

EDWARDSVILLE, Ill. (AP) — Tornadoes and severe weather caused catastrophic damage across multiple states late Friday, killing at least six people overnight as a storm system bore through a candle factory in Kentucky, an Amazon facility in Illinois and a nursing home in Arkansas. The Kentucky governor said at least 20 people could be dead. Gov. Andy Beshear said about 110 people were injured last night in Mayfield, Ky. “We believe our death toll from this event will exceed 50,” he said in a news conference Saturday. “It’s very hard, really tough, and we’re still recovering from the Bowling Green homes, businesses destroyed by deadly tornado event.” Kyana Parsons-Perez, a factory employee, was trapped under five feet (1.5 meters) of debris for at least two hours until rescuers managed to free her.

Parsons-Perez, interviewed with TODAY, she said it was the “absolutely the most terrifying thing I had ever experienced.” “I did not think I was going to make it at all.”

Just before the tornado struck, the building’s lights flickered. A gust of wind “over came” started “popping” and then “boom.” The lights came down on her. People started screaming and she started praying. She said workers prayed in unison. Among the workers who helped rescue the trapped workers were inmates from the nearby Cranes County Jail, she said. “They came out and tried to help me. They tried to run away or anything, but they didn’t. They were just helping.”

At least one person was killed at Amazon facility in Edwardsville, Illinois, police said. The roof of the building was ripped off and a wall collapsed onto a football field outside. Two people at the facility were taken by helicopter to hospitals in St. Louis. Police in St. Louis said firefighters rescued reporters on Sunday morning. The chief said he didn’t know how serious their injuries were. Edwardsville is about 25 miles (40 kilometers) east of St. Louis.

It wasn’t immediately clear whether the damage was caused by straight-line storms or a tornado, but the National Weather Service office near St. Louis reported “radar-confirmed tornadoes” in the Edwardsville area around the time of the collapse. About 30 people who were in the building were taken to hospitals to the police station in nearby Pontoon Beach for evaluation. Early Saturday, rescue crews were still sorting through the rubble. Fullback said the process could take several more hours. Cranes and backhoes were brought in to help move debris.

Easy “Analytics” To Use Get results

The countries that are doing best are the ones with high effective measures,” says Salathé. “The worst countries neither. Most are in between.” But even when vaccination rates are high and the pressure is low, it may not be enough for long-term protection — especially given the effectiveness of vaccines over time. “The UK rolled out a vaccination program earlier than most countries and therefore has experienced the impact of waning immunity earlier,” says Head, a senior research fellow in global health at the University of Oxford. “The boosters here in the UK are clearly having more impact against re-infections and new cases in older populations than in younger people who were vaccinated earlier in life, so they’re remaining protected.” “We’ve seen a ‘roller’ outbreak of a different variant of the virus, a concern that we’re seeing a new dominant and have a greater impact on the effectiveness of our vaccines,” he says. “Ultimately, the world cannot rely on the vast majority of the world being vaccinated. The combination of vaccine hesitancy and a lack of access to vaccines is everyone’s problem.”

Tuesday	2.04	Weather	187
Monday	1.99	Weather	187
Sunday	1.96	Weather	187
Saturday	1.98	Weather	187
Friday	2.03	Sick	214
Thursday	2.09	Sick	214
Wednesday	2.03	Sick	214
Tuesday	2.09	Sick	214
Monday	2.00	Sick	214
Sunday	1.93	Sick	214
Saturday	1.93	Sick	214
Friday	1.94	Sick	214
Thursday	2.01	Sick	214
Wednesday	2.02	Sick	214
Tuesday	2.01	Sick	214
Monday	2.02	Sick	214
Sunday	1.90	Sick	214
Saturday	1.92	Sick	214

EDWARDSVILLE, Ill. (AP) — Tornadoes and severe weather caused catastrophic damage across multiple states late Friday, killing at least six people overnight as a storm system bore through a candle factory in Kentucky, a prison facility in Illinois and a nursing home in Arkansas. The Kentucky governor said he fears another state could be next. Gov. Andy Beshear said about 110 people were at the factory in Mayfield, Kentucky, when the storm hit. "We believe our death toll from this event will exceed 50 Kentuckians, probably even 75," he said in a news conference Saturday. "It's scary, hard, really tough, and we're praying for each and every one of our families." Bowling Green homes, businesses destroyed by deadly tornado event
Kyana Parsons-Peretz, a factory employee, was trapped under five feet (about 1.5 meters) of debris. At least 100 workers and rescuers managed to get her out.

Parsons-Peretz said she and another worker were "cuddled together" when she had a "panic attack." "I don't think I was going to get out of there," she said. "I just felt like the tornado struck, the building's lights flickered. She felt a gust of wind, her ears started "popping" and then "Boom! Everything came down on us. People started screaming, and she heard Hispanic workers praying in Spanish. Among the injured, rescued workers were inmates from the nearby Greer County Jail, she said. "They were told that if they didn't try to run away or anything, they would be helping us," she said. "I was at Amazon factory in Edwardsville, Illinois, police said. The roof of the building was ripped off and a court reporter's car was crushed on a football field nearby. Two people at the facility were taken by helicopter to hospitals in St. Louis. Police Chief Mike Fullback told reporters on Saturday morning. The chief said he didn't know how serious their injuries were. Edwardsville is about 25 miles (40 kilometers) east of St. Louis. It wasn't immediately clear whether the damage was caused by straight-line storms or a tornado, but the National Weather Service office near St. Louis reported "multiple tornadoes" in the area. About 30 people who were in the building were taken to a nearby police station in nearby Pontoon Beach for evaluation. Early Saturday, rescue crews were still sorting through the rubble. Fullback said the process could take several more hours. Cranes and backhoes were brought in to help move debris.

The countries that are doing best are the ones with high effective measures," says Salathé. "The worst countries neither. Most are in between." But even when vaccination rates are high and the prevalence low, it may not be enough for long-term protection—especially given the effectiveness of vaccines over time. "The UK rolled out a vaccination program earlier than most countries, therefore has experienced the impact of waning immunity earlier," says Head, a senior research fellow in global health at the University of Liverpool. "Where there's been a high level of vaccination, it means countries are able to vaccinate people more quickly in the future. Where there's been uncontrolled spread, it means you've got to have a higher level of vaccination." "Ultimately, the world cannot get on top of the vulnerability of the world's unvaccinated. The combination of vaccine hesitancy and a lack of access to vaccines is everyone's problem."

We were MISSING the overruns

Our revenue accruals were taking a hit.

1991	1.98	
1992	2.01	
1993	2.03	214
1994	2.09	205
1995	1.98	Sick
1996	2.00	1.93
1997	1.93	195
1998	2.03	203
1999	2.01	203
2000	1.90	1.92

By: Jeff Roberson, Robert Jablon, Jim Salter | The Associated Press via Nexstar Media Wire
Posted: Dec 11, 2021 / 10:19 AM EST
Updated: Dec 11, 2021 / 10:19 AM EST
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EDWARDSVILLE, Ill. (AP) — Tornadoes and severe weather caused catastrophic damage across multiple states late Friday, killing at least six people overnight as a storm system tore through a candle factory in Kentucky, an Amazon facility in Illinois and a nursing home in Arkansas. The Kentucky governor said he feared more could be dead.

Gov. Andy Beshear said about 140 people were killed in the tornado that struck the candle factory in Kentucky. "We believe that's a final number, but this event will exceed 100 deaths," he said at a news conference Saturday. "It's very hard, really tough, and we're praying for each and every one of those families."

Bowling Green homes, businesses destroyed in deadly tornado event
Kyana Parsons-Perez, a factory employee, was trapped under five feet (about 1.5 meters) of debris for at least two hours until rescuers managed to free her.

In an interview with TODAY, she said it was the "absolutely the most terrifying" event she had ever experienced. "I did not think I was going to make it at all."

Just before the tornado struck, the building's lights went out. "I felt a vibration, and then I felt a strong wind," she said. "Boom. Everything came down on us." People were trapped under debris. Among the injured were a police officer and a woman who was trapped in a car. They were rescued Saturday morning. "They were trapped for about two hours," police said. "They were very lucky."

Two people at the facility were taken to a helicopter hospital in St. Louis. Police Chief Mike Fullback told reporters on Saturday morning. The chief said he did not know how serious their injuries were. Edwardsville is about 27 miles (44 kilometers) east of St. Louis.

It wasn't immediately clear whether the damage was caused by straight-line storms or a tornado, but the National Weather Service office near St. Louis said it was a tornado. "We have a lot of debris and a lot of damage," said a police spokesman. "We're still looking for more information." Saturday, rescuers were still sifting through the rubble. Fullback said the process could take several more hours. Cranes and backhoes were brought in to help move debris.

1001.11
1011.08
1051.05
1151.11
Totals 3072.85 3072.9

The countries that are doing best are the ones with high effective measures," says Salathé. "The worst countries are neither. Most are in between."

But even when vaccination rates are high and the presence of low-income people is high, the effectiveness of the vaccine is lower. "The effectiveness of the vaccine is lower, especially given the fading effectiveness of vaccines over time," he says.

"The UK rolled out its vaccination program earlier than most countries, and therefore has experienced the impact of waning immunity earlier," says Michael Head, a senior research fellow in global health at the University of Southampton. "The boosters here in the UK are clearly having an impact around hospital admissions and new cases in older populations. That means continuing to vaccinate people, and particularly those people who were vaccinated early in the cycle, remains vitally important. Where we see uncontrolled outbreaks, we also see emergence of new variants of interest and concern, and we really don't want any new variants to become dominant and have a greater impact upon the effectiveness of our vaccines," he says.

Finally, the world's population is still largely in low-income countries, where access to vaccines is very poor.

1001.11
1011.08
1051.05
1151.11
Wednesday 2092.03
2.09
2001.93
1942.01
2021.90

We needed something to help us

PREDICT

project overruns before it happened.

3 "Predictive" Analytics
Veronique Frizzell
Veronique Frizzell

We were a merry band of four, trying to oversee the financial management of 100+ projects. The duties entailed the set up and close down of charge codes, the updates of contract values, the reporting of project financial status, doing project reviews, forecasting - to name just a few tasks.

We were dropping the ball on catching the projects that had imminent overruns and it was hitting our revenues.

I needed something easy, without a lot of work, predicting which of the 100+ projects were going to overrun.

I came up with what I called

the Soft Predictive Analytics

EDWARDSVILLE, Ill. — A powerful tornado tore through the area Friday, killing at least six people overnight and destroying a car wash, a factory in Kentucky, an Amazon facility in Illinois and a nursing home in Arkansas. At least 100 people were injured, and more could be dead.

Gov. Andy Beshear said about 100 people were injured in Kentucky, when the tornado hit. “We believe our death toll from this storm is going to end up 70 to 100,” he said at a news conference Friday. “It’s still early in the investigation, but we’re seeing families that have lost loved ones.”

Kyana Harse, 36, was killed when a house in Illinois was hit by a tornado. She was trapped for at least two hours until rescue workers found her.

In an interview with TODAY, she said she was talking to her mother when she was hit. “I didn’t think I was going to make it,” she said.

Just before the tornado struck, the children’s mother said, “The wind started blowing” and then, “Boom. Everything came down on us.” People started screaming, and she heard Hispanic workers pleading in Spanish.

Among those who helped rescue the trapped workers were inmates from the nearby Giles County Jail, she said.

They were told that if they could get out of the jail, they were under no obligation to help anyone else.

Police said the roof of the building was blown off and a wall collapsed.

Two people at the facility were taken to a hospital in St. Louis. Police Chief Frank Taylor said that on Saturday morning, the crew had to dig out the bodies of the two people who died.

Blanton, chief of St. Louis.

It wasn’t immediately clear whether the damage was caused by straight-line storms or a tornado, but the National Weather Service office near St. Louis reported “radar-confirmed” tornadoes in the Edwardsville area around the time the collapse occurred.

At least 50 people who were in the building were taken to the police station in nearby Paducah, Ky., for questioning.

Early Saturday, rescue crews were still sorting through the rubble. “It’s back to the process of searching for survivors,” he said.

Cranes and backhoes were brought in to help move debris.

the country is doing best at the one with high effective industrial,” says Galathé. “The worst countries neither. Most are in between.”

But even when vaccination rates are high and the pressure is low, it may not be enough for long-term protection—especially given the fading effectiveness of vaccines over time.

“The UK rolled out a vaccination program earlier than most countries, and therefore has experienced the impact of waning immunity earlier,” says Michael Head, a senior research fellow in global health at the University of Southampton.

“The boosters here in the UK are clearly having an impact around hospital admissions and new cases in older populations.”

That means continuing to vaccinate people, and boosting the immune response of people who were vaccinated early in the cycle, remains vitally important.

“Where we see uncontrolled outbreaks, we also see emergence of new variants of interest and concern, and we really don’t want any new variants to become dominant and have a greater impact upon the effectiveness of our vaccines,” he says. “Ultimately, the world cannot fully relax until the vast majority of the world is vaccinated. The combination of vaccine hesitancy and lack of access to vaccines is everyone’s problem.”

We didn't have any fancy AI software back then. It probably was just a glimmer in some scientist's eye.

The internal software we were using didn't have a feature warning us of imminent overruns.

Fortunately, I came up with something that didn't involve linear regressions, clustering, decision trees, or any other of those fancy analytics terms. It involved something that anybody who graduated from high school can use...

EDWARDSVILLE, Ill. (AP)—Tornadoes and severe weather caused catastrophic damage across multiple states late Friday, killing at least six people overnight as a storm system tore through a candle factory in Kentucky, an Amazon facility in Illinois and a nursing home in Arkansas. The Kentucky governor said he feared more could be dead. Gov. Andy Beshear said about 140 people were in the factory in Mayesville, Kentucky, when the tornado hit. “We believe our death toll from this will exceed 170 Kentuckians,” he said at a news conference Saturday. “It’s very bad. I’m praying for the people in the area.” In Bowling Green, homes, businesses and a school were destroyed. In Evansville, Kyana Parsons-Perez, a factory worker, was killed. In St. Louis, Missouri, rescuers managed to free her.

In an interview with TODAY, she said it was the “absolutely the most terrifying” event she had ever experienced. “I did not think I was going to make it at all.”

Just before the tornado struck, the building’s lights flickered. She felt a gust of wind, her ears started “popping” and then “boom. Everything came down on us.” People started screaming, and she heard Hispanic workers praying in Spanish. Among the trapped workers were inmates from the nearby Graves County jail, she said.

“They came out that moment to try to run on or anything, but they did not. They were there, helping us,” she said. A rescue team from an Amazon facility in Edwardsville, Illinois, police said. The roof of the building was ripped off and a wall about the size of a football field collapsed.

Two people from the facility were taken by helicopter to a hospital in Louisville, Kentucky, where they were treated Saturday morning. The chief said he did not know how serious their injuries were. Edwardsville is about 200 miles (320 kilometers) east of St. Louis.

It wasn’t immediately clear whether the damage was caused by straight-line storms or a tornado, but the National Weather Service office near St. Louis reported “multiple confirmed tornadoes” in the Edwardsville area around the time of the collapse. About 30 people who were in the building were taken by bus to the police station in nearby Pontoon Beach for evaluation. Early Saturday, rescuers were still sifting through the rubble. Fullback said the process could take several more hours. Cranes and backhoes were brought in to help move debris.

AVERAGES

Yep, averages.

1001.11 1221.11
1011.08 1767.76
1051.05 1021.11
1151.11 1181.11

Totals 3072.85 3072.9

The countries that are doing best are the ones with high effective measures,” says Salathé. “The worst countries neither. Most are in between.” But even when vaccination rates are high and the pressure is low, it may not be enough for long-term protection—especially given the fading effectiveness of vaccines over time.

The UK rolled out a program for people who were not vaccinated before, therefore he said. “I’m not sure if it’s a good idea,” he said. “I’m a research fellow in global health at the University of Southampton. I’ve been working on this for a long time. I’ve seen a lot of people who were not vaccinated before. I’ve seen a lot of people who were not vaccinated before. I’ve seen a lot of people who were not vaccinated before.”

“Where we see uncontrolled outbreaks, we also see emergence of new variants of interest and concern, and we really don’t want any new variants to become dominant and have a greater impact upon the effectiveness of our vaccines,” he says. “Ultimately, the world cannot fully relax until the vast majority of the world is vaccinated. The combination of vaccine hesitancy and lack of access to vaccines is everyone’s problem.”

Tuesday 1981.00 212

1981.00 199 Sick

1981.00 1991

1981.00 199

1981.00 201

1981.00 187

1981.00 198

Wednesday 2092.03 214

2.09 205 198 Sick

2001.93 195 103

1942.01 2032.01
2021.90 2021.92

Here's how it worked:

Off to the right is a sample spreadsheet full of made up numbers.

- The section outlined in red are weekly expenses pulled in via formulas.
- Column B lists the project numbers.
- And row 9 shows the weekly dates.
- The section outlined in green are the *remaining* budget or contract values, also pulled in via formulas.

I needed to transform this into an analytical powerhouse.

The screenshot shows an Excel spreadsheet with the following data:

Project No.	5/26/2023	6/2/2023	6/9/2023	6/16/2023	6/23/2023	6/30/2023	7/7/2023	7/14/2023	7/21/2023	7/28/2023	Remaining Funds
29207	15,399	16,172	14,626	14,626	16,172	14,626	16,172	14,626	16,172	14,626	8,967
29208	23,312	22,593	24,031	24,031	24,031	22,593	22,593	24,031	24,031	22,593	127,505
29209	25,817	24,200	24,200	27,434	27,434	24,200	24,200	24,200	24,200	27,434	186,638
29210	20,956	19,612	19,612	22,300	22,300	19,612	22,300	19,612	22,300	22,300	7,408
29211	21,774	21,390	21,390	22,158	21,390	21,390	22,158	22,158	21,390	21,390	87,163
29212	24,314	22,693	22,693	22,693	25,935	22,693	25,935	25,935	22,693	22,693	132,847
29213	27,854	26,794	26,794	28,914	28,914	28,914	28,914	28,914	26,794	28,914	61,871
29214	21,403	19,743	23,063	23,063	23,063	19,743	23,063	23,063	19,743	19,743	119,194
29215	18,900	19,174	19,174	19,174	18,626	19,174	19,174	18,626	19,174	18,626	171,132
29216	3,968	2,967	4,969	2,967	4,969	2,967	4,969	2,967	2,967	2,967	145,377
29217	4,733	4,226	5,240	5,240	4,226	5,240	5,240	4,226	5,240	4,226	118,006
29218	17,252	17,156	17,348	17,156	17,348	17,348	17,348	17,156	17,348	17,156	159,222
29219	12,578	11,592	11,592	13,564	11,592	11,592	11,592	13,564	11,592	11,592	158,941
29220	13,700	12,481	14,919	12,481	12,481	14,919	12,481	12,481	12,481	12,481	190,764
29221	16,188	16,806	15,570	15,570	16,806	16,806	15,570	15,570	16,806	16,806	120,642
29222	12,891	13,397	13,397	12,385	12,385	13,397	12,385	12,385	12,385	12,385	198,625
29223	10,827	10,164	10,164	10,164	11,490	11,490	11,490	10,164	11,490	11,490	47,185
29224	22,837	24,055	24,055	24,055	24,055	21,619	24,055	21,619	21,619	24,055	124,858
29225	29,256	31,245	27,267	31,245	27,267	27,267	31,245	27,267	27,267	27,267	147,262
29226	13,426	11,680	15,172	15,172	15,172	11,680	11,680	15,172	15,172	11,680	180,182
29227	20,577	20,075	20,075	20,075	20,075	20,075	20,075	20,075	21,079	21,079	80,701
29228	6,225	6,214	6,236	6,236	6,236	6,214	6,214	6,214	6,236	6,214	49,360
29229	5,722	5,199	5,199	5,199	6,245	5,199	5,199	5,199	6,245	6,245	58,316
29230	27,582	25,620	25,620	29,544	29,544	29,544	29,544	25,620	29,544	29,544	96,732
29231	23,290	24,283	22,297	24,283	24,283	22,297	22,297	24,283	24,283	22,297	82,517
29232	26,231	25,170	25,170	27,292	27,292	25,170	27,292	25,170	27,292	25,170	42,817
29233	12,376	10,829	10,829	13,823	13,823	10,829	13,823	10,829	13,823	10,829	188,655

Here's what I ended up with: (Red outlines are new.)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1																					
2																					
3		Run out of \$				Today's date		Averaging													
4		4				7/28/2023		8													
5																					
6																					
7																					
8			2 weeks	▼ Weekly	Project No.				x	x	x	x	x	x	x						
9	!!! REVIEW!!!	Run rate	Run rate			5/26/2023	6/2/2023	6/9/2023	6/16/2023	6/23/2023	6/30/2023	7/7/2023	7/14/2023	7/21/2023	7/28/2023		Remaining Funds			Project to review	
10	!!!	30,412	15,206		29207	15,399	16,172	14,626	14,626	16,172	14,626	16,172	14,626	16,172	14,626		8,967			29207	
11		46,984	23,492		29208	23,312	22,593	24,031	24,031	24,031	22,593	22,593	24,031	24,031	22,593		127,505			29210	
12		51,634	25,817		29209	25,817	24,200	24,200	27,434	27,434	24,200	24,200	24,200	24,200	27,434		186,638			29232	
13	!!!	42,584	21,292		29210	20,956	19,612	19,612	22,300	22,300	19,612	22,300	19,612	22,300	22,300		7,408			29249	
14		43,356	21,678		29211	21,774	21,390	21,390	22,158	21,390	21,390	22,158	22,158	21,390	21,390		87,163				
15		47,818	23,909		29212	24,314	22,693	22,693	22,693	25,935	22,693	25,935	25,935	22,693	22,693		132,847				
16		56,768	28,384		29213	27,854	26,794	26,794	28,914	28,914	28,914	28,914	28,914	26,794	28,914		61,871				
17		43,636	21,818		29214	21,403	19,743	23,063	23,063	23,063	19,743	23,063	23,063	19,743	19,743		119,194				
18		37,937	18,969		29215	18,900	19,174	19,174	18,626	19,174	19,174	18,626	19,174	18,626	19,174		171,132				
19		7,436	3,718		29216	3,968	2,967	4,969	2,967	4,969	2,967	4,969	2,967	2,967	2,967		145,377				
20		9,720	4,860		29217	4,733	4,226	5,240	5,240	4,226	5,240	5,240	4,226	5,240	4,226		118,006				
21		34,552	17,276		29218	17,252	17,156	17,348	17,156	17,348	17,348	17,348	17,156	17,348	17,156		159,222				
22		24,170	12,085		29219	12,578	11,592	11,592	13,564	11,592	11,592	11,592	13,564	11,592	11,592		158,941				
23		26,181	13,091		29220	13,700	12,481	14,919	12,481	12,481	14,919	12,481	12,481	12,481	12,481		190,764				
24		32,376	16,188		29221	16,188	16,806	15,570	15,570	16,806	16,806	15,570	15,570	16,806	16,806		120,642				
25		25,276	12,638		29222	12,891	13,397	13,397	12,385	12,385	13,397	12,385	12,385	12,385	12,385		198,625				
26		21,654	10,827		29223	10,827	10,164	10,164	10,164	10,164	11,490	11,490	10,164	11,490	11,490		47,185				
27		46,283	23,142		29224	22,837	24,055	24,055	24,055	24,055	21,619	24,055	21,619	21,619	24,055		124,858				
28		56,523	28,262		29225	29,256	31,245	27,267	31,245	27,267	27,267	27,267	31,245	27,267	27,267		147,262				
29		27,725	13,863		29226	13,426	11,680	15,172	15,172	15,172	11,680	11,680	15,172	15,172	11,680		180,182				
30		40,652	20,326		29227	20,577	20,075	20,075	20,075	20,075	20,075	20,075	20,075	21,079	21,079		80,701				
31		12,450	6,225		29228	6,225	6,214	6,236	6,236	6,236	6,214	6,214	6,214	6,236	6,214		49,360				
32		11,183	5,591		29229	5,722	5,199	5,199	5,199	6,245	5,199	5,199	5,199	6,245	6,245		58,316				
33		57,126	28,563		29230	27,582	25,620	25,620	29,544	29,544	29,544	29,544	25,620	29,544	29,544		96,732				
34		46,580	23,290		29231	23,290	24,283	22,297	24,283	24,283	22,297	22,297	24,283	24,283	22,297		82,517				
35	!!!	52,462	26,231		29232	26,231	25,170	25,170	27,292	27,292	25,170	27,292	25,170	27,292	25,170		42,817				
36		24,652	12,326		29233	12,326	10,829	10,829	13,823	13,823	10,829	13,823	10,829	13,823	10,829		188,655				

Let's take this little by little.

1. Here I keyed in how many weeks I wanted to use in averaging the weekly spend. I'm using 8 here, so I want to calculate the average weekly expenses over 8 weeks.
2. Those "x's" are the weeks that I want to calculate the average. Those "x's" will play a role later on. Also, I'm making a visual representation so I can see better.
3. The formula for creating those "x's" is shown in the formula bar and in red text.

Formula bar: `=IF(COUNTA(I7:$P7)>$H$4-1,"","x")` **3**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1																					
2																					
3		Run out of \$				Today's date		Averaging													
4		4				7/28/2023		8													
5																					
6																					
7									x	x	x	x	x	x	x	x					
8			2 weeks	Weekly		Project No.												Remaining		Project to review	
9		!!! REVIEW!!!	Run rate	Run rate			5/26/2023	6/2/2023	6/9/2023	6/16/2023	6/23/2023	6/30/2023	7/7/2023	7/14/2023	7/21/2023	7/28/2023		Funds			
10		!!!	30,412	15,206		29207	15,399	16,172	14,626	14,626	16,172	14,626	16,172	14,626	16,172	14,626		8,967		29207	
11			46,984	23,492		29208	23,312	22,593	24,031	24,031	24,031	22,593	22,593	24,031	24,031	22,593		127,505		29210	
12			51,634	25,817		29209	25,817	24,200	24,200	27,434	27,434	27,434	24,200	24,200	24,200	27,434		186,638		29232	
13		!!!	42,584	21,292		29210	20,956	19,612	19,612	22,300	22,300	19,612	22,300	19,612	22,300	22,300		7,408		29249	

3 = If(counta(I7:\$P7)>\$H\$4-1,"","x")

4. Once I enter the “Averaging” number in cell H4, the average weekly spend is calculated for each project under column D.

5. Again, the formula bar shows the formula for the calculation. Note it calculates averages using only those columns marked with “x”.

D10 : *fx* =AVERAGEIF(\$G\$7:\$P\$7,"x",G10:P10) 5

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3		Run out of \$				Today's date		Averaging				
4			4			7/28/2023		8				
5												
6												
7									x	x	x	x
8			2 weeks	Weekly		Project No.						
9		!!! REVIEW!!!	Run rate	Run rate			5/26/2023	6/2/2023	6/9/2023	6/16/2023	6/23/2023	6/30/2023
10		!!!	30,412	15,206		29207	15,399	16,172	14,626	14,626	16,172	14,626
11			46,984	23,492		29208	23,312	22,593	24,031	24,031	24,031	22,593

6. In cell C8, I pick either 2 weeks or 4 weeks to calculate spending. How much am I going to spend in 2 weeks (roughly in half a month) or 4 weeks (roughly a month later)? I did this analysis every 2 weeks to catch any projects in danger.

7. Formula bar shows the formula for 2 or 4 weeks spending under column C.

conference Saturday. "It's very hard, really tough, and we're praying for each and every one of those families... therefore has experienced the impact of waning immunity earlier," says Michael...

C10 X ✓ fx =IF(LEFT(\$C\$8,1)="2",D10*2,D10*4) 7

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2												
3		Run out of \$				Today's date		Averaging				
4		4				7/28/2023		8				
5												
6												
7			6						x	x	x	x
8			2 weeks	Weekly	Project No.							
9		!!! REVIEW!!!	Run rate	Run rate		5/26/2023	6/2/2023	6/9/2023	6/16/2023	6/23/2023	6/30/2023	
10		!!!	30,412	15,206	29207	15,399	16,172	14,626	14,626	16,172	14,626	
11			46,984	23,492	29208	23,312	22,593	24,031	24,031	24,031	22,593	

8. Column B shows which project is predicted to overrun in the upcoming weeks. That is done by comparing the 2 or 4 weeks spending in column C with the *remaining* project funds in column R.

9. Here again, the formula bar shows the formula in column B for that comparison.

Formula bar: `=IF(C10>R10,"!!!", "")` 9

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Run out of \$	4			Today's date		Averaging										
				7/28/2023		8										
8	2 weeks	Weekly	Project No.				x	x	x	x	x	x	x	x		
!!! REVIEW!!!	Run rate	Run rate		5/26/2023	6/2/2023	6/9/2023	6/16/2023	6/23/2023	6/30/2023	7/7/2023	7/14/2023	7/21/2023	7/28/2023			Remaining Funds
!!!	30,412	15,206	29207	15,399	16,172	14,626	14,626	16,172	14,626	16,172	14,626	16,172	14,626	16,172	14,626	8,967
	46,984	23,492	29208	23,312	22,593	24,031	24,031	24,031	22,593	22,593	24,031	24,031	22,593	22,593	24,031	127,505
	51,634	25,817	29209	25,817	24,200	24,200	27,434	27,434	27,434	24,200	24,200	24,200	27,434	27,434	24,200	186,638
!!!	42,584	21,292	29210	20,956	19,612	19,612	22,300	22,300	19,612	22,300	19,612	22,300	22,300	22,300	22,300	7,408
	43,356	21,678	29211	21,774	21,390	21,390	22,158	21,390	21,390	22,158	22,158	21,390	21,390	21,390	21,390	87,163
	47,818	23,909	29212	24,314	22,693	22,693	22,693	25,935	22,693	25,935	25,935	22,693	22,693	22,693	22,693	132,847
	56,768	28,384	29213	27,854	26,794	26,794	28,914	28,914	28,914	28,914	28,914	26,794	28,914	28,914	26,794	61,871
	43,636	21,818	29214	21,403	19,743	23,063	23,063	23,063	19,743	23,063	23,063	19,743	19,743	19,743	19,743	119,194
	37,937	18,969	29215	18,900	19,174	19,174	19,174	18,626	19,174	19,174	18,626	19,174	18,626	19,174	18,626	171,132

10. You could either use the filter tool on column B to filter on “!!!” (or whatever warning you use) or you could use the new FILTER formula used in column T.

11. Here is the formula used in column T to filter out a list of projects forecasted to overrun.

T10 `=FILTER(F9:F62,B9:B62="!!!")` 11

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
	Run out of \$				Today's date		Averaging												
	4				7/28/2023		8												
								x	x	x	x	x	x	x	x				10
		2 weeks	Weekly		Project No.												Remaining		Project to review
	!!! REVIEW!!!	Run rate	Run rate			5/26/2023	6/2/2023	6/9/2023	6/16/2023	6/23/2023	6/30/2023	7/7/2023	7/14/2023	7/21/2023	7/28/2023		Funds		
	!!!	30,412	15,206		29207	15,399	16,172	14,626	14,626	16,172	14,626	16,172	14,626	16,172	14,626		8,967		29207
		46,984	23,492		29208	23,312	22,593	24,031	24,031	24,031	22,593	22,593	24,031	24,031	22,593		127,505		29210
		51,634	25,817		29209	25,817	24,200	24,200	27,434	27,434	27,434	24,200	24,200	24,200	27,434		186,638		29232
	!!!	42,584	21,292		29210	20,956	19,612	19,612	22,300	22,300	19,612	22,300	19,612	22,300	22,300		7,408		29249
		43,356	21,678		29211	21,774	21,390	21,390	22,158	21,390	21,390	22,158	22,158	21,390	21,390		87,163		
		47,818	23,909		29212	24,314	22,693	22,693	22,693	25,935	22,693	25,935	25,935	22,693	22,693		132,847		
		56,768	28,384		29213	27,854	26,794	26,794	28,914	28,914	28,914	28,914	28,914	26,794	28,914		61,871		
		43,636	21,818		29214	21,403	19,743	23,063	23,063	23,063	19,743	23,063	23,063	19,743	19,743		119,194		
		37,937	18,969		29215	18,900	19,174	19,174	19,174	18,626	19,174	19,174	18,626	19,174	18,626		171,132		
		7,436	3,718		29216	3,968	2,967	4,969	2,967	4,969	2,967	4,969	2,967	2,967	2,967		145,377		
		9,720	4,860		29217	4,733	4,226	5,240	5,240	4,226	5,240	5,240	4,226	5,240	4,226		118,006		
		34,552	17,276		29218	17,252	17,156	17,348	17,156	17,348	17,348	17,348	17,156	17,348	17,156		159,222		

RESULTS: After developing and implementing this tool, we no longer dropped the ball and our revenue and gross margins improved because we were catching and addressing the potentially problematic projects.

And the process didn't take long: just dump in the data and let the formulas do its work - maybe 10 minutes work.

122.09	2051.98	SIGN
1942.01	2032.01	
2024.90	2024.90	
2801.93	1951.03	

As you can see, it doesn't have

to be

COMPLICATED

16 "Predictive" Analytics

Veronique Frizzell

Veronique Frizzell

Hopefully this will trigger some ideas on how you can set up your work flow and catch problems *before* they occur.

If anything is unclear, you can connect with me on LinkedIn by clicking on the More button at

<https://www.linkedin.com/in/veroniquefrizzell/>