



# Blackberries

Visual Aids and Inspection Procedures:  
Red Drupelet Disorder

# Blackberries

## New Visual Aid: Red Drupelet Disorder (C)



# Raspberries

## New Visual Aid: Late Leaf Rust (Q)



### LATE LEAF RUST ON RASPBERRIES



**Damage**



**Serious Damage**

**Damage: When affecting more than 2 drupelets.**

**Serious Damage: When affecting more than 5 drupelets.**

# Raspberries

## New Visual Aid: White Drupelet Disorder (Q)



### WHITE DRUPELET



**Damage: When affecting 2 or more drupelets.**

**Serious damage: When affecting more than 5 drupelets.**

# Blackberry

## Grade Standards Revision



United States Department of Agriculture

Marketing and  
Regulatory  
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Agricultural  
Marketing  
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Crops  
Program

Specialty  
Crops  
Inspection  
Division

# United States Standards for Grades of Dewberries and Blackberries

Effective September 6, 2016

# Blackberry

## Red Drupelet Disorder Visual Aid Development



- ▶ Relatively new disorder with undeveloped inspection guidance.
- ▶ U.S. Standards for Grade state the berry must be “Well colored.”
- ▶ Red drupelet disorder was reported as “Not well colored”
- ▶ The rise of Red Drupelet Disorder was noticed by the USDA standards branch.



# Blackberries

## Defect description and Visual Aid Development



# Blackberries

## Defect Description and Visual Aid Reference



### Red Drupelet Disorder (C)

This disorder is specific to blackberries. Red drupelet disorder causes the individual drupelets to be swollen and have a dark or light reddish blue to bright red coloring affecting some but not all of the drupelets in a mostly random pattern. The reasons for this disorder are not completely understood but may be related to transit or storage temperature.

Blackberries harvested with a deep blue or black color can develop this defect after storage. Contributing factors may be due to loss of pigment from water contact or from cultivar-dependent red drupelet disorder.

“Red Drupelet” will be used to describe this defect for both damage and serious damage.

# Blackberries

## Defect Description and Visual Aid Reference

### Scoring Guide

Slight discoloration affecting individual drupelets that are reddish black or reddish blue and blend in color are not considered a defect.

Discoloration that is noticeably bluish red to bright red and do not blend in color will be scored as damage and serious damage. It is important to consider the color and number of affected drupelets. The brighter or more distinct the discoloration, the fewer affected drupelets are allowed.

**Damage:** When materially detracts from the appearance.

**Serious damage:** When seriously detracts from the appearance.

**Visual Aid:** Refer to USDA BLK-1 photo.



# Questions