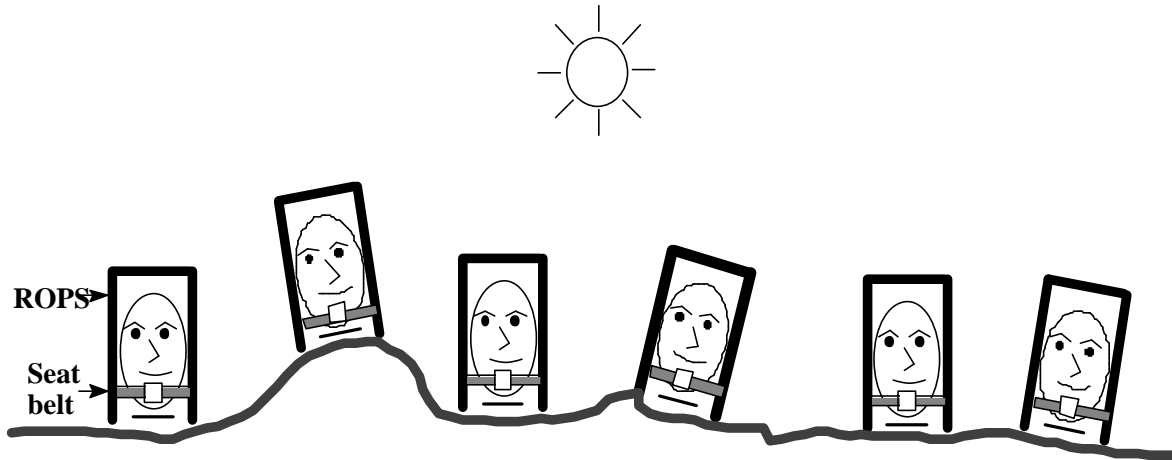
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# *Of 100 Kentucky farmers who drive tractors*

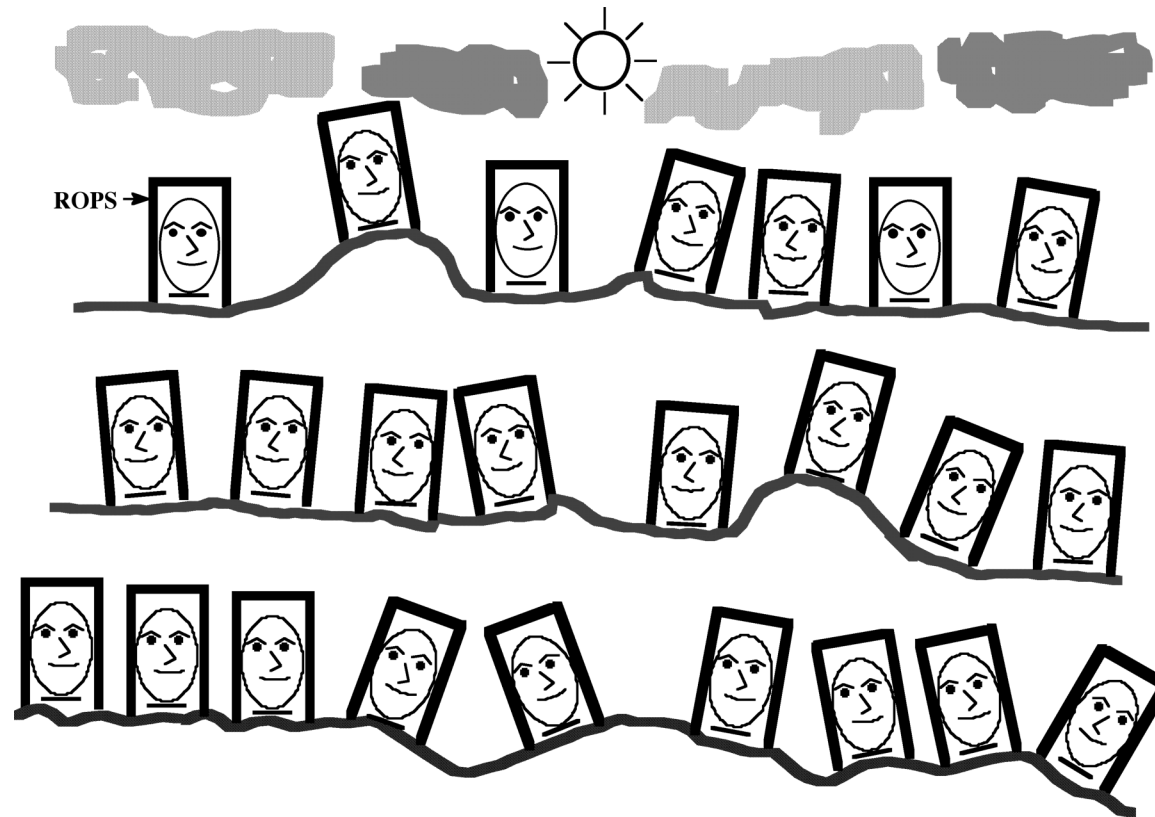
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*only 6 are fully protected by ROPS and seat belts*

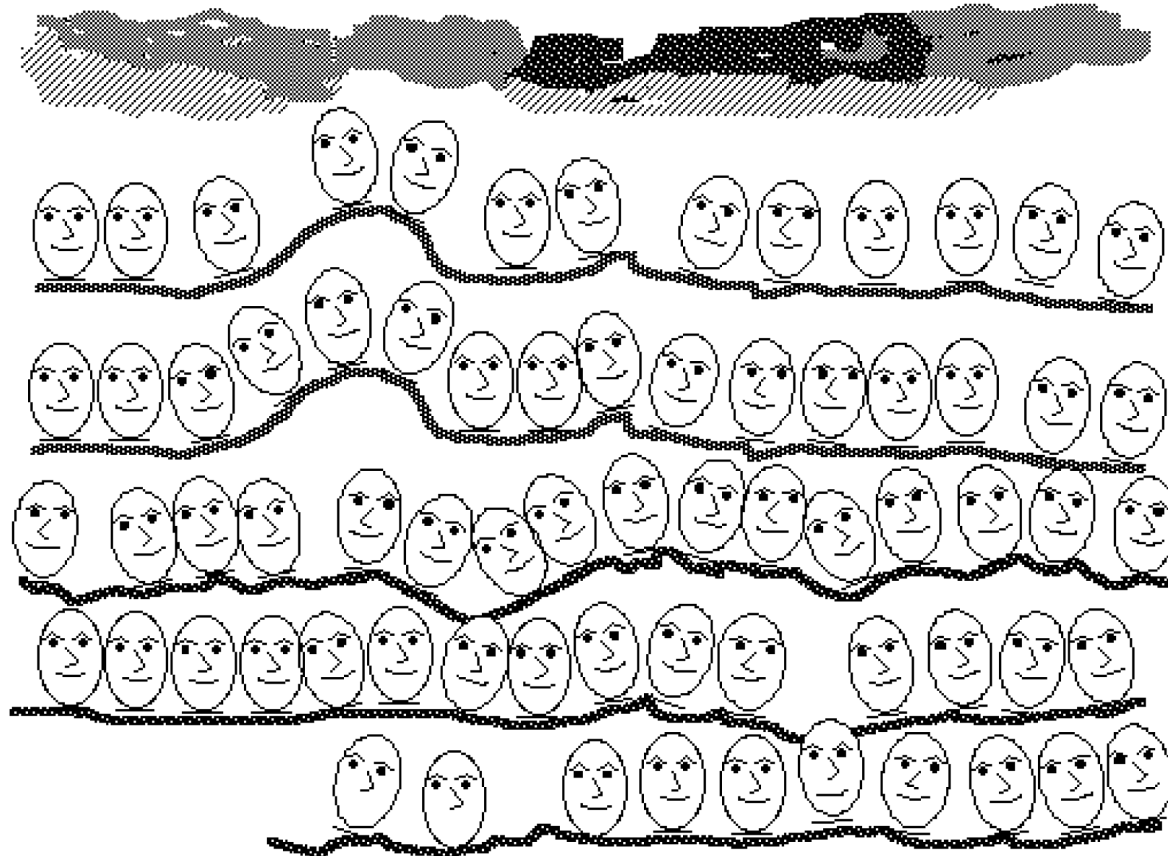
*another 24 farmers who drive tractors with ROPS  
don't wear their seat belts*

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*another 70 farmers are unprotected because they drive tractors without ROPS and seat belts*

---



*Risky business!*