



NORTH CAROLINA DEPARTMENT OF LABOR

No. 07-2

OSH DIVISION

Date: 10/2009

OSHNC INDUSTRIAL DATA REPORT

Pages: 3

Industry: Agricultural Services

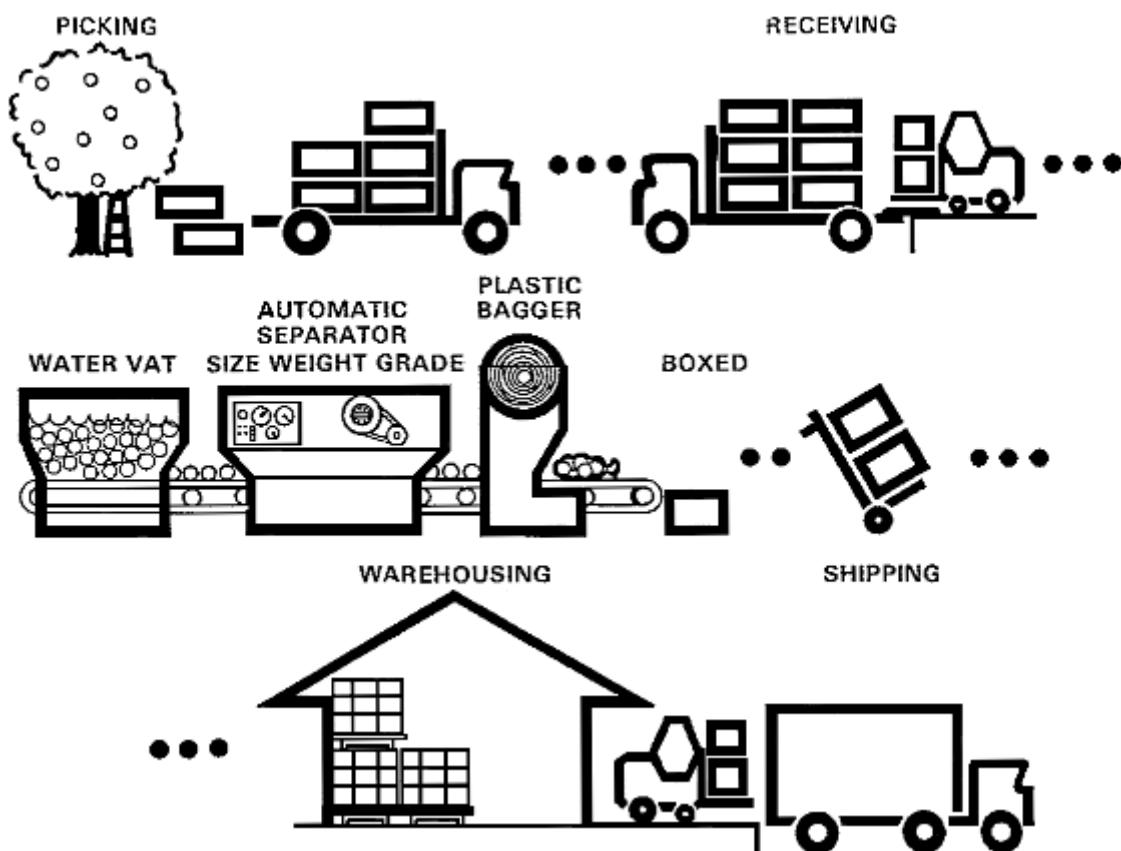
Sub-Group: Contract Sorting, Grading and Packing Fruit and Vegetables

SIC: 0723

NAICS: 115114

PROCESS DESCRIPTION: Fruits and vegetables such as apples, oranges and tomatoes are picked in orchards and fields and transported to sorting, grading and picking sheds. The items are first dumped into floating vats of water. From the floating vats they go on to a conveyor that automatically separates according to size, weight and grade. When the fruits and vegetables reach the end of the first conveyor, they are packed into plastic bags and pasteboard boxes. From there they continue on conveyors and are stacked on wooden pallets and transported by lift trucks or hand trucks to warehouses or directly to trucks at loading docks for transportation to external locations.

PROCESS FLOW:



 <p>NCDOL N.C. Department of Labor</p>	NORTH CAROLINA DEPARTMENT OF LABOR		No. 07-2
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Hazards Analysis

Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Docks	Mechanical handling equipment, chocks and dockboards	Heavy boxes, falling from lift trucks and transportation trucks crushing employees	Packing	Box staple machines	Possible eye and puncture injuries
Conveyors	Chains, sprockets gears, V-belts and flat belts	Amputations and crushed limbs	Warehouse	Aisles marked and boxes stacked and interlocked	Poor stacking, leaning boxes and inoperable mechanical equipment in aisles
Floors	Water from floating systems	Slips, trips and falls;	Throughout	Poor housekeeping	Water, fruits and vegetables on floors resulting in slips, trips and falls
			Warehouse, packing shipping and receiving	forklifts	Carbon monoxide, Accidents, other injuries

Key OSHNC Standards

Reference	29 CFR 1910 — General Industry Standards
Subpart D	Walking and Working Surfaces
Subpart I	Personal Protective Equipment
Subpart O	Machine Guarding
1910.176	Handling Materials - general
1910.178	Powered Industrial Trucks
1910.1000	Air contaminants
1910.1200	Hazard Communication

Inspection Analysis

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The inspection should begin at the unloading dock where fruits and vegetable are received in heavy wooden boxes and emptied into floating vats. Check especially for mechanical handling equipment and walking and working surfaces. Proceed from the floating vats to the conveyor, where special attention should be paid to V-belt drives, chain and sprocket drives and other power transmission guarding. After fruits and vegetables come off the conveyor and are packaged in bags and boxes, attention should be given to the moving of boxes on roll conveyors to wooden pallets and there by forklift trucks to warehouses or shipping trucks. In the warehouse note mechanical equipment and walking and working surfaces.

Other Pertinent Comments: