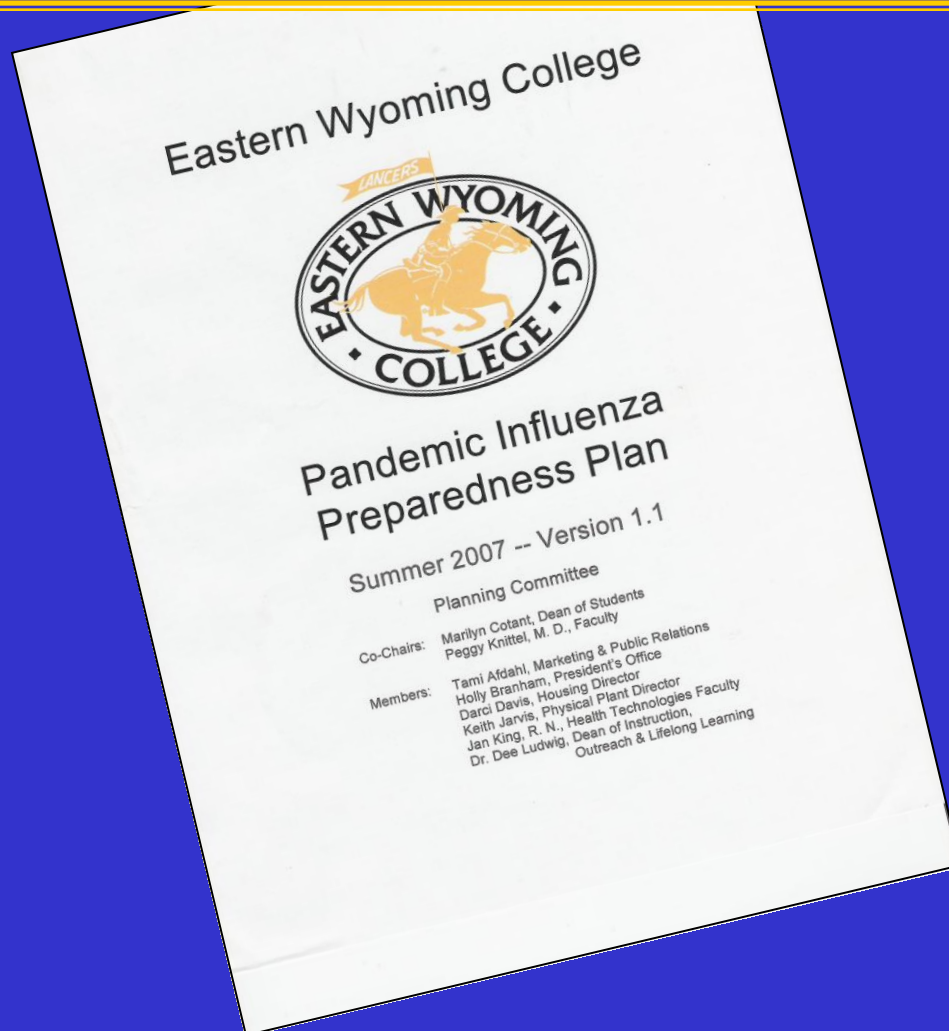


# Pandemic Influenza Preparedness Planning



- **What is influenza?**
  - **What is pandemic influenza?**
    - **Why all the concern?**
    - **What might we expect?**
      - **Where are we now?**
        - **What does EWC need to do to be prepared?**
        - **What do you need to do?**

# What is influenza?

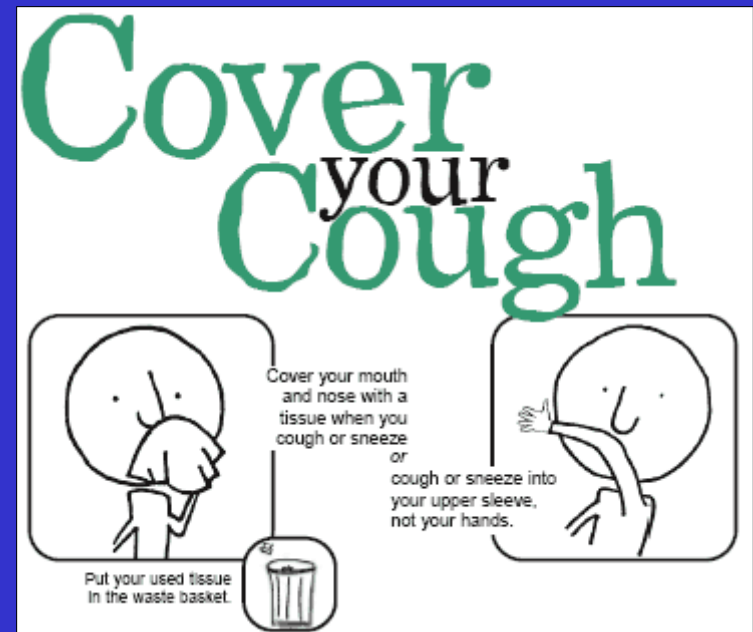
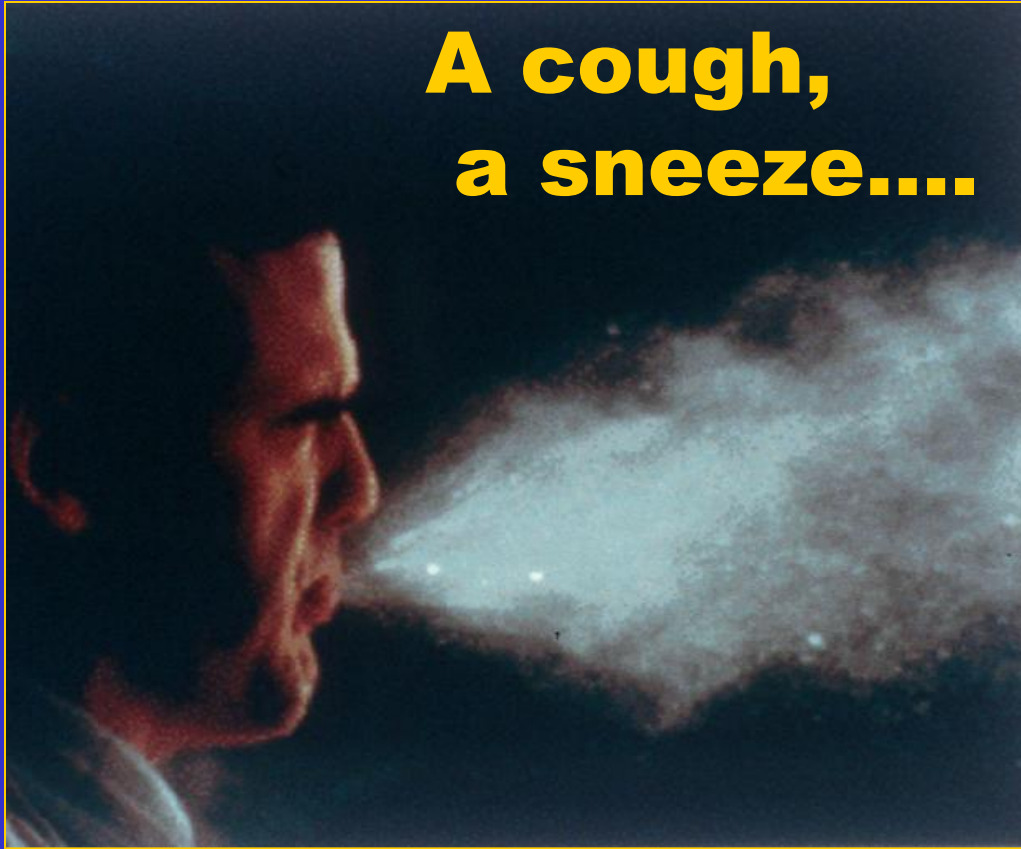
• **Influenza is an acute, highly contagious respiratory illness, with rapid onset of:**

- **Fever**
- **Chills**
- **Body aches**
- **Sore Throat**
- **Cough**
- **Runny nose**
- **Headache**



- **it is mainly transmitted by close contact (<6 feet) with a sick person (by respiratory droplets)**

**A cough,  
a sneeze....**



- or by touching a surface contaminated by respiratory secretions and getting the virus into mouth, nose or eyes.



- **incubation time: 18-48 hours**

# What is Pandemic flu???

**Don't feel bad if you're not sure....**

***% saying they...***

**Know what  
“pandemic flu” means**

**41%**

**Have heard of it/  
don't know  
what it means**

**33%**

**Have never  
heard of term**

**25%**

**Pandemic  
Flu is a  
potential  
worldwide  
influenza  
epidemic  
caused by  
the Avian  
Flu virus  
(the Bird  
Flu).**



Avian Flu is **NOT**  
“Pandemic Flu”  
**yet,** but current  
outbreaks of  
the Avian Flu  
virus in  
domestic  
poultry and  
wild birds  
in Asia are  
causing  
concern.



**“In the past few months, the media buzz around ‘bird flu’ has died down, but the H5N1 strain of avian influenza has not. It remains a serious danger that we must all face together.”**

**- Secretary Mike Leavitt**

**US Dept. of Health & Human Services**

**May 15, 2007**

**The Center for Disease Control (CDC) has directed state health departments to devise plans for pandemic influenza, and has strongly urged all colleges and universities to devise plans as well.**

**Businesses  
are also  
being  
encouraged  
to develop  
plans.**

## **PANDEMIC FLU: It *IS* Your Business**



**SEPTEMBER 6, 2007**

**8:30 AM - 4:30 PM**

**PARKWAY PLAZA • CASPER**

A conference to assist Wyoming business leaders in developing an emergency preparedness plan in the event of a pandemic flu outbreak.

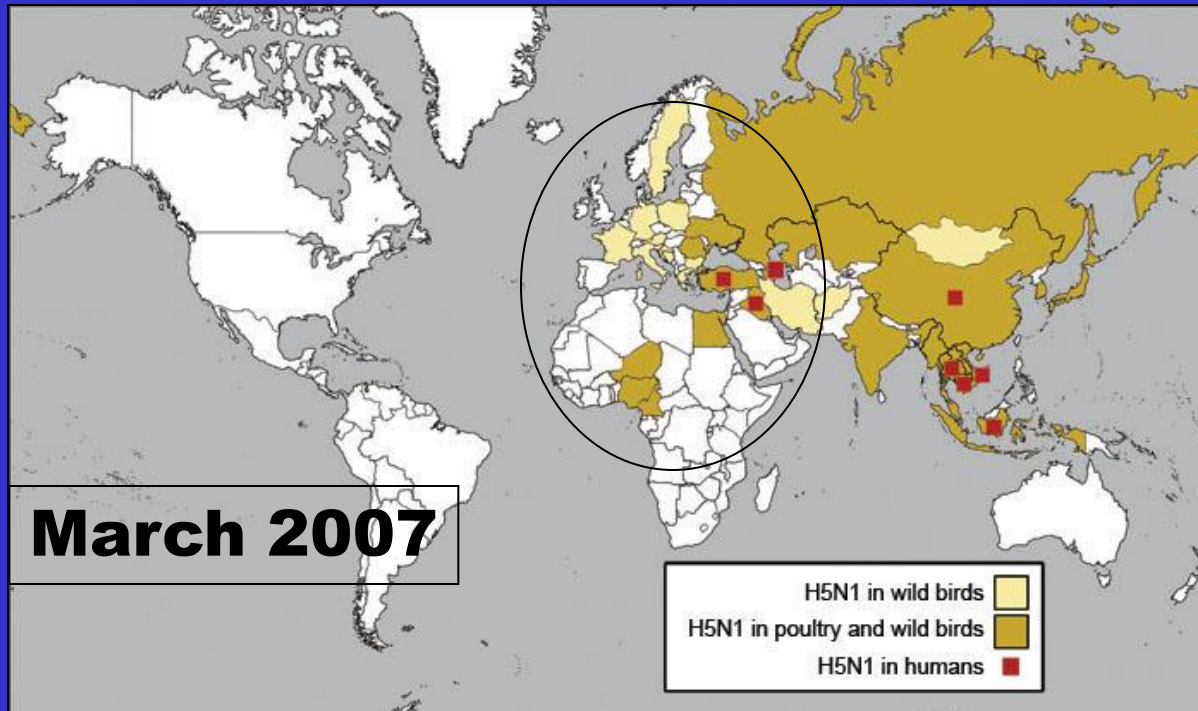
Learn how an outbreak will affect **ALL** businesses, what you need to do to minimize the impact on your business, and how to handle the fallout.

# Why all the concern?

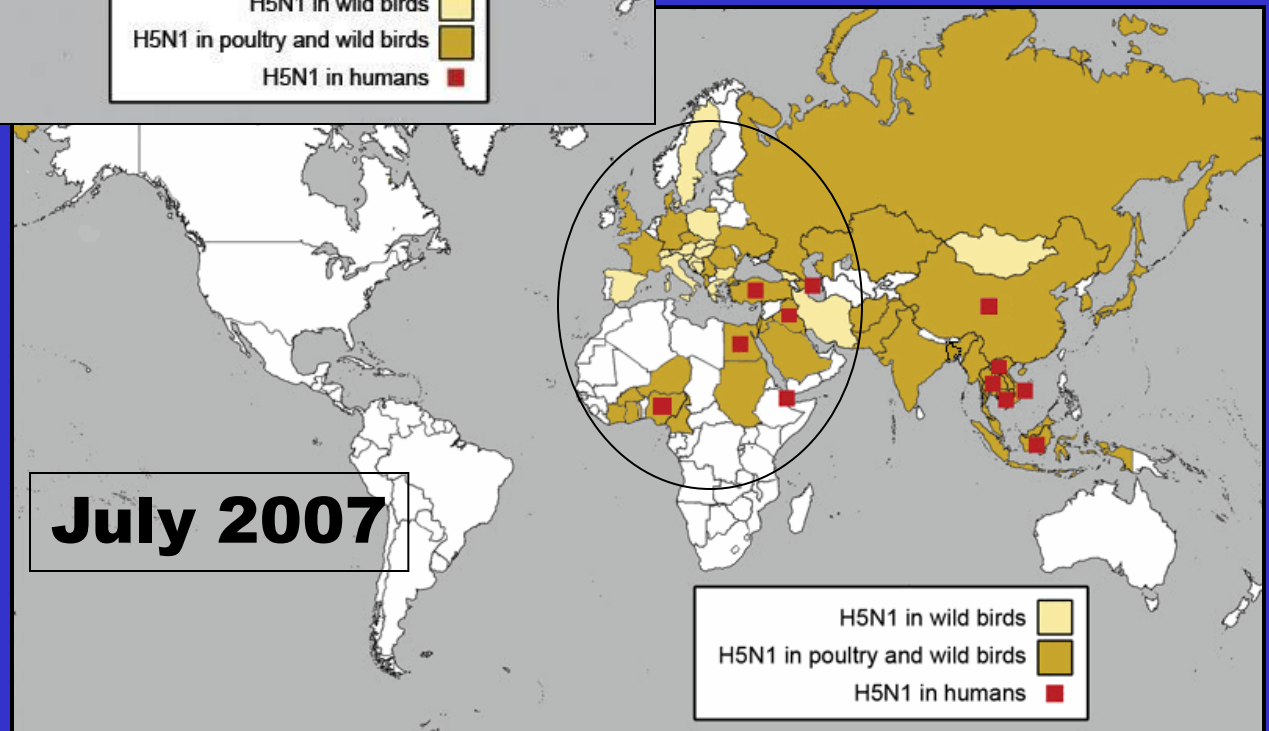
The reason for all the concern is that the current avian influenza virus, an H5N1 strain, is especially virulent:

as of August 16, 2007 there have been 321 human cases, with 194 human deaths (a 60% fatality rate – 3 out of 5 died)...

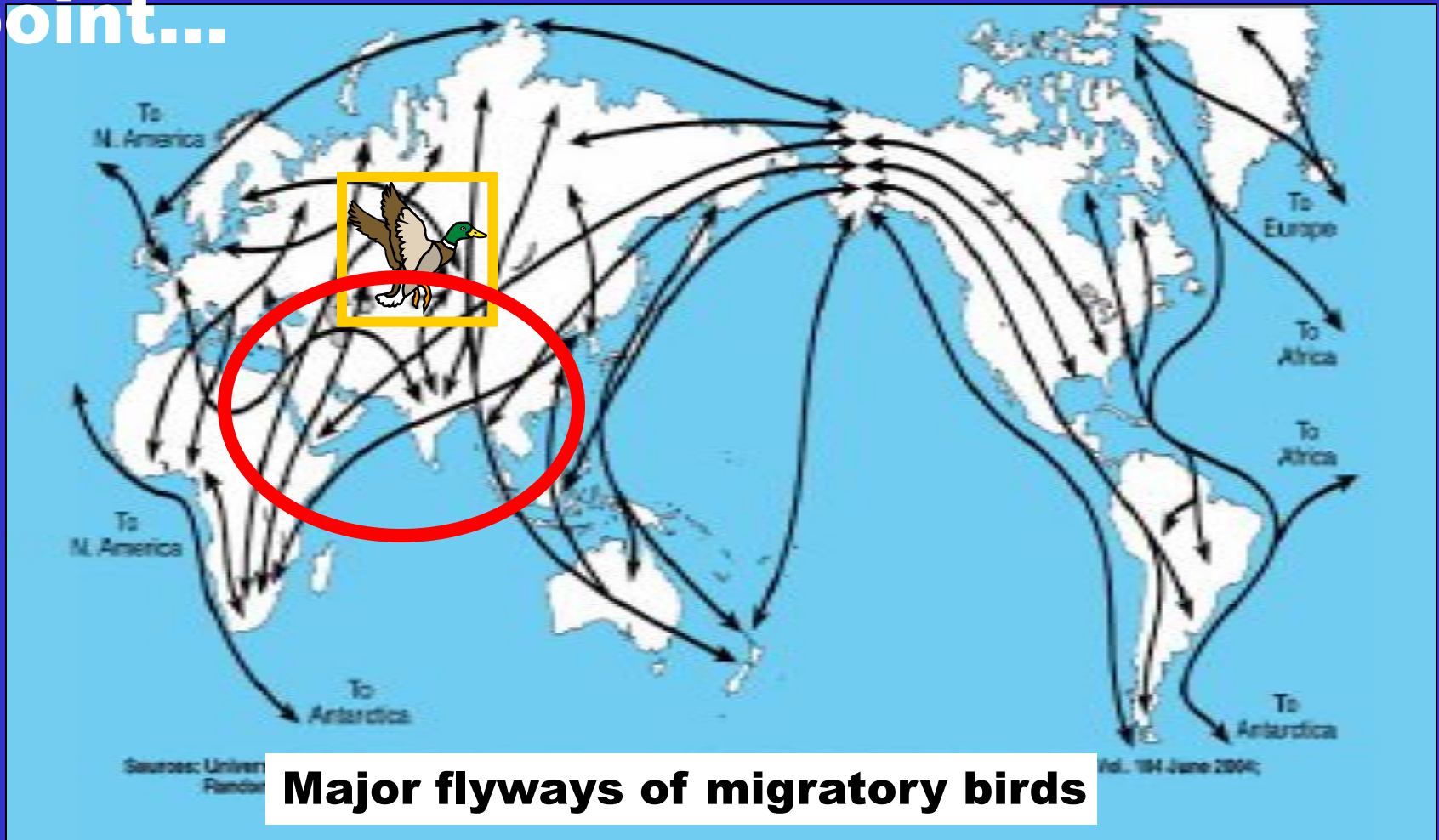
(8/31: 327, 199)

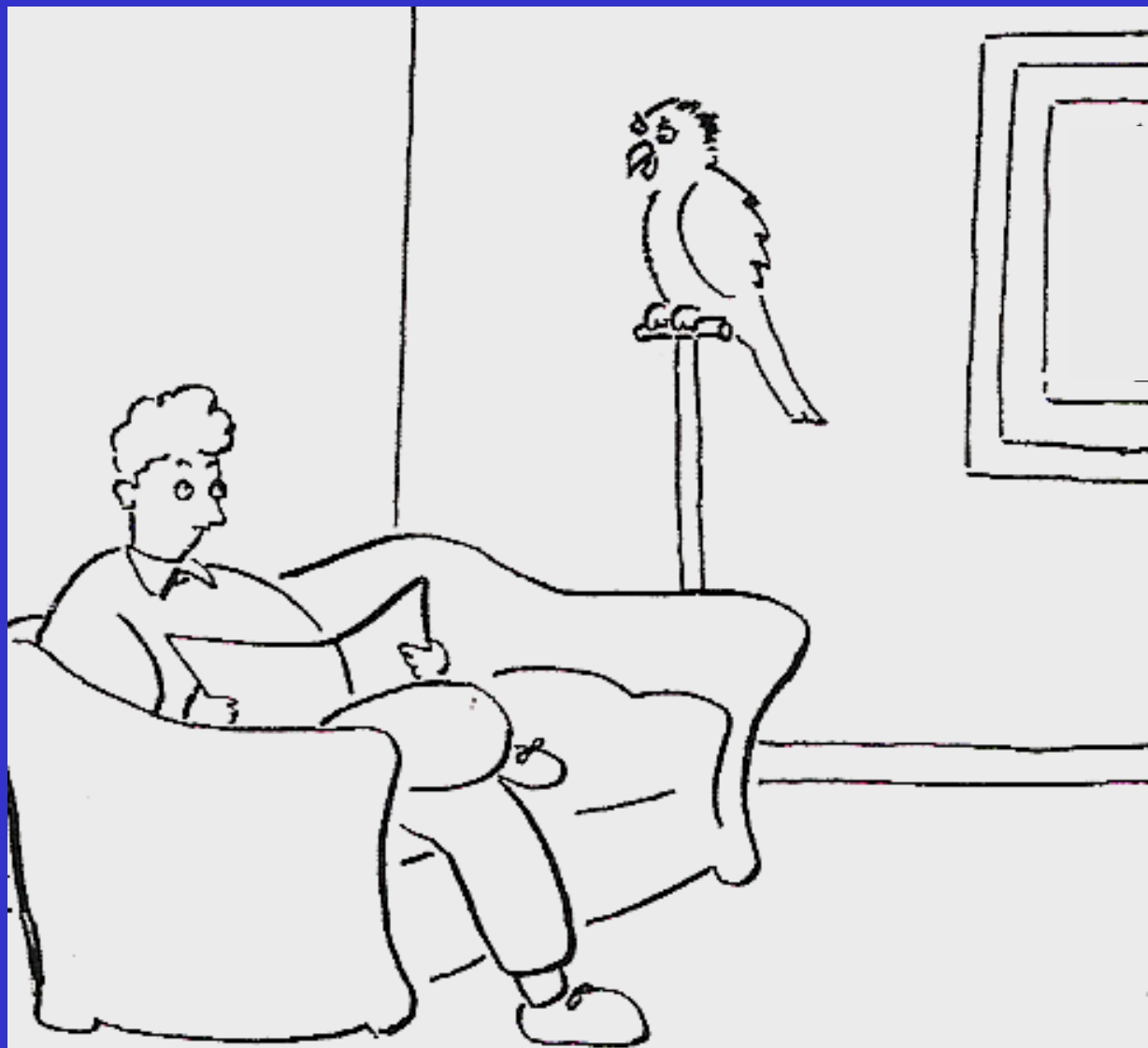


...and it is  
spreading.



**We haven't seen H5N1 bird flu in birds in the US yet, but it is expected to arrive. Alaska may be our entry point...**

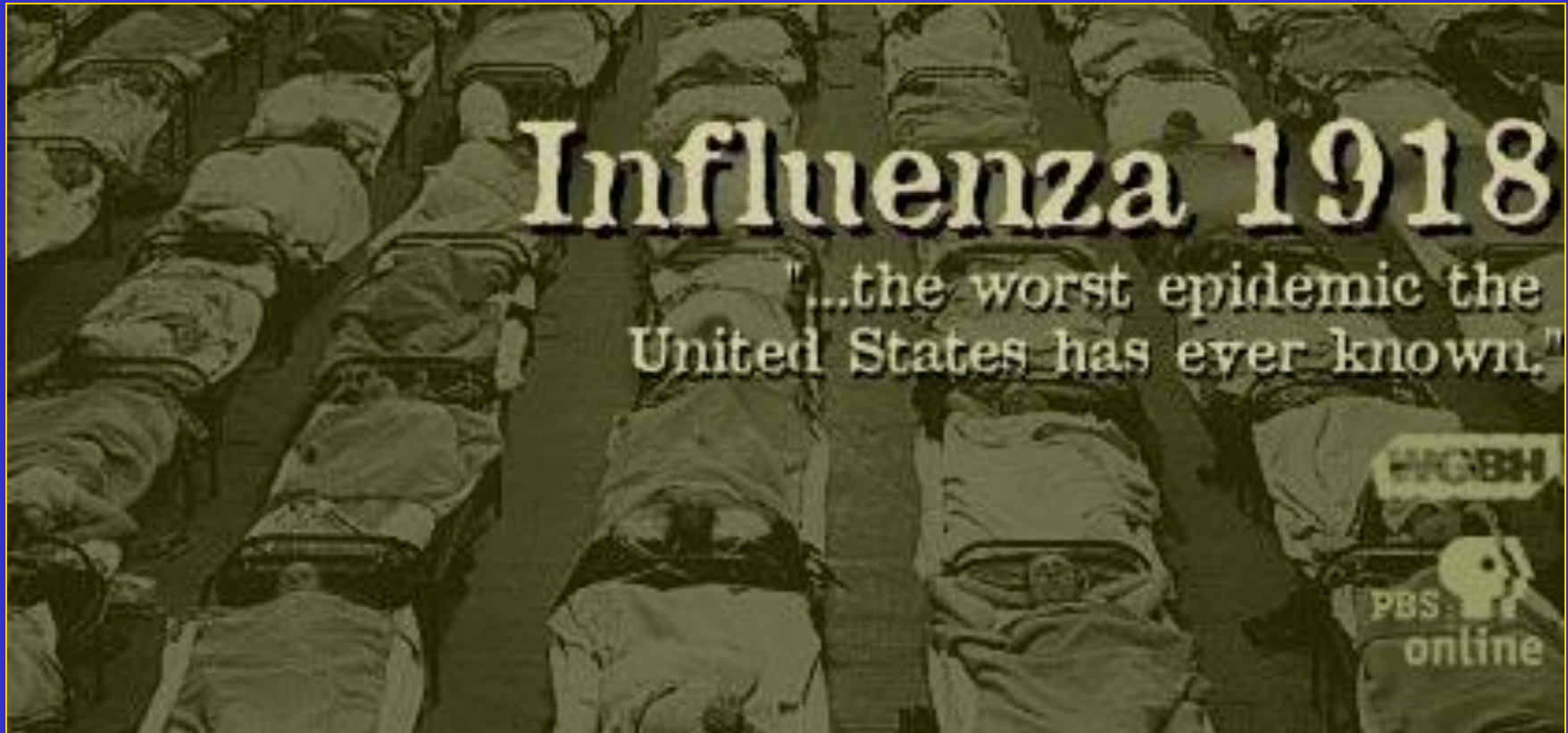




*"Polly wants a flu shot."*

# What's the history?

**The greatest flu epidemic was the 1918 pandemic – the “Spanish Influenza.”**



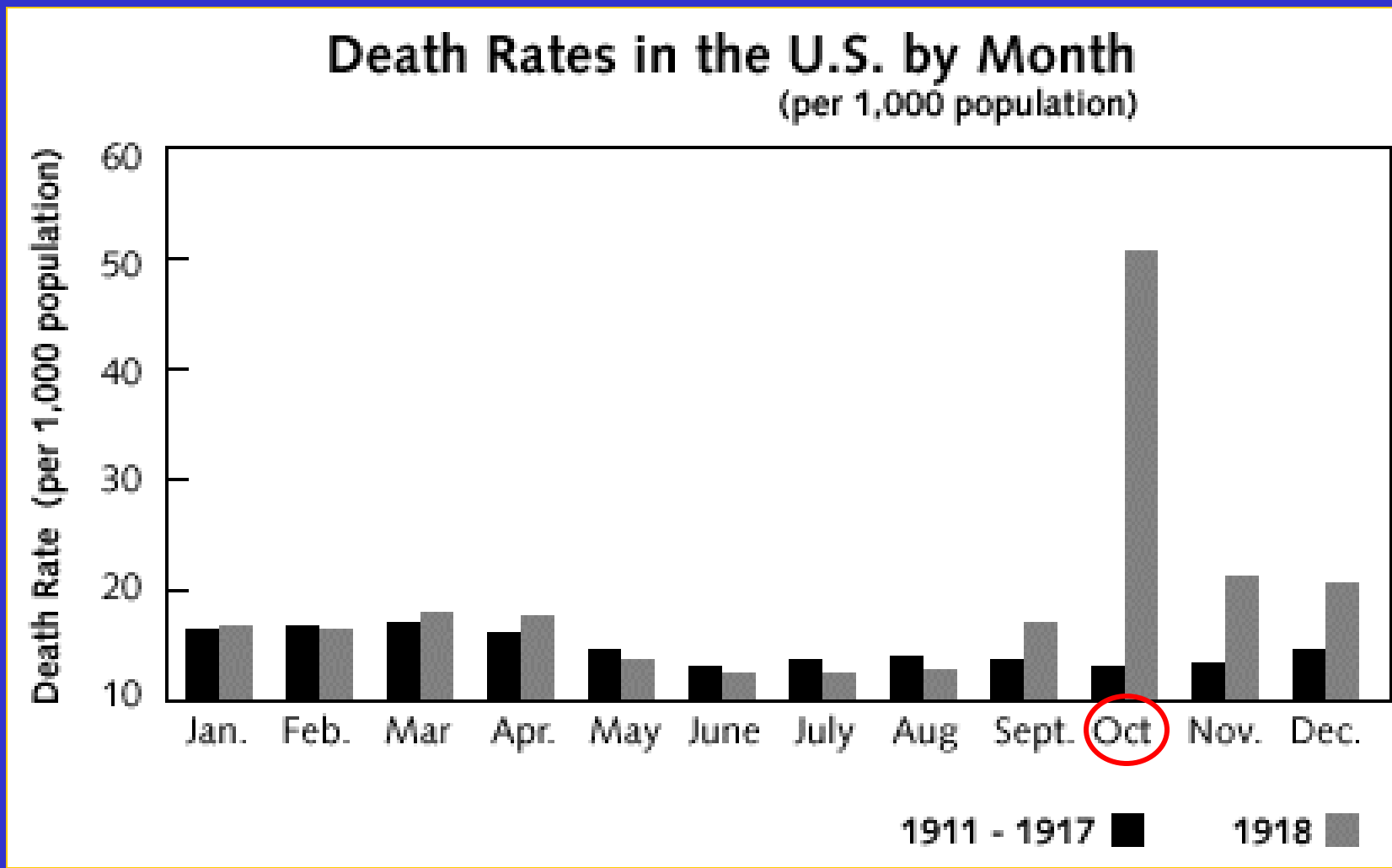
**The 1918 pandemic spread around the world in 4 - 6 months (and across the U.S. in three weeks).**

**There were:**

- **200 million cases**
- **50 million deaths (1/4)**
- **850,000 U.S. deaths (in 10 months)**

**The pandemic mainly affected and killed younger, healthy people – not the elderly.**

# 1918 U.S. Death Rate



**300,000 of the 850,000 deaths occurred in October**

# U. S. Spread of the Epidemic

**Approximate beginning of the epidemic, 1918**



before  
sept. 14

between  
sept. 14 - 21

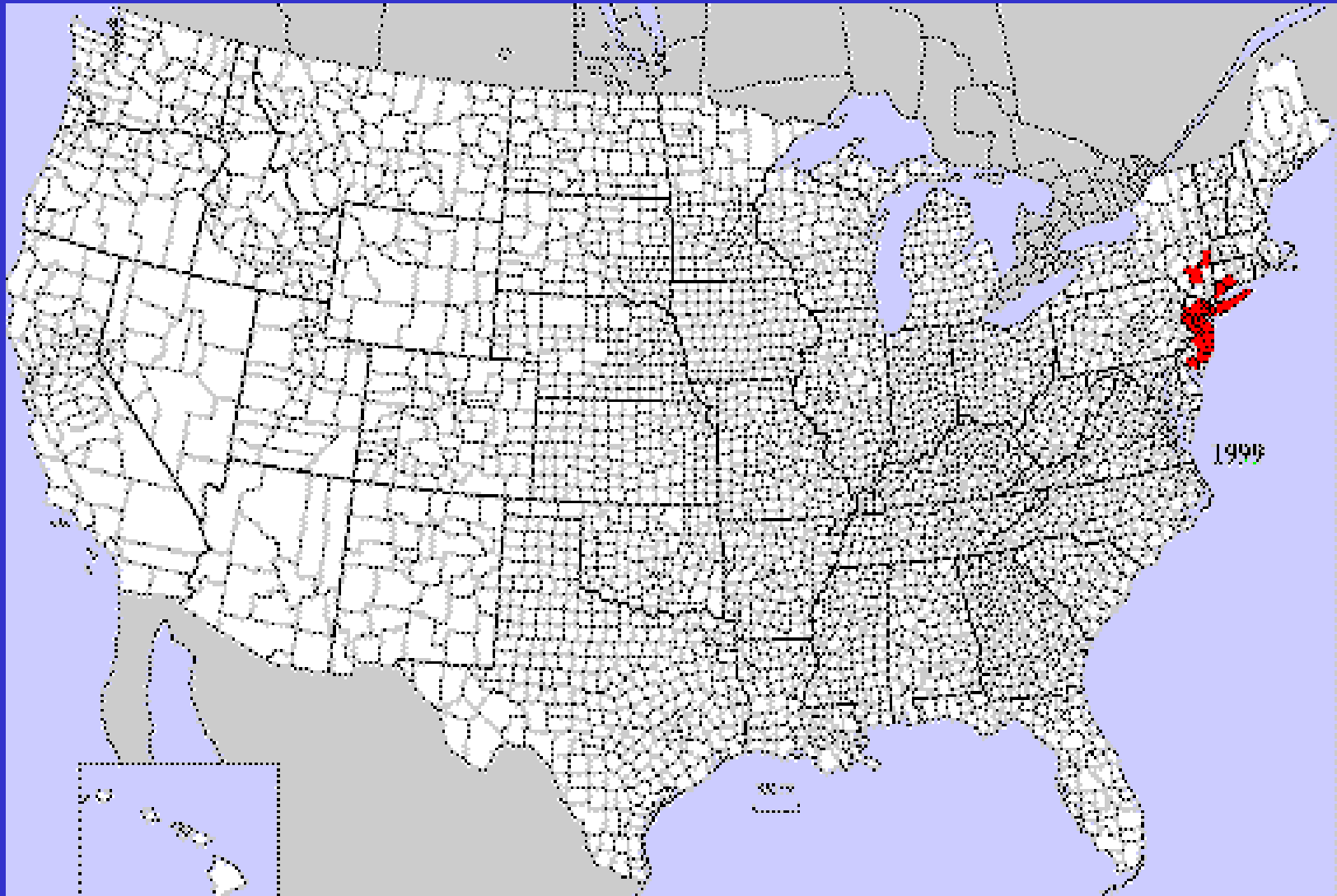
between  
sept. 21 - 28

between  
sept. 28 - oct. 5

after  
oct. 5

**Source: America's Forgotten Pandemic, 1918-1919**

# [Compare that to the spread of the West Nile Virus...]



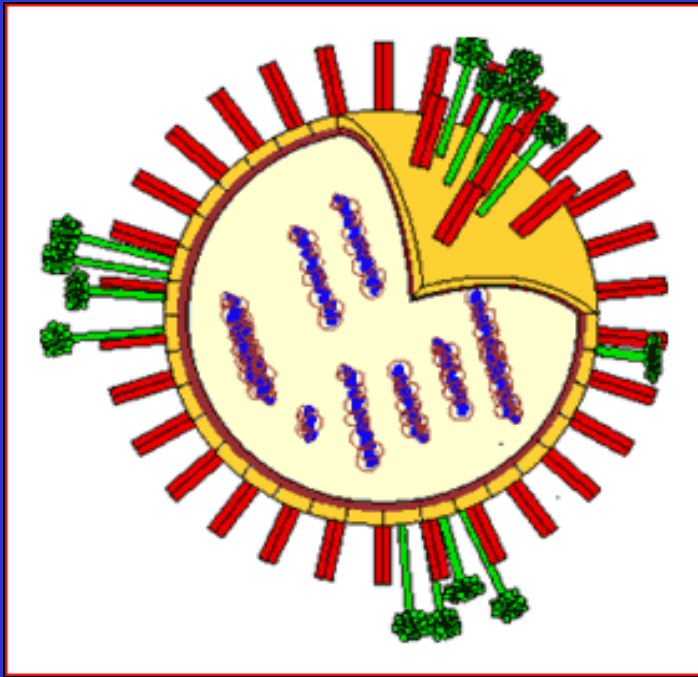
**NIGHT EXTRA** **The Seattle Daily Times**  
 CHURCHES, SCHOOLS, SHOWS CLOSED  
 EPIDEMIC PUTS BAR ON ALL PUBLIC ASSEMBLIES  
 AMERICANS



**GAMES OF IND. SCHOOLS OFF**  
 TERRE HAUTE, IND., Oct. 5.—The football game of Eastern Illinois Normal here with Rose Poly today has been canceled because of the observance of the quarantine rule at Rosa. The game of Franklin college at Purdue university also has been called off, the reason announced being because Franklin could not make the trip to Lafayette, Ind., within the prescribed students' army training corps liberty hours. Butler college will be unable to go to Wabash for that scheduled game.



**The new Avian Influenza virus is genetically more similar to the virus that caused the huge 1918 influenza pandemic than any other flu virus since.**



# But, are we at LESS risk today?

## We have:

- **advances in medical care**
  - **antibiotics, IV fluids, ventilators**
- **greater ability to do surveillance and confirm the diagnosis of flu**
- **rapid means of communication**
  - **internet, TV, radio, e-mail**
- **more effective personal protective equipment**
- **fewer people living in each household, and in more rooms**

# OR are we at MORE risk today?

**Because we also have:**

- **more international travel & trade**
- **increased population density**
- **more elderly and immuno-compromised individuals**
- **a society not used to rationing or sacrifices**
- **retail practices of “just in time” ordering which means limited supplies of medicine, food, etc.**

# What should we expect?

- **An influenza pandemic will happen.**
- **The timing and pattern will be unpredictable – we don't know when it will start**
  - **but we know there will be only a short time from the start of the spread to a full scale pandemic**
  - **and the death rate will be unpredictable.**

# Potential Impact of an Influenza Pandemic in the U.S.: Two Scenarios\*

Characteristic	Moderate (1958/68-like)	Severe (1918-like)
Illness	<u>90 million (30%)</u>	<u>90 million (30%)</u>
Outpatient medical care	45 million (50%)	45 million (50%)
Hospitalization	865,000	9,900,000
ICU care	128,750	1,485,000
Mechanical ventilation	64,875	742,500
Deaths	<u>209,000</u>	<u>1,903,000</u>

\* Estimates based on extrapolation from past pandemics in the United States. Note that these estimates do not include the potential impact of interventions not available during the 20th century pandemics.

Source: HHS Pandemic Influenza Plan

**like the Asian &  
Hong Kong  
Flu Epidemics**

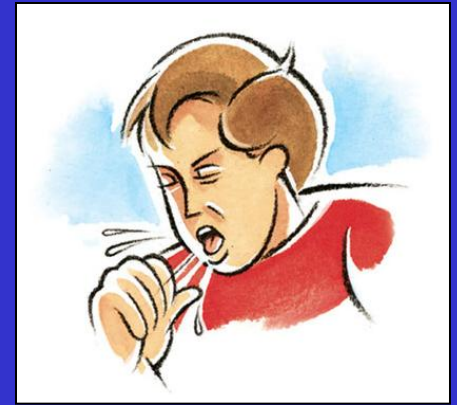
**So far, only limited person to person spread of the virus has occurred**

**(in 2004 mother to child, in 2006 among eight family members).**

**– most people have gotten it through close contact with infected birds.**

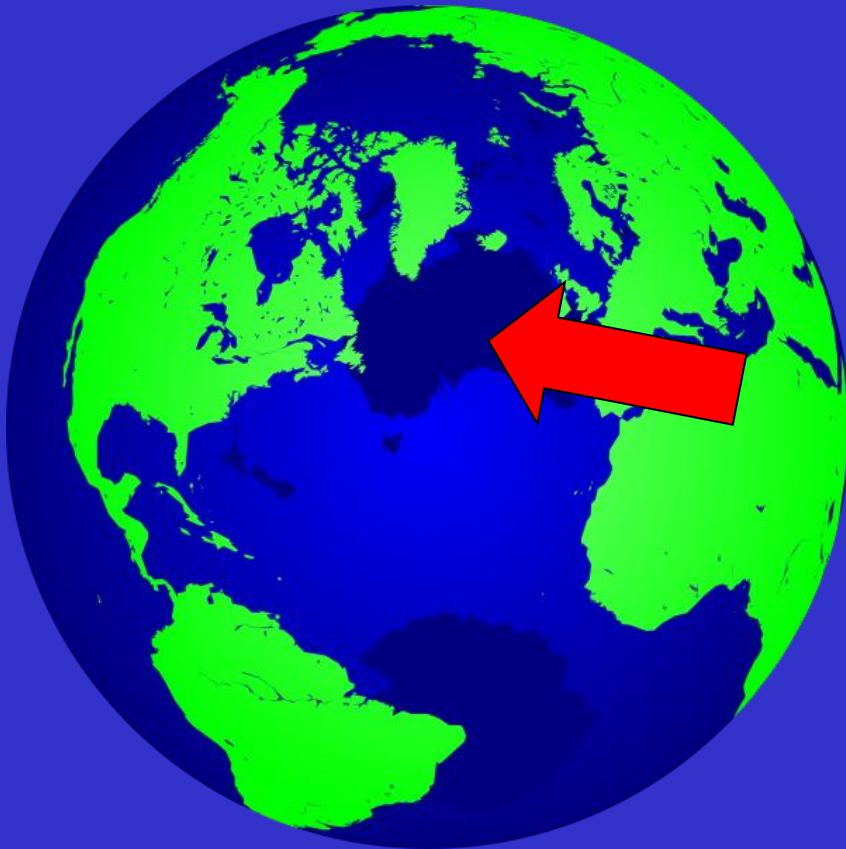


**But virologists believe it is only a matter of time before sustained person-to-person spread of this virus will become possible (through mutations of the virus).**



**When this occurs, a human pandemic is likely to occur.**

**It is predicted that the evolved virus will spread globally in 3 months time, and the illness rate for people will be 30%.**



**Anywhere from 200,000 to 1,900,000 U.S. deaths are predicted – between 0.2 - 2.0%.**

**(a “normal” flu season results in 36,000 flu-related deaths in the U.S. each year)**

**Significant disruption to society and our economy is also predicted.**

# There is currently no Avian Flu vaccine available

– regular flu shots may help lessen symptoms, but will not prevent this flu.



The antiviral **Tamiflu®** may be helpful

- but it might not be available.



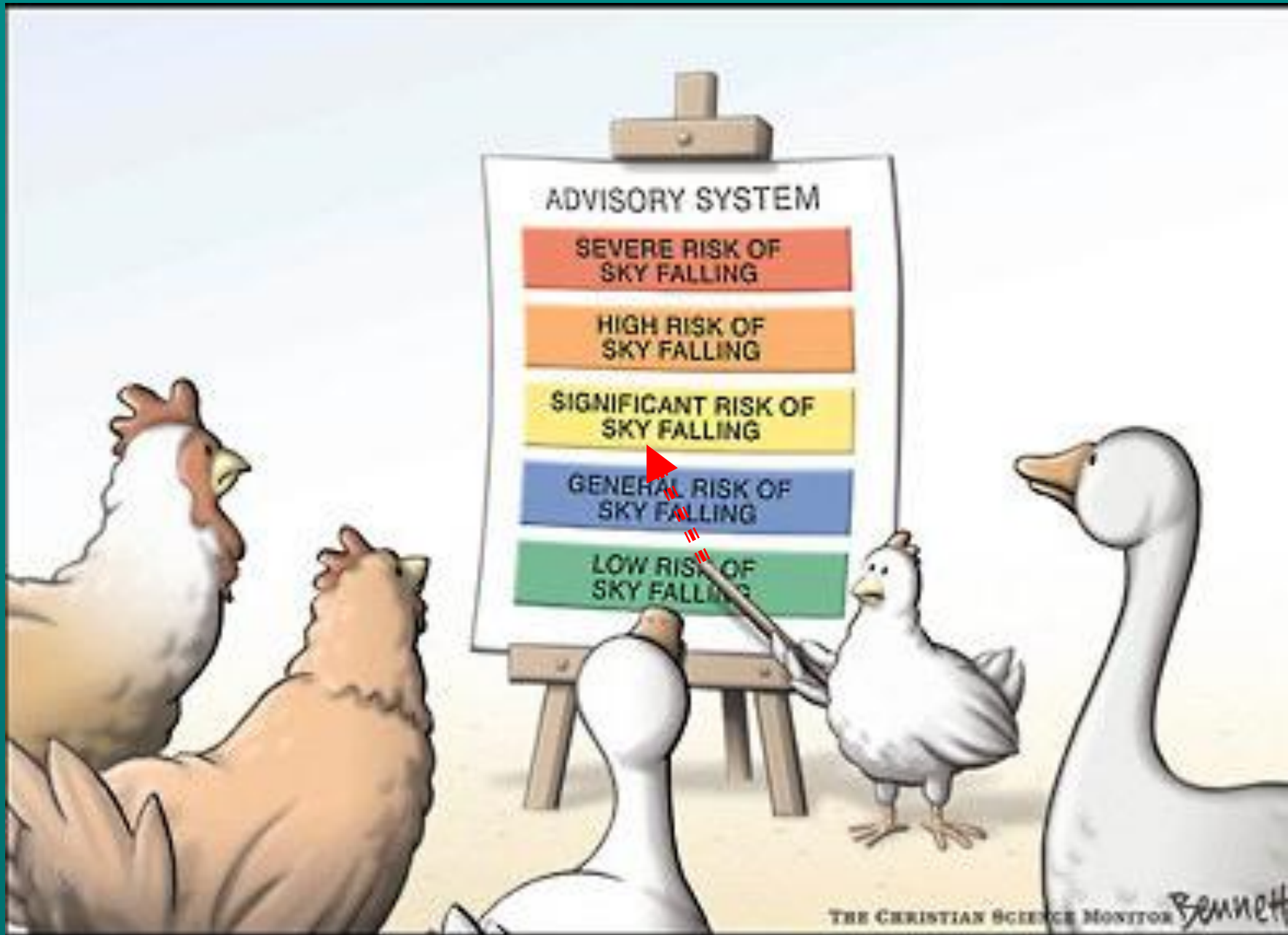
Strategic National Stockpile

# Where are we now??

## World Health Organization (WHO) Alert Phases

<u>Inter-Pandemic</u> <u>Phase</u>	Low risk of human cases	1
New Virus in animals, no human cases	Higher risk of human cases	2
<u>Pandemic</u> <u>alert</u>	No or very limited human-to-human transmission	<u>3</u>
New virus causes human cases	Evidence of increased human-to-human transmission	4
	Evidence of significant human-to-human transmission	5
<u>Pandemic</u>	Efficient and sustained human-to-human transmission	6

➤ **Current state of Alert is Phase 3**



ADVISORY SYSTEM

SEVERE RISK OF SKY FALLING

HIGH RISK OF SKY FALLING


SIGNIFICANT RISK OF SKY FALLING

GENERAL RISK OF SKY FALLING

LOW RISK OF SKY FALLING

# Wyoming Health Dept. Phase 2

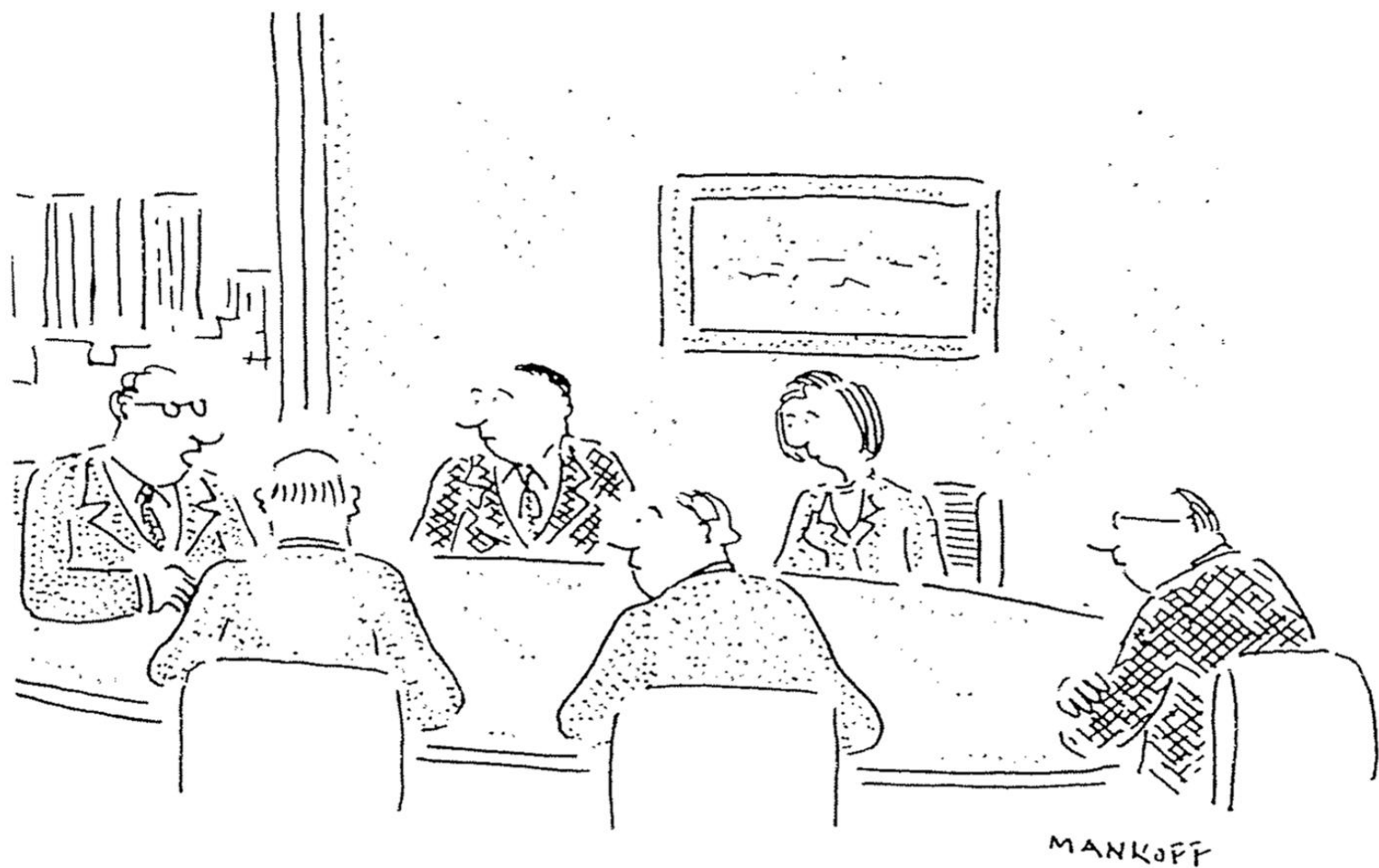
<i>WHO Phase</i>	<i>WY Phase</i>	<i>Description</i>
<b><i>Inter-pandemic (1 &amp; 2)</i></b>	<b>1</b>	<b>No new influenza virus subtypes have been detected in humans.</b>
<b><i>Pandemic Alert (3)</i></b>	<b>2</b>	<b>Human infection with a new subtype, but no human-to-human spread, or at most <u>rare instances of spread to a close contact.</u></b>
<b><i>Pandemic Alert (4 &amp; 5)</i></b>	<b>3</b>	<b>Human-to-human transmission occurring <u>Limited transmission in other countries or US states (but not in WY) or widespread transmission in other countries.</u></b>
<b><i>Pandemic (6)</i></b>	<b>4</b>	<b><u>Widespread transmission in US (but not in WY) and/or limited transmission in WY</u></b>
	<b>5</b>	<b><u>Increased and sustained transmission</u></b>



# What do we at EWC need to do?

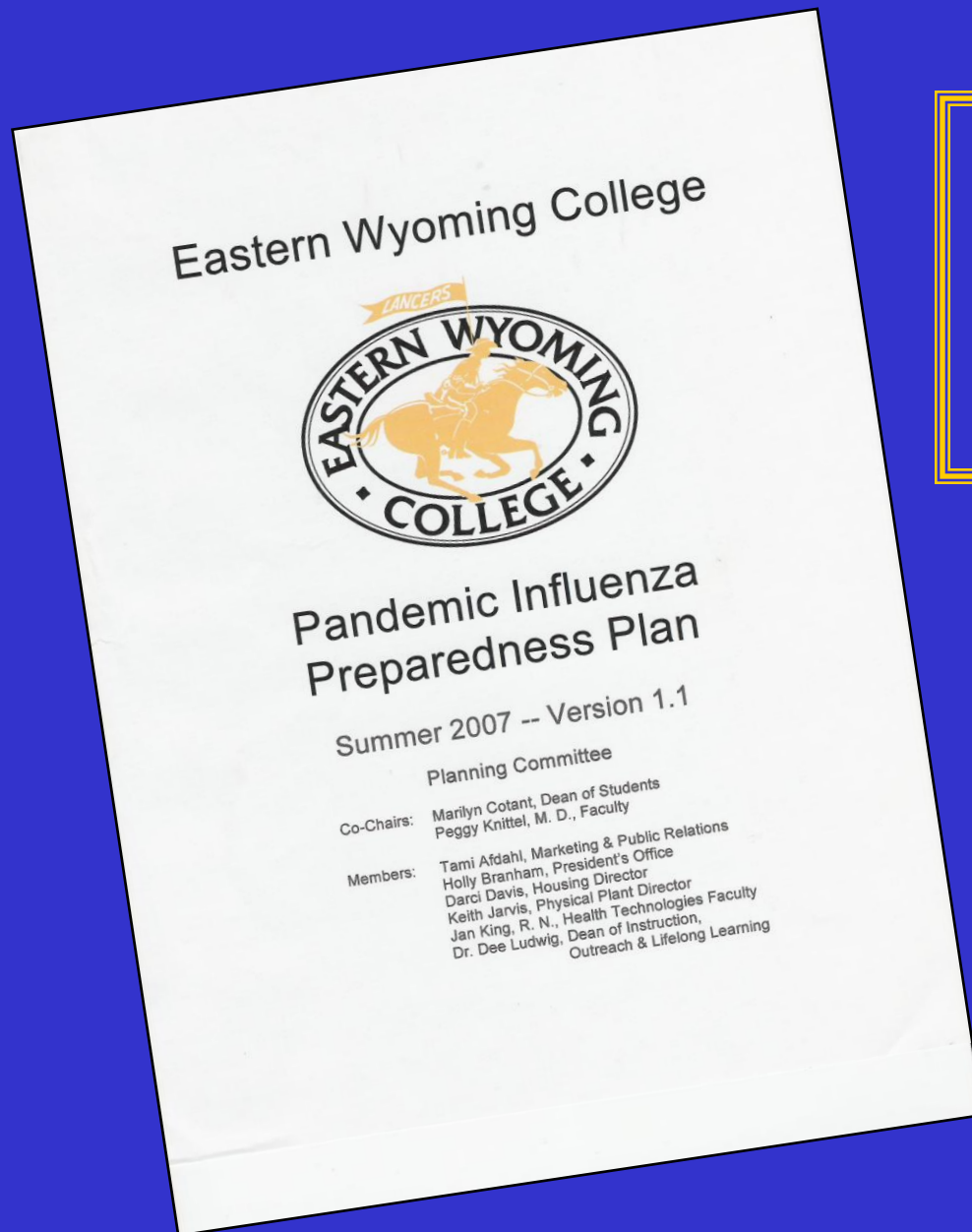
**The time to plan is now...**

**Most experts believe that there will be only one to six months between the identification of sustained human to human spread and the time that widespread outbreaks begin to occur in the U.S.**



*while there's no reason yet to panic, I think it only prudent that we make preparations to panic."*

# Our initial plan is in place.



**Please  
read it on  
the M drive.**

**But  
additional  
planning still  
needs to be  
done by  
various  
departments.**

# Things to Think About

- 1. In the event of an actual pandemic, at what point do we suspend classes? Do we close the college?**

**The decisions whether to suspend classes, when to do so, and for how long will be critical decisions, as will the decision whether to close the college and its outreach locations.**

# **The American College Health Association Guidelines for Pandemic Planning state that:**

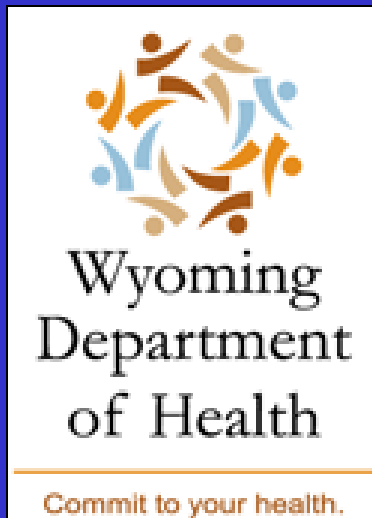
**“...reducing the number of students remaining on campus by cancelling classes and sending students home early in the pandemic may be the best strategy given the limited resources schools will have available to support those who remain.”**

**This is particularly true for community colleges such as EWC which do not have a student health service.**

# **Factors impacting the decision to cancel classes and/or close the college will include:**

- **transmissibility/mortality rates**
- **geographic spread**
- **proximity of confirmed cases**
- **health department recommendations**
- **closure of K-12 schools**

**It is important to note that  
in an actual pandemic we  
will not be acting alone:**



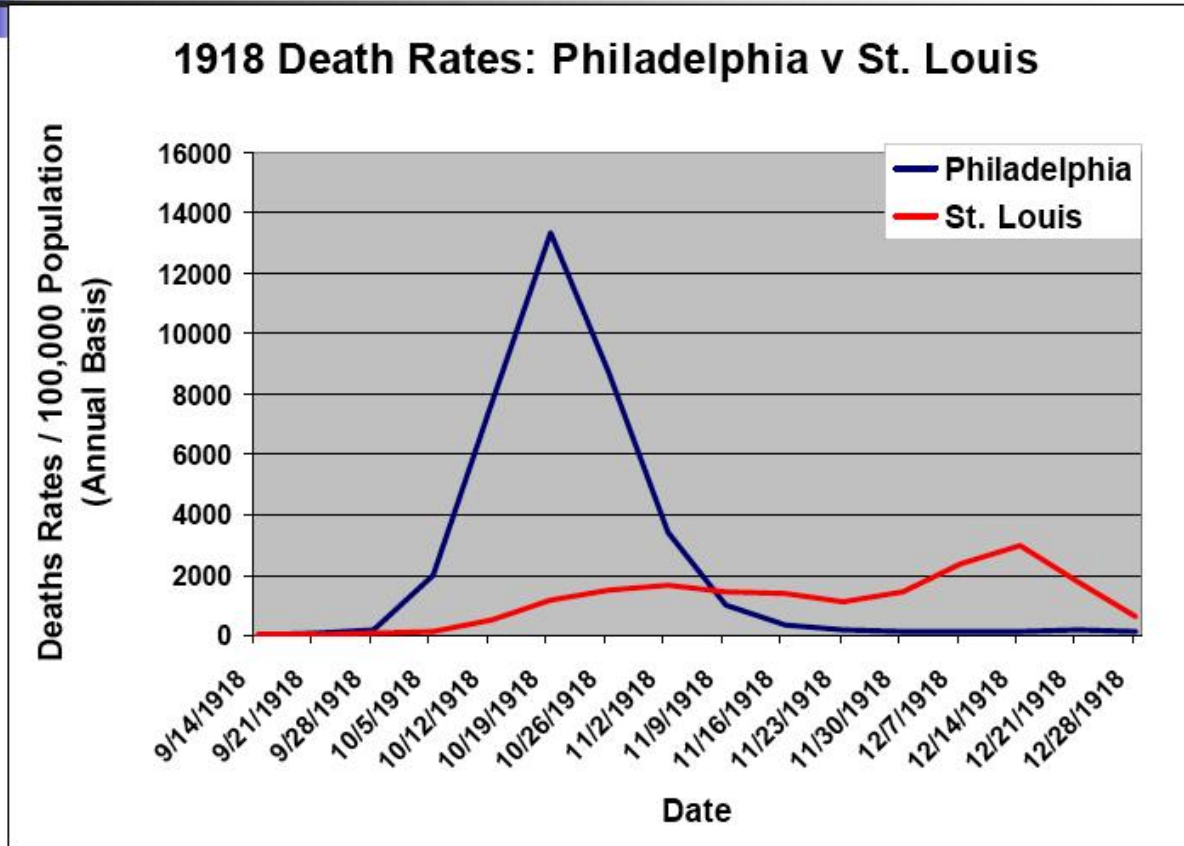
**EWC will coordinate its  
actions with local and  
state Public Health  
departments & emergency  
response agencies.**

**The Governor & the State Health  
Department will have the  
authority to mandate closure.**



**Iowa State University Gym in use as a temporary hospital in the 1918 Influenza Pandemic.**

# Pandemic Influenza Mortality in Two Cities, 1918



**Can you guess which  
community closed schools?**

**2. What “essential services” would need to continue in the event of college closure? How do we staff those?**

**e.g. communications (e-mail/website/phones), computer services, instructional technology, payroll/health insurance, facilities maintenance and security, animal care, etc.**

### **3. How will instructional issues be handled?**

**In a “moderate” pandemic, classes may have to be cancelled for 4 weeks, and in a “severe” threat, for up to 12 wks.**

**Actual plans for course completion will depend on the time frame, and will need to be tailored for individual courses and programs.**

**What about the Douglas campus and other Outreach sites?**

## 4. What sort of Pandemic Flu leave policy is needed?



**Employee absenteeism will be significant (up to 40%) due to illness, the need to care for ill family members, the need to care for children if K-12 schools close, quarantine situations, etc.**

- liberal pandemic leave policies can limit the spread of disease**

## **5. What are the financial issues?**



- do we give students tuition refunds, or extend financial credit for the next term?**
- what if we can't carry out recruiting activities?**
- what if many students fail to return?**
- what about continuation/awarding of financial aid?**

# **So, what is the committee asking us to do, and what's the timeline?**

- 1. You need to read EWC's Pandemic Flu Preparedness Plan (soon).**
- 2. The administration needs to determine "essential services" that would need to continue in the event of college closure – and identify three individuals who will be responsible for/capable of providing the services (by Nov. 2007).**

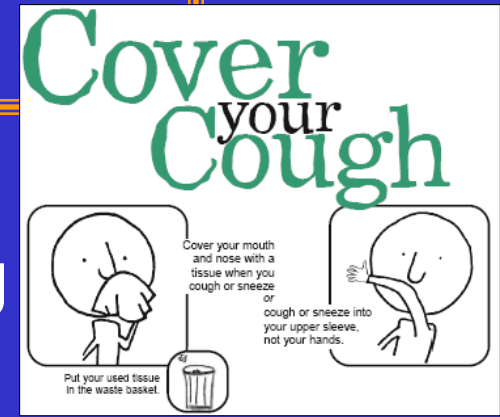
**3. Departments need to hold discussions & submit written Pandemic Preparedness plans by March 2008.**

**Specifically: Instruction, Student Services, Human Resources/Personnel, Physical Plant, Financial Aid, Marketing/Public Relations/Communications, Computer Services, and Instructional Technology**

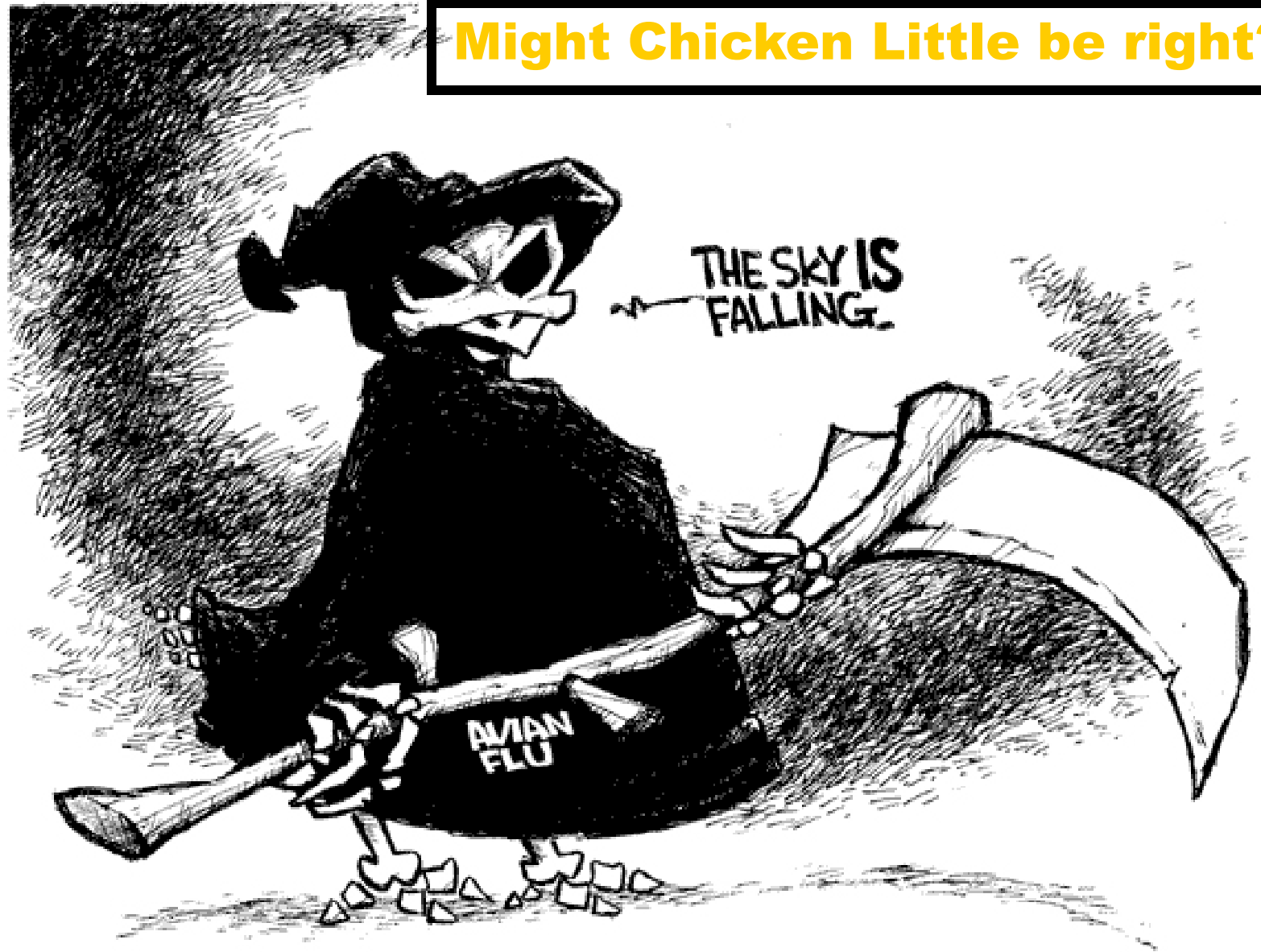
**4. The Planning Committee will monitor the status of pandemic influenza and periodically review/update EWC's plan (ongoing).**

# We all need to do Personal Preparedness Planning

- Get in the habit of covering coughs & washing/sanitizing hands frequently.
- Store an extended (1-2 week) supply of non-perishable food (soup, crackers, tuna, peanut butter, etc.) at home – don't forget food for your pets.
- Store nonprescription drugs and health supplies at home (acetaminophen/ ibuprofen, cough syrup, fluids, tissues, etc.), these items may be impossible to find in a pandemic.
- Discuss plans for caring for ill family members -- and for young children if the K-12 schools are closed.



**Might Chicken Little be right?**

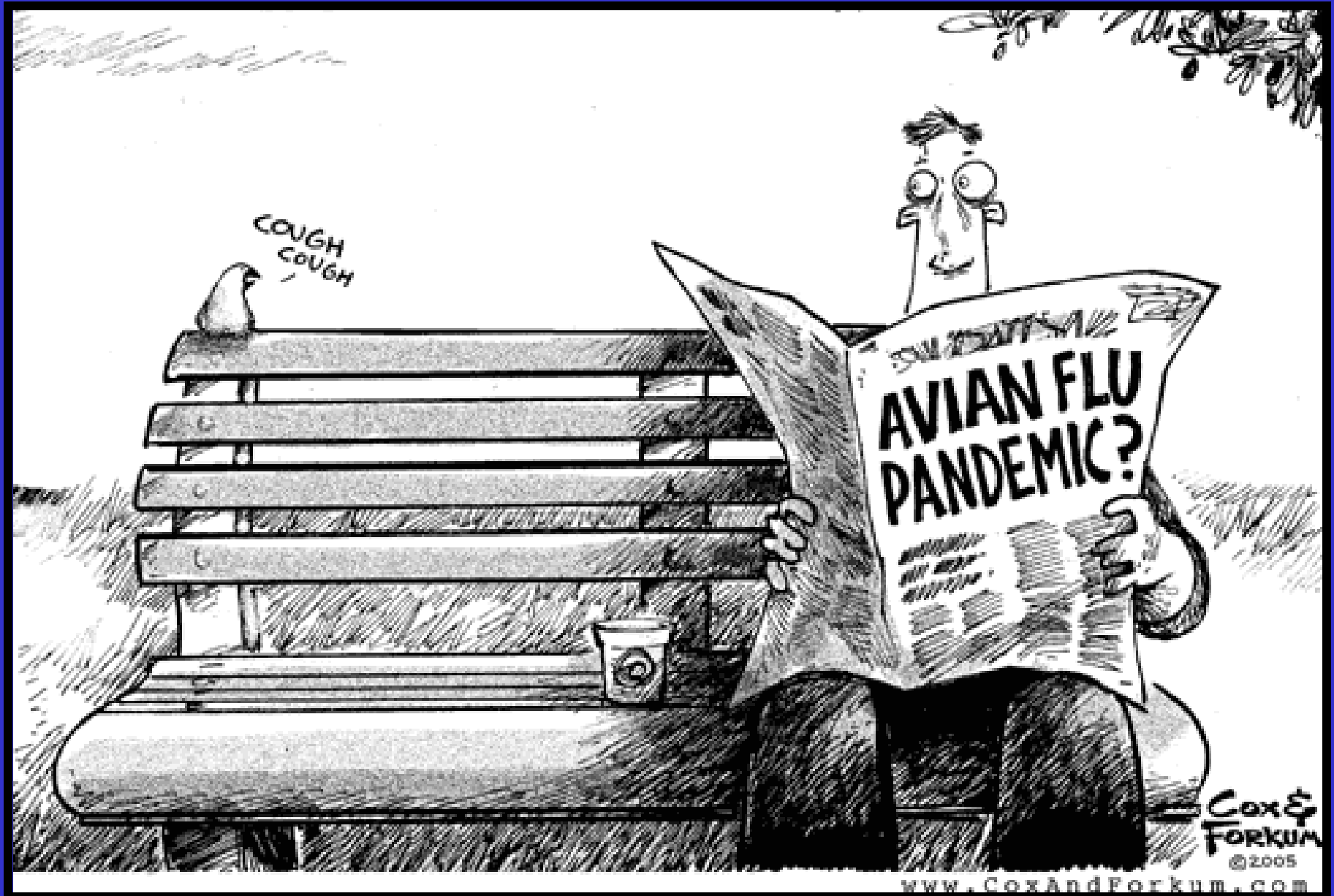


ERIC ARON  
CARICATURES.COM

**More information is  
available at:**



# Questions?



# Are we all going to die?

**Wyoming population – 2006 est. = 515,000**

- **30% infection rate = 154,500 cases in WYO**
- **2% of those fatal = 3,090 deaths in WYO**  
**in 6-8**

**weeks**

**Goshen County pop. – 2006 est. = 12,129**

- **30% infection rate = 3,639 cases in Go. Co.**
- **2% of those fatal = 73 deaths in Go. Co.**  
**in 6-8**

**weeks**

**Torrington population – 2006 est. = 5,776**

- **30% infection rate = 1,733 cases in T-ton**
- **2% of those fatal = 35 deaths in T-ton**  
**in 6-8 weeks**