



Checklist Fire Behaviour Analyst

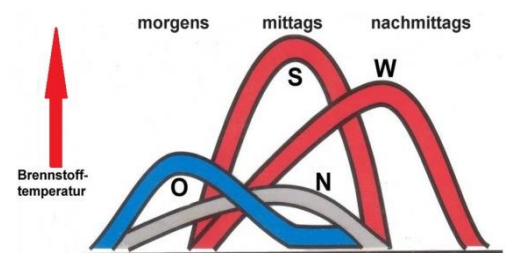
Page 1 – Basic data collection

Incident location: _____ Date: _____

Time: _____

- ⇒ Obtaining of topographic maps of the incident area (scale preferably 1:25.000 or equivalent like 1:10.000 e.g. at www.opentopomap.org or <http://www.natgeomaps.com/trail-maps/pdf-quads>)
- ⇒ Map-APPS: like TOPO GPS
- ⇒ Mark the the fire perimeter and the predominant wind direction/windspeed into the map (Use of GPS if possible; preferably sizeup on the ground ((Quad/by foot); digital images with GPS-location possible?)
 - If direct sizeup on the ground possible note the ROS in m/min and alignment of forces (0-3?) for all parts of the fire
 - Display the data in the current map
 - Communication of the findings tot he ICP
- ⇒ Determination of the position of the sun and sunrise/sunset times (www.sonnenverlauf.de (German – but works worldwide!) or APP stonekick “sun position”)
- ⇒ Mark the current sun position and peak sun position on the flammability curve (mark with a line and the time)
- ⇒ Is the projected time of an expected diurnal wind change known – if yes mark like this on the flammability curve (↕ incl. wind direction and time)

Identification and marking of trigger points (T) on the map





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Page 1-1 – basic tactical information

- 1) Utilize ground forces as a first measure if feasible concerning ROS and fireline intensity

Utilize LACES: Lookout – Ancor point(s) – Communications – Escape route(s) - Safety zone(s)!

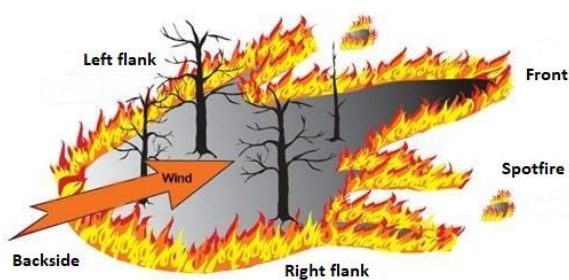
- a. Backpack pumps (Class A wetting agent at 0,1% possible? Watershed?)
 - b. Handtools in conjunction with the fuel type
 - c. Logistics (drinking water, Snacks, Water for the backpack pumps)
 - d. Long hoselays / relay pumping only after mobile attack is sufficient
- 2) If vehicle access to the fire is possible use small diameter hose as fast as possible (25mm/1 inch at ~100l/min)
(Conserve water – conserve water – conserve water!)
- 3) Identify trigger points (change of alignment) and communicate these (marking in the maps and to the ICP)
 - a. Time tags – Times of antipated change of alignments (wind shifts etc.)
 - b. Trigger points – Locations for anticipated change of alignment (in/out of alignment)

Page 2 – Tactical planning – fire behaviour analysis

Time period from (Date / Time) _____ Page no. ____
to (Date / Time) _____

Expected fire behaviour:

- ⇒ Firefront Factor 0 - 1 – 2 – 3 Remarks: _____
 - Special risks: _____
- ⇒ Right flank Factor 0 - 1 – 2 – 3 Remarks: _____
 - Special risks: _____
- ⇒ Left flank Factor 0 - 1 – 2 – 3 Remarks: _____
 - Special risks: _____
- ⇒ Backside Factor 0 - 1 – 2 – 3 Remarks: _____
 - Special risks: _____



Recommended tactical approach:

