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#### Full length article

## ASSESSMENT OF FARMERS' KNOWLEDGE REGARDING CHILD LABOR IN AGRICULTURE: A CASE STUDY OF COTTON GROWERS IN DISTRICT BAHAWALPUR

M. Zeeshan\*, U. Tariq, A. H. Makhdoom, A. Imran, L. A. Khan and Nawabudin

Sustainable Agriculture Program, World Wide Fund for Nature – Pakistan (WWF-Pakistan)

#### ABSTRACT

The work which affects the education, dignity and health of a child is known as child labor. It exists in agriculture sector of Pakistan mostly in the form of hazardous work. The main objective of the study was to investigate the degree of knowledge of cotton growers on child labor issue with special reference to Decent Work of International Labor Organization (ILO). The study was conducted in Bahawalpur district where Decent Work has been implemented by World Wide Fund for Nature (WWF)-Pakistan since 2013 as a part of its Sustainable Agriculture Program. Three categories of farmers were identified among a total of 388 selected cotton growers i.e. Farmers having high level of awareness, farmers having basic level of awareness and farmers having no awareness of child labor. Farmers were also categorized into three groups on the basis of their land holding i.e. (Category 'a') 1-7 acres, (b) >7-20 acres and (c) >20-50 acres. The data was analyzed through descriptive statistical method. Among category 'a' 7.5%, 88.7% and 3.7% of the farmers had advance, basic and no awareness, respectively. Among category 'b' 7.2%, 88.5% and 4.2% farmers had advance, basic and no awareness, respectively. Among category 'c' 5.8%, 90.2% and 3.9% farmers had advance, basic and no awareness, respectively. Since there was a large proportion of those farmers who have only basic level of awareness on child labor among all the three land holding categories, therefore, there is a need to educate farmers on preventing child labor at their farms to promote sustainable cotton.

KEYWORDS: Child labor, cotton farming, hazardous work, education, pesticide hazards

\*Corresponding author: (Email: zeeshanqureshi1986@gmail.com)

#### **1. INTRODUCTION**

According to International Labor Organization (ILO) "child labor is any activity other than play or study, paid or unpaid which is performed by child of the age of 15 or 14 in some countries" [1]. Rana [2] defines child labor as "The participation of school age children (5-15 years) in the labor force i.e. work for wage or in house hold enterprises to earn a living for themselves or to support household income. "Child labor, is, generally speaking, work that harms them or exploits them in some way (physically, mentally, morally or by blocking access to education and normal health growth)" [3].

ILO reported under the International Program on Elimination of Child labor that about 300 million children between the age 5-17 are engaged in some kind of child labor worldwide i.e. more than 200 million are laborers and 125 million are involved in hazardous work [4]. One of the most dangerous sections involving child labor and under regulated economic sector worldwide for all workers is in agriculture; about 70% of child labor happened in agriculture sector i.e. children of 5-14 years. Child labour in agriculture sector creates many problems; some of them are mentioned below [5]:

- i. Muscle injuries due to carrying heavy loads
- ii. Poisoning, allergy and other health problems due to exposure to pesticides and pesticides application as well.
- iii. Injuries from handling heavy machinery

Globally Pakistan stands at 3<sup>rd</sup> position in the world about occurrence of child labor [6]. Accordina to of International report Programme on the Elimination of Child labor, scenario about child labor in agriculture sector of Pakistan showed that about 90% children working in crops performing different tasks, and about 84% of children are directly or indirectly involved in cotton sector although these children were dropped out or not attended school that fall directly under school [7]. The main objective of the study was to assess the knowledge of cotton growers because prevalence of child labor is highest in cotton farming amongst all agricultural crops. The present study provided deep insight of current scenario of child labor in main cotton growing belt of Pakistan (District Bahawalpur).

## 2. METHODOLOGY

The research was conducted with the registered farmers of WWF-Pakistan in the year 2014 at district Bahawalpur, Pakistan. The farmers were categories in three groups according to their land holding .i.e. category 'a' (1-7 acres), category 'b' (7-20 acres) and category 'c' (20-50) acres. A total of 388 farmers were assessed about their knowledge regarding child labor. For this purpose a survey, using 10 different pictorial tools elaborating different

forms of child labor in cotton farming was conducted which are

- Spraying Pesticides
- Carrying Cotton Loads
- Children working with dangerous tools
- Children tackling animals for agriculture utility
- Hard field work
- Seed Treatment
- General good practice
- Importance of Education for children
- Weeding
- Children working Around Machines

The farmers of three categories were asked whether they have knowledge about the child labor or not, and then evaluate the level of awareness which was categorize as

- Advance level: Farmers having good knowledge and adopting procedure
- Basic level: Farmers having knowledge about the practices
- Low level: Farmers having no or low level of awareness

A scale is given in table 1 to categorize the level of the farmers based on the pictorial form.

## 2.1 Statistical Analysis

The data was analyzed through descriptive method to find out the percentages.

#### Table 1: Evaluation Scale.

		Evaluar	ion Scale	
Sr. No.	Pictogram	Advance	Basic	Low
1	Spraying Pesticide	Spraying	Giving wrong	Work is acceptable
		pesticide is	reasons.	
		hazardous		
2	Carrying cotton load	Carrying load is	According to	Farmer does not identify it as
		hazardous.	farmer work is	hazardous task
			hazardous but	
			reason provided is	
			wrong child is	
			working too hard.	
3	Children working with	Farmer identify	Farmer give reason	Farmer does not think that it is
	dangerous tools	that working with	that the sharp tools	hazardous.
		sharp tools as	may not be	
		hazardous.	hazardous and	
			that they may be	
			under some	
			conditions.	
4	Children tackling	Farmer Answer	Farmer give the	Farmer does not think that it is
	animals for agriculture	that it is	reason that the	hazardous.
	utility	dangerous for	child is handling	
		children.	animal in wrong	
			way.	
5	Hard Field work	Farmer	Farmer give wrong	Farmer does not think that it is
		emphasizing the	reason for this.	hazardous.
		need to limit		
		intensity of work		
		for children.		
6	Seed Treatment	Farmer identify it	Farmer identify this	Farmer does not think that it is
		as hazardous task	as hazardous task	hazardous.
		because it is of	but does not	
		inappropriate to	reason properly as	
		handle by	the child is	
		children.	handling	
			pesticides.	
7	General Good	Farmer does not	Identifies the	Farmer incorrectly identify the
	Practices	identify any task	importance of	working of children as
		as hazardous and	supervision.	hazardous.
		identifies the		

importance of

		the supervision.		
8	Importance of	Farmer identifies it	Farm just identify it	Farmer disagrees and take is
	Education for children	as good practice	as the good	as the wrong to attend the
		that children are	practice.	school whither there is work
		not working		on farm.
		during school		
		hours.		
9	Weeding	Bending during	work is too hard for	Task is not hazardous.
		work could	the child	
		damage his		
		back.		
10	Children working	Working with and	According to	Farmer does not think that
	Around Machines	around the	farmers work is	machines are hazardous for
		machines is	hazardous but	children.
		hazardous for	giving wrong	
		children.	reason	

### 3. **RESULTS AND DISCUSSIONS**

The present research revealed the following results:

Table 2: Farmers' knowledge regarding Child Laborfor "Spraying Pesticide".

	Spraying Pesticides				
Sr.	Land	Advance	Basic Level	Low Level of	
No.	holding	level of	of	Awareness	
	(acres)	awareness	Awareness	(%age)	
		(%age)	(%age)		
1	'Category	18.2	77.9	3.8	
	a' (1-7)				
2	'Category	15.0	81.9	3.0	
	b'(7-20)				
3	'Category	24.3	72.9	2.7	
	c'(20-50)				

Table 2 shows the data collected for the knowledge of farmer regarding the children dealing with spraying pesticides. The results reveal that 18.2%, 77.9% and 3.8% of total famers of 'category a' having advance, basic and low level of knowledge respectively. Whereas 15.0%, 81.9% and 3.0% of total famers of 'category b' having advance, basic and low level of knowledge respectively while 18.0%, 54.0% and 2.7% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

Table 3: Farmers' knowledge regarding Child laborfor "Carrying Cotton Loads".

	Carrying Cotton Loads				
Sr.	Land	Advance	Basic Level of	Low Level	
No.	holding	level of	Awareness	of	
	(acres)	awareness	(%age)	Awareness	
		(%age)		(%age)	
1	'Category	4.9	91.7	3.3	
	a' (1-7)				
2	'Category	6.0	91.7	2.2	
	b'(7-20)				
3	'Category	5.4	89.1	5.4	
	c'(20-50)				

Table 3 shows the data collected for the knowledge of farmer regarding the children in carrying cotton loads. The results indicate that 4.9%, 91.7% and 3.3% of total famers of 'category a' having advance, basic and low level of knowledge respectively. Whereas 6.0%, 91.7% and 2.2% of total famers of 'category b' having advance, basic and low level of knowledge respectively while 5.4%, 89.1% and 5.4% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

 Table 4: Farmers' knowledge regarding "children

 working with dangerous tools".

	Dangerous tools				
Sr.	Land	Advance	Basic Level	Low	
No.	holding	level of	of	Level of	
	(acres)	awareness	Awareness	Awaren	
		(%age)	(%age)	ess	
				(%age)	
1	'Category	4.9	89.5	5.5	
	a' (1-7)				
2	'Category	7.5	87.9	4.5	
	b'(7-20)				
3	'Category	1.3	97.2	1.3	
	c'(20-50)				

Table 4 shows the data collected for the knowledge of farmer regarding the children working with dangerous tools. The results indicate that 4.9%, 89.5% and 5.5% of total famers of 'category a' having advance, basic and low level of knowledge of respectively. Whereas 7.5%, 87.9% and 4.5% of total famers of 'category b' having advance, basic and low level of knowledge respectively, while 1.3%, 97.2% and 1.3% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

Table 5: Farmers' knowledge regarding "Childrentackling animals for agriculture utility".

	Tackling animals for agriculture utility				
Sr.	Land	Advance	Basic Level	Low Level	
No.	holding	level of	of	of	
	(acres)	awareness	Awareness	Awarene	
		(%age)	(%age)	SS	
				(%age)	
1	'Category	3.3	91.7	4.9	
	a' (1-7)				
2	'Category	5.2	90.2	4.5	
	b'(7-20)				
3	'Category	2.7	95.9	1.3	
	c'(20-50)				

Table 5 shows the data collected for the knowledge of farmer regarding children tackling animals for agriculture utility. The results indicate that 3.3%, 91.7% and 4.9% of total famers of 'category a' having advance, basic and low level of knowledge of respectively. Whereas 5.2%, 90.2% and 4.5% of total famers of 'category b' having advance, basic and low level of knowledge respectively, while 2.7%, 95.9% and 1.3% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

Table 6: Farmers' knowledge regarding Child labor
for working with "Hard field work".

Hard field work					
Sr.	Land	Advance	Basic Level	Low	
No.	holding	level of	of	Level of	
	(acres)	awareness	Awareness	Awarene	
		(%age)	(%age)	SS	
				(%age)	
1	'Category	3.3	95.5	1.1	
	a' (1-7)				
2	'Category	4.5	91.7	3.7	
	b'(7-20)				

3	'Category	1.3	97.2	1.3
	c'(20-50)			

Table 6 shows the data collected for the knowledge of farmer regarding the children dealing with hard field work. The results reveal that 3.3%, 95.5% and 1.1% of total famers of 'category a' having advance, basic and low level of knowledge respectively. Whereas 4.5%, 91.7% and 3.7% of total famers of 'category b' having advance, basic and low level of knowledge respectively, while 1.3%, 97.2% and 1.3% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

 Table 7: Farmers' knowledge regarding Child labor in

 "Seed Treatment".

Seed Treatment				
Sr.	Land	Advance	Basic Level	Low Level
No.	holding	level of	of	of
	(acres)	awareness	Awareness	Awareness
		(%age)	(%age)	(%age)
1	'Category	8.8	85.6	5.5
	a' (1-7)			
2	'Category	6.0	83.4	10.5
	b' (7-20)			
3	'Category	5.4	83.7	10.8
	c' (20-50)			

The table 7 shows the data collected for the knowledge of farmer regarding the children doing seed treatment. The results reveal that 8.8%, 85.6% and 5.5% of total famers of 'category a' having advance, basic and low level of knowledge respectively. Whereas 6.0%, 83.4% and 10.5% of total famers of 'category b' having advance, basic and low level of knowledge respectively, while 5.4%, 83.7% and 10.8% of total famers of 'category c' having

advance, basic and low level of knowledge respectively.

Table 8: Farmers' knowledge regarding Child labor in"General good practice".

	General good practice				
Sr.	Land	Advance level	Basic	Low Level	
No.	holding	of awareness	Level of	of	
	(acres)	(%age)	Awareness	Awareness	
			(%age)	(%age)	
1	'Category	10.4	85.0	4.4	
	a' (1-7)				
2	'Category	6.0	89.4	4.5	
	b' (7-20)				
3	'Category	2.7	89.1	8.1	
	c' (20-50)				

Table 8 shows the data collected for the knowledge of farmer regarding the child labor in General good practice. The results reveal that 10.49%, 85.08% and 4.41% of total famers of 'category a' having advance, basic and low level of knowledge respectively. Whereas 6.01%, 89.47% and 4.51% of total famers of 'category b' having advance, basic and low level of knowledge respectively, while 2.7%, 89.18% and 8.10% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

Table 9: Farmers' knowledge regarding importanceof "Education" for children.

Importance of "Education" for children						
Sr.	Land	and Advance Basic Level Low Level				
No.	holding	level of	of	of		
	(acres)	awareness	Awareness	Awareness		
		(%age)	(%age)	(%age)		
1	'Category	8.2	91.7	0.0		
	a' (1-7)					
2	'Category	8.2	91.7	0.0		
	b'(7-20)					

3	'Category	4.0	95.9	0.0	
	c'(20-50)				To

The table 9 shows the data collected for the knowledge of farmer regarding importance of education of children. The results reveal that 8.2%, 91.7% and 0.0% of total famers of 'category a' having advance, basic and low level of knowledge respectively. Whereas 8.2%, 91.7% and 0.0% of total famers of 'category b' having advance, basic and low level of knowledge respectively, while 4.0%, 95.9% and 0.0% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

Table 10: Farmers'	knowledge regarding child labor
in "Weeding".	

		Weedi	ng	
Sr.	Land	Advance level	Basic Level	Low Leve
No.	holding	of awareness	of	of
	(acres)	(%age)	Awareness	Awarene
			(%age)	(%age)
1	'Category	4.4	92.8	2.7
	a' (1-7)			
2	'Category	6.0	88.7	5.2
	b'(7-20)			
3	'Category	5.4	93.2	1.3
	c'(20-50)			

 Table 11: Farmers' knowledge regarding "Children working Around Machines".

Children working Around Machines				
Sr.	Land	Advance	Basic Level	Low Level
No.	holding	level of	of	of
	(acres)	awareness	Awareness	Awareness
		(%age)	(%age)	(%age)
1	'Category	8.2	86.1	5.5
	a' (1-7)			
2	'Category	7.5	88.7	3.7
	b'(7-20)			
3	'Category	5.4	87.8	6.7
	c'(20-50)			

Table 11 shows the data collected for the knowledge of farmer regarding children working around machines. The results reveal that 8.2%, 86.1% and 5.5% of total famers of category a' having advance, basic and low level of knowledge respectively. Whereas 7.5%, having advance, basic and low level of knowledge respectively, while 5.4%, 87.8% and 6.7% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

Table 10 shows the data collected for the knowledge of farmer regarding child labor in weeding. The results reveal that 4.41%, 92.81% and 2.76% of total famers of 'category a' having advance, basic and low level of knowledge respectively. Whereas 6.01%, 88.72% and 5.26% of total famers of 'category b' having advance, basic and low level of knowledge respectively, while 5.40%, 93.24% and 1.35% of total famers of 'category c' having advance, basic and low level of knowledge respectively.

# Table 12: Cumulative data about Farmers' knowledge regarding Child labor in Cotton farming.

	Cumulative Data			
Sr.	Land	Advance	Basic Level	Low Level
No.	holding	level of	of	of
	(acres)	awareness	Awareness	Awareness
		%age	%age	%age
1	'Category	7.5	88.7	3.7
	a' (1-7)			
2	'Category	7.2	88.5	4.2
	b' (7-20)			
3	'Category	5.8	90.2	3.9
	c' (20-50)			

Table 12 shows the cumulative data farmer's knowledge regarding child labor in cotton farmina. The data reveal that amona the category 'a' 7.5%, 88.7% and 3.7% of the farmers had advance, basic and low level of awareness, respectively. Among category 'b' 7.2%, 88.5% and 4.2% farmers had advance, basic and low level of awareness. respectively. Among category 'c' 5.8%, 90.2% and 3.9% farmers had advance, basic and low level of awareness, respectively. Since the large proportion of farmers having only the basic level of awareness on child labor. The research reveals that very small proportion of farmers are having advance and low level of knowledge. But the farmers with advance level of knowledge are those farmers small in number or percentages who are adopting aood practices about child labor elimination or eradication. Whereas, for the farmers with low level of knowledge of good practices in this regard question arises about adopting good practices. The possible reason behind the current scenario could be lack of interest in education and poverty as reported by Ameen et al. [8].

## 4. CONCLUSION

There is a deep concern to educate farmers efficiently; the main focus must be on those farmers who fall under the category of low level of knowledge. The task could be done through spreading decent work of ILO working in country like Pakistan where there is immense occurrence of child labor in agriculture sector.

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