

## BLM Manual 8431 Visual Resource Contrast Rating

available at <http://www.blm.gov/nstc/VRM/8431.html>

---

### **I. Introduction.**

**A. Overview.** The contrast rating system is a systematic process used by the Bureau of Land Management (BLM) to analyze potential visual impact of proposed projects and activities. It is primarily intended to assist Bureau personnel who are not formally trained in the design arts to apply the basic principles of design in the resolution of visual impacts. It is not intended to be the only means of resolving these impacts. It should be used as a guide, tempered by common sense, to ensure that every attempt is made to minimize potential visual impacts. The basic philosophy underlying the system is: The degree to which a management activity affects the visual quality of a landscape depends on the visual contrast created between a project and the existing landscape. The contrast can be measured by comparing the project features with the major features in the existing landscape. The basic design elements of form, line, color, and texture are used to make this comparison and to describe the visual contrast created by the project. This assessment process provides a means for determining visual impacts and for identifying measures to mitigate these impacts.

---

### **II. Steps in the Contrast Rating Process.**

**A. Obtain Project Description.** To effectively evaluate the visual impacts of a proposed project, a detailed project description is needed. Appendix 1 provides guidance on the type of information needed. The level of detail required in the description should be commensurate with the type of project proposed. This information is usually supplied by the project sponsor for BLM-initiated projects or by the applicant for non-Bureau of Land Management initiated projects.

**B. Identify VRM Objectives.** Use the RMP generated objectives when available. Where there are no RMP approved objectives, interim Visual Resource Management (VRM) classes will be developed using the guidelines in Handbook H-8410-1 except: (1) The inventory will be limited to the area affected by the project; and (2) the VRM classes will reflect the management decision made in existing RMP's. An RMP amendment is not required unless the project that is driving the evaluation requires an amendment.

**C. Select Key Observation Points (KOP's).** The contrast rating is done from the most critical viewpoints. This is usually along commonly traveled routes or at other likely observation points. Factors that should be considered in selecting KOP's are; angle of observation, number of

viewers, length of time the project is in view, relative project size, season of use, and light conditions (see Section IIID2b for a more detailed description of these factors). Linear projects such as powerlines should be rated from several viewpoints representing:

- Most critical viewpoints, e.g., views from communities, road crossings
- Typical views encountered in representative landscapes, if not covered by critical viewpoints.
- Any special project or landscape features such as skyline crossings, river crossings, substations, etc.

D. Prepare Visual Simulations. Visual simulations are an invaluable tool in effectively evaluating the impacts of a proposed project (see Illustration 1). Simulations are strongly recommended for potentially high impact projects. The level of sophistication should be commensurate with the quality of the visual resource and the severity of the anticipated impact. Simulations are extremely important to portray the relative scale and extent of a project. They also help public groups visualize and respond to development proposals, making public participation in the planning process more effective. The BLM publication Visual Simulation Techniques should be consulted for the appropriate simulation methods.

E. Complete the Contrast Rating. Complete contrast rating from key observation point(s) using Bureau Form 8400-4 - Visual Contrast Rating Worksheet (see Illustration 2).

### **III. Requirements for Completing the Contrast Rating Worksheet.**

A. Project Information (Section A). Complete the background information requested. It is important to precisely record the location of the KOP. A sketch of the KOP/project location should be shown in the "location" block. If several different key observation points are used for the project evaluation, give each viewpoint a separate number for reference purposes.

B. Descriptions (Section B and C). To properly assess the contrasts between the proposed and existing situation, it is necessary to break each down into the basic features (i.e., landform/water, vegetation, and structures) and basic elements (i.e., form, line, color, and texture) so that the specific features and elements that cause contrast can be accurately identified. When describing the project, be sure to include approved mitigating measures. Refer to Illustrations 3, 4, 5, and 6 for the suggested vocabulary for describing characteristic landscapes and the proposed projects.

C. Categorizing Projects Under Features (Sections B and C). It is sometimes difficult to determine which type feature a project fits under. Use the following as a guide to categorize projects:

<b><u>Landform/Water Features</u></b>	<b><u>Vegetative Features</u></b>	<b><u>Structural Features</u></b>
Roads	Timber Harvests	Transmission Lines
Mining	Grazing Systems	Generation Plants
Gravel Pits	Vegetative Manipulations	Oil and Gas Developments

Landfills  
 Water Impoundments

Recreation Facilities  
 Water Tanks  
 Microwave Stations  
 Buildings

D. Contrast Rating (Section D). The actual rating should be completed in the field from the KOP(s). It can be done as a team effort or individually, depending on the sensitivity and impacts of the project and the availability of personnel (see Manual Section 8431.12). If done as a team, it is best to do the ratings individually and then compare ratings. A simulation should be available to show scale, relative placement of disturbing features, and other important information necessary to complete an objective rating.

1. Selecting the Timeframe. Projects may be rated on either a short-term or long-term basis. Short-term is through the first 5 years and long-term is through the life of the project. If the project has significantly different short-term and long-term effects, two contrast ratings should be completed using two separate forms. Check the appropriate block under section D on the rating form to indicate the term of the rating.

2. Rating the Degree of Contrast (Section D1). Using the matrix provided in section D of the form, rate the degree of contrast. Be sure to include the proposed mitigating measures and standard stipulations in the rating. The rating is completed by determining the degree of contrast (i.e., strong, moderate, weak, or none) for each element. Use the following general criteria and factors when rating the degree of contrast:

a. Degree of Contrast Criteria.

<u>Degree of Contrast</u>	<u>Criteria</u>
<b>None</b>	The element contrast is not visible or perceived.
<b>Weak</b>	The element contrast can be seen but does not attract attention.
<b>Moderate</b>	The element contrast begins to attract attention and begins to dominate the characteristic landscape.
<b>Strong</b>	The element contrast demands attention, will not be overlooked, and is dominant in the landscape.

b. Factors to be considered. Consider the following factors when applying the criteria (see also Illustrations 3, 4, 5, and 6):

(1) Distance. The contrast created by a project usually is less as viewing distance increases.

(2) Angle of Observation. The apparent size of a project is directly related to the angle between the viewer's line-of-sight and the slope upon which the project is to take place. As this angle nears 90 degrees (vertical and horizontal), the maximum area is viewable.

(3) Length of Time the Project Is In View. If the viewer has only a brief glimpse of the project, the contrast may not be of great concern. If, however, the project is subject to view for along period, as from an overlook, the contrast may be very significant.

(4) Relative Size or Scale. The contrast created by the project is directly related to its size and scale as compared to the surroundings in which it is place (see Illustration 7).

(5) Season of Use. Contrast ratings should consider the physical conditions that exist during the heaviest or most critical visitor use season, such as snow cover and tree defoliation during the winter, leaf color in the fall, and lush vegetation and flowering in the spring.

(6) Light Conditions. The amount of contrast can be substantially affected by the light conditions. The direction and angle of lighting can affect color intensity, reflection, shadow, from, texture, and many other visual aspects of the landscape. Light conditions during heavy periods must be a consideration in contrast ratings.

(7) Recovery Time. The amount of time required for successful revegetation should be considered. Few projects meet the VRM management objectives during construction activities. Recovery usually takes several years and goes through several phases (e.g., bare ground to grasses, to shrubs, to trees, etc.). It may be necessary to conduct contrast ratings for each of the phases that extend over long time periods. Those conducting contrast rating should verify the probability and timing of vegetative recovery.

(8) Spatial Relationships. The spacial relationship within a landscape is a major factor in determining the degree of contrast (see Illustration 8).

(9) Atmospheric Conditions. The visibility of projects due to atmospheric conditions such as air pollution or natural haze should be considered.

(10) Motion. Movement such as waterfalls, vehicles, or plumes draw attention to a project.

c. General Guidance for Accessing Contrast.

(1) Form. Contrast in form results from changes in the shape and mass of landforms or structures. The degree of change depends on how dissimilar the introduced forms are to those continuing to exist in the landscape.

(2) Line. Contrasts in line results from changes in edge types and interruption or introduction of edges, bands, and silhouette lines. New lines may differ in their subelements (boldness, complexity, and orientation) from existing lines.

(3) Color. Changes in value and hue tend to create the greatest contrast. Other factors such as chroma, reflectivity, color temperature, also increase the contrast.

(4) Texture. Noticeable contrast in texture usually stems from differences in the grain, density, and internal contrast. Other factors such as irregularity and directional patterns of texture may affect the rating.

3. Determining Whether VRM Objectives are Met (Section D2). Compare the contrast ratings with the objectives for the approved VRM Class (see Appendix 2 for definitions of VRM classes). For comparative purposes, the four levels of contrast (i.e., none, weak, moderate, and strong) roughly correspond with classes I, II, III, and IV, respectively. This means that a "strong" contrast rating may be acceptable in a class IV area but probably would not meet the VRM objectives for a class III area. In making these comparisons, one must also look at the cumulative effect of all the contrast ratings. Certain combinations of ratings may indicate there is a stronger overall contrast than the individual ratings show. For example, several "moderate" ratings when viewed in combination may warrant an overall "strong" rating. This is a judgmental call that must be documented on the back side of the form. If the rater checks the "no" block on the form, indicating the VRM objectives are not met, the reasons for not meeting the objectives must also be documented on the back of the form.

4. Developing Additional Mitigating Measures (Section D3). Since the overall VRM goal is to minimize visual impacts, mitigating measures should be prepared for all adverse contrasts that can be reduced. This includes reduction of contrast in projects which have met the VRM objectives. Mitigating measures should be written so they can easily be extracted and used as stipulations in leases, permits, contracts, etc. When preparing mitigating measures, keep in mind the concepts of strategic location (in less visible and less sensitive areas), minimizing disturbance, and repetition of the basic elements (form, line, color, and texture). Also make sure that mitigating measures are realistic (i.e., do not propose revegetation where the probability of success is very low). Other suggestions for reducing contrast are shown in Appendix 3. The publications listed in the bibliography of Manual Section 8400 also provide additional guidance on mitigating measures.

---

**Illustration 1 - Example of Visual Simulation Technique**

**Existing site**



**Proposed project**



**Project modified**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

SOSA & Friends  
BLM Manual 8431

Visual Resource Contrast Rating  
Date: Aug. 15, 1985

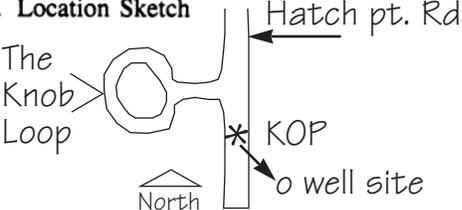
CROSS Exhibit No.       c

District Moab

Resource Area Grand

Activity (program) Oil & Gas

SECTION A. PROJECT INFORMATION

1. Project Name <u>Well Site #136</u>	4. Location Township <u>27S</u> Range <u>21 E</u> Section <u>24</u>	5. Location Sketch 
2. Key Observation Point <u>#15 on Hatch Pt. Rd.</u>		
3. VRM Class <u>Class II</u>		

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	flat to rolling terrain	simple forms created by vegetative patterns	_____
LINE	horizontal & diagonal	weak & undulating	_____
COLOR	dark tans to orange	light to dark green, mottled	_____
TEXTURE	smooth	smooth to course	_____

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	flat	geometric & linear forms created by clearings	cylindrical, geometric, & angular
LINE	horizontal (pad) curved (road)	strong irregular lines created by edge effect of clearings & roads	vertical, horizontal, & angular
COLOR	tan	light green	tan
TEXTURE	fine to smooth	patchy	course

SECTION D. CONTRAST RATING  SHORT TERM  LONG TERM

1. DEGREE OF CONTRAST	FEATURES												2. Does project design meet visual resource management objectives? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain on reverse side)	
	LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)					
	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	3. Additional mitigating measures recommended <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)	
ELEMENTS			✓				✓				✓			
		✓				✓					✓		Evaluator's Names Bob Tumwater Russ Grimes Pete Jordan	
			✓				✓				✓			Date Aug. 15, 1985
			✓				✓				✓			

SECTION D. (Continued)

---

Comments from item 2.

*The strong line created by the clearing for the road and the drill pad creates a contrast that will attract attention.*

---

Additional Mitigating Measures (See item 3)

- 1. Relocate access road off from ridge*
- 2. Revegetate the edge of the drill pad with random clumps of trees and shrubs to break up the flat horizontal line.*

### Illustration 3 - Description of the element FORM

#### definition

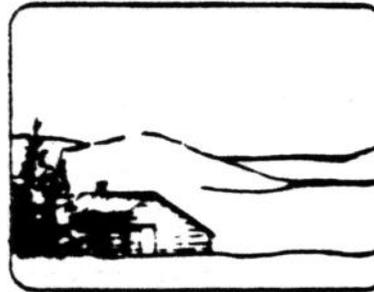
The mass or shape of an object or of objects which appear unified.

#### types

**2-Dimensional Shape** - the presence of an area or areas which contrast in color and/or texture from adjacent areas creating a two-dimensional shape in the landscape.

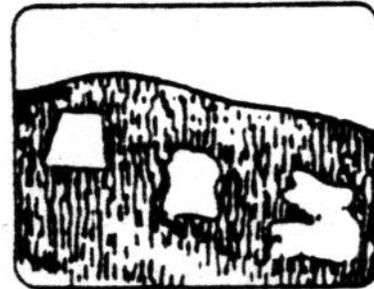


**3-Dimensional Mass** - the volume of a landform, natural object, or manmade structure in the landscape.



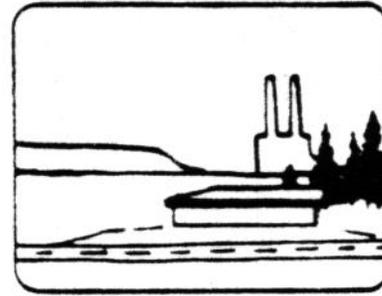
#### subelements

**Geometry** - the extent to which a form approaches a standard geometrical figure of two or three dimensions e.g., square, circle, triangle, cube, sphere, cone, etc.



**Complexity** - the degree of simplicity or intricacy of a form, Simpler forms tend to be regular, and complex forms to be irregular.





**Orientation** - the relationship of the form to the horizontal axis of the landscape (e.g., vertical, horizontal, diagonal, nondirectional), or to the points of the compass (e.g., north-south, ENE WSW).

**suggested vocabulary**

Bold/definite/indistinct  
 Prominent  
 Flat/rolling/rugged  
 Rounded/angular  
 Rough/smooth  
 Jagged/domed/flattened  
 Steep/moderate/gentle  
 Solid/transparent  
 Simple/complex  
 Amorphous/geometric  
 Regular/irregular  
 Narrow/wide  
 Long/short/tall  
 High/low

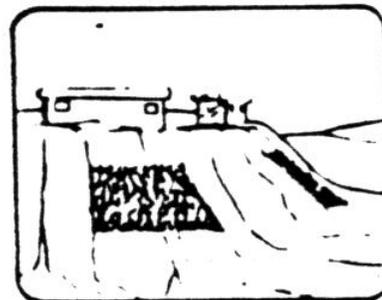
Diverse/numerous/few  
 Large/small  
 Convex/concave  
 Circular/oval  
 Square/rectangular/rhomboid  
 Triangular/trapezoid  
 Linear/parallel/curving  
 Conical/cylindrical/cubic  
 Pyramidal/spherical  
 Contrasting/compatible  
 Vertical/horizontal/diagonal  
 Nondirectional  
 Symmetrical/asymmetrical  
 Strip/block/patch

**dominance**

Forms that are bold solid or vertical tend to be dominant in the landscape

**variable effects**

**Viewing Angle** - the visual proportions of forms change with the direction and angle of viewing, due to perspective effects. Two-dimensional forms become foreshortened with lower observer positions and oblique viewing angles. Three-dimensional forms appear to diminish towards the horizon, especially with oblique viewing angles.



**Lighting** - frontlighting and backlighting tend to flattened three-dimensional forms. Backlighting may emphasize two-dimensional silhouettes. Sidelighting enhances three-dimensional effect.

**Movement** - the eye is attracted to movement in the landscape, e.g., such changing forms as waterfalls, steam from cooling towers, or smoke plumes

### ***Illustration 4 - Description of the element LINE***

#### **definition**

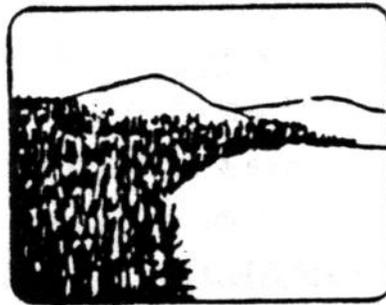
The path, real or imagined, that the eye follows when perceiving abrupt differences in form, color, or texture or when objects are aligned in a one-dimensional sequence. Usually evident as the edge of shapes or masses in the landscape.

#### **types**

##### **Edge**

the boundary along which two contrasting areas are related and joined together - - the outline of a two-dimensional shape on the land surface.

**BUTT EDGE** - the simple sharp edge between two contrasting areas.



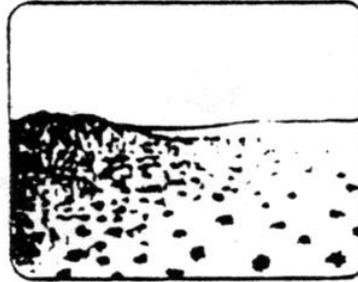
**DIGITATE EDGE** - the complex indented edge between two interlocking and contrasting areas.



**TRANSITIONAL EDGE** - the presence of one or more band(s) connecting two contrasting areas, forming a transitional stage between the two.



**DIFFUSE EDGE** - soft edge formed by a gradation between two contrasting areas.



**Band** - contrasting linear form with two roughly parallel edges dividing an area in two.



**Silhouette-line** - the outline of a mass seen against a backdrop. The skyline is the silhouette-line of the land against the sky.

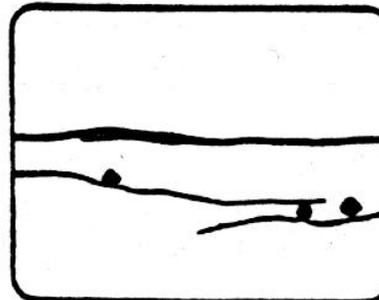


### subelements

**Boldness** - the visual strength of a line. Smooth, long and sweeping lines are stronger than lines formed by the overlapping of numerous forms, e.g., treetops; edges between strongly contrasting colors, e.g., skylines are bolder than those between similar colors.



**Complexity** - the degree of simplicity or intricacy of a line, determined by the variety of directions it follows: skylines in ruffed terrain are more complex than on flat plains.





**Orientation** - the overall relationship of the line to the (horizontal) axis of the landscape or to compass bearings.

### suggested vocabulary

Bold/weak

Complex/simple

Regular/irregular

Soft/hard

Straight/curving

Broken/continuous

Diagonal/horizontal/vertical

Concave/Convex

Angular/subangular

Converging/diverging

Jagged/rugged/smooth

Parallel/perpendicular

Undulating/flowing

Geometric/circular/semicircular

### dominance

Bold vertical lines which interrupt the skyline tend to dominate weak horizontal lines.

### variable effects

**Distance** - the strength of a line can decrease with distance due to atmospheric haze.

**Atmospheric Conditions** - clouds, fog, haze, snow can obliterate skylines.

**Lighting** - frontlighting flattens form and reduces line strength. Often only the skyline remains evident (e.g., mountain ranges). Sidelighting accentuates the silhouette-lines of separate forms. Backlighting blends together forms of equal distance into one outline. In mountain ranges, the ridgelines delineate overlapping flat silhouettes.

## Illustration 5 - Description of the element COLOR

### definition

The property of reflecting light of a particular intensity and wavelength (or mixture of wavelengths) to which the eye is sensitive. It is the major visual property of surfaces.

### subelements

**Hue** - the aspect of color which we know by particular names, e.g., red, blue, orange, and which forms the visible spectrum. A given hue or color tint is caused by a particular wavelength.

**Value** - the degree of lightness or darkness, caused by the intensity of light being reflected, ranging from black to white.

**Chroma** - the degree of color saturation or brilliance, determined by the mixture of light rays. It is the degree of grayness in a color, ranging from pure (high chroma) to dull (low chroma).

### suggested vocabulary

- Hues - red, yellow, brown, olive gray, reddish brown, etc. (See Munsell color books for precise terms.)
- Primary colors - red, blue, yellow
- Secondary colors - green, orange, violet
- Tertiary colors - mixtures of secondary colors.
- Value - dark to light
- Chroma - brilliant, pure, saturated, dull, grayish.
- Color temperature - warm to cold, temperature is caused by hue.
  - Red, yellow, brown, and orange are considered warm and sunny.
  - Blues and green are cool and shady.
- Vivid color - usually primary or secondary colors, with high chroma.
- Subtle color - colors or mixtures which are delicate, usually tertiary or low chroma colors.
- Luminous color - emitting its own light.
- Glare - reflection of high intensity light (very high value).
- Pastel color - delicate "soft" color of high value but low chroma.
- Monotone - the sameness or uniformity of color.
- Color harmony - the assortment of combinations of colors which readily and pleasantly blend with each other.

### dominance

With other things equal, light, warm, bright colors in a scene will "advance" and tend to dominate dark, cool, dull colors which "retreat." Dark next to light tends to attract the eye and become a visual focal point.

### variable effects

**Distance** - atmospheric perspective, due to scattering of light by dust particles, makes colors become paler, lower in chroma, and bluer as viewing distance increases. High value colors tend to remain most recognizable over great distances.



**Atmospheric Conditions** - haze, fog, dust, rain, etc., may cause atmospheric perspective to become extreme, even over short viewing distances. Compared with sunshine, clouds reduce value and chroma.



**Lighting Direction** - objects which are frontlighted (i.e., illuminated from the front, behind the observer) appear paler and brighter than those which are backlit (i.e., illuminated from behind).



**Time of Day** - illuminated surfaces tend to become paler during midday sun and to become darker and redder early and late.



## Illustration 6 - Description of the element TEXTURE

### definition

The aggregation of small forms or color mixtures into a continuous surface pattern; the aggregated parts are enough that they do not appear as discrete objects in the composition of the scene.

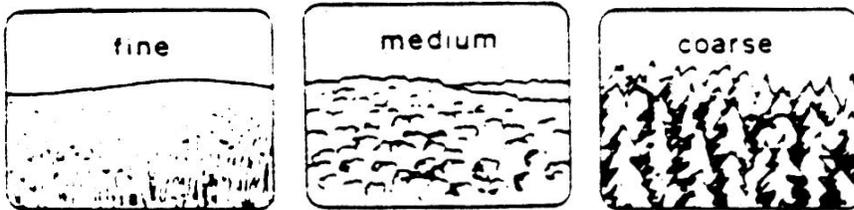
### type

**Color Mixture (mottling)** - intrinsic surface color contrasts of very small scale in relation to the perceived may be due to hue, chroma, or value, alone or in combination.

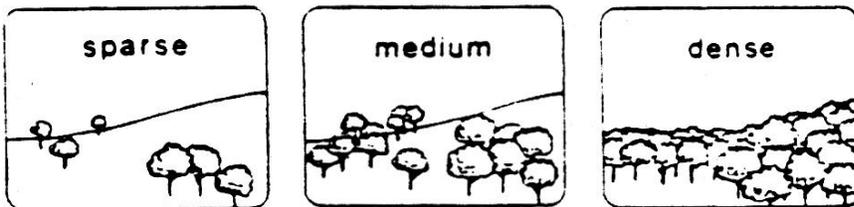
**Light and Shade** - the color contrast particularly in value, created by differences in lighting on a varied surface or repeated forms. It consists of the repetition of a lit side, shaded side, and the shadow cast.

### subelements

**Grain** - the relative dimensions of the surface variations, ranging from large (coarse texture, e.g., coniferous forest) to small (fine texture, e.g., grassland).



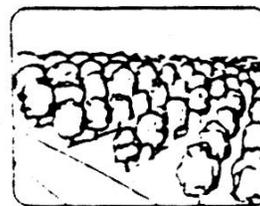
**Density** - the spacing of surface variations creating the texture



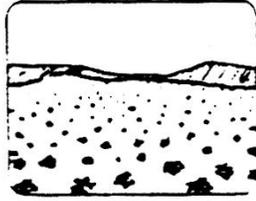
**Regularity** - the degree of uniform recurrence and symmetrical arrangement of the surface variation. Based on density distribution (uniform vs. variable) and spatial arrangement (ordered vs. random).



uneven/random



even/ordered



even/random



gradation

**Internal Contrast** - the degree of contrast in colors or values creating the texture



**suggested vocabulary**

Coarse/medium/fine

Smooth/rough

Uniform/patchy/gradational

Directional/nondirectional

Discontinuous/continuous

Random/ordered

Contrasty/subtle

Dense/sparse

Glossy/matte

Striated

Scattered

Dotted

Clumped

Striped

Stippled

Granular

**dominance**

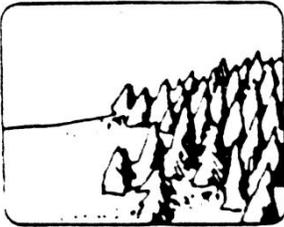
Coarse and contrasty textures tend to dominate fine-grained textures of low internal contrast.

**variable effects**

**Distance** - internal contrast and the apparent grain of the texture is lessened with distance - - coarse textures of coniferous forest may remain visible at up to 8-10 miles, while fine textures of grassland may disappear within 1/4 mile of the observer.

**Atmospheric Conditions** - haze, cloud, dust, etc., reduce the distance at which textures disappear and lose internal contrast.

**Illumination** - light and shade textures are most obvious in side-lighting and when light intensity is strong, casting distinct dark shadows. Strong side-lighting increases distance-range within which textures remain visible



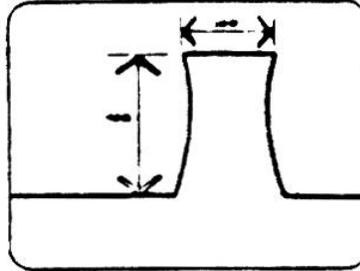
## Illustration 7 - Description of the element SCALE

### definition

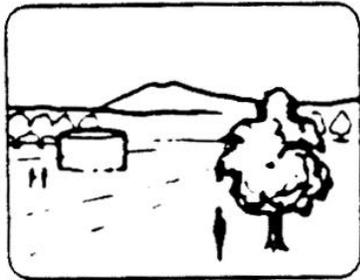
The proportionate size relationship between an object and the surroundings in which it is placed

### types

**Absolute Scale** - the absolute size of an object obtained by relating the size of the object to a definitely designated standard, (i.e., measurements).



**Relative Scale** - the relative size of objects, the apparent size relationship between landscape components and their surroundings.



### subelements

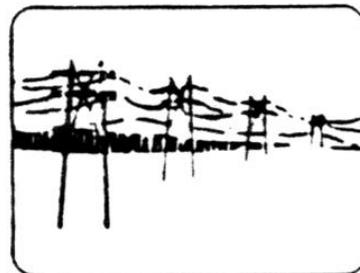
**Proportion of landscape setting (scale dominance)** - the scale of an object relative to the visible expanse of the landscape which forms its setting.

**Scale contrast** - the scale of an object relative to other distance objects or areas in the landscape

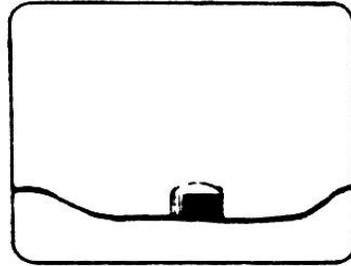
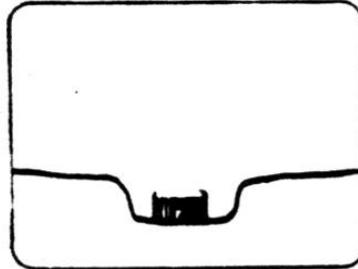
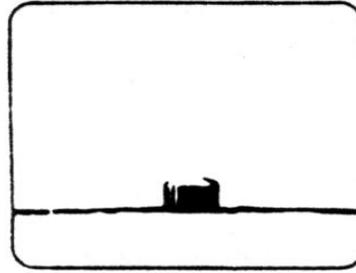
**Proportion of field-of-view** - the scale of an object relative to the total field-of-view accepted by the human eye or camera.

### variable effects

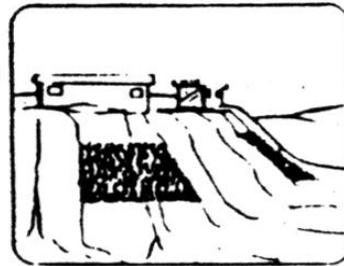
**Distance** - the apparent size of an object decreases with distance from the observer.



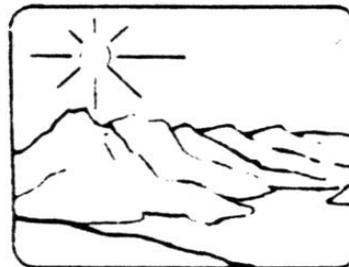
**Spatial Enclosure** - the size of the enclosing space inversely affects an object's relative scale - - small spaces make objects appear larger.



**Viewing Angle** - the apparent scale of an object in the landscape is affected by the observer's angle of view in two ways:  
(1) perspective foreshortening reduces the apparent size of surfaces of areas or objects, when seen obliquely or at low viewing angles.  
(2) by increasing an object's elevation in relation to the observer's position, the objects's relative scale tends to increase.



**Atmospheric Conditions** - increased haziness may increase the apparent scale of the landscape's space by obscuring its boundaries.





## ***Illustration 8 - Description of the element SPACE***

### **definition**

The spatial qualities of a landscape are determined by the three-dimensional arrangement of objects and voids.

### **subelements**

**Landscape Composition** - the arrangement of objects and voids in the landscape can be categorized by their spatial composition:

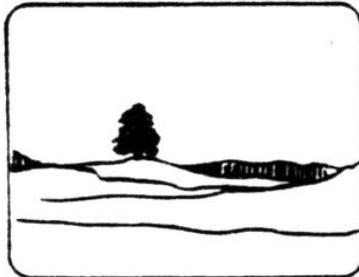
**PANORAMIC** - a broad horizontal composition, with no apparent limits to the view. Includes plains, expanses of water, and distant mountain ranges. Sky and foreground elements may occupy much of the scene.



**ENCLOSED** - the space is bounded by an enclosing facade of cliffs, slopes, or forest edge, creating “wall” and “floor” elements.



**FEATURE** - a composition dominated by a distance object or cluster of objects such as a waterfall, prominent landform, or tree.



**FOCAL** - converging lines in the landscape or progressions of aligned objects lead the eye to a focal area in the scene.

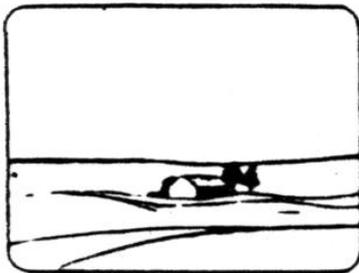


**CANOPIED** - the scene within or at the edge of a forest, where branches and foliage above eyelevel create a canopy or “ceiling.”



Some compositions, especially those which are distinctly focal, enclosed, or feature-oriented, are more vulnerable to modifications than others, depending upon how strongly the spatial configuration draws the eye to certain locations.

**Spatial Position** - the elevation and location of objects in the landscape relative to topography affect their prominence: high and exposed positions are more prominent than low obscured positions.



plain



valley floor



slope-toe



side-slope



plateau/bench

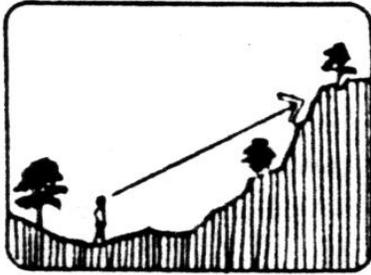


ridge-top

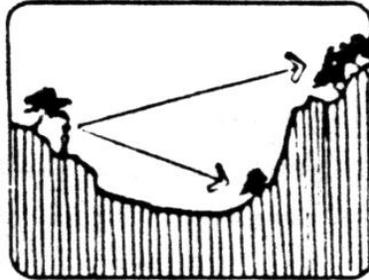
**Backdrop** - the backdrop against which an object is seen affects its visual contrast. Modifications seen against the sky or water are usually more prominent than against a land backdrop.

**variable effects**

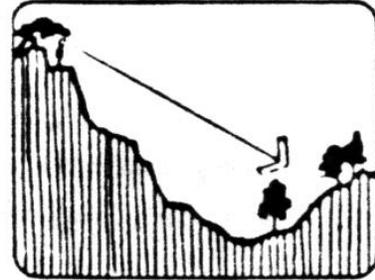
**Observer Position** - the position of the observer relative to the landscape may be described as:



inferior (below)



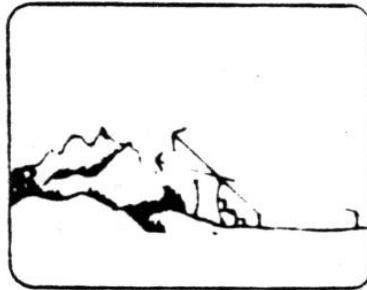
normal



superior (above)

A change in position can affect the observer's perceptions of degree of enclosure on an object's degree of spatial dominance. Inferior positions may increase both apparent degree of enclosure and spatial dominance.

**Distance** - the observer's proximity to elements will affect perception of their spatial importance. Longer viewing distances tend to reduce the impression of spacial enclosure and dominance.



## Manual 8431 - Visual Resource Contrast Rating

### Appendix 1 - Project Description Guidelines

Project proposals, whether site-specific, corridor, or large-scale, must be described using plans, sketches, simulations, or narratives in sufficient detail so that the expected changes in the landscape features (landform/water, vegetation, and structures) can be visualized. If a proposal does not contain sufficient detailed information, it must be obtained or the assumptions clearly documented. Use the following checklist as a guide when identifying the information needed for each proposal:

1. General
  - a. Type of project.
  - b. Specific location(s).
  - c. Proposed methods of operation from preplanning and design through project completion.
  - d. Size and magnitude.
  - e. Time period of operation, including specific phasing and discrete operation.
  - f. Specific committed standard operational procedures of proposal.
  - g. Projected ultimate land use and adjacent land use..
2. Specific.
  - a. Feature: Landform and Water.
    1. Exact location of undertaking, and depth of excavation and fill (horizontal, vertical, and slope).
    2. Color of the exposed soils, subsoils, bedrock, overburden, or fill material when major excavations or fills are anticipated.
    3. Anticipated water coloration where reservoir, tailing areas, etc., are planned.
    4. Timing and duration of exposed excavation or fill.
    5. Methods of operation, how long each phase of the operation will last.
    6. Reshaping after use, including final landform appearance (grades, slopes, drainage patterns).
    7. Anticipated ultimate use.
  - b. Feature: Vegetation.
    1. Exact location and method of vegetative manipulation (extent of clearing and modification).
    2. Size and magnitude of change.
    3. Type, location, method, quantity, and timing of replacing and/or receding.
  - c. Feature: Structures.
    1. Exact locations where structures are to be placed within the project areas.
    2. Design of structures.
      - a. Size and type.
      - b. Form.
      - c. Texture(s) and color(s) of exterior material and construction method to be used).

3. Life expectancy.
4. Operations and maintenance (schedule and methods).

---

[Back to BLM 8431](#)

[Back to BLM Responsibilities](#)

[Back to VRM Homepage](#)

[Take me to the Sitemap](#)

## Manual 8431 - Visual Resource Contrast Rating

---

### Appendix 2 - VRM Class Objectives

**Class I Objective.** The objective of this class is to preserve the existing character of the landscape. This class provides for natural ecological changes; however, it does not preclude very limited management activity. The level of change to the characteristic landscape should be very low and must not attract attention.

**Class II Objective.** The objective to this class is to retain the existing character of the landscape. The level of change to the characteristic landscape should be low. Management activities may be seen, but should not attract the attention of the casual observer. Any changes must repeat the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape.

**Class III Objective.** The objective of this class is to partially retain the existing character of the landscape. The level of change to the characteristic landscape should be moderate. Management activities may attract attention but should not dominate the view of the casual observer. Changes should repeat the basic elements found in the predominant natural features of the characteristic landscape.

**Class IV Objectives.** The objective of this class is to provide for management activities which require major modification of the existing character of the landscape. The level of change to the characteristic landscape can be high. These management activities may dominate the view and be the major focus of viewer attention. However, every attempt should be made to minimize the impact of these activities through careful location, minimal disturbance, and repeating the basic elements.

---

[Back to BLM 8431](#)

[Back to BLM Responsibilities](#)

[Back to VRM Homepage](#)

[Take me to the Sitemap](#)

## Manual 8431 - Visual Resource Contrast Rating

### Appendix 3 - A Sample List of Design Techniques for Mitigating Visual Impacts

#### A. LANDFORM/WATER BODY.

1. Reduce Size of Cut and Fill Slopes. Consider:
  - a. relocating to an area with less slope.
  - b. changing road width, grade, etc.
  - c. changing alignment to follow existing grades.
  - d. prohibiting dumping of excess material on downhill slopes.
2. Reduce Earthwork Contrasts. Consider:
  - a. rounding and/or warping slopes.
  - b. retaining rocks, trees, drainage, etc.
  - c. toning down freshly broken rock faces with asphalt emulsion spray or with gray point.
  - d. adding mulch, hydromulch, or topsoil.
  - e. shaping cuts and fills to appear as natural forms.
  - f. cutting rock areas so forms are irregular.
  - g. designing to take advantage of natural screens (i.e., vegetation, land forms).
  - h. grass seeding of cuts and fills.
3. Maintain the Integrity of Topographic Units. Consider:
  - a. locating projects away from prominent topographic features.
  - b. designing projects to blend with topographic forms in shape and placement.

#### B. VEGETATION.

1. Retain Existing Vegetation. Consider:
  - a. using retaining walls on fill slopes.
  - b. reducing surface disturbance.
  - c. protecting roots from damage during excavations.
2. Enhance Revegetation. Consider:
  - a. mulching cleared areas.
  - b. controlling planting times.
  - c. furrowing slopes.
  - d. planting holes on cut/fill slopes.
  - e. choosing native plant species.
  - f. stockpiling and reusing topsoil.
  - g. fertilizing, mulching, and watering vegetation.
3. Minimize Impact on Existing Vegetation. Consider:
  - a. partial cut instead of clear cut.
  - b. using irregular clearing shapes.