

MISSION 2 · GRADES 6-8

Does 30% Really Mean 30%?

Check a real forecast against 15 winters of real school mornings.

WARM-UP

Snow Day Radar says 30%. Will there be school?

Is the forecast wrong if school closes?



Free from Snow Day Radar

HOW TO READ THE ODDS

Every step has a meaning

Next school day: 20 to 80%. Two days out: 20, 40 or 60%. Three days out: 10, 30 or 50%, or under 5%. Never 100%.

Every number comes with its Why: snow by 7 AM, ice, wind chill at bus time.

80%	*Strong chance*
70%	*Good chance*
60%	*Better than even*
50%	*Coin flip*
40%	*Real chance*
30%	*Small chance*
20%	*Long shot*

GAME TIME

Call It!

22 real Kentucky school mornings. Read the weather. Say the chance of no school. Score Snow Points.

YOUR CHANCE OF NO SCHOOL → YOUR SNOW POINTS

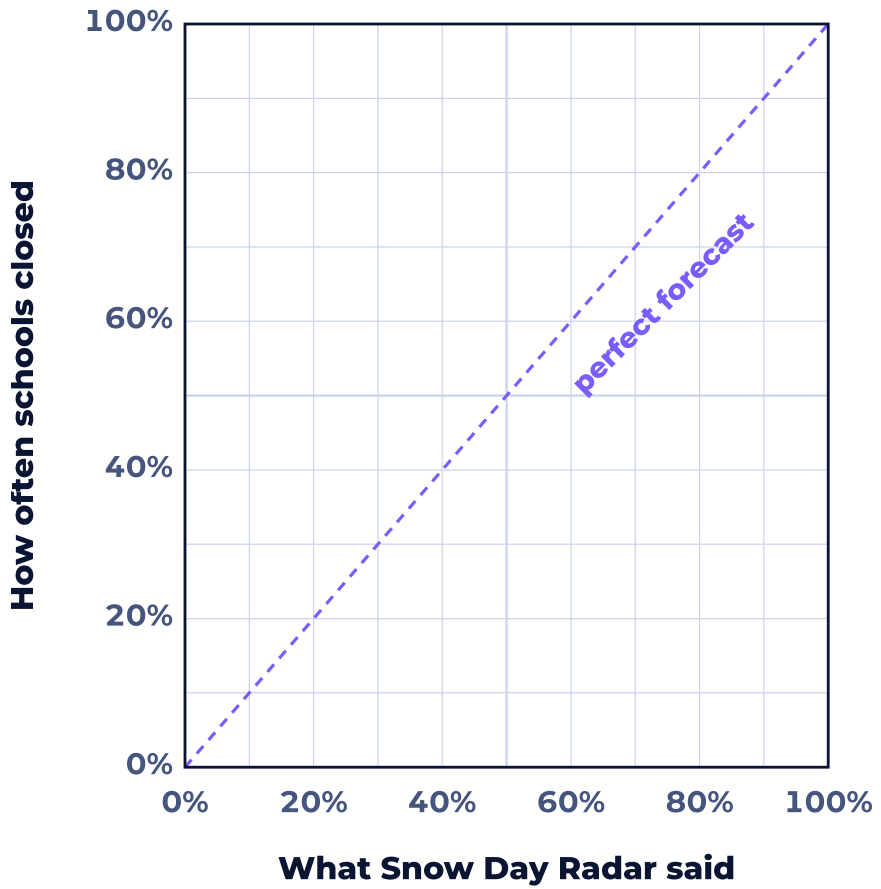
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
No school happened	0	19	36	51	64	75	84	91	96	99	100
School happened	100	99	96	91	84	75	64	51	36	19	0

Say 0% or 100% and be wrong: 0 points. Over many mornings, saying what you really believe wins.

THE SCORECARD

15 winters, each one hidden, then checked

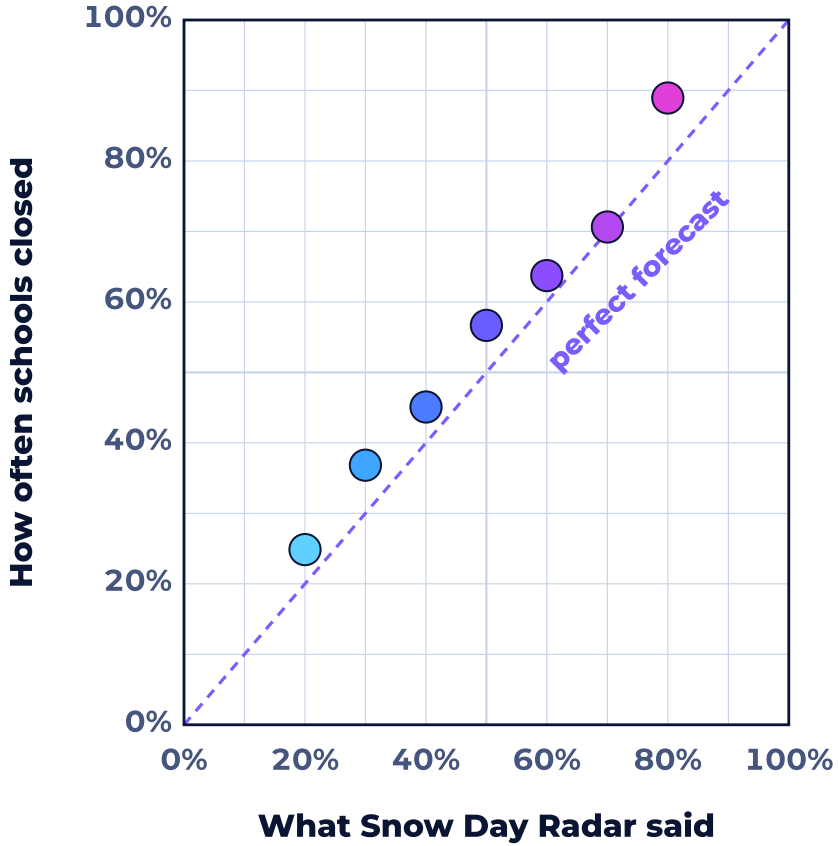
IT SAID	MORNINGS	NO SCHOOL	PERCENT
20%	1,795	446	**25%**
30%	1,219	449	**?**
40%	976	440	**45%**
50%	817	463	**?**
60%	827	527	**64%**
70%	882	623	**?**
80%	5,835	5,189	**89%**



REVEAL

Almost every point sits above the line

When it said a number, schools closed a bit more often than that. It's cautious.



It said **30%** → schools closed **37%** of the time

It said **50%** → schools closed **57%** of the time

It said **70%** → schools closed **71%** of the time

PROBABILITY LAB

Simulate 20 snow nights

The forecast says 30%. Digits 0 to 9 are equally likely, so:

0, 1, 2 = no school (3 in 10)

3 to 9 = school

WHOLE CLASS

____ / ____ = ____

Is the class total closer to 0.3 than your own row?

Free from Snow Day Radar

BUST THE MYTH

Science or superstition?

Your friend wore pajamas inside out 3 times and got 2 snow days. Proof?



Pajamas inside out



A spoon under the pillow



Ice cubes down the toilet



A white crayon in the freezer



MISSION COMPLETE

Odds Master

One night is luck. Many nights show the probability. And a good forecast never says 100%.