

POLUSVILLE

CENTER FOR DISEASE CONTROL

Good job with Phases 2 & 3!

Once again, you were able to eliminate three more vaccines, which were vaccines 4, 5, and 9. The remaining vaccines (2, 3, and 6) have been approved and are ready for mass distribution.

We now need your help to plan how the vaccine distribution should be carried out. Luckily, Pilot A. Bird has offered to help deliver the vaccines to places that are further away. He even agreed to be our puppet model for this kit!

We also need you to encourage the Polusville residents to get vaccinated so we can get closer to eradicating SUS. The Urbana Times has sent us a copy of their front page where they will include an ad for the vaccines. Could you draw an ad for us that will convince everyone to get the vaccine?

Thank you for all your help during this SUS outbreak. You are an awesome scientist! And remember, if you see someone that's SUS, report to me immediately. We're all in this together!



Dr. Skeld
Polusville Center for Disease Control



REPUBLIC OF CHAMPAIGN URBANA ROCU

DEPARTMENT OF CARTOGRAPHY



1inch = 10 miles



Thank you for helping the Polusville CDC distribute the vaccines! You will have to decide how to transport the vaccines from the Polusville CDC to the Praire Elementary School, The Urbana Times, the ROCU Pharmacy, and the ROCU Hospital.

The citizens of Polusville now have vaccines 2, 3, and 6 to choose from. Here's some information that might help you decide how to distribute the vaccines.

Vaccine	Storage conditions	Can be transported by trucks?
2	Room temperature for 1.5 hours	Yes
3	Room temperature for 3 hours	Yes
6	-80 C for 4 hours	No

You can either use trucks or planes to deliver the vaccine and the vaccines have to be thrown away if they do not reach their destination on time. To calculate how much time a truck or a plane will take, remember:

$$\text{Speed} = \text{Distance} \div \text{Time}$$

The scale at the bottom of the map will help you estimate the distance. The trucks drive at 20 mph and the plane flies at 50 mph. Since planes are more expensive, try to use the trucks as much as possible.

Here's a table to help you:

Vaccine distribution center	Distance from Polusville CDC (approximately)	Time needed to transport the vaccine by truck/plane	Which vaccine was delivered?
Praire Elementary School			
The Urbana Times			
ROCU Pharmacy			
ROCU Hospital			

Polusville CDC approves three vaccines

Scientists tested 9 vaccine candidates in 3 months

When Gunther, a teacher in Meadowbrook High School, first developed a sparkly unicorn horn, the doctors in ROCU were stunned. It soon became clear that he was suffering from the highly contagious disease SUS and the race for vaccine development and approval took off.

“We had several scientists analyze the data from the vaccine companies,” said Dr. Skeld, the head of the Polusville Center for Disease Control. “They decoded the confidential company documents and decided which vaccines were safe for mass distribution.”

The vaccination efforts will begin next week and Dr. Skeld is hopeful that if 75-80% of the population gets vaccinated, it will protect the entire community from SUS.

(More details on Page 5)

AD SPACE

You did an excellent job in figuring out which vaccines can be used to protect the citizens of Polusville from SUS. Have you ever considered becoming a scientist? What would you look like working in the lab? Draw it out!

ANSWER KEY

Vaccine distribution center	Distance from Polusville CDC (approximately)	Time needed to transport the vaccine	Vaccine delivered
Praire Elementary School	2.5 inches/25 miles	1.25 hours by truck	#2
The Urbana Times	4 inches/40 miles	2 hours by truck	#3
ROCU Pharmacy	6 inches/60 miles	1.2 hours by plane	#6
ROCU Hospital	6 inches/60 miles	1.2 hours by plane	#6