

RESULT of TESTING AXLES with a TON WEIGHT, &c.—*continued.*

1. Numbers of Axles Tested.	2. Brand on Axle.	3. Distance between Supports.	4. Height of Fall.	5. Number of Fall.	6. Deflection.	7. Character of Fracture.
J. 2.	Lancaster Wagon Company	5 feet	1 foot 5 inches	1st	$\frac{1}{2}$ inch	Crystalline in middle, white fibre, grey outerspart, three curved cracks.
	"	"	"	2nd	$1\frac{1}{4}$ inch	
	"	axle turned, 180°	"	3rd	$1\frac{1}{2}$ inch	
	"	same position	"	1st	Returned to $\frac{7}{8}$ inch Broke	
K. 3	"	"	"	2nd	$\frac{11}{16}$ inch	Small crystals, white, part fibrous grey
	"	"	"	1st	$1\frac{1}{16}$ inch, total	
	"	axle turned, 180°	"	2nd	$1\frac{1}{16}$ inch, total	
	"	same position	"	1st	Returned to $\frac{7}{8}$ inch Broke	
K. 1	Dunedin Axle	5 feet	"	1st	$\frac{3}{8}$ inch	All fibrous, grey.
	"	"	"	2nd	$1\frac{1}{8}$ inch	
	"	"	"	3rd	$2\frac{1}{4}$ inches	
	"	axle turned, 180°	"	1st	Returned to $1\frac{1}{8}$ inch	
	"	same position	"	2nd	Returned to $\frac{3}{8}$ inch	
	"	"	2 feet	3rd	$\frac{11}{16}$ inch below straight	
	"	"	3 feet	4th	$1\frac{1}{8}$ inch below straight	
	"	"	4 feet	5th	$3\frac{1}{4}$ inches below straight	
	"	"	5 feet	6th	5 inches below straight	
	"	"	6 feet	7th	7 inches below straight	
	"	axle turned, 180°	7 feet	9th	Broke	
	K. 2	"	5 feet	2 feet	1st	
"		"	3 feet	2nd	$2\frac{3}{8}$ inches	
"		"	4 feet	3rd	$4\frac{1}{16}$ inches	
"		"	5 feet	4th	$7\frac{1}{4}$ inches	
"		"	6 feet	5th	Broke	
Old	S. W. & A. Co.	"	1 foot 3 inches	1st	$\frac{1}{2}$ inch	Grey and fibrous.
	"	"	"	2nd	$1\frac{1}{4}$ inch, total	
	"	"	"	3rd	$1\frac{1}{2}$ inch, total	
	"	axle turned, 180°	"	1st	Returned to $\frac{3}{8}$ inch	
	"	same position	"	2nd	Returned to $\frac{1}{4}$ inch	
	"	"	2 feet	3rd	$\frac{1}{2}$ inch below straight	
	"	"	2 feet 6 inches	4th	$1\frac{1}{2}$ inch below straight	
	"	"	3 feet	5th	$2\frac{3}{4}$ inches below straight	
	"	"	3 feet 6 inches	6th	$3\frac{1}{2}$ inches below straight	
	"	"	4 feet	7th	5 inches below straight	
	"	axle turned, 180°	4 feet 6 inches	1st	Returned to $2\frac{1}{4}$ inches	
	"	"	5 feet	2nd	Returned to $1\frac{1}{8}$ inch	
	"	"	5 feet 6 inches	3rd	Returned to 1 inch	
	"	"	6 feet	4th	$2\frac{1}{8}$ inches below straight	
	"	axle turned, 180°	6 feet 6 inches	5th	$4\frac{1}{8}$ inches below straight	
"	"	6 feet 7 inches	1st	Returned to $2\frac{1}{4}$ inches		
"	"	7 feet	2nd	$\frac{1}{2}$ inch below straight		
"	"	7 feet 6 inches	3rd	$3\frac{3}{8}$ inches below straight		
"	"	8 feet	4th	$5\frac{1}{2}$ inches below straight		
"	"	7 feet 6 inches	5th	Broke after 2 foul blows		