

# International Labor Rights Forum

ILRF is an advocacy organization dedicated to achieving just and humane treatment for workers worldwide. This resource, created by Mike Schultz, is part of ILRF's Labor Rights in the Classroom resource page for educators. For more information or resources, please visit <http://www.laborrights.org/labor-rights/labor-rights-in-the-classroom>.

## Cocoa Production in Côte d'Ivoire Interpreting Graphs & Data

### Lesson Overview:

Graphs and data can be as revealing as articles and reports. The following questions are designed to help students interpret business and agricultural data from cocoa production in Cote d'Ivoire and investigate the forces and motives behind the data. The questions are merely an outline – not a full lesson plan. They are broken up into three groups – large group introductory discussion, small group investigation, and concluding reflection questions. Some introduction to the issues surrounding cocoa production in Cote d'Ivoire is necessary. The Toronto Star article, “Child labour feeds chocolate trade,” or the articles provided in the lesson resource, may be useful for this.

### Data:

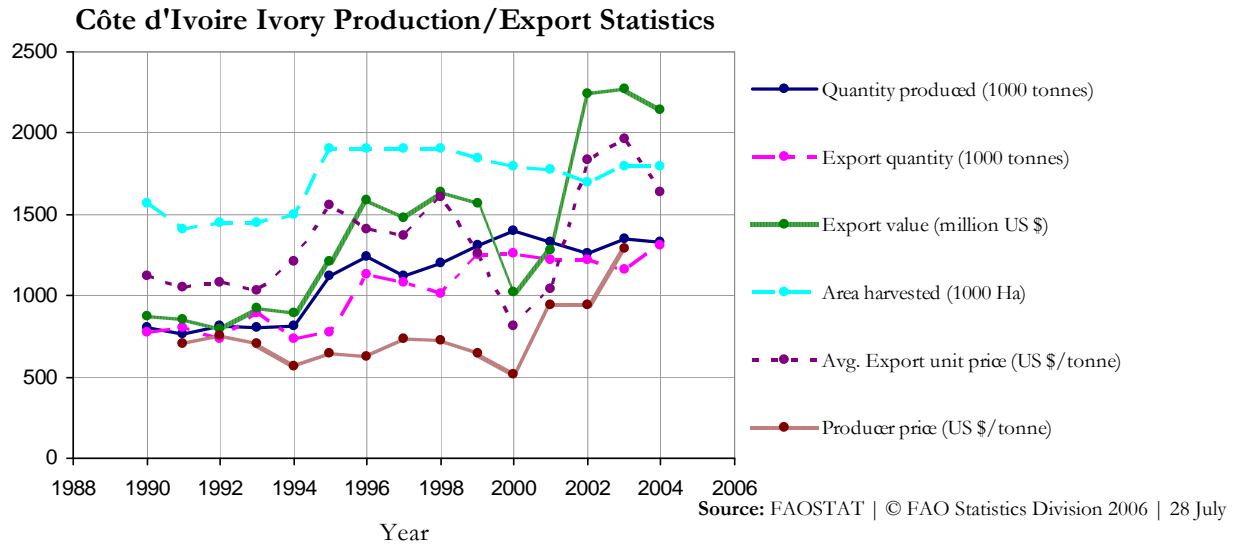
	1990	1991	1992	1993	1994	1995	1996
Quantity produced (1000 tonnes)	807.5	764.71	813.01	803.8	808.66	1,120.00	1,235.30
Export quantity (1000 tonnes)	776.41	808.45	736.04	893.73	731.1	776.59	1,128.50
Export value (million US \$)	870.51	853.55	797.51	922.82	888.16	1,212.52	1,586.42
Area harvested (1000 Ha)	1,566.50	1,412.00	1,450.00	1,450.00	1,500.00	1,900.00	1,900.00
Avg. Export unit price (US \$/tonne)	1,121.20	1,055.79	1,083.51	1,032.55	1,214.83	1,561.34	1,405.78
Producer price (US \$/tonne)		708.95	755.6	706.31	567.36	641.09	625.55
Producer price (Local Currency/tonne)		200,000.00	200,000.00	200,000.00	315,000.00	320,000.00	320,000.00
Number of undernourished persons (millions)	2.5447	2.1847	2.1706	3.1447	3.0847	2.1706	2.5447

FAOSTAT | © FAO Statistics Division 2006 | 28 July 2006

	1997	1998	1999	2000	2001	2002	2003	2004
Quantity produced (1000 tonnes)	1,119.11	1,201.00	1,306.15	1,395.98	1,330.00	1,264.71	1,351.55	1,331.49
Export quantity (1000 tonnes)	1,080.07	1,016.73	1,247.87	1,260.03	1,223.08	1,221.23	1,157.09	1,306.42
Export value (million US \$)	1,480.48	1,635.00	1,567.23	1,021.89	1,278.98	2,244.93	2,272.22	2,139.40
Area harvested (1000 Ha)	1,900.00	1,900.00	1,850.00	1,800.00	1,777.55	1,700.00	1,800.00	1,800.00
Avg. Export unit price (US \$/tonne)	1,370.73	1,608.10	1,255.92	811	1,045.70	1,838.25	1,963.74	1,637.61
Producer price (US \$/tonne)	736.72	728.87	649.67	511.25	942.65	945.5	1,288.05	
Producer price (Local Currency/tonne)	430,000.00	430,000.00	400,000.00	364,000.00	691,000.00	659,000.00	748,614.00	
Number of undernourished persons (millions)	2.1847	1.8706	2.2447	2.4847	2.1706	1.9447	2.4847	2.1706

FAOSTAT | © FAO Statistics Division 2006 | 28 July 2006

# Figure 1



# Figure 2



# Figure 3



## Large Group Discussion Questions

1. What is a farmer's goal in farming cocoa?
2. What is a corporation's goal in buying cocoa? To whom do corporate executives report to?
3. What is a government's goal for agriculture?
4. What is stock price? What factors affect whether a stock rises or falls?

## Small Group Investigation Questions

5. In your own words explain what each of the lines in the graph represents.

Quantity Produced –

Export Quantity –

Export Value –

Area Harvested –

Average Export Price –

Producer Price –

6. Fill in the chart below, indicating whether a rise or fall in each category would benefit the farmer, the corporation, and/or the country.

	Rise	Fall
Quantity Produced		
Export Quantity		
Export Value		
Area Harvested		
Avg. Export Price		
Producer Price		

7. Looking at Figure 1, which graphs appear to be closely related? Mark relations with an X in the appropriate box in the chart below.

	Export Quantity	Export Value	Area Harvested	Avg. Export Price	Producer Price
Quantity Produced					
Export Quantity					
Export Value					
Area Harvested					
Avg. Export Price					

8. For each X you placed in the chart above, give a reason why you think they might be related.
9. What caused the increase in area harvested in 1994?
10. Look at the period from 1997 to 2000. Why would quantity of cocoa produced increase as the producer price decreased?
11. Why is the average export price always less than the producer price? What could account for this difference?
12. Now look at figure 2. What does the data in figure 1 affect figure 2? Do the effects of figure 1 show up in figure 2 in the same year? Explain why or why not?
13. Why did Nestle's stock price increase so dramatically from 1996 to 1998?
14. Why did Nestle's stock price increase from 2000 to 2001?
15. Which period of increase for Nestle did the cocoa farmers probably benefit more from? Support your answer with data from figure 3.
16. What effect did the 2001 deal have on the cocoa industry and Nestle?

## Reflection Questions

1. In what ways was Nestle's involvement in Cote d'Ivoire positive? In what ways was Nestle's involvement negative?
2. What could be done to make cocoa production more beneficial for the people of Cote d'Ivoire? For Nestle and chocolate producers? For all parties?